**An Integrated System for Production of Neutronics
and Photonics Computational Constants**

Volume 3 Revision 2

**NEUTRON-INDUCED INTERACTIONS:
INDEX OF EXPERIMENTAL DATA**

M. H. MacGregor, D. E. Cullen, R. J. Howerton,
and S. T. Perkins

July 4, 1976

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UCRL-50400 Volume 3 Revision 2

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M. H. MacGregor, D. E. Cullen, R. J. Howerton,
and S. T. Perkins

MS. date: July 4, 1976

MASTER

Foreword

The UCRL-50400 series describes an integrated and computer-oriented system for the production and application of neutronics and photonics calculational constants.

The system must supply reliable up-to-date data, select specific types of data on request, provide output in a variety of forms -- ultimately in the form of input to other computer codes -- and function rapidly and efficiently. The system has now been developed to a point where these goals are being realized.

The UCRL-50400 series, *An Integrated System for Production of Neutronics and Photonics Calculational Constants*, comprises the following volumes:

- Vol. 1 Rev. 3, *ECSII, A System for Storage, Retrieval and Display of Experimental Neutron Data*, to be published in September 1976.
- Vol. 2 Rev. 2, *Neutron-Induced Interactions: Bibliography of Experimental Data*, July 1976.
- Vol. 3 Rev. 2, *Neutron-Induced Interactions: Index of Experimental Data*, July 1976.
- Vol. 4, *Evaluated Nuclear Cross-Section Library*, April 1971.
- Vol. 5, Rev. 1, *CLYDE: A Code for the Production of Calculational Constants from Nuclear Data*, September 1975.
- Vol. 6, Rev. 1, *Tables and Graphs of Photon Interaction Cross Sections from 1.0 keV to 100 MeV Derived from the LLL Evaluated Nuclear Data Library*, October 1975.
- Vol. 7 Part A Rev. 1, *Major Neutron-Induced Interactions ($Z \leq 48$): Graphical, Experimental Data*, July 1976.
- Vol. 7 Part B Rev. 1, *Major Neutron-Induced Interactions ($Z > 48$): Graphical, Experimental Data*, July 1976.
- Vol. 8 Rev. 1 Part A, *Supplemental Neutron-Induced Interactions ($Z \leq 35$): Graphical, Experimental Data*, July 1976.
- Vol. 8 Rev. 1 Part B, *Supplemental Neutron-Induced Interactions ($Z > 35$): Graphical, Experimental Data*, July 1976.
- Vol. 9, *Thresholds of Nuclear Reactions Induced by Neutrons, Photons, Neutrons, Tritons, and Alpha Particles*, September 1970.
- Vol. 10, *Tabulated Experimental Data for Neutron-Induced Interactions*, July 1976.

- Vol. 11, *Experimental Data, Indexes and Techniques of Obtaining a Selected Set of Neutron Resonance Parameters*, May 1972.
- Vol. 12, *An Atlas of Resolved Neutron Resonance Parameters*, July 1972.
- Vol. 13, *An Atlas of Unresolved Neutron Resonance Parameters*, September 1972.
- Vol. 14, *TARTNP: A Coupled Neutron-Photon Monte Carlo Transport Code*, July 1976.
- Vol. 15, Part A, *The LLL Evaluated Nuclear Data Library (ENDL): Evaluation Techniques, Reaction Index, and Descriptions of Individual Evaluations*, September 1975.
- Vol. 15, Part B, *The LLL Evaluated Nuclear Data Library (ENDL): Graphs of Cross Sections from the Library*, April 1976.
- Vol. 15, Part C, *The LLL Evaluated Nuclear Data Library (ENDL): Translation of ENDF Neutron-Induced Interaction Data into the ENDF/B Format*, April 1976.
- Vol. 16, *Tabular and Graphical Presentation of 175 Neutron Group Constants Derived from the LLL Evaluated Neutron Data Library (ENDL)*, April 1976.

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NEUTRON-INDUCED INTERACTIONS: INDEX OF EXPERIMENTAL DATA

Abstract

We present a tabulation of the indexes to the neutron-induced interaction data in the Experimental Cross Section Information Library

(ECSIL) as of July 4, 1976. The tabulation has two arrangements: isotope (ZA) order and reaction-number order.

Introduction

In 1958, Lawrence Livermore Laboratory (LLL) installed a computerized system for the storage and retrieval of experimental neutron-interaction data. This Experimental Cross Section Information Library has developed gradually and is still being improved.

The present ECSIL system¹ comprises two separate files: a numerical data file and a bibliographic information file. The two files are linked through the use of a four-digit number uniquely assigned to each reference.

In 1959 and 1960, LLL published tabulations of integrated and differ-

ential neutron cross sections below 15 MeV. Since that time, the number of entries in the system has increased by more than an order of magnitude. Consequently, the current library contains too much data (over 1.6 million data points) to publish tabulations; the resulting volumes would be prohibitively expensive and bulky. However, by presenting the data in graphs^{2,3} and on microfiche,⁴ we can significantly reduce expense and bulk. Moreover, bulk reduction means that indexes⁵ and bibliographies can be added to help in data manipulation.

Data Indexes

This volume contains two indexes to the current data file:

- *Isotope (ZA) Order* arranges data in increasing order of

the target ZA number (see "ECSIL Conventions" for special ZA numbers assigned to elemental mixtures, compounds, and special materials). This data arrangement helps to determine which cross sections have been measured for a given material.

- *Reaction Number Order* arranges data in increasing order of ECSIL C numbers (the C number is the ECSIL numerical equivalent of the experimentally

measured quantity). See "ECSIL Conventions" for the definitions of the basic C numbers for all interactions (e.g., total, elastic, and capture) and for the C-number increments that describe interaction properties (e.g., cross-section and angular distribution). This arrangement of data according to C number helps to determine which isotopes have measured cross sections of a given type (such as nuclear systematics studies).

1976 Edition

This edition's indexes contain comparisons with the 1974 edition by indicating new (N) or changed (C) entries. The first column in a table may show an N or C. A blank indicates

that the entry appeared in the 1974 edition.

A reference-number-ordered index does not appear in this edition. See vol. 2 of this UCRL series for such an ordering.

Relationship to Other Volumes

The data indexes are closely related to other volumes in the UCRL-50400 series. These data indexes can be used to determine which data are in the library for a given isotope or reaction. The following volumes provide other paths to the information:

- *Volume 1* describes the format and conventions associated with

the library as well as the supporting system of programs. It also gives the forms (e.g., plots and listings) and the order in which data and bibliographic information may be obtained.

- *Volume 2* contains bibliographic indexes that can be used to determine whether a given

reference is included in the ECSIL system and which experimental data are associated with the reference.

- *Volume 7* presents graphs of all total, elastic, capture, and fission integral cross sections. It also supplies data on $\bar{\nu}$ (neutrons/fission), α (capture/fission ratio), and η (neutrons/nonelastic event).
- *Volume 8* presents graphs of all other integrated (as opposed to angular distribution) cross

sections, including (n,n') , (n,α) , etc.

- *Volume 10* contains the ECSIL library contents tabulated on microfiche.
- *Volume 11* lists indexes and tabulated resonance parameters in ECSIL.
- *Volume 12* lists tabulated selected resolved resonance parameters.
- *Volume 13* lists tabulated selected unresolved resonance parameters.

Production of Tables

Program ECSDEX¹ produced the tables in this volume. This program required a single noninteractive pass through the ECSIL data library. Such a pass,

using 4.2 min of CDC-7600 time, produced a single roll of 35 mm film containing all tables in correct order, ready for photo-offset printing.

Corrections and Suggestions

Users of these volumes have been a major aid in detecting and reporting erroneous data that have crept into ECSIL. They have also suggested improvements in the format and scope of these volumes. Please communicate

all corrections and suggestions to:

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New York; the European Nuclear Energy Agency's center for collection of neutron data at Saclay, France; the International Atomic Energy Agency Nuclear Data Section at Vienna, Austria; and the Nuclear Data Center at Obninsk, USSR. The National Neutron Cross Section Center has routinely supplied us with experimental data collected at the four centers.

Many experimenters have furnished us with their data before publication. To them, especially, we offer our grateful thanks. Finally, we would like to express our sincere gratitude to Violet Gamble and Sally Mooney for their efforts in maintaining the bibliographic file and to Kenneth Hill for ensuring that the numerous computer runs were satisfactorily completed.

References

1. D. E. Cullen, R. J. Howerton, M. H. MacGregor, and S. T. Perkins, *ESCIL, A System for Storage, Retrieval and Display of Experimental Neutron Data*, Lawrence Livermore Laboratory, Rept. UCRL-50400, Vol. 1 Rev. 3 (to be published in 1976).
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5. M. H. MacGregor, D. E. Cullen, R. J. Howerton, and S. T. Perkins, *Neutron-Induced Interactions: Bibliography of Experimental Data*, Lawrence Livermore Laboratory, Rept. UCRL-50400, Vol. 2 (1976).

Appendix:

ECSIL Conventions

The ECSIL data system describes experimental neutron-induced cross sections and related information by indicating:

- *Target.* The ZA number describes the target. There are several special conventions. For example, A is set at zero for elemental mixtures. For compounds, the Z of the element that appears first in the molecular formula is used, and A is defined as 300 plus the molecular weight (e.g., H_2O is assigned $Z = 1$ and $A = 318$). For unstable targets, the longest-lived isomer is assigned the ZA number of the target. Short-lived isomers are assigned the Z of the target, and A is defined as 600 plus the atomic weight of the target (e.g., ^{242g}Am is assigned $Z = 95$ and $A = 842$). See Table 1 for a complete list of compounds and special isotopes.
- *Interaction.* A numerical equivalent is used to designate the interaction: total, elastic, capture, etc. In ECSIL, this numerical equivalent becomes the

basic C number. Table 2 gives a complete list of all basic C numbers.

- *Interaction Property.* A numerical equivalent designates the interaction properties that are measured, such as cross section, angular distribution, or energy distribution. In ECSIL, this numerical equivalent becomes the C-increment number. The total C number used to describe the interaction and its property is the sum of the C-number increment and the basic C number [e.g., 11 indicates the total (n,n') cross section, while 311 indicates the (n,n') secondary neutron energy spectrum]. Table 3 gives a complete list of all C-number increments. Table 4 lists miscellaneous quantities not included in the basic C-number, C-number-increment scheme.
- *Interaction Modifier.* A numerical equivalent is used to further qualify or describe the interaction. This quantity indicates conditions such as

target temperature, the cross section for excitation of one or more levels of the residual nucleus, and the cross section for production of one or more

photoons. In ECSIL, this numerical equivalent becomes the S number. Table 5 gives a complete list of all S numbers.

Table 1. Compounds and special isotopes (assigned ZA's).

Assigned ZA number	Material	Assigned ZA number	Material
1302	H ₂ (gas)	14360	SiO ₂
1308	H ₂ O	16364	SO ₂
1320	D ₂ O	22349	TiH _{0.6}
5370	B ₂ O ₃	22350	TiH _{1.9}
6328	C ₂ H ₄	26460	Fe ₂ O ₃
6331	CH ₃ OH	27660	60mCo
6376	C ₆ H ₆	40391	ZrH _{0.63}
6384	C ₆ H ₁₂	40392	ZrH _{0.98}
6386	C ₆ H ₁₄	40393	ZrH _{1.5}
6392	C ₃ H ₈ O ₃	40394	ZrH _{1.98}
6404	C ₈ H ₈	40395	Zircaloy-2
6492	C ₁₀ H ₈ O ₄	40423	ZrO ₂
6652	C ₂₅ H ₅₂	52723	145mTe
7328	N ₂ (gas)	60636	Nd ₂ O ₃
7353	NH ₄ Cl	61748	148gPm
7398	NH ₄ Br	82999	RADIO-Pb
7445	NH ₄ I	92570	UO ₂
8332	O ₂ (gas)	95842	242gAm
12340	MgO	95844	244gAr
13402	Al ₂ O ₃	99854	254mEs

Table 2. Basic reaction designator (basic C).

Basic C number	Cross-section type	Basic C number	Cross-section type
1	Total	25	(n,X) charged-particle emission
2	Elastic	26	(n,p)
3	Nonelastic	27	(n,Xp)
4	Neutron emission (elastic + nonelastic)	28	(n,d)
5	Total scattering (inelastic + elastic)	29	(n,Xd)
6	Neutron nonelastic emission	30	(n,t)
7	Removal	31	(n,Xt)
8	—	32	(n, ^3He)
9	—	33	(n, X ^3He)
10	—	34	(n, α)
11	(n,n')	35	(n,X α)
12	(n,2n)	36	Activation
13	(n,3n)	37	(n,2 α)
14	(n,n'p)	38	—
15	(n,n'd)	39	—
16	(n,n't)	40	—
17	(n,n', ^3He)	41	Bound atom
18	(n,n', α)	42	Free atom
19	(n,4n)	43	Coherent scattering
20	—	44	Incoherent scattering
21	Absorption	45	Potential scattering
22	(n,fission)	46	$\bar{\nu}_p$, prompt neutrons per fission (average)
23	(n, γ)	47	$\bar{\nu}_d$, delayed neutrons per fission (average)
24	(n,X γ) gamma-ray production	48	η , neutrons produced per nonelastic
		49	α , capture-to-fission ratio

Table 3. Reaction designator increments (C increment).

C increment number	Reaction property (units)	Definition
0	Integrated cross sections (b) or related parameters	σ
50	Spectrum-averaged cross sections (b)	$\bar{\sigma}$
100 ^a	Angular distributions (b/sr)	$\sigma(E, \Omega)$
200	Energy distributions (b/MeV)	$\sigma(E, E')$
250 ^a	Angular distributions integrated between fixed angular limits (b)	$\sigma(E, \Omega_{\min}^{\circ}, \Omega_{\max}^{\circ})_{\text{lab}}$
300 ^a	Differential energy distributions (b/sr MeV)	$\sigma(E, E', \Omega)_{\text{lab}}$
350 ^a	Partial distributions integrated between fixed energy and angular limits (b)	$\sigma(E, E'_{\min}, E'_{\max}, \Omega_{\min}^{\circ}, \Omega_{\max}^{\circ})_{\text{lab}}$
400	Energy distributions integrated between fixed energy limits (b)	$\sigma(E, E'_{\min}, E'_{\max})$
450 ^a	Legendre expansion of angular distributions - $g_L(E)$ (dimensionless)	$\sigma(E, \Omega) = \sigma(E) \sum_{L=0}^{\infty} \frac{2L+1}{4\pi} g_L(E) P_L(\cos \Omega)$
500	Resonance integrals (b)	$R.I. = \int_{E_{\min}}^{E_{\max}} \sigma(E) \frac{dE}{E}$
550 ^a	Polarization (dimensionless)	$P(E, \Omega)$
600 ^a	Partial distributions integrated between fixed-energy limits (b/sr)	$\sigma(E, E'_{\min}, E'_{\max}, \Omega)_{\text{lab}}$
650 ^a	Partial distributions integrated between fixed angular limits (b/MeV)	$\sigma(E, E', \Omega_{\min}^{\circ}, \Omega_{\max}^{\circ})_{\text{lab}}$
850	C/S ratios (dimensionless)	
900	Miscellaneous quantities	See Table 4

^a Angular distributions for all unique $2A-1-1/2$ reactions are expressed in the center-of-mass system. Multibody reactions are expressed in the laboratory frame of reference.

Table 4. Reaction designator for miscellaneous quantities.

C	Spectra parameters			
901	Nuclear temperature, nonelastic (excluding fission)			
902	Nuclear temperature, total nonelastic			
903	Nuclear temperature, fission			
904	Nuclear temperature, inelastic (first neutron)			
905	Nuclear temperature (second neutron)			
Thermal parameters				
911	Thermal scattering law, $S(\alpha, \beta)$			
Average resonance parameters				
941	$\bar{D}_{\text{observed}}$	944	$\bar{\Gamma}_n^l$	
942	$\bar{\Gamma}_Y$	945	$\bar{D}_l$	
943	$\bar{\Gamma}_f$	946	$\bar{S}_l$	
Resolved resonance parameters				
951	E_o (energy only)	966	$g\Gamma_n$	981 $\sigma_o \Gamma_f / \Gamma_t$
952	J, π	967	$g\Gamma_n^o$	982 $\sigma_o \Gamma_Y / \Gamma_t$
953	l	968	$g\Gamma_Y$	983 $\sigma_o \Gamma_a / \Gamma_t$
954	g	969	Γ_n / Γ_t	984 $\sigma_o \Gamma_Y \Gamma_f / \Gamma_t$
955	σ_o	970	Γ_a / Γ_t	985 $\sigma_o \Gamma_f^2 / \Gamma_t$
956	Γ_t	971	Γ_Y / Γ_t	986 $g\Gamma_Y \Gamma_n / \Gamma_t$
957	Γ_n	972	Γ_n / Γ_a	987 $2g\Gamma_n^2 / \Gamma_t$
958	Γ_n^o	973	Γ_f / Γ_t	988 $\Gamma_t^2 \sigma_o$
959	Γ_Y	974	Γ_f / Γ_a	989 $g\Gamma_n^o \Gamma_f$
960	Γ_f	975	Γ_Y / Γ_f	990 $g\Gamma_f \Gamma_n / \Gamma_t$
961	Γ_a	976	$\Gamma_t \sigma_o$	991 $\sigma_o \Gamma_f \Gamma_t$
962	Γ_α	977	$\Gamma_f \sigma_o$	992 $\Gamma_n^o \Gamma_f / \Gamma_t$
963	Γ_p	978	$\Gamma_Y \sigma_o$	993 $g(\Gamma_n)^2$
964	$g\Gamma_n^1$	979	$\Gamma_n \sigma_o$	994 $g\Gamma_n \Gamma_Y$
965	$g\Gamma_n^2$	980	$\sigma_o \Gamma_n / \Gamma_t$	

Table 5. Reaction designator modifier^a (S number).

S number	Modification (units)
1	Level excitation (MeV)
2	Isomer production (sec)
3	Isomer production (min)
4	Isomer production (hr)
5	Isomer production (d)
6	Isomer production (yr)
7	Photon production (MeV)
8	Unresolved level excitation (MeV)
9	Material temperature (K)
10	Unresolved photon production (MeV)
11	Spin state (dimensionless)
12	Isotope bound in material (dimensionless)
13	Oriented crystal (Miller number)
14	Electron production (MeV)
20	Transmission measurement (b/atom)

^aS + 80 indicates relative distribution.

REACTION INDEX
(ZA - ORDERED)

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 1001

TARGET	CODE	S	E-MIN	N-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	-1	1	2.800E-00	7	7.051-4	71 3176	64	TOTAL
-1	-1	1	1.300E-00	5	1.850-3	49 53	21	TOTAL
-1	-1	1	3.500E-00	2	4.900-1	46 175	3	TOTAL
-1	-1	1	6.000E-00	2	5.500-1	55 210	5	TOTAL
-1	-1	1	2.200E-00	1	4.050+0	50 311	10	TOTAL
-1	-1	1	4.925E-00	1	3.205+0	63 280	2	TOTAL
-1	-1	1	5.011E-01	1	2.463+1	71 3163	425	TOTAL
-1	-1	1	5.265E-00	1	5.260-1	71 3248	1	TOTAL
-1	-1	1	7.011E-04	1	3.199+1	69 3329	1056	TOTAL
-1	-1	1	7.200E-00	1	6.000+0	46 174	7	TOTAL
-1	-1	1	7.980E-00	1	1.578+0	49 183	4	TOTAL
-1	-1	1	8.410E-00	1	5.858+0	69 3332	10	TOTAL
-1	-1	1	9.000E-00	1	9.000-1	41 170	1	TOTAL
-1	-1	1	1.000E-00	0	1.000+0	50 185	1	TOTAL
-1	-1	1	1.005E-00	0	2.540+0	54 186	1	TOTAL
-1	-1	1	1.315E-00	0	1.315+0	54 112	2	TOTAL
-1	-1	1	1.441E-07	0	1.497+1	69 2941	1	TOTAL
-1	-1	1	1.500E-00	0	2.752+1	71 3166	1652	TOTAL
-1	-1	1	2.300E-00	0	1.469+1	67 750	27	TOTAL
-1	-1	1	2.532E-00	0	2.532+0	53 208	238	TOTAL
-1	-1	1	2.532E-03	0	2.532+0	71 3187	1	TOTAL
-1	-1	1	2.770E-00	0	2.770+0	65 1662	1	TOTAL
-1	-1	1	2.800E-00	0	2.880+0	38 42	1	TOTAL
-1	-1	1	2.950E-00	0	1.318+1	54 504	39	TOTAL
-1	-1	1	3.100E-00	0	3.100+0	50 205	1	TOTAL
-1	-1	1	4.749E-00	0	4.749+0	53 87	1	TOTAL
-1	-1	1	6.500E-00	0	6.500+0	47 181	1	TOTAL
-1	-1	1	7.170E-00	0	1.402+1	57 22	6	TOTAL
-1	-1	1	1.390E-00	1	1.390+1	51 65	1	TOTAL
-1	-1	1	1.400E-00	1	1.400+1	52 207	1	TOTAL
-1	-1	1	1.466E-08	1	1.408+1	51 206	1	TOTAL
-1	-1	1	1.410E-00	1	1.410+1	52 78	1	TOTAL
-1	-1	1	1.410E-00	1	1.410+1	53 464	1	TOTAL
-1	-1	1	1.410E-00	1	1.410+1	59 532	1	TOTAL
-1	-1	1	1.410E-00	1	1.410+1	70 3056	1	TOTAL
-1	-1	1	1.590E-00	1	1.800+1	54 107	8	TOTAL
-1	-1	1	1.780E-00	1	1.150+2	61 789	58	TOTAL
-1	-1	1	1.987E-07	1	2.900+1	60 673	5	TOTAL
-1	-1	1	1.955E-08	1	2.795+1	66 1575	3	TOTAL
-1	-1	1	1.967E-07	1	3.046+1	65 927	5	TOTAL
-1	-1	1	1.993E-03	1	1.567+1	59 835	1	TOTAL
-1	-1	1	2.463E-03	1	1.933+1	53 274	1	TOTAL
-1	-1	1	2.540E-00	1	5.935+1	70 3151	8	TOTAL
-1	-1	1	3.800E-00	1	2.540+1	45 307	1	TOTAL
-1	-1	1	4.200E-00	1	1.530+2	53 355	5	TOTAL
-1	-1	1	8.800E-00	1	4.200+1	50 281	1	TOTAL
-1	-1	1	8.820E-00	1	8.800+1	54 343	1	TOTAL
-1	-1	1	9.000E-00	1	1.509+2	66 1055	7	TOTAL
-1	-1	1	9.3+0-00	1	9.000+1	49 285	1	TOTAL
-1	-1	1	9.500E-00	1	1.068+2	55 282	4	TOTAL
-1	-1	1	1.000E-00	2	9.500+1	50 12	1	TOTAL
					1.260+3	65 1597	30	TOTAL

TARGET CODE S E-MIN N-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1- 1 ***

ZA = 1001

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 1001

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	H-1	1	2.000	2.000*	2	62 1601	1 TOTAL
N	H-1	1	7.250	3.400*	3	73 3630	26 TOTAL
N	H-1	1	1.400	1.400*	3	55 2056	1 TOTAL
N	H-1	1	2.600	3.300*	3	65 1596	5 TOTAL
N	H-1	1	4.000	5.700*	3	69 3160	2 TOTAL
N	H-1	1	5.000	3.500*	3	61 1565	1 TOTAL
N	H-1	1	8.300	8.300*	3	62 1600	1 TOTAL
N	H-1	1	1.200	4.2650*	4	71 3180	4 TOTAL
N	H-1	1	1.460	4.2700*	4	68 1948	4 TOTAL
N	H-1	1	3.400	4.2730*	5	74 3820	7 TOTAL
N	H-1	1	2.257	5.400*	7	66 1573	393 TOTAL
N	H-1	2	3.750*	1.200*	2	63 1563	12 ELASTIC
N	H-1	5	6.110	5.6110-	5	65 786	1 TOTAL SCATTERING
N	H-1	21	2.530	2.530-	8	42 2787	1 ABSORPTION
N	H-1	21	2.530	2.530-	8	53 2784	1 ABSORPTION
N	H-1	21	2.530	2.530-	8	33 2785	1 ABSORPTION
N	H-1	21	2.530	2.530-	8	53 2786	1 ABSORPTION
N	H-1	21	2.530	2.530-	8	54 2730	1 ABSORPTION
N	H-1	21	2.530	2.530-	8	54 2783	1 ABSORPTION
N	H-1	21	2.530	2.530-	8	55 2940	1 ABSORPTION
N	H-1	21	2.530	2.530-	8	56 2930	1 ABSORPTION
N	H-1	21	2.530	2.530-	8	56 2931	1 ABSORPTION
N	H-1	21	2.530	2.530-	8	58 2782	1 ABSORPTION
N	H-1	21	2.530	2.530-	8	59 2792	2 ABSORPTION
N	H-1	21	2.530	2.530-	8	60 891	1 ABSORPTION
N	H-1	21	2.530	2.530-	8	65 1565	1 ABSORPTION
N	H-1	23	2.530	2.530-	8	62 3275	1 N.GAMMA
N	H-1	23	2.530	2.530-	8	61 3276	1 N.GAMMA
N	H-1	23	2.530	2.530-	8	65 3223	1 N.GAMMA
N	H-1	23	2.530	2.530-	8	69 3277	1 N.GAMMA
N	H-1	23	1.440*	1.440*	1	61 687	1 N.GAMMA
N	H-1	22	1.440*	1.440*	1	67 1574	1 N.GAMMA
N	H-1	23	1.440*	1.440*	1	64 3286	1 N.GAMMA
N	H-1	23	5.000*	5.000*	1	61 853	1 N.GAMMA
N	H-1	23	2.530	2.530-	8	62 3275	1 N.GAMMA
N	H-1	41	7.300	7.300-	8	51 1584	1 BOUND ATOM
N	H-1	42	0.000*	0.000*	0	71 3176	1 FREE ATOM
N	H-1	42	2.530	2.530-	8	67 2364	1 FREE ATOM
N	H-1	42	3.390	3.390-	5	65 786	1 COHERENT SCATTERING
N	H-1	43	2.530	2.530-	8	47 2798	1 COHERENT SCATTERING
N	H-1	43	2.530	2.530-	8	51 2790	1 COHERENT SCATTERING
N	H-1	43	2.530	2.530-	8	53 2789	1 COHERENT SCATTERING
N	H-1	43	2.530	2.530-	8	55 2826	1 COHERENT SCATTERING
N	H-1	43	2.530	2.530-	8	62 2788	1 COHERENT SCATTERING
N	H-1	43	7.300	7.300-	8	51 1584	1 INCOHERENT SCATTER.
N	H-1	44	2.500	2.500-	8	51 2791	1 ABSORPTION
N	H-1	71	2.500	2.500-	8	7 2579	1 ABSORPTION
N	H-1	71	2.500	2.500-	8	63 1564	1 N.GAMMA
N	H-1	73	2.530	2.530-	8	68 3364	1 N.GAMMA
N	H-1	73	2.530	2.530-	8	70 2415	1 N.GAMMA

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION

ZA = 1001

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TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION	SPECTRUM AVERAGED CROSS SECTION
1-H-1	74	2.530-8	2.530-8	70 2415	1	N X GAMMA	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	3.100+0	3.100+0	50 205	3	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.370+1	2.840+1	53 1587	19	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.410+1	1.410+1	53 464	8	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.410+1	1.410+1	55 471	6	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.410+1	1.410+1	50 584	4	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.410+1	1.410+1	72 3056	8	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.420+1	1.420+1	67 1576	15	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.440+1	1.440+1	67 2860	11	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.458+1	1.458+1	61 1911	25	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.790+1	1.790+1	55 482	11	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	2.250+1	2.250+1	62 1567	12	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	2.400+1	1.200+2	63 1563	20	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	2.400+1	2.400+1	69 2679	4	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	2.400+1	2.720+1	73 3347	9	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	2.403+1	2.720+1	72 3346	3	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	2.720+1	2.720+1	51 1585	5	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	4.200+1	9.000+1	49 1568	32	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	5.000+1	9.000+1	73 3456	20	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	6.000+1	6.000+1	40 1585	10	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	9.000+1	9.000+1	50 1593	8	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	9.000+1	9.000+1	51 1583	9	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	9.000+1	9.000+1	54 1589	4	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	9.000+1	9.000+1	57 1579	18	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	9.100+1	9.100+1	54 1569	25	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	9.300+1	9.300+1	53 1588	6	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	9.600+1	1.370+2	58 1578	16	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.050+2	1.260+2	55 1592	14	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.260+2	1.260+2	60 1580	10	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.260+2	1.500+2	66 1581	31	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.300+2	1.300+2	56 1577	14	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.526+2	1.520+2	71 3177	13	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.550+2	1.550+2	52 1593	19	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.720+2	2.150+2	52 1586	20	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	1.820+2	1.028+3	69 3524	373	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	2.000+2	2.000+2	62 1601	21	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	2.000+2	2.000+2	50 1582	15	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	2.900+2	2.900+2	54 1594	3	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	3.000+2	3.000+2	55 1591	17	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	3.800+2	3.800+2	54 1572	14	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	4.000+2	4.000+2	54 1590	23	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	5.800+2	5.800+2	56 1570	15	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	5.800+2	5.800+2	59 1571	4	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	5.900+2	5.900+2	58 1598	73	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	6.300+2	6.300+2	59 1539	20	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	102	6.500+3	2.650+4	71 3475	73	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	80	1.410+1	1.410+1	65 1849	8	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-1	80	1.990+2	1.990+2	68 3009	5	ELASTIC	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-2	1	2.240+2	2.240+2	72 3595	446	TOTAL	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-2	1	1.000+1	2.000+1	55 214	3	TOTAL	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-2	1	1.000+1	1.320+0	53 795	14	TOTAL	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION
1-H-2	1	2.600+1	3.600+0	50 311	14	TOTAL	ANGULAR DISTRIBUTION	ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 1002

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
I-H	-2	1	2.620-	1 2.962+ 0	53 290	9	TOTAL
	-2	1	2.670-	1 2.195+ 1	55 120	29	TOTAL
	-2	1	3.500-	1 6.000+ 0	46 176	15	TOTAL
	-2	1	5.010-	1 2.991+ 1	71 3163	432	TOTAL
	-2	1	1.500+ 0	2.752+ 1	71 3166	27	TOTAL
	-2	1	2.258+ 0	1.499+ 1	67 750	242	TOTAL
	-2	1	2.790+ 0	3.570+ 0	64 791	31	TOTAL
	-2	1	4.500+ 0	5.500+ 0	51 285	2	TOTAL
	-2	1	7.170+ 0	1.401+ 1	57 22	5	TOTAL
	-2	1	1.400+ 1	1.400+ 1	52 207	1	TOTAL
	-2	1	1.410+ 1	1.410+ 1	52 78	1	TOTAL
	-2	1	1.410+ 1	1.800+ 1	54 107	8	TOTAL
	-2	1	1.750+ 1	1.125+ 2	65 2015	28	TOTAL
	-2	1	1.750+ 1	1.225+ 2	63 283	28	TOTAL
	-2	1	1.780+ 1	2.900+ 1	60 673	4	TOTAL
	-2	1	2.463+ 1	5.935+ 1	72 3571	8	TOTAL
	-2	1	4.200+ 1	4.200+ 1	50 281	1	TOTAL
	-2	1	8.820+ 1	1.509+ 2	66 1055	7	TOTAL
	-2	1	9.000+ 1	9.000+ 1	49 286	1	TOTAL
	-2	1	9.340+ 1	1.068+ 2	5 282	4	TOTAL
	-2	1	9.480+ 1	1.079+ 2	4 39	4	TOTAL
	-2	1	9.500+ 1	9.500+ 1	50 12	1	TOTAL
N	-2	1	7.250+ 2	3.400+ 3	73 3630	28	TOTAL
	-2	1	4.000+ 3	5.700+ 3	69 3160	2	TOTAL
	-2	1	1.460+ 4	2.700+ 4	68 1948	2	TOTAL
	-2	1	1.800+ 4	1.800+ 4	71 3180	1	TOTAL
N	-2	1	3.400+ 4	2.730+ 5	74 3618	7	TOTAL
	-2	2	2.530- 8	2.530- 8	69 3454	1	ELASTIC
C	-2	2	1.350- 1	9.140- 1	53 89	6	ELASTIC
	-2	2	5.550+ 0	2.300+ 1	69 3245	8	ELASTIC
	-2	2	1.410+ 1	1.410+ 1	53 454	1	ELASTIC
	-2	2	1.410+ 1	1.410+ 1	55 471	1	ELASTIC
N	-2	2	1.410+ 1	1.410+ 1	69 3770	1	ELASTIC
	-2	2	1.410+ 1	1.410+ 1	72 3778	1	ELASTIC
	-2	2	1.430+ 1	1.430+ 1	68 2582	1	ELASTIC
	-2	2	3.600+ 1	4.630+ 1	70 2761	2	ELASTIC
C	-2	2 9	7.240- 8	7.240- 8	51 2794	1	ELASTIC
	-2	3	1.855+ 1	2.300+ 1	69 3245	3	NONELASTIC
	-2	12	4.100+ 0	6.550+ 0	69 1307	8	N,2N
	-2	12	6.110+ 0	1.410+ 1	61 683	6	N,2N
N	-2	12	1.410+ 1	1.410+ 1	58 7	1	N,2N
	-2	12	1.410+ 1	1.410+ 1	66 2586	1	N,2N
	-2	12	1.410+ 1	1.410+ 1	69 3770	1	N,2N
	-2	21	2.530- 8	2.530- 8	69 3912	1	ABSORPTION
C	-2	23	2.530- 8	2.530- 8	52 1624	1	N,GAMMA
	-2	23	2.530- 8	2.530- 8	68 1604	1	N,GAMMA
	-2	23	1.440+ 1	1.440+ 1	61 697	1	N,GAMMA
	-2	41	7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
	-2	43	7.300- 8	2.530- 8	51 2794	1	COHERENT SCATTERING
	-2	43	2.530- 8	2.530- 8	55 2826	1	COHERENT SCATTERING
	-2	43	2.530- 8	2.530- 8	63 2654	1	COHERENT SCATTERING
	-2	43	7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** I - 4 ***

ZA = 1002

07/04/76

ECSL-7600 REACTION INDEX (ZA ORDERED)

ZA = 1002

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	1-H -2	43	9	4.200- 9	4.200- 9	75 3888	3 COHERENT SCATTERING
	1-H -2	44		2.530- 8	2.530- 8	63 2795	1 INCOHERENT SCATTER.
	1-H -2	73		2.500- 8	2.500- 8	63 2659	1 N,GAMMA
	1-H -2	73		2.500- 8	2.500- 8	63 2793	1 N,GAMMA
N	1-H -2	73		2.530- 8	2.530- 8	73 3750	1 N,GAMMA
	1-H -2	102		1.000- 1	2.000- 1	55 214	43 ELASTIC
	1-H -2	102		2.200- 1	2.500- 0	53 290	105 ELASTIC
	1-H -2	102		5.000- 1	1.950- 0	62 1606	15 ELASTIC
	1-H -2	102		1.200- 0	1.420- 1	66 2586	89 ELASTIC
	1-H -2	102		2.450- 0	3.270- 0	57 499	17 ELASTIC
N	1-H -2	102		3.100- 0	3.100- 0	50 3764	2 ELASTIC
	1-H -2	102		4.500- 0	5.500- 0	51 265	13 ELASTIC
C	1-H -2	102		5.550- 0	2.300- 1	69 3245	102 ELASTIC
	1-H -2	102		5.640- 0	9.040- 0	69 1602	56 ELASTIC
	1-H -2	102		1.410- 1	1.410- 1	53 464	26 ELASTIC
	1-H -2	102		1.410- 1	1.410- 1	55 471	8 ELASTIC
N	1-H -2	102		1.410- 1	1.410- 1	69 3770	22 ELASTIC
N	1-H -2	102		1.410- 1	1.410- 1	72 3778	10 ELASTIC
	1-H -2	102		1.430- 1	1.430- 1	68 2582	19 ELASTIC
	1-H -2	102		1.440- 1	1.440- 1	67 2880	11 ELASTIC
	1-H -2	102		1.480- 1	1.480- 1	65 3338	5 ELASTIC
N	1-H -2	102		2.400- 1	2.720- 1	73 3490	15 ELASTIC
	1-H -2	102		3.600- 1	4.630- 1	70 2761	23 ELASTIC
	1-H -2	102		1.520- 2	1.520- 2	72 3265	10 ELASTIC
	1-H -2	112		1.410- 1	1.410- 1	66 2586	12 N,2N
N	1-H -2	112		1.410- 1	1.410- 1	69 3770	11 N,2N
	1-H -2	126		1.410- 1	1.410- 1	61 1603	2 N,P
	1-H -2	123		1.520- 2	1.520- 2	66 1605	2 N,P
	1-H -2	262		1.410- 1	1.410- 1	66 2586	4 N,2N
	1-H -2	312		1.410- 1	1.410- 1	73 3997	4 N,2N
N	1-H -2	312		1.450- 1	1.450- 1	71 3752	677 N,2N
	1-H -2	326		1.410- 1	1.410- 1	61 1603	92 N,P
	1-H -2	362		1.410- 1	1.410- 1	66 2586	1 N,2N
	1-H -2	504		1.480- 1	1.480- 1	65 3338	36 NEUTRON EMISSION
	1-H -3	1		2.530- 1	2.000- 1	59 532	23 TOTAL
	1-H -3	1		2.500- 0	1.400- 1	57 491	2 TOTAL
	1-H -3	2		1.000- 0	6.000- 0	50 555	4 ELASTIC
C	1-H -3	2		6.000- 0	2.300- 1	69 3245	6 ELASTIC
C	1-H -3	3		1.800- 1	2.300- 1	69 3245	4 NONELASTIC
	1-H -3	12		1.406- 1	1.406- 1	2 69 2519	1 N,2N
	1-H -3	13		1.406- 1	1.406- 1	2 69 2519	1 N,3N
	1-H -3	102		1.000- 0	6.000- 0	58 555	52 ELASTIC
C	1-H -3	102		6.000- 0	2.300- 1	69 3245	65 ELASTIC
	1-H -3	102		1.400- 1	1.800- 1	67 2744	17 ELASTIC
N	1-H -3	102		1.410- 1	1.410- 1	68 2336	7 ELASTIC
	1-H -3	102		1.430- 1	1.430- 1	51 568	8 ELASTIC
	1-H -3	102		1.440- 1	1.440- 1	67 2880	22 ELASTIC
	1-H -3	102		1.458- 1	1.458- 1	61 1911	28 ELASTIC
H2 GAS		1		3.250- 9	5.500- 6	49 53	42 TOTAL
H2O		1		1.200-10	3.600- 8	61 780	15 TOTAL
H2O		1		6.400-10	9.050- 9	53 1607	29 TOTAL
C	H2O	1		1.310- 9	1.833- 5	60 792	107 TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 1318

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 1318

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
H20	1		3.320-9	5.266-6	49 53	40	TOTAL
H20	1		3.540-9	1.397-5	66 854	133	TOTAL
H20	1		1.011-8	1.538-5	67 1884	243	TOTAL
H20	1		1.200-8	5.300-7	61 779	29	TOTAL
H20	1		4.222-7	1.715-3	64 793	47	TOTAL
H20	1		1.440-6	1.440-6	65 949	1	TOTAL
H20	1		3.500-1	6.000+0	46 176	15	TOTAL
H20	1		9.500+1	9.500+1	50 12	2	TOTAL
H20	1	9	1.011-6	1.538-5	67 1884	243	TOTAL
C	H20	42	2.500-8	2.500-8	66 854	1	FREE ATOM
H20	105		6.300-9	2.200-6	68 1947	993	TOTAL SCATTERING
C	H20		0.000+0	0.000+0	69 2508	3517	THERMAL SCATTERING LAW S(ALPHA,BETA)
D20	1		3.498-10	4.566-9	53 794	36	TOTAL
D20	1		1.100-8	8.000-6	64 173	37	TOTAL
D20	1		1.440-6	1.440-6	65 949	1	TOTAL
D20	1		5.550-6	1.980-3	59 778	96	TOTAL
D20	1		3.500-1	6.000+0	46 176	15	TOTAL
D20	1		9.500+1	9.500+1	50 12	1	TOTAL
N	D20	1	5.012-10	1.259-5	74 4001	80	TOTAL
D20	1	9	1.005-8	9.405-6	71 3337	984	TOTAL
C	D20	5	5.450-10	5.520-10	69 2508	3	TOTAL SCATTERING
D20	21		2.530-8	2.530-8	47 2928	1	ABSORPTION
N	D20	21	2.530-8	2.530-8	69 3932	1	ABSORPTION
C	D20		0.000+0	0.000+0	69 2508	2567	THERMAL SCATTERING LAW S(ALPHA,BETA)
2-HE-NAT	1		2.100-9	2.510-8	63 777	24	TOTAL
2-HE-NAT	1		1.871-7	6.195-6	69 2998	11	TOTAL
2-HE-NAT	1		1.220-1	6.227+0	60 570	105	TOTAL
2-HE-NAT	1		7.015-1	2.962+1	72 3237	482	TOTAL
2-HE-NAT	1		9.400-1	2.007+1	59 532	20	TOTAL
2-HE-NAT	1		6.990+0	1.201+1	62 694	4	TOTAL
2-HE-NAT	1		1.797+1	2.007+1	53 274	3	TOTAL
2-HE-NAT	1		2.000+1	2.900+1	64 796	28	TOTAL
2-HE-NAT	1		4.750+1	8.800+1	54 343	2	TOTAL
2-HE-NAT	1		7.720+1	1.509+2	66 1056	5	TOTAL
2-HE-NAT	1		5.700+3	5.700+3	69 3180	1	TOTAL
2-HE-NAT	1	9	2.830-10	9.100-9	55 1611	73	TOTAL
2-HE-NAT	2		2.020-1	7.013+0	68 2372	22	ELASTIC
2-HE-NAT	2		1.760+1	2.370+1	71 3270	3	ELASTIC
2-HE-NAT	2		6.000+1	1.380+2	60 1609	3	ELASTIC
2-HE-NAT	2		2.530-8	2.530-8	63 777	1	TOTAL SCATTERING
2-HE-NAT	5		2.530-8	2.530-8	69 2998	1	TOTAL SCATTERING
2-HE-NAT	28		2.209+1	2.230+1	64 796	9	N.D.
2-HE-NAT	51		2.500-8	2.500-8	38 2797	1	TOTAL
2-HE-NAT	91		2.500-8	2.500-6	51 1608	1	BOUND ATOM
2-HE-NAT	102		4.000-1	2.770+0	62 462	214	ELASTIC
2-HE-NAT	102		5.450-1	8.400-1	72 3827	32	ELASTIC
2-HE-NAT	102		1.790+0	1.790+0	63 1615	22	ELASTIC
2-HE-NAT	102		2.020+0	2.090+1	62 694	219	ELASTIC
2-HE-NAT	102		2.610+0	1.430+1	53 466	179	ELASTIC
2-HE-NAT	102		8.020+0	3.071+1	66 1617	416	ELASTIC
2-HE-NAT	102		1.410+1	1.410+1	63 1616	18	ELASTIC
2-HE-NAT	102		1.430+1	1.430+1	55 1610	7	ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 6 ***

ZA = 2000

07/04/76

ECSIL-7600 REACTION INDEX (2A ORDERED)

2A = 2000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
2-HE-NAT	102	1	1.490+	1.490+	1	63 1618	30 ELASTIC ANGULAR DISTRIBUTION
2-HE-NAT	102	1	1.640+	1.370+	1	64 795	368 ELASTIC ANGULAR DISTRIBUTION
2-HE-NAT	102	1	3.000+	1.400+	2	60 1609	24 ELASTIC ANGULAR DISTRIBUTION
2-HE-NAT	102	80	2.020+	7.013+	0	68 2372	974 ELASTIC ANGULAR DISTRIBUTION
2-HE-3	1	1	3.028-	1.104-	5	64 776	22 TOTAL
2-HE-3	1	1	1.400-	3.190-	8	49 775	7 TOTAL
2-HE-3	1	1	1.400-	1.480+	1	54 503	30 TOTAL
2-HE-3	1	1	7.002-	2.994+	1	73 3237	978 TOTAL
2-HE-3	1	1	1.600+	2.140+	1	59 532	10 TOTAL
2-HE-3	2	1	9.500-	1.750+	1	61 578	5 ELASTIC
2-HE-3	2	1	1.000+	6.000+	0	60 555	4 ELASTIC
2-HE-3	2	1	7.900+	0 2.370+	1	74 3537	5 ELASTIC
2-HE-3	12	1	1.406+	1.406+	2	69 2519	1 N,2N
2-HE-3	21	1	2.530-	2.530-	8	64 776	1 ABSORPTION
2-HE-3	23	1	4.000+	4.000+	0	63 839	1 N,GAMMA
2-HE-3	26	1	8.650-	4.197+	0	58 519	45 N,P
2-HE-3	26	1	2.000-	1.200+	0	55 752	9 N,P
2-HE-3	26	1	3.500-	1.000+	0	89 2752	5 N,P
2-HE-3	26	1	3.940-	3.000+	0	50 187	16 N,P
2-HE-3	26	1	4.800-	1.100+	1	59 1612	22 N,P
2-HE-3	26	1	9.500-	8.070+	0	60 578	4 N,P
2-HE-3	26	1	1.440+	1.440+	1	67 1614	1 N,P
2-HE-3	28	1	4.300-	1.400+	1	62 984	8 N,D
2-HE-3	28	1	5.000+	3.070+	0	60 578	2 N,D
2-HE-3	28	1	1.440+	1.440+	1	67 1614	1 N,D
2-HE-3	71	1	2.500-	2.500-	8	49 2796	1 ABSORPTION
2-HE-3	102	1	1.000+	6.000+	0	58 555	52 ELASTIC SPECTRUM AVERAGED CROSS SECTION
2-HE-3	102	1	2.670+	8.070+	0	60 578	66 ELASTIC ANGULAR DISTRIBUTION
2-HE-3	102	1	7.000+	2.370+	1	74 3537	70 ELASTIC ANGULAR DISTRIBUTION
2-HE-3	102	1	1.440+	1.440+	1	66 1613	1 ELASTIC ANGULAR DISTRIBUTION
2-HE-3	102	1	1.440+	1.440+	1	67 1614	8 ELASTIC ANGULAR DISTRIBUTION
2-HE-3	124	1	4.000+	4.000+	0	63 839	1 N,X GAMMA ANGULAR DISTRIBUTION
2-HE-3	126	1	1.440+	1.440+	1	66 1613	1 N,P ANGULAR DISTRIBUTION
2-HE-3	126	1	1.440+	1.440+	1	67 1614	19 N,P ANGULAR DISTRIBUTION
2-HE-3	128	1	1.440+	1.440+	1	66 1613	1 N,D ANGULAR DISTRIBUTION
2-HE-3	128	1	1.440+	1.440+	1	67 1614	12 N,D ANGULAR DISTRIBUTION
2-HE-3	130	1	1.440+	1.440+	1	66 1613	1 N,T ANGULAR DISTRIBUTION
2-HE-4	102	1	1.760+	2.370+	1	71 3271	43 ELAST.C ANGULAR DISTRIBUTION
2-HE-4	1	1	1.150+	1.150+	0	51 2407	1 RESONANCE PARAMETERS
2-HE-4	1	1	1.150+	1.150+	0	52 462	1 RESONANCE PARAMETERS
2-HE-4	1	1	2.215+	2.215+	1	59 2412	2 RESONANCE PARAMETERS
3-LI-NAT	1	1	1.700-	6.000-	5	46 961	35 TOTAL
3-LI-NAT	1	1	1.000-	3.920-	1	84 699	423 TOTAL
3-LI-NAT	1	1	1.000-	1.236+	0	68 3005	691 TOTAL
3-LI-NAT	1	1	2.000-	1.395+	0	50 60	73 TOTAL
3-LI-NAT	1	1	1.040-	7.040-	1	62 720	589 TOTAL
3-LI-NAT	1	1	1.490-	3.720-	1	51 73	29 TOTAL
3-LI-NAT	1	1	1.330+	3.370+	0	51 72	99 TOTAL
3-LI-NAT	1	1	2.272+	1.495+	1	67 750	243 TOTAL
3-LI-NAT	1	1	2.370+	7.840+	0	54 505	18 TOTAL
3-LI-NAT	1	1	2.800+	9.700+	0	54 504	26 TOTAL
3-LI-NAT	1	1	3.250+	4.520+	0	61 755	4 TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 7 ***

2A = 3000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 3000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
3-LI-NAT	1		3.290	0	3.290	0	55 505 1 TOTAL
3-LI-NAT	1		4.170	0	6.060	0	65 1620 40 TOTAL
3-LI-NAT	1		4.320	0	8.730	0	56 141 76 TOTAL
3-LI-NAT	1		1.410	1	1.800	1	54 107 8 TOTAL
3-LI-NAT	1		1.480	1	1.480	1	57 368 1 TOTAL
3-LI-NAT	1		4.200	1	4.200	1	50 281 1 TOTAL
3-LI-NAT	1		9.000	1	9.000	1	49 285 1 TOTAL
3-LI-NAT	2		1.450	0	4.210	0	59 579 2 ELASTIC
3-LI-NAT	5		5.000	2	2.250	0	60 571 41 TOTAL SCATTERING
3-LI-NAT	21		2.530	0	2.530	0	46 951 1 ABSORPTION
3-LI-NAT	21		2.530	0	2.530	0	52 1624 1 ABSORPTION
3-LI-NAT	21		2.530	0	2.530	0	60 891 1 ABSORPTION
3-LI-NAT	34		1.800	1	3.100	1	50 3 5 N,ALPHA
3-LI-NAT	43		7.300	0	7.300	0	51 1584 1 COHERENT SCATTERING
3-LI-NAT	71		2.500	0	2.500	0	47 2926 1 ABSORPTION
3-LI-NAT	71		2.500	0	2.500	0	50 1623 1 ABSORPTION
3-LI-NAT	71		2.500	0	2.500	0	51 882 1 ABSORPTION
3-LI-NAT	71		2.500	0	2.500	0	51 1619 1 ABSORPTION
3-LI-NAT	71		2.500	0	2.500	0	52 1621 1 ABSORPTION
3-LI-NAT	71		2.500	0	2.500	0	52 1624 1 ABSORPTION
3-LI-NAT	71		2.500	0	2.500	0	63 2558 1 ABSORPTION
3-LI-NAT	73	7	2.530	0	2.530	0	70 2415 6 N,GAMMA
3-LI-NAT	74		2.530	0	2.530	0	70 2415 1 N,X GAMMA
3-LI-NAT	102		2.600	1	2.600	1	54 1625 8 ELASTIC
3-LI-NAT	102		3.089	1	7.689	1	63 748 166 ELASTIC
3-LI-NAT	102		1.450	0	4.210	0	59 579 16 ELASTIC
3-LI-NAT	102		4.370	0	4.370	0	71 4022 5 ELASTIC
3-LI-NAT	102		9.600	1	9.600	1	60 1045 6 ELASTIC
3-LI-NAT	102		1.360	2	1.360	2	56 1047 5 ELASTIC
3-LI-NAT	111	7	5.380	1	2.057	1	74 3628 285 N,N'
3-LI-NAT	124	7	1.000	0	1.480	1	63 1728 3 N,X GAMMA
3-LI-NAT	124	80	4.210	0	4.210	0	59 579 8 N,X GAMMA
3-LI-NAT	606	80	1.400	1	1.400	1	63 917 5 NONELASTIC EMISSION
3-LI-6	1		1.000	3	1.000	3	54 6 1 TOTAL
3-LI-6	1		1.050	2	4.500	1	56 522 17 TOTAL
3-LI-6	1		1.000	2	1.360	0	68 3005 704 TOTAL
3-LI-6	1		4.380	2	6.463	1	68 3054 125 TOTAL
3-LI-6	1		1.003	1	1.499	0	72 3154 987 TOTAL
3-LI-6	1		3.910	1	4.155	0	54 114 179 TOTAL
3-LI-6	1		7.003	1	2.982	1	72 3191 507 TOTAL
3-LI-6	1		2.258	0	1.488	1	67 750 237 TOTAL
3-LI-6	1		2.500	0	1.400	1	57 493 2 TOTAL
3-LI-6	1		2.800	0	9.700	0	54 504 26 TOTAL
3-LI-6	1		7.010	1	1.398	1	57 22 5 TOTAL
3-LI-6	1		1.400	1	1.400	1	52 81 1 TOTAL
3-LI-6	1		1.810	1	2.770	1	60 673 4 TOTAL
3-LI-6	2		1.000	0	2.300	0	67 1899 14 ELASTIC
3-LI-6	2		3.350	0	7.540	0	63 841 6 ELASTIC
3-LI-6	2		4.830	0	7.500	0	68 1632 3 ELASTIC
3-LI-6	2		1.400	1	1.400	1	63 2335 1 ELASTIC
3-LI-6	2		1.400	1	1.400	1	65 1627 1 ELASTIC
3-LI-6	2		1.410	1	1.410	1	64 1633 1 ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 8 ***

ZA = 3006

07/04/76

ECSIL-7600 REACTION INDEX (2A ORDERED)

ZA = 3005

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
3-LI-6	3		8.100+	0 1.420+	1 58 592	3	NONELASTIC
3-LI-6	3		1.400+	1 1.400+	1 58 490	1	NONELASTIC
3-LI-6	3		1.400+	1 1.400+	1 63 2335	1	NONELASTIC
3-LI-6	4		1.400+	1 1.400+	1 63 2335	1	NEUTRON EMISSION
3-LI-6	4		1.410+	1 1.410+	1 64 1633	1	NEUTRON EMISSION
3-LI-6	5		5.000-	2 2.250+	0 60 571	34	TOTAL SCATTERING
3-LI-6	11	1	3.350+	0 7.540+	0 63 841	6	N,N'
3-LI-6	11	1	4.830+	0 7.500+	0 68 1632	3	N,N'
3-LI-6	11	1	1.400+	1 1.400+	1 65 1627	1	N,N'
3-LI-6	11	1	4.830+	0 7.500+	0 68 1632	3	N,N'
3-LI-6	12	0	1.020+	1 1.020+	1 60 593	1	N,2N
3-LI-6	12		1.400+	1 1.400+	1 61 2375	1	N,2N
3-LI-6	12		1.400+	1 1.400+	1 63 2335	1	N,2N
3-LI-6	12		1.406+	1 1.406+	1 2 69 2519	1	N,2N
3-LI-6	12		1.410+	1 1.410+	1 58 594	1	N,2N
3-LI-6	12		1.410+	1 1.410+	1 61 487	1	N,2N
3-LI-6	15		3.350+	0 7.540+	0 63 841	6	N,N'D
3-LI-6	15		4.400+	0 1.400+	1 56 589	11	N,N'D
3-LI-6	15		4.830+	0 7.500+	0 68 1632	3	N,N'D
3-LI-6	15		1.410+	1 1.410+	1 61 487	1	N,N'D
3-LI-6	21		2.530-	0 2.530-	0 70 3218	1	ABSORPTION
3-LI-6	26		3.500+	0 1.480+	1 63 842	7	N,P
3-LI-6	26		3.500+	0 9.000+	0 65 1629	34	N,F
3-LI-6	26		1.410+	1 1.410+	1 53 86	1	N,P
3-LI-6	26		1.410+	1 1.410+	1 54 104	1	N,P
3-LI-6	26		1.410+	1 1.410+	1 61 487	1	N,P
3-LI-6	26	1	1.400+	1 1.400+	1 72 3927	2	N,P
3-LI-6	30		1.038-	3 3.270-	1 74 3801	159	N,T
3-LI-6	30		2.433-	3 1.711+	0 74 3259	152	N,T
3-LI-6	30		9.000-	3 3.420-	1 59 525	29	N,T
3-LI-6	30		9.100-	3 7.300-	1 56 1626	24	N,T
3-LI-6	30		1.400-	2 1.700+	0 72 3803	117	N,T
3-LI-6	30		2.500-	2 1.000-	1 66 1631	3	N,T
3-LI-6	30		6.500-	2 3.450-	1 76 3956	28	N,T
3-LI-6	30		9.100-	2 1.500+	0 74 3451	67	N,T
3-LI-6	30		1.560-	1 3.900+	0 72 3791	68	N,T
3-LI-6	30		2.700-	1 2.700-	1 59 1626	1	N,T
3-LI-6	30		1.500+	0 2.000+	0 54 109	2	N,T
3-LI-6	30		2.160+	0 9.660+	0 75 3597	24	N,T
3-LI-6	30		2.490+	0 1.420+	1 52 1637	2	N,T
3-LI-6	30		2.500+	0 1.410+	1 60 586	2	N,T
3-LI-6	30		2.700+	0 1.440+	1 67 2691	2	N,T
3-LI-6	30		1.250+	1 1.025+	1 58 495	35	N,T
3-LI-6	34		1.410+	1 1.410+	1 61 487	1	N,T
3-LI-6	34		2.900-	3 5.680-	1 65 1634	83	N,ALPHA
3-LI-6	34		1.070-	2 1.020-	1 67 1020	7	N,ALPHA
3-LI-6	34		1.000-	1 1.000-	1 64 3333	1	N,ALPHA
3-LI-6	34		8.800-	1 1.410+	1 56 147	8	N,ALPHA
3-LI-6	34		1.200+	0 7.960+	0 59 506	31	N,ALPHA
3-LI-6	34		1.500+	0 1.500+	0 54 109	1	N,ALPHA
3-LI-6	34		2.010+	0 2.680+	0 53 741	47	N,ALPHA
3-LI-6	34		2.150+	0 2.150+	0 60 832	1	N,ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 9 ***

ZA = 3006

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
3-LI-6	34		2.500+ 0	2.500+ 0	57 492	1	N, ALPHA
3-LI-6	43		2.530- 8	2.530- 8	62 2801	1	COHERENT SCATTERING
3-LI-6	73		2.500- 8	2.500- 8	57 2800	1	N, GAMMA
3-LI-6	73		2.500- 8	2.500- 8	61 2799	1	N, GAMMA
3-LI-6	84		2.300- 1	2.300- 1	65 1125	1	N, ALPHA
3-LI-6	102		4.900- 2	2.250+ 0	60 571	264	ELASTIC
3-LI-6	102		2.120- 1	3.000- 1	56 484	24	ELASTIC
3-LI-6	102		1.000+ 0	2.300+ 0	67 1899	266	ELASTIC
3-LI-6	102		3.350+ 0	7.540+ 0	63 841	41	ELASTIC
3-LI-6	102		4.650+ 0	7.500+ 0	68 1632	20	ELASTIC
3-LI-6	102		1.400+ 1	1.400+ 1	62 1622	14	ELASTIC
3-LI-6	102		1.400+ 1	1.400+ 1	65 1627	16	ELASTIC
3-LI-6	102		1.410+ 1	1.410+ 1	64 1633	17	ELASTIC
3-LI-6	102		1.410+ 1	1.410+ 1	71 3734	16	ELASTIC
N	3-LI-6	111	1 3.350+ 0	7.540+ 0	53 841	43	N, N'
N	3-LI-6	111	1 4.370+ 0	4.370+ 0	71 4022	5	N, N'
N	3-LI-6	111	1 4.830+ 0	7.500+ 0	68 1632	20	N, N'
N	3-LI-6	111	1 1.400+ 1	1.400+ 1	62 1622	8	N, N'
N	3-LI-6	111	1 1.400+ 1	1.400+ 1	65 1627	12	N, N'
N	3-LI-6	111	1 1.410+ 1	1.410+ 1	71 3734	15	N, N'
N	3-LI-6	126	1 1.400+ 1	1.400+ 1	54 104	18	N, P
N	3-LI-6	126	1 1.400+ 1	1.400+ 1	72 3927	16	N, P
N	3-LI-6	128	1 1.400+ 1	1.400+ 1	54 104	21	N, D
N	3-LI-6	128	1 1.440+ 1	1.440+ 1	85 1836	8	N, D
N	3-LI-6	130	8.000- 2	8.000- 2	65 1635	9	N, T
N	3-LI-6	130	1.000- 1	1.900+ 0	73 3491	416	N, T
N	3-LI-6	130	1.500- 1	5.650- 1	59 525	42	N, T
N	3-LI-6	130	1.900- 1	1.900- 1	63 1630	5	N, T
N	3-LI-6	130	2.000- 1	6.000- 1	53 1638	48	N, T
N	3-LI-6	130	2.500- 1	6.000- 1	62 3720	27	N, T
N	3-LI-6	130	1.100+ 0	2.000+ 0	54 109	54	N, T
N	3-LI-6	130	2.150+ 0	2.150+ 0	60 832	9	N, T
N	3-LI-6	130	2.700+ 0	1.440+ 1	67 2691	27	N, T
N	3-LI-6	130	1.400+ 1	1.400+ 1	54 104	21	N, T
N	3-LI-6	130	1.440+ 1	1.440+ 1	67 2690	8	N, T
N	3-LI-6	204	1.410+ 1	1.410+ 1	63 1633	30	NEUTRON EMISSION
N	3-LI-6	224	2.530- 8	2.530- 8	67 1898	2	N, X GAMMA
N	3-LI-6	480	2.500- 1	6.000- 1	62 3720	8	N, T
N	3-LI-6	615	4.000+ 0	7.540+ 0	63 841	33	N, N'D
N	3-LI-6	880	1.033- 3	1.711+ 0	74 3259	179	N, T
N	3-LI-6	884	1.000- 5	7.400- 2	70 3934	86	N, ALPHA
N	3-LI-6		2.310- 1	2.310- 1	65 1634	2	RESONANCE PARAMETERS
N	3-LI-6		2.506- 1	2.506- 1	68 3054	3	RESONANCE PARAMETERS
N	3-LI-6		2.550- 1	2.550- 1	54 114	4	RESONANCE PARAMETERS
N	3-LI-6		2.550- 1	2.550- 1	56 484	4	RESONANCE PARAMETERS
N	3-LI-6		2.580- 1	2.580- 1	75 3139	2	RESONANCE PARAMETERS
C	3-LI-7	1	1.000- 3	3.400- 1	54 1002	118	TOTAL
C	3-LI-7	1	2.800- 3	2.800- 3	52 221	1	TOTAL
C	3-LI-7	1	1.000- 2	4.500- 1	56 522	17	TOTAL
C	3-LI-7	1	1.000- 2	1.226+ 0	68 3005	696	TOTAL
C	3-LI-7	1	1.007- 1	1.498+ 0	70 3153	940	TOTAL
C	3-LI-7	1	2.570- 1	2.570- 1	54 225	1	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1- 10 ***

ZA = 3007

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA * 3007

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
3-LI-7	1		7.008-	1 2.994+	71 3191	501	TOTAL
3-LI-7	1		2.265+ 0	1.494+	67 750	236	TOTAL
3-LI-7	1		2.500+ 0	1.400+	57 493	2	TOTAL
3-LI-7	1		7.010+ 0	1.399+	57 22	5	TOTAL
3-LI-7	1		1.400+	1.400+	52 81	1	TOTAL
3-LI-7	1		1.810+	1 2.773+	60 673	4	TOTAL
3-LI-7	2		1.120+ 0	2.300+ 0	68 2592	9	ELASTIC
3-LI-7	2		1.500+ 0	4.000+ 0	63 841	3	ELASTIC
3-LI-7	2		3.350+ 0	4.830+ 0	68 1632	2	ELASTIC
3-LI-7	2		1.400+	1.400+	61 2335	1	ELASTIC
3-LI-7	2		1.400+	1.400+	66 1640	1	ELASTIC
3-LI-7	2		1.410+	1.410+	64 1633	1	ELASTIC
3-LI-7	3		8.100+ 0	1.429+	58 592	3	NONELASTIC
3-LI-7	3		1.400+	1.400+	58 490	1	NONELASTIC
3-LI-7	4		1.670+	1 2.070+	25 1222	3	NONELASTIC
3-LI-7	4		1.400+	1.400+	63 2735	1	NEUTRON EMISSION
3-LI-7	4		1.410+	1.410+	64 1633	1	NEUTRON EMISSION
3-LI-7	4		5.150+ 0	7.540+ 0	63 841	3	NEUTRON EMISSION
3-LI-7	11		1.400+	1.400+	65 1639	1	TOTAL SCATTERING
3-LI-7	11		1.410+	1.410+	61 487	1	N.N'
3-LI-7	11		5.400+	1.650+ 0	55 40	35	N.N'
3-LI-7	11		1.120+ 0	2.300+ 0	68 2592	8	N.N'
3-LI-7	11		1.200+ 0	1.200+ 0	63 828	1	N.N'
3-LI-7	11		1.300+ 0	7.540+ 0	63 841	10	N.N'
3-LI-7	11		3.350+ 0	7.500+ 0	68 1632	6	N.N'
3-LI-7	11		1.400+	1.400+	65 1639	1	N.N'
3-LI-7	11		1.400+	1.400+	66 1640	1	N.N'
3-LI-7	11		1.357+	1.474+	60 595	11	N.N'
3-LI-7	11	8	4.830+ 0	7.500+ 0	68 1632	3	N.N'
3-LI-7	12		1.020+	1.020+	60 593	1	N.2N
3-LI-7	12		1.400+	1.400+	61 2375	1	N.2N
3-LI-7	12		1.406+	1.406+	2 69 2519	1	N.2N
3-LI-7	12		1.410+	1.410+	58 594	1	N.2N
3-LI-7	13		1.406+	1.406+	2 69 2519	1	N.2N
3-LI-7	16		3.750+ 0	1.485+	63 838	1	N.3N
3-LI-7	16		4.000+ 0	7.540+ 0	63 841	6	N.NIT
3-LI-7	16		4.000+ 0	1.480+	58 1841	7	N.NIT
3-LI-7	16		4.930+ 0	7.500+ 0	68 1632	7	N.NIT
3-LI-7	16		5.100+ 0	1.400+	56 589	3	N.NIT
3-LI-7	16		1.400+	1.400+	61 2386	10	N.NIT
3-LI-7	16		1.410+	1.410+	61 487	1	N.NIT
3-LI-7	23		2.530+ 0	2.530+ 0	47 2003	1	N.NIT
3-LI-7	23		2.530- 8	2.530- 8	59 354	1	N. GAMMA
3-LI-7	23		3.700- 2	9.950- 1	59 354	14	N. GAMMA
3-LI-7	28		1.410+	1.410+	53 86	1	N.D
3-LI-7	28		1.400+	1.400+	61 487	1	N.D
3-LI-7	30		1.410+	1.480+	63 842	1	N.D
3-LI-7	34		1.470+	1.410+	61 487	1	N.Y
3-LI-7	41		7.300- 8	1.470+	66 3304	1	N.ALPHA
3-LI-7	43		2.530- 8	7.300- 8	51 1584	1	BOUND ATOM
3-LI-7	43		2.530- 8	2.530- 8	61 2673	1	COHERENT SCATTERING
3-LI-7	43		7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING

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ZA * 3007

07/04/76

12-7600 REACTION INDEX (2A ORDERED)

2A = 3007

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	PO. NTS	REACTION DESCRIPTION
3-LI-7	73		2.500- 8	2.500- 8	56 2802	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
3-LI-7	73		2.500- 8	2.500- 8	61 2799	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
3-LI-7	102		5.000- 2	2.250+ 0	60 571	272	ELASTIC ANGULAR DISTRIBUTION
3-LI-7	102		2.000- 1	6.000- 1	56 484	21	ELASTIC ANGULAR DISTRIBUTION
3-LI-7	102		1.500+ 0	7.540+ 0	63 841	52	ELASTIC ANGULAR DISTRIBUTION
3-LI-7	102		3.350+ 0	4.830+ 0	68 1632	12	ELASTIC ANGULAR DISTRIBUTION
3-LI-7	102		1.400+ 1	1.400+ 1	62 1622	1	ELASTIC ANGULAR DISTRIBUTION
3-LI-7	102		1.400+ 1	1.400+ 1	66 1640	20	ELASTIC ANGULAR DISTRIBUTION
3-LI-7	105		1.400+ 1	1.400+ 1	65 1639	13	TOTAL SCATTERING ANGULAR DISTRIBUTION
N 3-LI-7	105		1.410+ 1	1.410+ 1	71 3734	14	TOTAL SCATTERING ANGULAR DISTRIBUTION
3-LI-7	105	1	1.400+ 1	1.400+ 1	62 1622	10	TOTAL SCATTERING ANGULAR DISTRIBUTION
3-LI-7	105	1	1.410+ 1	1.410+ 1	63 1633	16	TOTAL SCATTERING ANGULAR DISTRIBUTION
3-LI-7	105	8	1.400+ 1	1.400+ 1	62 1622	15	TOTAL SCATTERING ANGULAR DISTRIBUTION
3-LI-7	105	8	1.400+ 1	1.400+ 1	65 1639	13	TOTAL SCATTERING ANGULAR DISTRIBUTION
3-LI-7	111		1.500+ 0	7.540+ 0	63 841	24	N, N' ANGULAR DISTRIBUTION
3-LI-7	111		3.350+ 0	7.500+ 0	68 1632	21	N, N' ANGULAR DISTRIBUTION
3-LI-7	111		1.400+ 1	1.400+ 1	65 1639	13	N, N' ANGULAR DISTRIBUTION
3-LI-7	111		1.400+ 1	1.400+ 1	66 1640	20	N, N' ANGULAR DISTRIBUTION
N 3-LI-7	111		1.410+ 1	1.410+ 1	71 3734	14	N, N' ANGULAR DISTRIBUTION
N 3-LI-7	126		1.480+ 1	1.480+ 1	73 3441	2	N, P ANGULAR DISTRIBUTION
N 3-LI-7	128		1.440+ 1	1.440+ 1	67 2690	1	N, D ANGULAR DISTRIBUTION
3-LI-7	128		1.440+ 1	1.440+ 1	70 3298	8	N, D ANGULAR DISTRIBUTION
N 3-LI-7	128	1	1.480+ 1	1.480+ 1	73 3441	5	N, D ANGULAR DISTRIBUTION
3-LI-7	130		1.400+ 1	1.410+ 1	54 104	13	N, T ANGULAR DISTRIBUTION
3-LI-7	131	1	1.440+ 1	1.410+ 1	70 3298	7	N, X, T ANGULAR DISTRIBUTION
3-LI-7	204		1.410+ 1	1.410+ 1	63 1633	31	NEUTRON EMISSION ENERGY DISTRIBUTION
3-LI-7	E1-E2		5.150+ 0	7.540+ 0	63 841	23	N, N' T ANGULAR DIST.-INTEGRAL E1-E2
3-LI-7			2.500- 1	2.500- 1	59 354	1	RESONANCE PARAMETERS
3-LI-7			2.540- 1	2.540- 1	71 3130	1	RESONANCE PARAMETERS
3-LI-7			2.560- 1	2.560- 1	56 484	3	RESONANCE PARAMETERS
N 3-LI-7			2.560- 1	2.560- 1	51 73	3	RESONANCE PARAMETERS
3-LI-7			2.570- 1	2.570- 1	54 225	3	RESONANCE PARAMETERS
3-LI-7			2.610- 1	2.610- 1	70 3153	1	RESONANCE PARAMETERS
3-LI-7			2.700- 1	2.700- 1	50 60	3	RESONANCE PARAMETERS
N 4-BE-9	1		4.521- 9	1.161- 5	71 4053	501	TOTAL
N 4-BE-9	1		4.521- 9	1.161- 5	72 4053	504	TOTAL
4-BE-9	1		6.200- 9	1.870- 7	47 3099	47	TOTAL
4-BE-9	1		1.600- 8	3.800- 7	62 851	23	TOTAL
4-BE-9	1		2.240- 7	9.070- 6	58 3100	11	TOTAL
4-BE-9	1		1.500- 6	3.650- 3	52 803	28	TOTAL
4-BE-9	1		1.150- 4	3.000- 4	49 844	2	TOTAL
4-BE-9	1		1.150- 3	6.450- 2	54 1042	59	TOTAL
4-BE-9	1		2.000- 2	2.400- 1	49 49	20	TOTAL
N 4-BE-9	1		2.350- 2	2.350- 2	75 3897	1	TOTAL
4-BE-9	1		5.300- 2	8.510- 1	62 720	798	TOTAL
N 4-BE-9	1		7.000- 2	5.550+ 0	66 4017	14	TOTAL
4-BE-9	1		1.200- 1	1.090+ 0	50 234	20	TOTAL
N 4-BE-9	1		1.220- 1	1.200+ 0	71 3795	275	TOTAL
4-BE-9	1		1.870- 1	2.120- 1	62 772	11	TOTAL
4-BE-9	1		2.250- 1	1.443+ 0	50 63	63	TOTAL
4-BE-9	1		4.964- 1	1.992+ 1	71 3162	3450	TOTAL
4-BE-9	1		5.055- 1	8.500- 1	64 92	58	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 12 ***

2A = 4009

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 4009

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
4-BE-9	1		9.000- 1	9.000- 1	41 170	1	TOTAL
4-BE-9	1		1.370+ 0	3.350+ 0	51 72	117	TOTAL
4-BE-9	1		1.911+ 0	4.555+ 0	59 1642	182	TOTAL
4-BE-9	1		2.000+ 0	5.960+ 0	51 336	18	TOTAL
4-BE-9	1		2.259+ 0	1.480+ 1	67 750	254	TOTAL
4-BE-9	1		2.480+ 0	4.100+ 0	60 1645	7	TOTAL
4-BE-9	1		2.600+ 0	1.392+ 1	54 504	33	TOTAL
4-BE-9	1		2.700+ 0	2.700+ 0	67 1527	1	TOTAL
4-BE-9	1		3.380+ 0	1.592+ 1	61 682	171	TOTAL
4-BE-9	1		3.780+ 0	8.000+ 0	57 153	40	TOTAL
4-BE-9	1		4.000+ 0	4.000+ 0	67 1643	1	TOTAL
4-BE-9	1		4.100+ 0	4.100+ 0	55 296	1	TOTAL
4-BE-9	1		4.350+ 0	8.735+ 0	56 141	96	TOTAL
4-BE-9	1		5.000+ 0	6.000+ 0	59 500	2	TOTAL
4-BE-9	1		6.830+ 0	1.411+ 1	57 22	5	TOTAL
4-BE-9	1		1.374+ 1	1.460+ 1	68 3102	21	TOTAL
4-BE-9	1		1.390+ 1	1.390+ 1	51 65	1	TOTAL
4-BE-9	1		1.400+ 1	1.400+ 1	52 81	1	TOTAL
4-BE-9	1		1.400+ 1	1.400+ 1	52 207	1	TOTAL
4-BE-9	1		1.400+ 1	1.400+ 1	58 609	1	TOTAL
4-BE-9	1		1.410+ 1	1.800+ 1	54 107	8	TOTAL
4-BE-9	1		1.450+ 1	1.450+ 1	70 3300	1	TOTAL
4-BE-9	1		1.467+ 1	1.467+ 1	61 711	1	TOTAL
4-BE-9	1		1.480+ 1	1.480+ 1	57 368	1	TOTAL
4-BE-9	1		1.750+ 1	2.790+ 1	60 673	4	TOTAL
N 4-BE-9	1		2.070+ 1	4.415+ 1	74 3527	10	TOTAL
4-BE-9	1		3.634+ 1	5.890+ 1	72 3196	5	TOTAL
4-BE-9	1		4.200+ 1	4.200+ 1	50 281	1	TOTAL
4-BE-9	1		9.000+ 1	9.000+ 1	49 286	1	TOTAL
4-BE-9	1		9.500+ 1	9.500+ 1	50 12	1	TOTAL
4-BE-9	1		3.790+ 2	1.731+ 3	71 3264	15	TOTAL
4-BE-9	1		1.400+ 3	1.400+ 3	55 2056	1	TOTAL
4-BE-9	1		5.700+ 3	5.700+ 3	69 3160	1	TOTAL
4-BE-9	1		2.650+ 4	2.650+ 4	71 3180	1	TOTAL
4-BE-9	1		2.700+ 4	2.700+ 4	68 2350	1	TOTAL
N 4-BE-9	1		3.400+ 4	2.730+ 5	74 3618	7	TOTAL
4-BE-9	1	9	2.910-10	6.420-9	55 2057	82	TOTAL
4-BE-9	2		3.000- 2	1.452+ 0	56 231	39	ELASTIC
4-BE-9	2		5.000- 2	2.250+ 0	60 571	33	ELASTIC
4-BE-9	2		4.500- 1	1.500+ 0	66 885	33	ELASTIC
4-BE-9	2		5.400- 1	7.000- 1	55 121	3	ELASTIC
4-BE-9	2		2.480+ 0	3.460+ 0	60 1645	6	ELASTIC
4-BE-9	2		3.000+ 0	7.000+ 0	61 276	8	ELASTIC
4-BE-9	2		4.000+ 0	4.000+ 0	64 1643	1	ELASTIC
4-BE-9	2		4.100+ 0	6.000+ 0	59 500	3	ELASTIC
4-BE-9	2		1.400+ 1	1.400+ 1	58 402	1	ELASTIC
4-BE-9	2		1.400+ 1	1.400+ 1	66 2585	1	ELASTIC
4-BE-9	2		1.420+ 1	1.420+ 1	57 331	1	ELASTIC
4-BE-9	3		2.300+ 0	5.200+ 0	68 2595	7	NONELASTIC
4-BE-9	3		2.464+ 0	3.924+ 0	73 3321	9	NONELASTIC
4-BE-9	3		4.070+ 0	4.070+ 0	55 122	1	NONELASTIC
4-BE-9	3		4.100+ 0	4.100+ 0	55 296	1	NONELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 13 ***

ZA = 4009

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 4009

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
4-BE-9	3		5.600+ 2	5.600+ 0	56 151	1	NONELASTIC
4-BE-9	3		7.000+ 0	1.120+ 1	57 24	4	NONELASTIC
4-BE-9	3		1.270+ 1	1.410+ 1	55 130	2	NONELASTIC
4-BE-9	3		1.400+ 1	1.400+ 1	49 3103	1	NONELASTIC
4-BE-9	3		1.400+ 1	1.403+ 1	60 3104	1	NONELASTIC
4-BE-9	3		1.400+ 1	1.400+ 1	63 277	1	NONELASTIC
4-BE-9	3		1.408+ 1	1.408+ 1	61 743	1	NONELASTIC
4-BE-9	3		1.410+ 1	1.410+ 1	58 490	1	NONELASTIC
4-BE-9	3		1.420+ 1	1.420+ 1	57 319	1	NONELASTIC
4-BE-9	3		1.420+ 1	1.420+ 1	63 1271	1	NONELASTIC
4-BE-9	3		1.450+ 1	1.450+ 1	56 200	1	NONELASTIC
4-BE-9	3		2.550+ 1	2.550+ 1	58 356	1	NONELASTIC
4-BE-9	3		3.730+ 2	1.731+ 3	71 3264	15	NONELASTIC
4-BE-9	3		1.400+ 3	1.400+ 3	55 2056	1	NONELASTIC
4-BE-9	11		1.400+ 1	1.400+ 1	57 162	1	N,N'
4-BE-9	11	1	3.500+ 0	5.060+ 0	59 500	3	N,N'
4-BE-9	11	1	7.000+ 0	7.000+ 0	64 17	1	N,N'
4-BE-9	11	1	1.400+ 1	1.400+ 1	58 405	1	N,N'
4-BE-9	11	1	1.400+ 1	1.400+ 1	66 2565	1	N,N'
4-BE-9	11	1	1.400+ 1	1.400+ 1	58 3102	1	N,N'
4-BE-9	11	1	1.408+ 1	1.408+ 1	61 743	1	N,N'
4-BE-9	12		2.000+ 0	6.400+ 0	69 763	27	N,2N
4-BE-9	12		2.370+ 0	3.340+ 0	72 3320	6	N,2N
4-BE-9	12		2.570+ 0	3.190+ 0	57 316	4	N,2N
4-BE-9	12		3.200+ 0	4.500+ 0	61 755	4	N,2N
4-BE-9	12		3.700+ 0	3.700+ 0	55 279	1	N,2N
4-BE-9	12		6.550+ 0	1.410+ 1	61 683	4	N,2N
4-BE-9	12		7.000+ 0	7.000+ 0	64 17	1	N,2N
4-BE-9	12		1.400+ 1	1.400+ 1	57 162	1	N,2N
4-BE-9	12		1.400+ 1	1.400+ 1	58 609	1	N,2N
4-BE-9	12		1.400+ 1	1.400+ 1	59 530	1	N,2N
4-BE-9	12		1.400+ 1	1.400+ 1	63 277	1	N,2N
4-BE-9	12		1.410+ 1	1.410+ 1	58 7	1	N,2N
4-BE-9	12		1.410+ 1	1.410+ 1	59 539	1	N,2N
4-BE-9	12		1.410+ 1	1.410+ 1	61 650	1	N,2N
4-BE-9	12	1	1.455+ 1	1.455+ 1	66 3105	3	N,2N
4-BE-9	21		2.530- 8	2.530- 8	47 2936	1	ABSORPTION
4-BE-9	21		2.530- 8	2.530- 8	52 2806	1	ABSORPTION
4-BE-9	24		3.200+ 0	3.200+ 0	54 113	1	N,X GAMMA
4-BE-9	24		1.400+ 1	1.400+ 1	58 405	1	N,X GAMMA
4-BE-9	26		1.550+ 1	1.550+ 1	63 913	1	N,P
4-BE-9	26	2	1.450+ 1	1.490+ 1	73 3492	2	N,P
4-BE-9	28		1.654+ 1	1.879+ 1	69 3101	17	N,D
4-BE-9	30		1.400+ 1	1.600+ 1	58 494	3	N,T
4-BE-9	30		1.410+ 1	1.410+ 1	58 496	1	N,T
4-BE-9	30		1.410+ 1	1.410+ 1	61 650	1	N,T
4-BE-9	30		1.470+ 1	1.470+ 1	73 3996	1	N,T
4-BE-9	30	7	1.357+ 1	1.473+ 1	59 605	10	N,T
4-BE-9	34		7.400- 1	4.410+ 0	57 160	53	N,ALPHA
4-BE-9	34		1.000+ 0	7.000+ 0	58 494	7	N,ALPHA
4-BE-9	34		3.910+ 0	8.580+ 0	61 733	54	N,ALPHA
4-BE-9	34		1.410+ 1	1.410+ 1	53 86	1	N,ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 14 ***

ZA = 4009

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 4009

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
4-BE-9	34		1.410+1	1.410+1	61 650	1	N,ALPHA
4-BE-9	34	1	1.440+1	1.440+1	67 2367	1	N,ALPHA
4-BE-9	41		7.300-8	7.300-8	51 1584	1	BOUND ATOM
4-BE-9	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
4-BE-9	44		2.530-8	2.530-8	63 2663	1	INCOHERENT SCATTER.
4-BE-9	62		2.000+0	2.000+0	66 1942	1	N,2N
4-BE-9	62		2.000+0	2.000+0	67 3098	1	N,2N
4-BE-9	62		2.000+0	2.000+0	68 2310	1	N,2N
4-BE-9	71		2.500-8	2.500-8	55 2939	1	ABSORPTION
4-BE-9	71		2.500-8	2.500-8	63 1644	1	ABSORPTION
4-BE-9	73		2.500-8	2.500-8	47 2804	1	N,GAMMA
4-BE-9	73		2.500-8	2.500-8	61 2799	1	N,GAMMA
4-BE-9	73		2.500-8	2.500-8	63 2659	1	N,GAMMA
4-BE-9	73	7	2.530-8	2.530-8	70 2415	6	N,GAMMA
4-BE-9	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA
4-BE-9	102		3.000-2	1.450+0	57 231	100	ELASTIC
4-BE-9	102		5.000-2	2.250+0	60 571	240	ELASTIC
4-BE-9	102		2.000-1	9.000-1	64 1647	150	ELASTIC
4-BE-9	102		5.400-1	7.000-1	55 121	27	ELASTIC
4-BE-9	102		5.480-1	8.950-1	56 231	190	ELASTIC
4-BE-9	102		7.300-1	2.920+0	58 945	90	ELASTIC
4-BE-9	102		2.480+0	3.460+0	60 1645	91	ELASTIC
4-BE-9	102		3.000+0	7.000+0	61 1646	109	ELASTIC
4-BE-9	102		4.000+0	4.000+0	64 1643	17	ELASTIC
4-BE-9	102		4.100+0	6.000+0	59 500	30	ELASTIC
N 4-BE-9	102		4.100+0	4.100+0	55 295	11	ELASTIC
N 4-BE-9	102		7.000+0	7.000+0	56 151	7	ELASTIC
N 4-BE-9	102		7.550+0	7.550+0	73 3614	6	ELASTIC
4-BE-9	102		1.450+1	1.400+1	58 402	21	ELASTIC
4-BE-9	102		1.400+1	1.400+1	66 2585	18	ELASTIC
4-BE-9	102		1.400+1	1.400+1	68 3106	25	ELASTIC
N 4-BE-9	102		1.410+1	1.410+1	71 3737	17	ELASTIC
N 4-BE-9	102		1.450+1	1.450+1	71 3731	10	ELASTIC
4-BE-9	102		9.600+1	9.600+1	60 1045	5	ELASTIC
4-BE-9	102		1.360+2	1.360+2	56 1047	5	ELASTIC
4-BE-9	111	1	3.000+0	5.000+0	59 500	35	N,N'
4-BE-9	111	1	7.000+0	7.000+0	64 17	12	N,N'
4-BE-9	111	1	1.400+1	1.400+1	58 425	16	N,N'
4-BE-9	111	1	1.400+1	1.400+1	66 2585	18	N,N'
4-BE-9	111	1	1.400+1	1.400+1	68 3106	22	N,N'
N 4-BE-9	111	1	1.410+1	1.410+1	71 3737	17	N,N'
4-BE-9	112		3.700+0	3.700+0	58 424	1	N,2N
4-BE-9	112		7.000+0	7.000+0	64 17	12	N,2N
4-BE-9	124	7	1.480+1	1.480+1	69 1019	1	N,X GAMMA
N 4-BE-9	134	1	8.000+0	3.000+1	70 3651	575	N,ALPHA
4-BE-9	134	1	1.440+1	1.440+1	67 2367	13	N,ALPHA
N 4-BE-9	304		1.470+1	1.490+1	74 4095	620	NEUTRON EMISSION
N 4-BE-9	311	80	1.410+1	1.410+1	65 1932	51	N,N'
4-BE-9	406		1.420+1	1.420+1	58 905	1	NONELASTIC EMISSION
4-BE-9	452		4.500-1	1.500+0	66 885	132	ELASTIC
4-BE-9	506		1.410+1	1.410+1	61 650	10	NONELASTIC EMISSION
4-BE-9	506		1.480+1	1.480+1	66 1042	62	NONELASTIC EMISSION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 4009

07/04/78

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 4009

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
4-BE-9	606	1	1.500+	1	1.500+	1	50 1720
4-BE-9	612 20	1	1.400+	1	1.400+	1	63 917
4-BE-9		1	1.410+	1	1.410+	1	66 1932
4-BE-9		1	6.200-	1	8.100-	1	55 121
4-BE-9		1	6.200-	1	8.100-	1	51 72
4-BE-9		1	6.220-	1	8.118-	1	71 3062
4-BE-9		1	3.000+	0	3.000+	0	58 945
5-B -NAT	1	1	6.620-	10	2.930-	8	53 809
5-B -NAT	1	1	4.600-	9	1.010-	7	60 805
5-B -NAT	1	1	6.010-	9	8.200-	8	63 463
5-B -NAT	1	1	1.200-	8	2.820-	6	52 969
5-B -NAT	1	1	1.150+	4	3.000+	4	49 844
5-B -NAT	1	1	1.700+	4	1.580-	1	54 1002
5-B -NAT	1	1	2.300-	3	2.300-	3	50 247
5-B -NAT	1	1	1.100-	2	4.970-	1	66 2012
5-B -NAT	1	1	1.770-	1	8.370-	1	50 63
5-B -NAT	1	1	8.700-	1	3.407+	0	51 72
5-B -NAT	1	1	9.501-	1	1.350+	0	62 690
5-B -NAT	1	1	2.266+	0	1.498+	1	67 750
5-B -NAT	1	1	2.820+	0	9.700+	0	54 504
5-B -NAT	1	1	3.240+	0	5.110+	0	62 642
5-B -NAT	1	1	3.250+	0	4.520+	0	61 755
5-B -NAT	1	1	3.310+	0	1.528+	1	61 682
5-B -NAT	1	1	4.350+	0	8.635+	0	56 141
5-B -NAT	1	1	1.450+	1	1.450+	1	70 3300
5-B -NAT	1	1	4.200+	1	4.200+	1	50 281
5-B -NAT	2	1	1.400+	1	1.430+	1	62 1060
5-B -NAT	2	1	1.400+	1	1.400+	1	66 1648
5-B -NAT	3	1	1.410+	1	1.410+	1	58 490
5-B -NAT	3	1	1.415+	1	1.415+	1	52 82
5-B -NAT	7	1	1.450+	1	1.450+	1	56 200
5-B -NAT	7	1	6.000-	2	1.800+	0	56 231
5-B -NAT	11	1	1.400+	1	1.400+	1	62 1060
5-B -NAT	11 8	1	1.400+	1	1.400+	1	62 1060
5-B -NAT	21	1	2.500-	8	2.500-	8	65 1053
5-B -NAT	21	1	2.530-	8	2.530-	8	53 809
5-B -NAT	21	1	2.530-	8	2.530-	8	53 2786
5-B -NAT	21	1	2.530-	8	2.530-	8	57 432
5-B -NAT	21	1	2.530-	8	2.530-	8	58 2607
5-B -NAT	21	1	2.530-	8	2.530-	8	60 805
5-B -NAT	21	1	2.530-	8	2.530-	8	60 891
5-B -NAT	21	1	2.530-	8	2.530-	8	60 1995
5-B -NAT	21	1	2.530-	8	2.530-	8	61 2805
5-B -NAT	21	1	2.530-	8	2.530-	8	61 2933
5-B -NAT	21	1	2.530-	8	2.530-	8	63 463
5-B -NAT	21	1	2.570-	8	2.530-	8	64 776
5-B -NAT	24	7	1.400+	1	1.400+	1	68 2997
5-B -NAT	30	1	1.470+	1	1.470+	1	73 3996
5-B -NAT	34	1	3.700-	1	2.700+	0	51 71
5-B -NAT	43	1	2.530-	8	2.530-	8	64 2654
5-B -NAT	71	1	2.500-	8	2.500-	8	51 882
5-B -NAT	71	1	2.500-	8	2.500-	8	53 2785
TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION

ANGULAR DIST.-INTEGRAL E1-E2
ANGULAR DIST.-INTEGRAL E1-E2

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ZA = 5000

07/04/76

ELSL-7600 REACTION INDEX (ZA ORDERED)

ZA = 5000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	5-B -NAT 73	7	2.530- 8	2.530- 8	70 2415	4	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	5-B -NAT 102		6.000- 2	7.300- 1	56 231	45	ELASTIC ANGULAR DISTRIBUTION
	5-B -NAT 102		4.300- 1	1.500+ 0	55 121	84	ELASTIC ANGULAR DISTRIBUTION
	5-B -NAT 102		4.370+ 0	4.370+ 0	71 4022	5	ELASTIC ANGULAR DISTRIBUTION
	5-B -NAT 102		1.400+ 1	1.400+ 1	62 1060	14	ELASTIC ANGULAR DISTRIBUTION
	5-B -NAT 102		1.400+ 1	1.400+ 1	66 1646	14	ELASTIC ANGULAR DISTRIBUTION
	5-B -NAT 105		8.100- 1	1.780+ 0	56 231	60	TOTAL SCATTERING ANGULAR DISTRIBUTION
	5-B -NAT 111	1	1.400+ 1	1.400+ 1	62 1060	13	N,N' ANGULAR DISTRIBUTION
	5-B -NAT 111	6	1.400+ 1	1.400+ 1	62 1060	28	N,N' ANGULAR DISTRIBUTION
	5-B -NAT 521		4.900- 7	1.500+ 1	57 1054	1	ABSORPTION RESONANCE INTEGRAL
C	5-B -NAT 606		1.480+ 1	1.480+ 1	65 1042	12	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
	5-B -NAT 606	80	1.400+ 1	1.400+ 1	63 917	6	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
	5-C -NAT 871		2.530- 8	2.530- 8	47 2929	1	ABSORPTION CROSS SECTION RATIO
	5-B -10 1		4.600- 9	1.010- 7	60 805	10	TOTAL
	5-B -10 1		6.010- 9	8.200- 8	63 463	50	TOTAL
	5-B -10 1		1.850- 8	4.040- 8	80 365	84	TOTAL
	5-B -10 1		5.438- 5	1.304- 2	58 823	43	TOTAL
	5-B -10 1		7.491- 5	2.987- 2	67 1550	2537	TOTAL
	5-B -10 1		2.800- 3	2.800- 3	52 252	1	TOTAL
	5-B -10 1		3.000- 3	8.210- 2	63 802	41	TOTAL
N	5-B -10 1		3.000- 2	3.390+ 0	31 72	197	TOTAL
	5-B -10 1		5.000- 1	3.000+ 0	45 257	7	TOTAL
	5-B -10 1		2.032+ 0	4.823+ 0	70 3794	7	TOTAL
	5-B -10 1		2.820+ 0	9.700+ 0	54 504	26	TOTAL
	5-B -10 1		3.240+ 0	5.110+ 0	62 642	59	TOTAL
	5-B -10 1		3.330+ 0	1.532+ 1	61 682	138	TOTAL
	5-B -10 1		4.350+ 0	8.640+ 0	56 141	84	TOTAL
	5-B -10 1		9.720+ 0	9.720+ 0	70 3938	1	TOTAL
	5-B -10 1		1.400+ 1	1.400+ 1	52 81	1	TOTAL
	5-B -10 1		1.410+ 1	1.800+ 1	54 107	8	TOTAL
N	5-B -10 2		5.000- 3	2.240+ 0	71 3513	67	ELASTIC
	5-B -10 2		5.500- 1	1.500+ 0	55 121	3	ELASTIC
	5-B -10 2		2.032+ 0	4.823+ 0	70 3794	7	ELASTIC
	5-B -10 2		9.720+ 0	9.720+ 0	70 3938	1	ELASTIC
	5-B -10 3		2.032+ 0	4.823+ 0	70 3794	7	NONELASTIC
	5-B -10 3		1.420+ 1	1.420+ 1	57 319	1	NONELASTIC
	5-B -10 5		4.700- 4	1.271+ 1	70 3935	30	TOTAL SCATTERING
	5-B -10 5		7.020+ 0	7.550+ 0	39 2999	2	TOTAL SCATTERING
	5-B -10 11		9.720+ 0	9.720+ 0	70 3938	1	N,N'
	5-B -10 11	1	2.032+ 0	4.823+ 0	70 3794	18	N,N'
N	5-B -10 11	1	7.020+ 0	7.550+ 0	69 2999	9	N,N'
	5-B -10 11	8	9.720+ 0	9.720+ 0	70 3938	5	N,N'
	5-B -10 12		1.406+ 1	1.406+ 1	69 2519	1	N,N'
	5-B -10 15		1.220+ 1	1.950+ 1	56 144	5	N,N'
	5-B -10 21		2.530- 8	2.530- 8	60 805	1	ABSORPTION
	5-B -10 21		2.530- 8	2.530- 8	60 891	1	ABSORPTION
	5-B -10 21		2.530- 8	2.530- 8	67 463	1	ABSORPTION
	5-B -10 21		2.530- 8	2.530- 8	70 3218	1	ABSORPTION
	5-B -10 21		1.100- 2	4.980- 1	66 2012	105	ABSORPTION
	5-B -10 24	7	4.700- 2	1.480+ 1	70 3324	31	N,X GAMMA
N	5-B -10 24	7	1.050+ 0	5.150+ 0	60 666	81	N,X GAMMA
	5-B -10 24	7	2.560+ 0	2.560+ 0	56 140	1	N,X GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 5010

07/04/76

EC5IL-7600 REACTION INDEX (ZA ORDERED)

ZA = 5010

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	5-B	-10	30	1.360+ 0	8.260+ 0	61 742	56	N,T
	5-B	-10	30	4.000+ 0	1.410+ 1	58 496	4	N,T
	5-B	-10	30	5.600+ 0	1.950+ 1	56 144	7	N,T
C	5-B	-10	34	2.443- 3	1.718+ 0	74 3259	152	N,ALPHA
	5-B	-10	34	6.000- 3	6.800- 2	63 802	28	N,ALPHA
	5-B	-10	34	1.070- 2	2.470- 1	67 1020	12	N,ALPHA
	5-B	-10	34	1.150- 2	7.710- 2	85 1649	8	N,ALPHA
	5-B	-10	34	2.000- 2	4.720- 0	57 392	89	N,ALPHA
	5-B	-10	34	2.500- 2	2.500- 2	56 278	1	N,ALPHA
	5-B	-10	34	2.900- 2	8.170- 1	69 2750	27	N,ALPHA
C	5-B	-10	34	1 2.049- 2	9.777- 1	74 3259	56	N,ALPHA
	5-B	-10	34	1 3.000- 2	5.160- 1	68 1940	22	N,ALPHA
	5-B	-10	34	1 2.150- 1	7.630+ 0	61 742	174	N,ALPHA
	5-B	-10	34	1 1.440+ 1	1.440+ 1	69 3282	3	N,ALPHA
	5-B	-10	43	0.000+ 0	0.000+ 0	66 1018	1	COHERENT SCATTERING
	5-B	-10	80	2.000+ 0	2.000+ 0	58 496	1	N,T
	5-B	-10	102	5.500- 1	1.500+ 0	55 121	21	ELASTIC
	5-B	-10	102	1.555+ 0	4.391+ 0	73 3509	315	ELASTIC
	5-B	-10	102	2.032+ 0	4.823+ 0	70 3794	70	ELASTIC
	5-B	-10	102	2.630+ 0	2.630+ 0	73 3442	8	ELASTIC
	5-B	-10	102	4.370+ 0	4.370+ 0	71 4022	4	ELASTIC
	5-B	-10	102	9.720+ 0	9.720+ 0	70 3938	8	ELASTIC
N	5-B	-10	111	1 2.032+ 0	4.823+ 0	70 3794	148	N,N'
NN	5-B	-10	111	1 7.020+ 0	7.550+ 0	69 2999	75	N,N'
NN	5-B	-10	111	1 9.720+ 0	9.720+ 0	70 3938	11	N,N'
NN	5-B	-10	111	1 1.410+ 1	1.410+ 1	71 3736	13	N,N'
NN	5-B	-10	111	8 9.720+ 0	9.720+ 0	70 3938	25	N,N'
NN	5-B	-10	111	8 1.410+ 1	1.410+ 1	71 3736	51	N,N'
	5-B	-10	124	7 3.000- 1	4.000+ 0	68 1019	23	N,X GAMMA
	5-B	-10	124	7 1.450+ 0	1.480+ 1	70 3324	31	N,X GAMMA
	5-B	-10	124	7 3.500+ 0	4.750+ 0	64 1730	18	N,X GAMMA
	5-B	-10	128	1 1.410+ 1	1.410+ 1	54 1650	14	N,D
	5-B	-10	128	1 1.440+ 1	1.440+ 1	65 1635	16	N,D
	5-B	-10	130	1 1.440+ 1	1.440+ 1	64 1916	16	N,T
	5-B	-10	134	1 1.440+ 1	1.440+ 1	69 3282	17	N,ALPHA
	5-B	-10	224	80 2.530- 8	2.530- 8	67 1888	8	N,X GAMMA
	5-B	-10	331	1 1.440+ 1	1.440+ 1	66 2690	72	N,X T
	5-B	-10	406	1 1.420+ 1	1.420+ 1	58 905	1	NONELASTIC EMISSION
	5-B	-10	606	1 1.480+ 1	1.480+ 1	66 1042	10	NONELASTIC EMISSION
	5-B	-10	880	1 1.440+ 1	1.440+ 1	67 2650	1	N,T
	5-B	-10	884	1 2.500- 8	2.500- 8	62 1050	1	N,ALPHA
	5-B	-10	884	1 2.500- 8	2.500- 8	63 1051	1	N,ALPHA
	5-B	-10	884	1 2.500- 8	1.600- 1	65 1052	4	N,ALPHA
N	5-B	-10	884	7 9.426- 4	9.777- 1	74 3259	61	N,ALPHA
	5-B	-10		-9.400- 1	1.860+ 0	71 3143	21	RESONANCE PARAMETERS
	5-B	-10		5.200- 1	5.200- 1	59 519	2	RESONANCE PARAMETERS
	5-B	-10		300- 1	4.100+ 0	57 392	4	RESONANCE PARAMETERS
	5-B	-10		5.300- 1	6.400+ 0	61 742	7	RESONANCE PARAMETERS
	5-B	-10		1.900+ 0	1.270+ 0	51 71	1	RESONANCE PARAMETERS
	5-B	-10		1.930+ 0	4.73+ 0	60 666	5	RESONANCE PARAMETERS
N	5-B	-10		2.750+ 0	2.750+ 0	73 3442	2	RESONANCE PARAMETERS
	5-B	-10		4.300+ 0	6.200+ 1	61 682	3	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 18 ***

ZA = 5010

ZA - 5011

ZA - 5011

07/04/76

ELSL-7600 REACTION INDEX (ZA ORDERED)

ZA = 5011

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION			
5-B	-11		2.300-	2	64 1649	2	RESONANCE PARAMETERS			
5-B	-11		4.300-	1	55 121	4	RESONANCE PARAMETERS			
5-B	-11		4.300-	1	62 690	7	RESONANCE PARAMETERS			
5-B	-11		4.300-	1	51 72	11	RESONANCE PARAMETERS			
5-B	-11		3.500+	0	61 682	12	RESONANCE PARAMETERS			
B203			5.313-	9	64 776	5	TOTAL			
N	6-C	-NAT	1	8.300-10	1.170-	7	3756	163	TOTAL	
	6-C	-NAT	1	1.290-	9	1.200-	7	57 433	94	TOTAL
	6-C	-NAT	1	1.850-	9	1.850-	9	61 1716	1	TOTAL
	6-C	-NAT	1	1.850-	9	9.600-	5	61 1026	163	TOTAL
	6-C	-NAT	1	1.440-	6	1.440-	6	65 949	2	TOTAL
	6-C	-NAT	1	1.460-	6	1.460-	6	55 1471	1	TOTAL
	6-C	-NAT	1	4.270-	6	5.900-	4	52 798	49	TOTAL
	6-C	-NAT	1	4.951-	6	1.033-	3	64 37	56	TOTAL
	6-C	-NAT	1	1.342-	5	8.600-	3	56 304	74	TOTAL
	6-C	-NAT	1	7.400-	5	1.504+	0	68 3020	67	TOTAL
	6-C	-NAT	1	1.150-	4	3.000-	4	49 844	2	TOTAL
	6-C	-NAT	1	1.700-	4	1.600-	1	54 784	109	TOTAL
	6-C	-NAT	1	1.020-	4	6.198+	1	66 1662	685	TOTAL
N	6-C	-NAT	1	1.030-	3	5.951-	1	74 3493	115	TOTAL
	6-C	-NAT	1	3.000-	3	6.605-	1	63 169	683	TOTAL
N	6-C	-NAT	1	1.080-	2	2.485-	1	71 3751	24	TOTAL
	6-C	-NAT	1	2.000-	2	2.000-	2	50 126	1	TOTAL
N	6-C	-NAT	1	2.350-	2	2.350-	2	75 3897	1	TOTAL
	6-C	-NAT	1	3.500-	2	9.500-	2	46 175	2	TOTAL
	6-C	-NAT	1	6.000-	2	1.200-	1	55 210	4	TOTAL
	6-C	-NAT	1	1.003-	1	6.487-	1	66 1515	547	TOTAL
N	6-C	-NAT	1	1.600-	1	1.170+	0	73 3945	21	TOTAL
N	6-C	-NAT	1	1.811-	1	2.945+	1	72 3458	3701	TOTAL
	6-C	-NAT	1	1.850-	1	6.950-	1	61 732	103	TOTAL
	6-C	-NAT	1	2.200-	1	4.050+	0	50 311	12	TOTAL
N	6-C	-NAT	1	4.330-	1	2.370+	0	73 3505	18	TOTAL
	6-C	-NAT	1	4.938-	1	1.503+	1	70 3051	3369	TOTAL
	6-C	-NAT	1	5.000-	1	1.101+	1	71 3341	942	TOTAL
	6-C	-NAT	1	5.044-	1	1.353+	0	80 685	680	TOTAL
	6-C	-NAT	1	5.400-	1	4.840+	0	50 64	72	TOTAL
	6-C	-NAT	1	6.400-	1	1.002+	0	83 455	78	TOTAL
	6-C	-NAT	1	6.488-	1	1.555+	0	70 3153	456	TOTAL
	6-C	-NAT	1	6.738-	1	3.194+	1	70 2517	4300	TOTAL
	6-C	-NAT	1	7.480-	1	4.988+	1	86 1654	931	TOTAL
	6-C	-NAT	1	8.891-	1	2.999+	1	70 3157	1800	TOTAL
	6-C	-NAT	1	9.000-	1	9.000-	1	41 170	1	TOTAL
N	6-C	-NAT	1	1.000+	0	4.630+	0	74 4009	55	TOTAL
	6-C	-NAT	1	1.250+	0	3.350+	0	51 78	122	TOTAL
	6-C	-NAT	1	1.315+	0	1.315+	0	54 112	1	TOTAL
	6-C	-NAT	1	1.600+	0	2.000+	0	46 174	2	TOTAL
N	6-C	-NAT	1	1.700+	0	1.430+	1	74 4014	12	TOTAL
	6-C	-NAT	1	2.041+	0	2.118+	0	58 322	23	TOTAL
	6-C	-NAT	1	2.210+	0	2.770+	0	53 94	14	TOTAL
	6-C	-NAT	1	2.250+	0	2.800+	0	57 817	14	TOTAL
	6-C	-NAT	1	2.260+	0	1.482+	1	67 750	244	TOTAL
	6-C	-NAT	1	2.606+	0	2.850+	0	65 1562	9	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 20 ***

ZA = 6000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 6000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
6-C -NAT	I		2.625+ 0	2.907+ 0	58 384	40	TOTAL
6-C -NAT	I		2.920+ 0	1.356+ 1	54 504	38	TOTAL
6-C -NAT	I		3.290+ 0	1.591+ 1	61 682	217	TOTAL
6-C -NAT	I		3.370+ 0	5.070+ 0	60 643	83	TOTAL
6-C -NAT	I		3.615+ 0	7.300+ 0	52 785	126	TOTAL
6-C -NAT	I		3.780+ 0	8.090+ 0	57 153	41	TOTAL
6-C -NAT	I		3.910+ 0	4.845+ 0	53 87	39	TOTAL
6-C -NAT	I		4.000+ 0	4.000+ 0	67 1643	1	TOTAL
6-C -NAT	I		4.040+ 0	5.590+ 0	71 3214	3	TOTAL
6-C -NAT	I		4.100+ 0	4.100+ 0	55 295	1	TOTAL
6-C -NAT	I		4.380+ 0	8.595+ 0	56 141	98	TOTAL
6-C -NAT	I		7.040+ 0	1.434+ 1	62 787	93	TOTAL
6-C -NAT	I		8.770+ 0	1.437+ 1	57 22	6	TOTAL
6-C -NAT	I		1.253+ 1	1.700+ 1	63 378	27	TOTAL
6-C -NAT	I		1.314+ 1	1.560+ 1	58 324	6	TOTAL
6-C -NAT	I		1.317+ 1	1.735+ 1	63 781	25	TOTAL
6-C -NAT	I		1.373+ 1	1.460+ 1	72 3102	21	TOTAL
6-C -NAT	I		1.377+ 1	1.476+ 1	58 349	19	TOTAL
6-C -NAT	I		1.390+ 1	1.390+ 1	51 65	1	TOTAL
6-C -NAT	I		1.400+ 1	1.400+ 1	52 81	1	TOTAL
6-C -NAT	I		1.400+ 1	1.400+ 1	52 207	1	TOTAL
6-C -NAT	I		1.408+ 1	1.408+ 1	51 206	1	TOTAL
6-C -NAT	I		1.410+ 1	1.410+ 1	52 78	1	TOTAL
6-C -NAT	I		1.410+ 1	1.800+ 1	54 107	8	TOTAL
6-C -NAT	I		1.450+ 1	1.450+ 1	70 3300	1	TOTAL
6-C -NAT	I		1.467+ 1	1.467+ 1	61 711	1	TOTAL
6-C -NAT	I		1.468+ 1	1.468+ 1	68 1653	1	TOTAL
6-C -NAT	I		1.468+ 1	1.468+ 1	68 1941	1	TOTAL
6-C -NAT	I		1.480+ 1	1.480+ 1	57 368	1	TOTAL
6-C -NAT	I		1.580+ 1	1.175+ 2	61 709	60	TOTAL
6-C -NAT	I		1.670+ 1	2.038+ 1	69 3708	44	TOTAL
6-C -NAT	I		1.720+ 1	2.007+ 1	53 274	3	TOTAL
6-C -NAT	I		1.750+ 1	2.097+ 1	65 950	25	TOTAL
6-C -NAT	I		1.780+ 1	2.910+ 1	60 673	5	TOTAL
6-C -NAT	I		1.958+ 1	3.046+ 1	65 927	5	TOTAL
6-C -NAT	I		2.100+ 1	4.415+ 1	74 3527	17	TOTAL
6-C -NAT	I		2.463+ 1	5.890+ 1	72 3196	6	TOTAL
6-C -NAT	I		2.540+ 1	2.540+ 1	45 307	1	TOTAL
6-C -NAT	I		3.700+ 1	1.530+ 2	53 355	11	TOTAL
6-C -NAT	I		3.910+ 1	1.940+ 2	53 310	27	TOTAL
6-C -NAT	I		4.200+ 1	4.200+ 1	50 281	1	TOTAL
6-C -NAT	I		4.750+ 1	8.600+ 1	54 343	2	TOTAL
6-C -NAT	I		6.100+ 1	1.068+ 2	55 282	12	TOTAL
6-C -NAT	I		6.150+ 1	1.079+ 2	54 39	12	TOTAL
6-C -NAT	I		8.820+ 1	1.509+ 2	66 1055	7	TOTAL
6-C -NAT	I		9.000+ 1	9.000+ 1	49 286	1	TOTAL
6-C -NAT	I		9.500+ 1	9.500+ 1	50 12	1	TOTAL
6-C -NAT	I		3.792+ 2	1.731+ 3	71 3264	15	TOTAL
6-C -NAT	I		1.400+ 3	1.400+ 3	55 2056	1	TOTAL
6-C -NAT	I		3.600+ 3	3.600+ 3	70 3195	1	TOTAL
6-C -NAT	I		5.000+ 3	5.000+ 3	61 1566	1	TOTAL
6-C -NAT	I		5.700+ 3	5.700+ 3	69 3160	1	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1- 21 ***

ZA = 6000

01/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 6000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	6-C -NAT	1	8.300+ 3	8.300+ 3	62 1657	1	TOTAL
	6-C -NAT	1	1.20C+ 4	2.650+ 4	71 3180	4	TOTAL
	6-C -NAT	1	2.700+ 4	2.700+ 4	68 2350	1	TOTAL
N	6-C -NAT	1	3.400+ 4	2.730- 5	74 3619	7	TOTAL
	6-C -NAT	1	9 4.200-10	1.940- 9	55 2057	82	TOTAL
	6-C -NAT	2	5.000- 1	5.000- 1	54 886	1	ELASTIC
N	6-C -NAT	2	5.000- 1	2.000+ 0	69 3523	39	ELASTIC
	6-C -NAT	2	5.500- 1	1.500+ 0	55 121	3	ELASTIC
N	6-C -NAT	2	2.630+ 0	2.630+ 0	73 3847	1	ELASTIC
	6-C -NAT	2	3.068+ 0	4.729+ 0	66 1687	71	ELASTIC
	6-C -NAT	2	4.000+ 0	4.000+ 0	64 1643	1	ELASTIC
	6-C -NAT	2	4.040+ 0	5.590+ 0	71 3214	3	ELASTIC
	6-C -NAT	2	4.210+ 0	7.580+ 0	59 579	3	ELASTIC
	6-C -NAT	2	4.600+ 0	8.560+ 0	69 3004	13	ELASTIC
	6-C -NAT	2	5.050+ 0	5.580+ 0	70 2989	2	ELASTIC
	6-C -NAT	2	6.000+ 0	7.000+ 0	59 544	3	ELASTIC
	6-C -NAT	2	6.040+ 0	6.040+ 0	65 889	1	ELASTIC
	6-C -NAT	2	1.400+ 1	1.400+ 1	58 402	1	ELASTIC
	6-C -NAT	2	1.400+ 1	1.400+ 1	62 1060	1	ELASTIC
	6-C -NAT	2	1.400+ 1	1.400+ 1	64 1661	1	ELASTIC
N	6-C -NAT	2	1.400+ 1	1.400+ 1	66 1648	1	ELASTIC
	6-C -NAT	2	1.400+ 1	1.400+ 1	88 1659	1	ELASTIC
	6-C -NAT	2	1.410+ 1	1.410+ 1	64 845	1	ELASTIC
	6-C -NAT	2	1.410+ 1	1.410+ 1	65 1639	1	ELASTIC
N	6-C -NAT	2	1.410+ 1	1.410+ 1	59 560	1	ELASTIC
N	6-C -NAT	2	1.410+ 1	1.410+ 1	66 3732	1	ELASTIC
	6-C -NAT	2	1.420+ 1	1.420+ 1	57 331	1	ELASTIC
	6-C -NAT	2	1.450+ 1	1.450+ 1	58 403	1	ELASTIC
	6-C -NAT	2	1.460+ 1	1.460+ 1	63 1661	1	ELASTIC
N	6-C -NAT	2	1.727+ 1	1.988+ 1	69 3708	3	ELASTIC
	6-C -NAT	3	1.000+ 0	4.070+ 0	55 122	2	NONELASTIC
	6-C -NAT	3	2.500+ 0	7.000+ 0	56 151	2	NONELASTIC
	6-C -NAT	3	4.100+ 0	4.100+ 0	55 296	1	NONELASTIC
	6-C -NAT	3	5.800+ 0	1.290+ 1	58 387	7	NONELASTIC
	6-C -NAT	3	1.270+ 1	1.410+ 1	55 130	2	NONELASTIC
	6-C -NAT	3	1.400+ 1	1.400+ 1	55 790	1	NONELASTIC
	6-C -NAT	3	1.400+ 1	1.400+ 1	58 490	1	NONELASTIC
	6-C -NAT	3	1.410+ 1	1.410+ 1	55 117	1	NONELASTIC
	6-C -NAT	3	1.410+ 1	1.410+ 1	64 845	1	NONELASTIC
	6-C -NAT	3	1.415+ 1	1.415+ 1	52 82	1	NONELASTIC
	6-C -NAT	3	1.420+ 1	1.420+ 1	57 24	1	NONELASTIC
	6-C -NAT	3	1.420+ 1	1.420+ 1	57 319	1	NONELASTIC
	6-C -NAT	3	1.450+ 1	1.450+ 1	56 200	1	NONELASTIC
	6-C -NAT	3	1.480+ 1	1.480+ 1	67 1656	1	NONELASTIC
	6-C -NAT	3	1.520+ 1	1.980+ 1	65 1228	2	NONELASTIC
N	6-C -NAT	3	1.530+ 1	1.530+ 1	68 2746	1	NONELASTIC
	6-C -NAT	3	1.727+ 1	1.988+ 1	69 3708	3	NONELASTIC
	6-C -NAT	3	2.100+ 1	2.920+ 1	58 356	3	NONELASTIC
	6-C -NAT	3	5.500+ 1	1.400+ 2	56 312	4	NONELASTIC
	6-C -NAT	3	3.790+ 2	1.731+ 3	71 3264	15	NONELASTIC
	6-C -NAT	3	1.400+ 3	1.400+ 3	55 2056	1	NONELASTIC
	6-C -NAT	5	3.390- 5	6.110- 5	65 786	2	TOTAL SCATTERING

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1- 22 ***

ZA = 6000

07/04/76

EUSIL-7600 REACTION INDEX 'ZA ORDERED)

ZA = 6030

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION	SPECTRUM	AVERAGED	CROSS	SECTION
6-C	-NAT	5	1.958+	0	2.098+	0	50 571	16	TOTAL SCATTERING		
6-C	-NAT	21	2.530-	0	2.530-	0	58 2810	1	ABSORPTION		
6-C	-NAT	21	2.530-	0	2.530-	0	58 2811	1	ABSORPTION		
6-C	-NAT	21	2.530-	0	2.530-	0	60 2809	7	ABSORPTION		
6-C	-NAT	21	2.530-	0	2.530-	0	63 2808	1	ABSORPTION		
6-C	-NAT	41	7.300-	0	7.300-	0	91 1584	1	BOUND ATOM		
6-C	-NAT	42	0.000+	0	0.000+	0	71 3176	1	FREE ATOM		
6-C	-NAT	43	7.300-	0	7.300-	0	51 1584	1	COHERENT SCATTERING		
6-C	-NAT	71	2.500-	0	2.500-	0	57 2869	1	ABSORPTION		
6-C	-NAT	71	2.500-	0	2.500-	0	57 2871	1	ABSORPTION		
6-C	-NAT	71	2.500-	0	2.500-	0	62 2878	1	ABSORPTION		
6-C	-NAT	73	2.530-	0	2.530-	0	70 2415	3	N.GAMMA		
6-C	-NAT	74	2.530-	0	2.530-	0	70 2415	1	N.X GAMMA		
6-C	-NAT	102	5.000-	2	2.250+	0	60 571	432	ELASTIC		
6-C	-NAT	102	5.000-	1	2.000+	0	64 886	8	ELASTIC		
6-C	-NAT	102	5.000-	1	2.000+	0	69 3523	243	ELASTIC		
6-C	-NAT	102	5.000-	1	2.000+	0	70 3205	427	ELASTIC		
6-C	-NAT	102	5.000-	1	2.000+	0	55 121	25	ELASTIC		
6-C	-NAT	102	7.070-	1	9.010-	1	61 1652	10	ELASTIC		
6-C	-NAT	102	1.450+	0	4.100+	0	58 322	107	ELASTIC		
6-C	-NAT	102	1.600+	0	1.660+	0	56 146	20	ELASTIC		
6-C	-NAT	102	1.400+	0	4.000+	0	75 3574	652	ELASTIC		
6-C	-NAT	102	2.330+	0	2.330+	0	67 2583	6	ELASTIC		
6-C	-NAT	102	2.400+	0	3.650+	0	54 488	81	ELASTIC		
6-C	-NAT	102	2.630+	0	2.630+	0	73 3847	8	ELASTIC		
6-C	-NAT	102	2.720+	0	2.720+	0	55 479	9	ELASTIC		
6-C	-NAT	102	2.850+	0	3.000+	0	59 818	56	ELASTIC		
6-C	-NAT	102	3.030+	0	6.940+	0	68 2693	474	ELASTIC		
6-C	-NAT	102	4.000+	0	4.000+	0	64 1843	17	ELASTIC		
6-C	-NAT	102	4.100+	0	3.550+	0	71 3514	32	ELASTIC		
6-C	-NAT	102	4.200+	0	7.500+	0	65 276	11	ELASTIC		
6-C	-NAT	102	4.300+	0	4.300+	0	55 1073	35	ELASTIC		
6-C	-NAT	102	4.600+	0	4.600+	0	58 3004	1	ELASTIC		
6-C	-NAT	102	5.000+	0	5.000+	0	58 328	265	ELASTIC		
6-C	-NAT	102	5.050+	0	5.580+	0	70 2669	8	ELASTIC		
6-C	-NAT	102	5.600+	0	5.600+	0	60 475	20	ELASTIC		
6-C	-NAT	102	6.000+	0	6.000+	0	62 1043	12	ELASTIC		
6-C	-NAT	102	6.040+	0	7.000+	0	59 544	36	ELASTIC		
6-C	-NAT	102	6.040+	0	5.640+	0	65 889	14	ELASTIC		
6-C	-NAT	102	7.000+	0	7.000+	0	56 151	7	ELASTIC		
6-C	-NAT	102	7.200+	0	9.000+	0	73 3583	106	ELASTIC		
6-C	-NAT	102	7.400+	0	9.500+	0	73 3488	24	ELASTIC		
6-C	-NAT	102	7.480+	0	7.480+	0	71 3247	13	ELASTIC		
6-C	-NAT	102	7.550+	0	7.550+	0	73 3614	6	ELASTIC		
6-C	-NAT	102	7.550+	0	9.500+	0	71 3257	8	ELASTIC		
6-C	-NAT	102	7.600+	0	7.600+	0	68 2011	12	ELASTIC		
6-C	-NAT	102	9.200+	0	9.200+	0	71 4041	1	ELASTIC		
6-C	-NAT	102	1.400+	1	1.400+	1	58 442	20	ELASTIC		
6-C	-NAT	102	1.400+	1	1.400+	1	61 1046	13	ELASTIC		
6-C	-NAT	102	1.400+	1	1.400+	1	62 1060	12	ELASTIC		
6-C	-NAT	102	1.400+	1	1.400+	1	64 1661	19	ELASTIC		

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

... 1- 23 ...

ZA = 6000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
6-C	-NAT 102		1.400+	1.400+	66 1659	18	ELASTIC
6-C	-NAT 102		1.410+	1.410+	59 556	11	ELASTIC
6-C	-NAT 102		1.410+	1.410+	64 845	27	ELASTIC
6-C	-NAT 102		1.410+	1.410+	65 1639	13	ELASTIC
6-C	-NAT 102		1.410+	1.410+	66 1556	8	ELASTIC
N	6-C -NAT 102		1.410+	1.410+	59 560	10	ELASTIC
6-C	-NAT 102		1.420+	1.420+	66 1658	10	ELASTIC
6-C	-NAT 102		1.460+	1.460+	63 1665	15	ELASTIC
6-C	-NAT 102		1.470+	1.470+	64 1660	15	ELASTIC
N	6-C -NAT 102		1.470+	2.028+	69 3708	54	ELASTIC
N	6-C -NAT 102		1.476+	1.476+	65 3697	6	ELASTIC
6-C	-NAT 102		1.480+	1.480+	67 367	16	ELASTIC
N	6-C -NAT 102		1.500+	1.500+	69 3694	12	ELASTIC
6-C	-NAT 102		1.730+	2.093+	69 950	148	ELASTIC
6-C	-NAT 102		2.800+	2.800+	61 233	1	ELASTIC
6-C	-NAT 102		9.700+	9.800+	60 1045	7	ELASTIC
6-C	-NAT 102		1.60+	1.360+	2 56 1047	13	ELASTIC
6-C	-NAT 102		3.515+	2.3515+	2 58 1655	9	ELASTIC
6-C	-NAT 105		8.300+	8.300+	3 62 1657	5	TOTAL SCATTERING
N	6-C -NAT 111		9.200+	9.200+	0 71 4041	1	N,N'
6-C	-NAT 111		1.476+	1.476+	65 3697	19	N,N'
N	6-C -NAT 111		1.500+	1.500+	69 3694	12	N,N'
N	6-C -NAT 124		4.782+	0 1.945+	73 3842	245	N,X GAMMA
N	6-C -NAT 124		1.400+	1.400+	74 3544	4	N,X GAMMA
6-C	-NAT 124		5.000+	1.480+	69 1019	2	N,X GAMMA
6-C	-NAT 403		1.410+	1.410+	53 2028	1	NONELASTIC
6-C	-NAT 406		1.420+	1.420+	59 905	1	NONELASTIC EMISSION
6-C	-NAT 452		3.058+	0 4.729+	0 66 1667	420	ELASTIC
6-C	-NAT 606		1.480+	1.480+	66 1042	11	NONELASTIC EMISSION
6-C	-NAT 606 80		1.400+	1.400+	63 917	5	NONELASTIC EMISSION
6-C	-NAT		1.410+	1.410+	65 1908	1	NUCLEAR TEMPERATURE
6-C	-12		6.000+	0 7.000+	0 59 544	3	N,N'
6-C	-12		6.010+	0 8.560+	0 69 3004	9	N,N'
6-C	-12		6.040+	0 6.040+	0 65 889	1	N,N'
6-C	-12		1.400+	1.400+	58 405	1	N,N'
6-C	-12		1.400+	1.400+	62 1060	1	N,N'
6-C	-12		1.400+	1.400+	64 1661	2	N,N'
6-C	-12		1.400+	1.400+	66 1659	3	N,N'
N	6-C -12		1.410+	1.410+	59 560	2	N,N'
6-C	-12		1.410+	1.410+	64 845	2	N,N'
6-C	-12		1.410+	1.410+	65 472	1	N,N'
6-C	-12		1.410+	1.410+	65 1639	3	N,N'
6-C	-12		1.410+	1.410+	65 1556	1	N,N'
N	6-C -12		1.410+	1.410+	66 3732	3	N,N'
N	6-C -12		1.500+	1.500+	69 3694	1	N,N'
6-C	-12		1.530+	1.530+	68 2746	2	N,N'
N	6-C -12		1.825+	1.988+	69 3708	2	N,N'
6-C	-12		1.400+	1.400+	55 295	1	N,N'
N	6-C -12		1.560+	1.600+	67 4029	2	N,N'
6-C	-12		1.410+	1.410+	58 7	1	N,2N
6-C	-12		2.210+	3.753+	61 808	8	N,2N
6-C	-12		2.300+	2.700+	52 83	3	N,2N

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 24 ***

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 601P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
6-C	-12	124	1.400+	1.400+	1	58 405	12 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	124	1.010+	1.010+	0	59 579	1 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	124	4.830+	9.770+	0	59 783	119 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	124	5.830+	7.500+	0	70 1497	34 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	124	1.302+	1.598+	1	64 1730	12 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	124	1.356+	1.473+	1	60 583	13 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	124	1.400+	1.400+	1	58 405	1 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	124	1.410+	1.410+	1	65 1890	7 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	124	1.470+	1.470+	1	54 1758	7 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	124	1.480+	1.480+	1	63 1728	1 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	124	1.484+	1.484+	1	62 1724	1 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	124	1.500+	1.500+	1	60 1720	2 N,X GAMMA ANGULAR DISTRIBUTION
6-C	-12	224 80	2.530+	2.530+	8	67 1698	3 N,X GAMMA ENERGY DISTRIBUTION
6-C	-12	304	1.470+	1.490+	1	74 4095	573 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
6-C	-12	311 80	1.410+	1.410+	1	65 1908	36 N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
6-C	-12	461 1	1.500+	1.500+	1	69 3694	2 N,N' LEGENDRE EXPANSIONS OF ANGULAR DIST.
6-C	-12		2.076+	3.670+	0	58 322	9 RESONANCE PARAMETERS
6-C	-12		2.079+	6.295+	0	70 3051	5 RESONANCE PARAMETERS
6-C	-12		2.080+	2.080+	0	53 2419	1 RESONANCE PARAMETERS
6-C	-12		2.080+	2.950+	0	51 72	3 RESONANCE PARAMETERS
6-C	-12		2.080+	2.080+	0	61 571	2 RESONANCE PARAMETERS
6-C	-12		2.950+	3.650+	0	54 468	6 RESONANCE PARAMETERS
6-C	-12		3.500+	1.210+	1	61 682	16 RESONANCE PARAMETERS
6-C	-12		3.600+	4.250+	0	66 1657	2 RESONANCE PARAMETERS
6-C	-12		4.935+	7.759+	0	69 3322	4 RESONANCE PARAMETERS
6-C	-13	1	1.120+	2.280+	1	61 678	210 TOTAL
6-C	-13	23	2.530+	2.530+	8	54 2815	1 N,GAMMA
6-C	-13	23	2.530+	2.530+	8	57 2814	1 N,GAMMA
6-C	-13	23	2.530+	2.530+	8	61 2813	1 N,GAMMA
6-C	-13	23	2.530+	2.530+	8	63 2812	1 N,GAMMA
6-C	-13	30	1.470+	1.470+	1	73 3996	1 N,T
6-C	-13	224 80	2.530+	2.530+	8	67 1898	2 N,X GAMMA ENERGY DISTRIBUTION
6-C	-13		1.520+	1.520+	1	71 3130	2 RESONANCE PARAMETERS
6-C	-13		1.530+	2.454+	0	61 678	8 RESONANCE PARAMETERS
6-H		51 9	1.900+	2.500+	8	66 3334	9 TOTAL SPECTRUM AVERAGED CROSS SECTION
6-H		51 9	1.900+	3.600+	8	61 780	9 TOTAL
6-H		51 9	1.900+	2.500+	8	66 3334	9 TOTAL SPECTRUM AVERAGED CROSS SECTION
610HBO		1	7.079+	2.113+	5	72 3874	140 TOTAL
7-N	-NAT	1	3.900+	1.800+	1	49 63	25 TOTAL
7-N	-NAT	1	3.000+	1.400+	1	59 855	39 TOTAL
7-N	-NAT	1	5.003+	4.000+	1	61 2565	89 TOTAL
7-N	-NAT	1	9.900+	8.499+	1	62 720	751 TOTAL
7-N	-NAT	1	1.500+	1.458+	0	51 2866	112 TOTAL
7-N	-NAT	1	1.580+	1.788+	0	52 78	213 TOTAL
7-N	-NAT	1	5.017+	8.974+	0	69 2516	689 TOTAL
7-N	-NAT	1	1.833+	3.979+	0	52 264	115 TOTAL
7-N	-NAT	1	1.910+	3.810+	0	53 29	31 TOTAL
7-N	-NAT	1	2.268+	1.500+	1	67 750	241 TOTAL
7-N	-NAT	1	2.700+	1.320+	1	54 504	61 TOTAL
7-N	-NAT	1	4.375+	8.585+	0	56 141	93 TOTAL
7-N	-NAT	1	4.990+	1.160+	1	61 546	6 TOTAL
7-N	-NAT	1	1.410+	1.410+	1	52 78	1 TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 26 ***

ZA = 7000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 7000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	7-N -NAT	1	1.410+ 1	1.410+ 1	72 3427	2	TOTAL
	7-N -NAT	1	1.412+ 1	1.412+ 1	52 61	1	TOTAL
N	7-N -NAT	1	1.470+ 1	1.470+ 1	71 3815	1	TOTAL
N	7-N -NAT	1	1.470+ 1	1.470+ 1	71 3850	1	TOTAL
	7-N -NAT	1	1.770+ 1	2.910+ 1	60 673	4	TOTAL
	7-N -NAT	1	3.634+ 1	5.890+ 1	72 3196	5	TOTAL
	7-N -NAT	1	4.200+ 1	4.200+ 1	50 281	1	TOTAL
	7-N -NAT	1	4.750+ 1	8.800+ 1	54 343	2	TOTAL
	7-N -NAT	1	8.820+ 1	1.609+ 2	66 1056	7	TOTAL
	7-N -NAT	1	9.000+ 1	9.000+ 1	49 286	1	TOTAL
	7-N -NAT	9	4.744- 1	2.504+ 1	70 2864	3547	TOTAL
N	7-N -NAT	2	4.340+ 0	8.560+ 0	74 3447	8	ELASTIC
	7-N -NAT	2	4.950+ 0	1.160+ 1	61 646	6	ELASTIC
	7-N -NAT	2	6.780+ 0	1.396+ 1	86 952	12	ELASTIC
	7-N -NAT	2	7.000+ 0	7.000+ 0	61 1646	1	ELASTIC
	7-N -NAT	2	1.410+ 1	1.410+ 1	54 110	1	ELASTIC
	7-N -NAT	2	1.410+ 1	1.410+ 1	63 761	1	ELASTIC
N	7-N -NAT	2	1.480+ 1	1.480+ 1	57 3661	1	ELASTIC
	7-N -NAT	3	1.415+ 1	1.415+ 1	52 82	1	NONELASTIC
	7-N -NAT	3	1.450+ 1	1.450+ 1	56 200	2	NONELASTIC
	7-N -NAT	3	1.520+ 1	1.980+ 1	65 1228	2	NONELASTIC
	7-N -NAT	11	1.410+ 1	1.410+ 1	54 110	1	N,N'
	7-N -NAT	12	1.241+ 1	1.798+ 1	59 602	6	N,2N
	7-N -NAT	12	1.410+ 1	1.410+ 1	58 7	1	N,2N
	7-N -NAT	12	1.413+ 1	1.413+ 1	62 108	1	N,2N
	7-N -NAT	12	1.440+ 1	1.440+ 1	61 676	1	N,2N
	7-N -NAT	24	1.480+ 1	1.480+ 1	64 1730	1	N,X GAMMA
	7-N -NAT	24	2.530+ 0	1.469+ 1	69 2512	109	N,X GAMMA
	7-N -NAT	24	3.950+ 0	3.950+ 0	56 140	1	N,X GAMMA
	7-N -NAT	24	1.400+ 1	1.400+ 1	68 2997	4	N,X GAMMA
	7-N -NAT	24	1.480+ 1	1.480+ 1	64 1730	16	N,X GAMMA
	7-N -NAT	24	1.480+ 1	1.480+ 1	64 1730	1	N,X GAMMA
	7-N -NAT	26	1.480+ 1	2.150+ 0	50 62	185	N,P
	7-N -NAT	34	1.005+ 0	2.110+ 0	50 62	70	N,ALPHA
	7-N -NAT	34	1.410+ 1	1.410+ 1	52 79	1	N,ALPHA
	7-N -NAT	41	7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
	7-N -NAT	42	1.500- 5	1.500- 5	49 53	1	FREE ATOM
N	7-N -NAT	43	6.463- 10	6.678- 9	65 3396	40	COHERENT SCATTERING
	7-N -NAT	43	2.530- 8	2.530- 8	51 2817	2	COHERENT SCATTERING
	7-N -NAT	43	2.530- 8	2.530- 8	51 2818	1	COHERENT SCATTERING
	7-N -NAT	43	2.530- 8	2.530- 8	52 2816	1	COHERENT SCATTERING
	7-N -NAT	43	2.530- 8	2.530- 8	64 2654	1	COHERENT SCATTERING
	7-N -NAT	43	7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING
	7-N -NAT	71	2.500- 8	2.500- 8	50 1523	1	ABSORPTION
	7-N -NAT	71	2.500- 8	2.500- 8	51 882	1	ABSORPTION
	7-N -NAT	71	2.500- 8	2.500- 8	63 1670	1	ABSORPTION
	7-N -NAT	74	2.530- 8	2.530- 8	70 2415	36	N,GAMMA
	7-N -NAT	74	2.530- 8	2.530- 8	70 2415	1	N,X GAMMA
	7-N -NAT	102	9.700- 1	2.360+ 0	55 480	323	ELASTIC
	7-N -NAT	102	1.605+ 0	3.207+ 0	66 3008	216	ELASTIC
	7-N -NAT	102	4.990+ 0	1.160+ 1	61 646	62	ELASTIC
	7-N -NAT	102	7.000+ 0	7.000+ 0	61 1646	10	ELASTIC

SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 ANGULAR DISTRIBUTION
 ANGULAR DISTRIBUTION
 ANGULAR DISTRIBUTION
 ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1- 27 ***

ZA = 7000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 7000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	7-N -NAT 102		7.400+ 0	9.500+ 0	73 3488	24	ELASTIC ANGULAR DISTRIBUTION
	7-N -NAT 102		7.550+ 0	9.500+ 0	71 3257	8	ELASTIC ANGULAR DISTRIBUTION
	7-N -NAT 102		1.400+ 1	1.400+ 1	61 1046	13	ELASTIC ANGULAR DISTRIBUTION
	7-N -NAT 102		1.400+ 1	1.400+ 1	63 761	21	ELASTIC ANGULAR DISTRIBUTION
	7-N -NAT 102		1.400+ 1	1.400+ 1	66 1669	22	ELASTIC ANGULAR DISTRIBUTION
	7-N -NAT 102		1.360+ 2	1.360+ 2	56 1047	5	ELASTIC ANGULAR DISTRIBUTION
N	7-N -NAT 124 7		2.500+ 0	1.850+ 1	73 3584	2034	N,X GAMMA ANGULAR DISTRIBUTION
	7-N -NAT 124 7		4.200+ 0	7.300+ 0	59 1719	2	N,X GAMMA ANGULAR DISTRIBUTION
	7-N -NAT 124 7		4.700+ 0	8.100+ 0	59 783	170	N,X GAMMA ANGULAR DISTRIBUTION
	7-N -NAT 124 7		5.800+ 0	8.550+ 0	69 2513	146	N,X GAMMA ANGULAR DISTRIBUTION
	7-N -NAT 124 7		1.470+ 1	1.470+ 1	64 1756	9	N,X GAMMA ANGULAR DISTRIBUTION
	7-N -NAT 124 7		1.480+ 1	1.480+ 1	63 1728	19	N,X GAMMA ANGULAR DISTRIBUTION
	7-N -NAT 124 7		1.480+ 1	1.480+ 1	64 1730	63	N,X GAMMA ANGULAR DISTRIBUTION
	7-N -NAT 124 7		1.480+ 1	1.480+ 1	68 1019	12	N,X GAMMA ANGULAR DISTRIBUTION
	7-N -NAT 124 7		1.480+ 1	1.480+ 1	69 1019	12	N,X GAMMA ANGULAR DISTRIBUTION
C	7-N -NAT 124 10		7.300+ 0	7.300+ 0	59 783	2	N,X GAMMA ANGULAR DISTRIBUTION
	7-N -NAT 124 10		7.500+ 0	7.500+ 0	59 1719	1	N,X GAMMA ANGULAR DISTRIBUTION
	7-N -NAT 124 10		1.480+ 1	1.480+ 1	64 1730	1	N,X GAMMA ANGULAR DISTRIBUTION
	7-N -NAT 124 10		1.480+ 1	1.480+ 1	68 1019	5	N,X GAMMA ANGULAR DISTRIBUTION
C	7-N -NAT 124 10		1.480+ 1	1.480+ 1	69 1019	8	N,X GAMMA ANGULAR DISTRIBUTION
C	7-N -NAT 521		4.900- 7	1.500+ 1	57 1054	1	ABSORPTION RESONANCE INTEGRAL
	7-N -NAT 606 80		1.400+ 1	1.400+ 1	63 917	6	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
	7-N -NAT 624		4.500+ 0	8.500+ 0	64 1671	28	N,X GAMMA ANGULAR DIST.-INTEGRAL E1-E2
N	7-N -14 3		5.900+ 0	6.900+ 0	72 3717	2	NONELASTIC
N	7-N -14 11 1		6.010+ 0	8.560+ 0	74 3447	17	N,N'
	7-N -14 11 7		3.390+ 0	5.060+ 0	58 422	13	N,N'
	7-N -14 12		1.180+ 1	3.750+ 1	61 808	12	N,2N
	7-N -14 12		1.230+ 1	1.230+ 1	67 2009	1	N,2N
	7-N -14 12		1.320+ 1	1.940+ 1	64 843	9	N,2N
	7-N -14 12		1.385+ 1	1.535+ 1	60 1720	6	N,2N
	7-N -14 12		1.400+ 1	1.400+ 1	54 453	1	N,2N
	7-N -14 12		1.410+ 1	1.410+ 1	65 1676	1	N,2N
	7-N -14 12		1.410+ 1	1.410+ 1	65 2140	1	N,2N
	7-N -14 12		1.450+ 1	1.450+ 1	53 27	1	N,2N
	7-N -14 12		1.460+ 1	1.460+ 1	65 1672	1	N,2N
	7-N -14 12		1.470+ 1	1.470+ 1	67 1921	1	N,2N
N	7-N -14 12		1.470+ 1	1.470+ 1	70 3760	1	N,2N
	7-N -14 12		1.480+ 1	1.480+ 1	65 3379	1	N,2N
N	7-N -14 12 3		1.460+ 1	1.460+ 1	73 3998	1	N,2N
N	7-N -14 12 80		1.356+ 1	1.471+ 1	70 1672	24	N,2N
	7-N -14 14		1.470+ 1	1.470+ 1	66 1675	1	N,N'P
	7-N -14 23		9.500- 2	9.500- 2	59 579	1	N,GAMMA
	7-N -14 25		4.015+ 0	8.198+ 0	59 523	114	N,X CHARGED PARTICLE
	7-N -14 26		2.530- 8	2.530- 8	51 2820	1	N,P
	7-N -14 26		2.530- 8	2.530- 8	61 2819	1	N,P
	7-N -14 26		1.470+ 1	1.470+ 1	66 1675	1	N,P
	7-N -14 26 1		2.900- 2	3.500- 1	59 519	13	N,P
	7-N -14 26 1		1.285+ 0	4.130+ 0	59 523	131	N,P
N	7-N -14 26 1		2.010+ 0	3.670+ 0	51 801	28	N,P
	7-N -14 30 1		5.366+ 0	8.198+ 0	59 523	65	N,T
	7-N -14 30 1		5.650+ 0	6.370+ 0	66 2896	14	N,T
	7-N -14 30 1		1.570+ 1	1.570+ 1	67 1942	1	N,T

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1- 28 ***

ZA = 7014

07/04/76

EC5IL-7600 REACTION INDEX (ZA ORDERED)

ZA = 7014

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	7-N -14	34	1	1.285+ 0	8.198+ 0	59 523	430	N, ALPHA
N	7-N -14	34	1	1.960+ 0	3.670+ 0	51 801	36	N, ALPHA
N	7-N -14	34	1	2.480+ 0	6.370+ 0	66 2896	92	N, ALPHA
N	7-N -14	34	1	1.410+ 1	1.410+ 1	68 3292	4	N, ALPHA
N	7-N -14	34	1	1.410+ 1	1.410+ 1	73 3942	2	N, ALPHA
N	7-N -14	34	8	1.410+ 1	1.410+ 1	68 3292	1	N, ALPHA
N	7-N -14	37	1	1.410+ 1	1.570+ 1	67 1943	2	N, 2-ALPHA
N	7-N -14	73		2.500- 8	2.500- 8	57 2800	1	N, GAMMA
N	7-N -14	73		2.500- 8	2.500- 8	83 2659	1	N, GAMMA
N	7-N -14	76		2.500- 8	2.500- 8	49 2796	1	N, P
N	7-N -14	76		2.500- 8	2.500- 8	49 2821	1	N, P
N	7-N -14	102		4.340+ 0	8.560+ 0	74 3447	136	ELASTIC
N	7-N -14	102		6.250+ 0	9.290+ 0	74 3541	22	ELASTIC
N	7-N -14	102		6.780+ 0	1.396+ 1	68 992	108	ELASTIC
N	7-N -14	102		1.410+ 1	1.410+ 1	65 1674	1	ELASTIC
N	7-N -14	102		1.410+ 1	1.410+ 1	71 3739	17	ELASTIC
N	7-N -14	102		1.480+ 1	1.480+ 1	67 3661	22	ELASTIC
N	7-N -14	111		6.250+ 0	9.290+ 0	74 3541	40	N, N'
N	7-N -14	111	1	6.010+ 0	8.550+ 0	74 3447	93	N, N'
N	7-N -14	111	1	1.400+ 1	1.400+ 1	61 1668	13	N, N'
N	7-N -14	111	1	1.400+ 1	1.400+ 1	63 761	25	N, N'
N	7-N -14	111	1	1.410+ 1	1.410+ 1	65 1674	2	N, N'
N	7-N -14	111	1	1.410+ 1	1.410+ 1	71 3739	40	N, N'
N	7-N -14	111	7	1.510+ 1	1.510+ 1	71 3713	9	N, N'
N	7-N -14	111	8	1.410+ 1	1.410+ 1	71 3739	45	N, N'
N	7-N -14	124	7	4.200+ 0	6.900+ 0	72 3717	19	N, X GAMMA
N	7-N -14	124	7	8.000+ 0	8.000+ 0	59 1752	6	N, X GAMMA
N	7-N -14	124	7	8.600+ 0	1.100+ 1	70 2513	206	N, X GAMMA
N	7-N -14	124	7	1.510+ 1	1.510+ 1	71 3713	1	N, X GAMMA
N	7-N -14	124	87	6.900+ 0	6.900+ 0	72 3717	99	N, X GAMMA
N	7-N -14	126	7	1.510+ 1	1.510+ 1	71 3713	2	N, P
N	7-N -14	128	1	6.906+ 0	8.587+ 0	61 646	313	N, D
N	7-N -14	128	1	1.410+ 1	1.410+ 1	57 389	14	N, D
N	7-N -14	128	1	1.410+ 1	1.410+ 1	67 1673	15	N, D
N	7-N -14	128	1	1.440+ 1	1.440+ 1	68 2008	9	N, D
N	7-N -14	128	7	1.510+ 1	1.510+ 1	71 3713	2	N, D
N	7-N -14	130	1	1.410+ 1	1.410+ 1	67 1673	14	N, T
N	7-N -14	130	1	1.440+ 1	1.440+ 1	67 1929	17	N, T
N	7-N -14	134		1.470+ 1	1.470+ 1	67 1672	9	N, ALPHA
N	7-N -14	134	1	1.410+ 1	1.410+ 1	68 1933	27	N, ALPHA
N	7-N -14	134	1	1.410+ 1	1.410+ 1	68 3292	72	N, ALPHA
N	7-N -14	134	1	1.410+ 1	1.410+ 1	73 3942	18	N, ALPHA
N	7-N -14	134	8	1.410+ 1	1.410+ 1	68 3292	18	N, ALPHA
N	7-N -14	134	81	1.410+ 1	1.410+ 1	68 3358	32	N, ALPHA
N	7-N -14	224	80	2.530- 8	2.530- 8	67 1899	23	N, X GAMMA
N	7-N -14	234		1.470+ 1	1.470+ 1	67 1672	14	N, ALPHA
N	7-N -14	884		1.470+ 1	1.470+ 1	67 1672	1	N, ALPHA
N	7-N -14			4.300- 1	1.779+ 0	52 76	24	RESONANCE PARAMETERS
N	7-N -14			4.990- 1	1.800+ 0	50 62	5	RESONANCE PARAMETERS
N	7-N -14			5.500- 1	1.450+ 0	46 172	3	RESONANCE PARAMETERS
N	7-N -14			1.120+ 0	2.250+ 0	50 480	11	RESONANCE PARAMETERS
N	7-N -14			1.350+ 0	8.000+ 0	59 523	50	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 29 ***

ZA = 7014

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 7014

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
7-N -14			1.595+ 0	3.200+ 0	66 3008	9	RESONANCE PARAMETERS
7-N -14			2.230+ 0	3.570+ 0	70 3088	8	RESONANCE PARAMETERS
7-N -15	1		4.500+ 1	2.241+ 0	64 415	109	TOTAL
7-N -15	1		8.955- 1	3.199+ 1	70 3328	2572	TOTAL
7-N -15	1		1.905+ 0	3.460+ 0	62 248	64	TOTAL
7-N -15	1		2.800+ 0	3.610+ 0	59 621	28	TOTAL
7-N -15	1		2.800+ 0	3.620+ 0	56 33	25	TOTAL
7-N -15	2		4.730- 1	1.993+ 0	64 852	47	ELASTIC
7-N -15	26		1.480+ 1	1.480+ 1	66 2142	1	N,P
C 7-N -15	102		1.940+ 0	3.320+ 0	62 248	457	ELASTIC
7-N -15	128	1	1.410+ 1	1.480+ 1	67 1673	14	N,D
7-N -15			9.210- 1	1.210+ 1	71 2093	69	RESONANCE PARAMETERS
7-N -15			9.300- 1	2.020+ 0	64 2422	19	RESONANCE PARAMETERS
7-N -15			1.950+ 0	3.010+ 0	62 248	20	RESONANCE PARAMETERS
7-N -15			2.950+ 0	2.960+ 0	59 621	3	RESONANCE PARAMETERS
7-N -15			3.480+ 0	6.250+ 0	66 2779	26	RESONANCE PARAMETERS
N2 GAS	1		3.100- 9	5.500- 6	49 83	38	TOTAL
8-O -NAT	1		8.100- 10	3.240- 9	55 2057	12	TOTAL
8-O -NAT	1		2.700- 6	5.200- 5	49 2035	11	TOTAL
8-O -NAT	1		1.500- 5	1.310- 1	49 83	15	TOTAL
8-O -NAT	1		1.150- 4	3.000- 4	49 844	2	TOTAL
8-O -NAT	1		2.000- 2	2.350- 1	49 49	13	TOTAL
N 8-O -NAT	1		2.350- 2	2.350- 2	75 3897	1	TOTAL
N 8-O -NAT	1		1.874- 1	4.867+ 1	72 3458	3688	TOTAL
8-O -NAT	1		2.140- 1	6.840- 1	55 123	34	TOTAL
8-O -NAT	1		2.600- 1	3.800+ 0	50 311	13	TOTAL
8-O -NAT	1		3.500- 1	6.000+ 0	46 176	15	TOTAL
8-O -NAT	1		4.633- 1	4.010+ 1	68 2517	5394	TOTAL
8-O -NAT	1		4.987- 1	2.046+ 1	70 3168	3449	TOTAL
8-O -NAT	1		6.100- 1	1.430+ 0	58 685	73	TOTAL
8-O -NAT	1		6.150- 1	1.420+ 0	50 83	70	TOTAL
8-O -NAT	1		1.240+ 0	3.470+ 0	51 72	162	TOTAL
8-O -NAT	1		2.258+ 0	1.486+ 1	67 750	243	TOTAL
8-O -NAT	1		2.370+ 0	2.370+ 0	70 3224	1	TOTAL
8-O -NAT	1		2.460+ 0	2.880+ 0	39 42	2	TOTAL
8-O -NAT	1		2.573+ 0	4.808+ 0	50 64	53	TOTAL
8-O -NAT	1		2.900+ 0	1.308+ 1	54 504	52	TOTAL
N 8-O -NAT	1		3.320+ 0	5.210+ 0	65 3686	88	TOTAL
8-O -NAT	1		3.370+ 0	5.070+ 0	60 643	91	TOTAL
8-O -NAT	1		3.371+ 0	1.591+ 1	61 682	373	TOTAL
8-O -NAT	1		3.410+ 0	4.450+ 0	57 306	47	TOTAL
8-O -NAT	1		3.750+ 0	7.260+ 0	53 427	113	TOTAL
8-O -NAT	1		4.350+ 0	8.585+ 0	56 141	110	TOTAL
8-O -NAT	1		4.990+ 0	1.160+ 1	61 646	11	TOTAL
8-O -NAT	1		1.400+ 1	1.400+ 1	52 81	1	TOTAL
8-C -NAT	1		1.400+ 1	1.400+ 1	52 207	1	TOTAL
8-O -NAT	1		1.410+ 1	1.410+ 1	52 78	1	TOTAL
8-O -NAT	1		1.410+ 1	1.800+ 1	54 107	8	TOTAL
N 8-O -NAT	1		1.410+ 1	1.410+ 1	72 3427	1	TOTAL
N 8-O -NAT	1		1.470+ 1	1.470+ 1	71 3815	1	TOTAL
8-O -NAT	1		1.800+ 1	2.760+ 1	60 673	4	TOTAL
8-O -NAT	1		2.540+ 1	2.540+ 1	45 307	1	TOTAL

ANGULAR DISTRIBUTION
ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1- 30 ***

ZA = 8000

[illegible]

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 8000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
N	8-0	-NAT	102	7.400+ 0	9.500+ 0	73 3488	24 ELASTIC	ANGULAR DISTRIBUTION
	9-0	-NAT	102	7.550+ 0	9.600+ 0	71 3257	8 ELASTIC	ANGULAR DISTRIBUTION
	8-0	-NAT	102	1.400+ 1	1.400+ 1	63 761	20 ELASTIC	ANGULAR DISTRIBUTION
	8-0	-NAT	102	1.400+ 1	1.400+ 1	67 1679	22 ELASTIC	ANGULAR DISTRIBUTION
	8-0	-NAT	102	1.410+ 1	1.410+ 1	53 289	19 ELASTIC	ANGULAR DISTRIBUTION
	8-0	-NAT	102	1.360+ 2	1.360+ 2	56 1047	5 ELASTIC	ANGULAR DISTRIBUTION
	8-0	-NAT	124	7 6.400+ 0	9.950+ 0	59 783	125 N,X GAMMA	ANGULAR DISTRIBUTION
	8-0	-NAT	124	7 1.400+ 1	1.400+ 1	60 1704	2 N,X GAMMA	ANGULAR DISTRIBUTION
	8-0	-NAT	124	7 1.470+ 1	1.470+ 1	64 1758	14 N,X GAMMA	ANGULAR DISTRIBUTION
	8-0	-NAT	124	7 1.480+ 1	1.480+ 1	64 1730	58 N,X GAMMA	ANGULAR DISTRIBUTION
	8-0	-NAT	124	7 1.480+ 1	1.480+ 1	68 1019	9 N,X GAMMA	ANGULAR DISTRIBUTION
	8-0	-NAT	124	7 1.480+ 1	1.480+ 1	63 1728	14 N,X GAMMA	ANGULAR DISTRIBUTION
N	8-0	-NAT	124	7 1.480+ 1	1.480+ 1	62 1725	3 N,X GAMMA	ANGULAR DISTRIBUTION
	8-0	-NAT	124	7 1.484+ 1	1.484+ 1	63 1728	1 N,X GAMMA	ANGULAR DISTRIBUTION
	8-0	-NAT	124	10 1.480+ 1	1.480+ 1	64 1730	1 N,X GAMMA	ANGULAR DISTRIBUTION
	8-0	-NAT	124	10 1.480+ 1	1.480+ 1	68 1019	2 N,X GAMMA	ANGULAR DISTRIBUTION
	8-0	-NAT	124	87 1.480+ 1	1.480+ 1	68 1019	7 N,X GAMMA	ANGULAR DISTRIBUTION
	8-0	-NAT	606	80 1.400+ 1	1.400+ 1	63 917	5 NONELASTIC EMISSION	ANGULAR DIST.-INTEGRAL E1-E2
	8-0	-NAT	624	7.500+ 0	8.500+ 0	64 1671	22 N,X GAMMA	ANGULAR DIST.-INTEGRAL E1-E2
N	8-0	-16	1	5.983+ 0	4.345+ 0	71 2290	735 TOTAL	
	8-0	-16	1	2.370+ 0	2.370+ 0	70 3224	1 TOTAL	
	8-0	-16	11	1.410+ 1	1.410+ 1	53 289	1 N,N'	
N	8-0	-16	11	1.460+ 1	1.460+ 1	69 4078	4 N,N'	
N	8-0	-16	11	1.510+ 1	1.510+ 1	71 3713	1 N,N'	
	8-0	-16	11	7.540+ 0	8.560+ 0	72 3222	3 N,N'	
	8-0	-16	11	1.410+ 1	1.410+ 1	66 1681	3 N,N'	
N	8-0	-16	11	7 1.460+ 1	1.460+ 1	69 4078	2 N,N'	
N	8-0	-16	11	10 1.460+ 1	1.460+ 1	69 4078	1 N,N'	
	8-0	-16	12	1.780+ 1	3.750+ 1	61 808	9 N,2N	
	8-0	-16	24	7 1.400+ 1	1.400+ 1	61 850	5 N,X GAMMA	
	8-0	-16	26	1.000+ 1	1.795+ 1	54 102	12 N,P	
	8-0	-16	26	1.108+ 1	1.904+ 1	62 700	27 N,P	
	8-0	-16	26	1.261+ 1	1.630+ 1	61 671	22 N,P	
	8-0	-16	26	1.335+ 1	1.665+ 1	66 1682	15 N,P	
	8-0	-16	26	1.410+ 1	1.410+ 1	52 79	1 N,P	
	8-0	-16	26	1.440+ 1	1.440+ 1	61 542	1 N,P	
	8-0	-16	26	1.450+ 1	1.450+ 1	53 27	1 N,P	
	8-0	-16	26	1.470+ 1	1.470+ 1	60 695	1 N,P	
	8-0	-16	26	1.480+ 1	1.480+ 1	66 907	1 N,P	
	8-0	-16	26	1.480+ 1	1.480+ 1	66 2142	1 N,P	
	8-0	-16	28	1.410+ 1	1.410+ 1	52 79	1 N,D	
	8-0	-16	34	3.916+ 0	6.489+ 0	67 2601	406 N,ALPHA	
	8-0	-16	34	3.990+ 0	4.220+ 0	55 31	12 N,ALPHA	
	8-0	-16	34	1.270+ 1	1.660+ 1	63 417	8 N,ALPHA	
	8-0	-16	34	1.410+ 1	1.410+ 1	52 79	1 N,ALPHA	
	8-0	-16	34	1 1.410+ 1	1.410+ 1	66 1920	1 N,ALPHA	
	8-0	-16	34	1 1.410+ 1	1.410+ 1	67 2365	3 N,ALPHA	
N	8-0	-16	34	1 1.410+ 1	1.410+ 1	73 3942	1 N,ALPHA	
	8-0	-16	62	2.000+ 0	2.000+ 0	58 2990	1 N,2N	TRIM AVERAGED CROSS SECTION
	8-0	-16	73	2.500+ 8	2.500+ 8	63 2659	1 N,GAMMA	TRIM AVERAGED CROSS SECTION
	8-0	-16	102	3.350+ 0	3.900+ 0	64 513	36 ELASTIC	ANGULAR DISTRIBUTION
N	8-0	-16	102	5.050+ 0	6.250+ 0	74 3541	28 ELASTIC	ANGULAR DISTRIBUTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 32 ***

ZA = 8016

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 8016

TA	GET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	0-0	-16	102	1.410+ 1	1.410+ 1	66 1681	11	ELASTIC
N	0-0	-16	102	1.460+ 1	1.460+ 1	67 3661	15	ELASTIC
C	0-0	-16	111	1 7.540+ 0	8.560+ 0	72 3222	26	N,N'
C	0-0	-16	111	1 1.400+ 1	1.400+ 1	63 761	48	N,N'
C	0-0	-16	111	1 1.410+ 1	1.410+ 1	66 1681	41	N,N'
N	0-0	-16	111	7 6.580+ 0	8.200+ 0	70 3710	32	N,N'
N	0-0	-16	111	7 1.510+ 1	1.510+ 1	71 3713	4	N,N'
N	0-0	-16	111	87 6.820+ 0	7.820+ 0	70 3710	19	N,N'
C	0-0	-16	124	7 6.720+ 0	7.100+ 0	70 3201	127	N,X GAMMA
C	0-0	-16	124	7 7.500+ 0	7.500+ 0	70 1497	11	N,X GAMMA
C	0-0	-16	124	7 1.410+ 1	1.410+ 1	65 1890	7	N,X GAMMA
C	0-0	-16	124	7 1.500+ 1	1.500+ 1	60 1720	1	N,X GAMMA
C	0-0	-16	126	1 1.440+ 1	1.440+ 1	64 1917	18	N,P
C	0-0	-16	128	1 1.440+ 1	1.440+ 1	65 1636	13	N,D
N	0-0	-16	128	1 1.440+ 1	1.440+ 1	67 2690	1	N,D
N	0-0	-16	134	1 1.440+ 1	1.440+ 1	61 1680	5	N,ALPHA
N	0-0	-16	134	1 1.410+ 1	1.410+ 1	66 1920	9	N,ALPHA
N	0-0	-16	134	1 1.410+ 1	1.410+ 1	67 2365	51	N,ALPHA
N	0-0	-16	134	1 1.410+ 1	1.410+ 1	73 3942	9	N,ALPHA
N	0-0	-16	134	7 1.510+ 1	1.510+ 1	71 3713	2	N,ALPHA
N	0-0	-16	134	8 1.410+ 1	1.410+ 1	73 3942	6	N,ALPHA
N	0-0	-16	134	81 1.360+ 1	1.410+ 1	65 3664	15	N,ALPHA
N	0-0	-16	134	88 1.360+ 1	1.410+ 1	65 3664	15	N,ALPHA
N	0-0	-16	452	3.066+ 0	4.730+ 0	66 1667	744	ELASTIC
N	0-0	-16		4.260+ 0	4.260+ 0	71 3130	2	RESONANCE PARAMETERS
N	0-0	-16		4.350+ 0	1.311+ 0	53 2408	3	RESONANCE PARAMETERS
N	0-0	-16		4.400+ 0	2.370+ 0	51 72	15	RESONANCE PARAMETERS
N	0-0	-16		4.420+ 0	4.420+ 0	55 123	3	RESONANCE PARAMETERS
N	0-0	-16		1.000+ 0	1.000+ 0	58 489	1	RESONANCE PARAMETERS
N	0-0	-16		1.000+ 0	1.312+ 0	58 685	4	RESONANCE PARAMETERS
N	0-0	-16		1.651+ 0	3.441+ 0	70 3087	22	RESONANCE PARAMETERS
C	0-0	-16		1.900+ 0	4.400+ 0	52 2417	12	RESONANCE PARAMETERS
C	0-0	-16		3.290+ 0	4.175+ 0	66 1667	9	RESONANCE PARAMETERS
C	0-0	-16		3.350+ 0	4.320+ 0	67 3006	14	RESONANCE PARAMETERS
C	0-0	-16		3.600+ 0	1.150+ 0	61 682	32	RESONANCE PARAMETERS
C	0-0	-16		3.765+ 0	3.765+ 0	71 2290	2	RESONANCE PARAMETERS
C	0-0	-16		3.765+ 0	7.200+ 0	69 3322	6	RESONANCE PARAMETERS
C	0-0	-16		3.770+ 0	3.770+ 0	64 2416	1	RESONANCE PARAMETERS
C	0-0	-16		4.050+ 0	6.110+ 0	67 2601	39	RESONANCE PARAMETERS
C	0-0	-17	26	1 1.410+ 1	1.410+ 1	70 3165	1	N,P
C	0-0	-17	34	2 2.530+ 0	2.530+ 0	56 2822	1	N,ALPHA
C	0-0	-17	34	2 2.530+ 0	2.530+ 0	61 2819	1	N,ALPHA
C	0-0	-17	76	2 2.000+ 0	2.000+ 0	64 1918	1	N,P
C	0-0	-17	84	2 2.500+ 0	2.500+ 0	47 2927	1	N,ALPHA
N	0-0	-17		1 1.410+ 1	1.410+ 1	72 3960	1	NUCLEAR TEMPERATURE
N	0-0	-18	1	1 1.450+ 1	2.466+ 0	63 382	231	TOTAL
N	0-0	-18	1	2 2.450+ 0	1.900+ 1	64 329	138	TOTAL
N	0-0	-18	1	2 2.820+ 0	4.170+ 0	59 621	43	TOTAL
N	0-0	-18	1	8 580+ 0	1.159+ 1	62 452	4	TOTAL
N	0-0	-18	11	3 2.250+ 0	3.810+ 0	64 1903	4	N,N'
N	0-0	-18	23	2 2.530+ 0	2.530+ 0	47 888	1	N,GAMMA
N	0-0	-18	23	2 2.530+ 0	2.530+ 0	71 3913	1	N,GAMMA

LEGENDRE EXPANSIONS OF ANGULAR DIST.

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1- 33 ***

ZA = 8018

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 8018

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
8-0	-18	23	2.058-1	9.796-1	68 2373	45	N,GAMMA	
8-0	-18	78	2.000+0	2.000+0	64 1918	1	N,D	
8-0	-18	105	2.930+0	4.150+0	64 1903	131	TOTAL SCATTERING	
8-0	-18		6.610-1	2.445+0	65 382	10	RESONANCE PARAMETERS	
8-0	-18		3.050+0	4.000+0	59 621	12	RESONANCE PARAMETERS	
02 GAS		1	3.100-9	9.800-6	49 53	51	TOTAL	
9-F	-19	1	1.150-4	3.000-4	49 844	2	TOTAL	
9-F	-19	1	5.420-4	1.973-1	74 3580	324	TOTAL	
9-F	-19	1	1.000-3	3.005-1	64 699	651	TOTAL	
9-F	-19	1	1.500-3	1.250-1	61 736	108	TOTAL	
9-F	-19	1	1.000-2	6.900-1	50 63	51	TOTAL	
9-F	-19	1	4.600-2	2.000-1	84 827	198	TOTAL	
9-F	-19	1	1.001-1	6.489-1	67 885	548	TOTAL	
9-F	-19	1	1.500-1	1.700-1	54 225	4	TOTAL	
9-F	-19	1	4.000-1	4.870+0	58 322	229	TOTAL	
9-F	-19	1	4.670-1	1.140+0	65 1683	163	TOTAL	
9-F	-19	1	2.254+0	1.494+1	67 750	244	TOTAL	
9-F	-19	1	2.606+0	2.850+0	65 1562	9	TOTAL	
9-F	-19	1	2.760+0	1.320+1	54 504	30	TOTAL	
9-F	-19	1	3.370+0	5.070+0	60 643	97	TOTAL	
9-F	-19	1	3.780+0	8.080+0	57 153	41	TOTAL	
9-F	-19	1	7.010+0	1.431+1	57 22	7	TOTAL	
9-F	-19	1	1.373+1	1.460+1	72 3102	21	TOTAL	
9-F	-19	1	1.400+1	1.400+1	52 81	1	TOTAL	
9-F	-19	1	1.450+1	1.450+1	70 3300	1	TOTAL	
9-F	-19	1	1.770+1	2.910+1	60 673	4	TOTAL	
9-F	-19	1	1.900+1	1.900+1	53 274	1	TOTAL	
9-F	-19	1	4.200+1	4.200+1	50 281	1	TOTAL	
9-F	-19	2	5.650+1	5.650+1	60 686	1	ELASTIC	
9-F	-19	3	1.420+1	1.420+1	57 319	1	NONELASTIC	
9-F	-19	5	2.000+1	2.200+0	64 3058	27	TOTAL SCATTERING	
9-F	-19	11	1.400-1	1.240+0	70 3386	33	N,N'	
9-F	-19	11	2.800+0	2.800+0	69 3400	1	N,N'	
9-F	-19	11	2.400-1	1.690+0	71 3519	30	N,N'	
9-F	-19	11	5.650-1	5.650-1	60 686	2	N,N'	
9-F	-19	11	7	1.400-1	3.140+0	70 3386	75	N,N'
9-F	-19	12	1.180+1	3.400+1	61 808	11	N,2N	
9-F	-19	12	1.235+1	2.090+1	65 449	15	N,2N	
9-F	-19	12	1.240+1	2.100+1	61 710	8	N,2N	
9-F	-19	12	1.260+1	1.790+1	63 340	12	N,2N	
9-F	-19	12	1.260+1	1.960+1	65 843	10	N,2N	
9-F	-19	12	1.270+1	1.939+1	67 1686	10	N,2N	
9-F	-19	12	1.320+1	1.535+1	60 1720	8	N,2N	
9-F	-19	12	1.351+1	1.481+1	71 3742	5	N,2N	
9-F	-19	12	1.400+1	1.400+1	67 2009	1	N,2N	
9-F	-19	12	1.410+1	1.410+1	58 7	1	N,2N	
9-F	-19	12	1.413+1	1.413+1	62 108	1	N,2N	
9-F	-19	12	1.420+1	1.420+1	65 1777	1	N,2N	
9-F	-19	12	1.420+1	1.440+1	64 3685	4	N,2N	
9-F	-19	12	1.440+1	1.440+1	61 676	1	N,2N	
9-F	-19	12	1.450+1	1.450+1	53 27	1	N,2N	
9-F	-19	12	1.460+1	1.460+1	65 1672	1	N,2N	

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 34 ***

ZA = 9019

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
9-F-19	12	1	1.460*	1	69 2354	1	N,2N
9-F-19	12	1	1.470*	1	67 1921	1	N,2N
9-F-19	12	1	1.470*	1	58 2596	1	N,2N
9-F-19	12	1	1.480*	1	66 2058	1	N,2N
9-F-19	12	3	1.480*	1	73 3988	1	N,2N
9-F-19	12	7	1.460*	1	72 3957	1	N,2N
9-F-19	12	80	1.470*	1	67 2594	89	N,2N
9-F-19	12	80	1.352*	1	1.775	24	N,2N
9-F-19	12	80	1.356*	1	1.471	6	N,2N
9-F-19	12	80	1.360*	1	1.460*	6	N,2N
9-F-19	23	2	2.530-8	2	47 888	1	N,GAMMA
9-F-19	23	2	2.530-8	2	63 2823	12	N,GAMMA
9-F-19	23	1	1.70-2	3.900-2	63 799	183	N,GAMMA
9-F-19	23	1	1.800-2	3.080-2	61 677	1	N,GAMMA
9-F-19	23	3	3.000-2	3.000-2	63 1	1	N,GAMMA
9-F-19	24	7	1.000-1	1.000-0	55 128	25	N,X GAMMA
9-F-19	24	7	1.350-0	3.600-0	47 516	55	N,X GAMMA
9-F-19	24	7	2.580-0	5.200-0	52 581	1	N,X GAMMA
9-F-19	24	7	2.600-0	1.400-0	55 2987	6	N,X GAMMA
9-F-19	24	7	4.600-0	7.980-0	55 239	18	N,P
9-F-19	26	4	4.980-0	6.975-0	66 1884	159	N,P
9-F-19	26	1	1.260-1	1.360-1	65 843	10	N,P
9-F-19	26	1	1.418-1	2.130-1	65 449	11	N,P
9-F-19	26	1	1.450-1	1.450-1	63 27	1	N,P
9-F-19	26	1	1.470-1	1.470-1	62 88	1	N,P
9-F-19	26	1	1.470-1	1.470-1	66 1575	1	N,P
9-F-19	26	1	1.480-1	1.480-1	67 1921	1	N,P
9-F-19	26	1	1.480-1	1.480-1	66 907	1	N,P
9-F-19	26	1	1.480-1	1.480-1	66 2142	1	N,P
9-F-19	26	1	7.670-0	7.670-0	61 742	1	N,P
9-F-19	34	3	3.090-0	7.940-0	55 129	88	N,ALPHA
9-F-19	34	3	3.330-0	5.860-0	55 383	62	N,ALPHA
9-F-19	34	3	3.668-0	6.156-0	60 664	91	N,ALPHA
9-F-19	34	4	4.980-0	8.975-0	66 1684	162	N,ALPHA
9-F-19	34	6	6.000-0	6.000-0	65 1585	1	N,ALPHA
9-F-19	34	1	1.118-1	2.100-1	65 449	11	N,ALPHA
9-F-19	34	1	1.480-1	1.480-1	66 2142	1	N,ALPHA
9-F-19	34	1	2.690-0	8.200-0	61 742	68	N,ALPHA
9-F-19	41	1	1.300-5	7.300-5	49 53	1	FREE ATOM
9-F-19	42	1	2.500-6	7.350-6	64 2654	1	COHERENT SCATTERING
9-F-19	43	2	2.500-6	7.300-6	61 1594	1	COHERENT SCATTERING
9-F-19	43	2	2.500-6	1.000-6	71 1303	1	ELASTIC
9-F-19	62	1	2.000-0	2.000-0	63 3979	1	N,2N
9-F-19	62	2	2.000-0	2.000-0	67 3269	1	N,2N
9-F-19	62	2	2.000-0	2.000-0	68 2980	1	N,2N
9-F-19	73	7	2.530-8	2.530-8	70 2415	70	N,GAMMA
9-F-19	73	87	2.530-8	2.530-8	69 3690	80	N,GAMMA
9-F-19	74	2	2.530-8	2.530-8	70 2415	1	N,X GAMMA
9-F-19	102	5	5.000-2	1.100-1	58 325	26	ELASTIC
TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 9019

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
9-F	-19	102	5.650-1	1.000+0	61 1652	10	ELASTIC
9-F	-19	102	5.600-1	2.920+0	58 322	40	ELASTIC
9-F	-19	102	1.410+1	1.410+1	68 2692	13	ELASTIC
9-F	-19	105	2.000-1	2.200+0	64 3058	135	TOTAL SCATTERING
9-F	-19	105	1.410+1	1.410+1	68 2692	10	TOTAL SCATTERING
9-F	-19	105	1.420+1	1.420+1	65 1687	11	TOTAL SCATTERING
9-F	-19	111	1.410+1	1.410+1	68 2692	12	N.N'
9-F	-19	111	5.650-1	5.650-1	61 1652	16	N.N'
9-F	-19	111	2.450+0	2.450+0	56 476	2	N.N'
9-F	-19	111	1.410+1	1.410+1	68 2692	12	N.N'
9-F	-19	111	1.420+1	1.420+1	66 1687	39	N.N'
9-F	-19	124	7 1.000+0	2.560+0	63 1728	2	N.X GAMMA
9-F	-19	124	7 1.000+0	5.000+0	69 1019	12	N.X GAMMA
9-F	-19	124	7 2.560+0	2.560+0	60 666	18	N.X GAMMA
9-F	-19	126	1 1.410+1	1.410+1	68 2587	33	N.P
9-F	-19	128	1 1.408+1	1.466+1	68 2587	22	N.D
9-F	-19	128	1 1.410+1	1.410+1	57 1688	22	N.D
9-F	-19	128	1 1.440+1	1.440+1	68 2219	20	N.D
9-F	-19	130	1 1.440+1	1.440+1	68 2219	19	N.T
9-F	-19	134	6.000+0	6.000+0	65 1685	4	N.ALPHA
9-F	-19	324	1.380+0	1.850+1	74 3628	1744	N.X GAMMA
9-F	-19	406	1.420+1	1.420+1	58 905	1	NONELASTIC EMISSION
9-F	-19	521	4.900-7	1.500+1	57 1054	1	ABSORPTION
9-F	-19		0.000+0	2.000-1	74 3580	1	AVERAGE RESONANCE PARAMETERS
9-F	-19		1.525-2	2.577-1	64 699	41	RESONANCE PARAMETERS
9-F	-19		1.550-2	2.700-2	63 799	2	RESONANCE PARAMETERS
9-F	-19		2.650-2	9.200-2	68 640	3	RESONANCE PARAMETERS
9-F	-19		2.699-2	9.750-2	74 3580	9	RESONANCE PARAMETERS
9-F	-19		2.700-2	9.900-2	58 325	9	RESONANCE PARAMETERS
9-F	-19		2.700-2	1.635+0	59 2	48	RESONANCE PARAMETERS
9-F	-19		2.702-2	9.700-2	71 3117	9	RESONANCE PARAMETERS
9-F	-19		2.703-2	5.280-1	65 814	19	RESONANCE PARAMETERS
9-F	-19		2.707-2	4.900+0	73 3588	36	RESONANCE PARAMETERS
9-F	-19		2.720-2	4.800-2	70 3716	4	RESONANCE PARAMETERS
9-F	-19		1.340-1	1.525-1	61 2420	15	RESONANCE PARAMETERS
9-F	-19		4.970-1	1.107+0	67 2433	14	RESONANCE PARAMETERS
9-F	-19		3.400+0	5.900+0	55 129	8	RESONANCE PARAMETERS
9-F	-19		3.750+0	5.900+0	60 664	8	RESONANCE PARAMETERS
9-F	-19		3.850+0	7.800+0	61 742	10	RESONANCE PARAMETERS
10-NE-NAT	1		4.000-9	2.500-8	63 777	22	TOTAL
10-NE-NAT	1		1.871-7	6.195-6	69 2998	13	TOTAL
10-NE-NAT	1		1.570-1	1.977+1	60 570	164	TOTAL
10-NE-NAT	1		7.700-1	1.890+0	59 271	99	TOTAL
10-NE-NAT	1		1.896+0	3.494+0	50 220	71	TOTAL
10-NE-NAT	1		3.000-10	2.900-9	60 822	13	TOTAL
10-NE-NAT	5		2.530-8	2.530-8	63 777	1	TOTAL SCATTERING
10-NE-NAT	5		2.530-8	2.530-8	69 2998	1	TOTAL SCATTERING
10-NE-NAT	21		2.530-8	2.530-8	60 822	1	ABSORPTION
10-NE-NAT	26		1.410+1	1.410+1	66 1689	1	N.P
10-NE-NAT	71		2.500-8	2.500-8	61 1690	1	ABSORPTION
10-N-NAT	92		2.500-8	2.500-8	66 1691	1	FREE ATOM
10-NL-NAT	102		8.250-1	1.760+0	59 271	221	ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 10000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 10000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
10-NE-NAT	102		2.110+ 0	3.490+ 0	57 220	107	ELASTIC
10-NE-20	1		1.895+ 0	3.495+ 0	57 220	71	TOTAL
10-NE-20	26	1	1.430+ 1	1.430+ 1	71 3186	1	N,P
10-NE-20	34		1.830+ 0	3.345+ 0	51 67	55	N,ALPHA
10-NE-20	34		2.800+ 0	7.280+ 0	59 641	182	N,ALPHA
10-NE-20	34		4.360+ 0	7.280+ 0	59 856	63	N,ALPHA
10-NE-20	34		1.410+ 1	1.410+ 1	72 3960	1	N,ALPHA
10-NE-20	34		1.430+ 1	1.430+ 1	71 3186	1	N,ALPHA
10-NE-20	34	1	1.410+ 1	1.410+ 1	66 1920	2	N,ALPHA
10-NE-20	34	1	1.430+ 1	1.430+ 1	71 3186	7	N,ALPHA
10-NE-20	34	1	1.430+ 1	1.430+ 1	71 3186	1	N,2-ALPHA
10-NE-20	102		1.890+ 0	2.050+ 0	58 220	65	ELASTIC
10-NE-20	134	1	1.410+ 1	1.410+ 1	66 1920	12	N,ALPHA
10-NE-20			4.730+ 1	4.730+ 1	60 570	3	RESONANCE PARAMETERS
10-NE-20			9.100+ 1	1.650+ 0	59 271	19	RESONANCE PARAMETERS
10-NE-20			1.940+ 0	2.000+ 0	58 220	6	RESONANCE PARAMETERS
10-NE-20			2.110+ 0	3.370+ 0	57 220	7	RESONANCE PARAMETERS
10-NE-20			2.690+ 0	6.92+ 0	59 641	16	RESONANCE PARAMETERS
10-NE-20			3.180+ 0	6.55+ 0	59 3322	5	RESONANCE PARAMETERS
10-NE-21	34		2.530+ 0	2.530+ 0	61 285	1	N,ALPHA
10-NE-21	92		2.500+ 0	2.500+ 0	66 1691	1	FREE ATOM
10-NE-22	1		1.890+ 0	3.540+ 0	57 220	73	TOTAL
10-NE-22	1		1.890+ 0	3.540+ 0	58 347	71	TOTAL
10-NE-22	92		2.500+ 0	2.500+ 0	66 1691	1	FREE ATOM
10-NE-22	104		1.900+ 0	3.430+ 0	58 347	82	NEUTRON EMISSION
10-NE-22			2.010+ 0	3.430+ 0	58 347	15	RESONANCE PARAMETERS
11-NA-22	1		2.530+ 0	2.530+ 0	75 3892	1	ABSORPTION
11-NA-22	71		2.500+ 0	2.500+ 0	63 2829	1	ABSORPTION
11-NA-22	73		2.500+ 0	2.500+ 0	72 3265	1	N,GAMMA
11-NA-23	1		1.996+ 0	1.055+ 5	55 228	365	TOTAL
11-NA-23	1		1.270+ 5	1.200+ 2	52 803	83	TOTAL
11-NA-23	1		0.760+ 5	3.187+ 1	65 3555	709	TOTAL
11-NA-23	1		5.900+ 4	1.900+ 2	58 348	64	TOTAL
11-NA-23	1		1.000+ 3	3.490+ 1	60 810	712	TOTAL
11-NA-23	1		1.600+ 3	6.000+ 2	59 729	47	TOTAL
11-NA-23	1		2.000+ 3	7.800+ 2	52 75	41	TOTAL
11-NA-23	1		2.570+ 3	8.400+ 3	58 15	31	TOTAL
11-NA-23	1		1.047+ 2	1.586+ 1	55 2013	147	TOTAL
11-NA-23	1		2.500+ 2	9.900+ 1	49 49	120	TOTAL
11-NA-23	1		1.008+ 1	6.489+ 1	67 885	557	TOTAL
11-NA-23	1		1.792+ 1	1.204+ 2	56 1892	1934	TOTAL
11-NA-23	1		2.881+ 1	3.197+ 1	70 2517	6975	TOTAL
11-NA-23	1		2.900+ 1	3.176+ 0	75 3887	319	TOTAL
11-NA-23	1		3.500+ 1	6.295+ 1	61 811	424	TOTAL
11-NA-23	1		4.970+ 1	1.012+ 0	52 85	131	TOTAL
11-NA-23	1		6.300+ 1	8.600+ 1	61 812	322	TOTAL
11-NA-23	1		6.502+ 1	4.520+ 1	70 3157	1955	TOTAL
11-NA-23	1		7.750+ 1	4.070+ 0	62 714	94	TOTAL
11-NA-23	1		8.750+ 1	2.020+ 0	63 804	187	TOTAL
11-NA-23	1		9.000+ 1	1.700+ 0	61 379	167	TOTAL
11-NA-23	1		9.003+ 1	1.055+ 0	68 2517	334	TOTAL
11-NA-23	1		1.250+ 0	2.100+ 0	61 380	18	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 11023

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 11023

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	11-NA-23	1		1.870+ 0	1.448+ 1	63 330	59	TOTAL
	11-NA-23	1		1.910+ 0	3.810+ 0	53 29	93	TOTAL
	11-NA-23	1		2.210+ 0	2.765+ 0	53 94	14	TOTAL
	11-NA-23	1		2.257+ 0	1.488+ 1	67 750	243	TOTAL
	11-NA-23	1		2.750+ 0	5.210+ 0	63 419	114	TOTAL
	11-NA-23	1		4.080+ 0	6.190+ 0	64 440	42	TOTAL
	11-NA-23	1		5.400+ 0	8.515+ 0	65 1003	115	TOTAL
	11-NA-23	1		8.580+ 0	1.159+ 1	62 452	4	TOTAL
	11-NA-23	1		1.400+ 1	1.400+ 1	52 81	1	TOTAL
	11-NA-23	1		1.450+ 1	1.450+ 1	70 3300	1	TOTAL
	11-NA-23	1		1.468+ 1	1.468+ 1	66 1653	1	TOTAL
	11-NA-23	1		1.468+ 1	1.468+ 1	68 1941	1	TOTAL
N	11-NA-23	1		1.476+ 1	1.476+ 1	65 3697	1	TOTAL
	11-NA-23	1		1.620+ 1	1.620+ 1	58 975	1	TOTAL
	11-NA-23	1		2.840+ 1	2.840+ 1	61 233	1	TOTAL
	11-NA-23	1		4.200+ 1	4.200+ 1	50 281	1	TOTAL
	11-NA-23	2		3.000+ 1	3.000+ 1	63 1699	1	ELASTIC
	11-NA-23	2		3.000+ 1	1.500+ 0	66 885	50	ELASTIC
	11-NA-23	2		5.000+ 1	8.000+ 1	64 886	2	ELASTIC
	11-NA-23	2		9.800+ 1	2.515+ 0	62 714	3	ELASTIC
	11-NA-23	2		2.000+ 0	2.000+ 0	65 1509	1	ELASTIC
N	11-NA-23	2		5.000+ 0	5.000+ 0	71 3793	1	ELASTIC
	11-NA-23	2		5.440+ 0	8.520+ 0	72 3228	4	ELASTIC
	11-NA-23	3		1.020+ 0	1.020+ 0	56 353	1	NONELASTIC
	11-NA-23	3		2.500+ 0	2.500+ 0	56 34	1	NONELASTIC
	11-NA-23	3		2.500+ 0	2.500+ 0	61 848	1	NONELASTIC
	11-NA-23	3		2.500+ 0	4.100+ 0	55 790	2	NONELASTIC
	11-NA-23	5		3.000+ 2	1.372+ 0	56 231	21	TOTAL SCATTERING
	11-NA-23	5		2.000+ 1	2.200+ 0	64 3058	23	TOTAL SCATTERING
	11-NA-23	5		2.090+ 1	9.200+ 1	60 807	76	TOTAL SCATTERING
	11-NA-23	5		9.800+ 1	9.800+ 1	63 879	1	TOTAL SCATTERING
	11-NA-23	6		1.400+ 1	1.400+ 1	61 893	1	NONELASTIC EMISSION
N	11-NA-23	11		4.470+ 1	2.189+ 0	75 3837	945	N,N'
N	11-NA-23	11		5.000+ 0	5.000+ 0	71 3793	1	N,N'
	11-NA-23	11	1	5.500+ 1	3.970+ 0	62 714	29	N,N'
	11-NA-23	11	1	6.000+ 1	1.200+ 0	63 828	4	N,N'
N	11-NA-23	11	1	7.500+ 1	1.500+ 0	71 3272	50	N,N'
	11-NA-23	11	1	8.250+ 1	1.500+ 0	66 865	25	N,N'
N	11-NA-23	11	1	5.000+ 0	5.000+ 0	71 3793	7	N,N'
C	11-NA-23	11	1	5.440+ 0	8.520+ 0	72 3228	39	N,N'
	11-NA-23	11	7	4.930+ 1	2.990+ 0	59 618	57	N,N'
	11-NA-23	11	7	3.470+ 0	4.000+ 0	59 572	3	N,N'
N	11-NA-23	11	8	5.440+ 0	8.520+ 0	72 3228	5	N,N'
	11-NA-23	12		1.263+ 1	1.956+ 1	65 893	23	N,2N
	11-NA-23	12		1.350+ 1	1.939+ 1	67 1686	7	N,2N
	11-NA-23	12		1.410+ 1	1.410+ 1	55 119	1	N,2N
N	11-NA-23	12		1.420+ 1	1.460+ 1	72 3427	2	N,2N
	11-NA-23	12		1.460+ 1	1.460+ 1	69 2354	1	N,2N
N	11-NA-23	12		1.460+ 1	1.460+ 1	73 3988	1	N,2N
	11-NA-23	12		1.489+ 1	2.100+ 1	65 449	6	N,2N
C	11-NA-23	18		1.260+ 1	1.870+ 1	66 2895	7	N,N' ALPHA
	11-NA-23	21		2.530+ 8	2.530+ 8	58 1162	1	ABSORPTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 11023

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 11023

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
11-NA-23	21		2.530-8	2.530-8	60 691	1	ABSORPTION	
11-NA-23	23		2.000-2	9.900-1	59 524	19	N, GAMMA	
11-NA-23	23		2.100-2	2.100-2	58 43	1	N, GAMMA	
11-NA-23	23		3.000-2	6.500-2	63 1	2	N, GAMMA	
11-NA-23	23		1.950-1	1.950-1	59 526	1	N, GAMMA	
11-NA-23	23		2.000-1	2.000-1	58 363	1	N, GAMMA	
11-NA-23	23		9.700-1	1.939+1	67 1698	17	N, GAMMA	
11-NA-23	23		1.340+1	1.500+1	67 1695	8	N, GAMMA	
N 11-NA-23	23		1.440+1	1.440+1	72 3963	1	N, GAMMA	
N 11-NA-23	23		1.450+1	1.450+1	57 521	1	N, GAMMA	
N 11-NA-23	23	2	9.200-1	3.950+0	72 3857	3	N, GAMMA	
11-NA-23	23	4	2.530-8	2.530-8	47 888	1	N, GAMMA	
11-NA-23	23	4	2.530-8	530-6	56 2825	1	N, GAMMA	
11-NA-23	23	4	2.100-2	2.100-2	57 23	1	N, GAMMA	
N 11-NA-23	23	4	2.400-2	2.400-2	57 305	1	N, GAMMA	
N 11-NA-23	23	4	2.400-2	2.400-2	68 2856	1	N, GAMMA	
11-NA-23	24	7	4.000-0	3.350+0	61 11	134	N, X GAMMA	
11-NA-23	24	7	1.410+1	1.410+1	65 1694	1	N, X GAMMA	
11-NA-23	26		3.550+0	1.890+1	61 691	189	N, P	
11-NA-23	26		5.800+0	8.975+0	65 1684	128	N, P	
11-NA-23	26		1.400+1	1.400+1	60 596	1	N, P	
11-NA-23	26		1.400+1	1.400+1	61 361	1	N, P	
11-NA-23	26		1.418+1	2.100+1	65 449	12	N, P	
11-NA-23	26		1.450+1	1.450+1	53 27	1	N, P	
11-NA-23	26		1.470+1	1.470+1	66 1675	1	N, P	
11-NA-23	26		1.470+1	1.470+1	67 1921	1	N, P	
11-NA-23	26		1.470+1	1.470+1	67 3371	1	N, P	
11-NA-23	26		1.480+1	1.480+1	61 660	1	N, P	
11-NA-23	26		1.480+1	1.480+1	65 1697	1	N, P	
11-NA-23	26		1.480+1	1.480+1	66 907	1	N, P	
11-NA-23	26		1.480+1	1.480+1	66 2142	1	N, P	
11-NA-23	26	1	5.300+0	8.000+0	66 1684	109	N, P	
11-NA-23	26	1	8.000+0	8.000+0	65 1717	10	N, P	
11-NA-23	34		6.300+0	1.900+1	61 691	45	N, ALPHA	
11-NA-23	34		6.800+0	8.975+0	66 1684	88	N, ALPHA	
11-NA-23	34		1.260+1	1.870+1	55 1693	7	N, ALPHA	
11-NA-23	34		1.260+1	1.870+1	66 2895	7	N, ALPHA	
11-NA-23	34		1.400+1	1.400+1	60 596	1	N, ALPHA	
11-NA-23	34		1.405+1	1.405+1	62 585	1	N, ALPHA	
11-NA-23	34		1.418+1	2.100+1	65 449	12	N, ALPHA	
11-NA-23	34		1.470+1	1.470+1	67 3371	1	N, ALPHA	
11-NA-23	34		1.480+1	1.480+1	61 660	1	N, ALPHA	
11-NA-23	34	1	8.000+0	8.000+0	65 1717	12	N, ALPHA	
11-NA-23	35		1.260+1	1.870+1	55 1693	7	N, X ALPHA	
11-NA-23	35		1.260+1	1.870+1	66 2895	7	N, X ALPHA	
11-NA-23	41		7.300-8	7.300-8	51 1584	1	BOUND ATOM	
11-NA-23	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING	
N 11-NA-23	61	7	1.000+0	1.000+0	70 3425	2	N, N	SPECTRUM AVERAGED CROSS SECTION
N 11-NA-23	62		1.500+0	1.500+0	62 3981	1	N, 2N	SPECTRUM AVERAGED CROSS SECTION
11-NA-23	62		2.000+0	2.000+0	68 2990	1	N, 2N	SPECTRUM AVERAGED CROSS SECTION
11-NA-23	62		2.000+0	2.000+0	70 3382	1	N, 2N	SPECTRUM AVERAGED CROSS SECTION
11-NA-23	71		2.500-8	2.500-8	50 1794	1	ABSORPTION	SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 11023

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
11-NA-23	71		2.500-8	2.500-8	51 882	1	ABSORPTION
11-NA-23	71		2.500-8	2.500-8	53 2828	1	ABSORPTION
11-NA-23	71		2.500-8	2.500-8	63 2557	1	ABSORPTION
11-NA-23	73		2.500-8	2.500-8	53 2560	1	N, GAMMA
11-NA-23	73		2.500-8	2.500-8	54 2580	1	N, GAMMA
11-NA-23	73		2.500-8	2.500-8	55 2938	1	N, GAMMA
11-NA-23	73		2.500-8	2.500-8	63 2748	1	N, GAMMA
N 11-NA-23	73		2.530-8	2.530-8	62 3981	1	N, GAMMA
11-NA-23	73		2.000+0	2.000+0	58 363	1	N, GAMMA
11-NA-23	73	2	2.500-8	2.500-8	55 2827	1	N, GAMMA
11-NA-23	73	2	2.500-8	2.500-8	63 2581	1	N, GAMMA
11-NA-23	73	4	2.500-8	2.500-8	49 2742	1	N, GAMMA
11-NA-23	73	7	2.530-8	2.530-8	70 2415	64	N, GAMMA
11-NA-23	74		2.530-8	2.530-8	70 2415	1	N, X GAMMA
11-NA-23	102		5.200-2	9.000-2	58 325	20	ELASTIC
11-NA-23	102		6.000-2	3.900-1	56 231	25	ELASTIC
11-NA-23	102		3.000-1	3.000-1	63 1699	8	ELASTIC
11-NA-23	102		5.093-1	8.000-1	64 886	16	ELASTIC
11-NA-23	102		9.800-1	9.800-1	63 879	8	ELASTIC
11-NA-23	102		9.800-1	3.970+0	62 714	42	ELASTIC
N 11-NA-23	102		4.370+0	4.370+0	71 4022	5	ELASTIC
N 11-NA-23	102		5.000+0	5.000+0	71 3793	10	ELASTIC
11-NA-23	102		5.440+0	8.520+0	72 3228	94	ELASTIC
N 11-NA-23	102		1.476+1	1.475+1	65 3697	8	ELASTIC
11-NA-23	105		2.000-1	2.200+0	64 3058	120	TOTAL SCATTERING
11-NA-23	105		4.700-1	1.350+0	56 231	60	TOTAL SCATTERING
11-NA-23	111	1	9.800-1	3.970+0	62 714	55	N, N'
11-NA-23	111	1	2.450+0	2.450+0	55 476	1	N, N'
11-NA-23	111	1	3.480+0	4.000+0	59 572	27	N, N'
N 11-NA-23	111	1	4.370+0	4.370+0	71 4022	14	N, N'
11-NA-23	111	1	5.440+0	8.520+0	72 3228	370	N, N'
N 11-NA-23	111	1	6.300+0	8.800+0	73 3944	254	N, N'
11-NA-23	124	7	8.000-1	4.100+0	68 1019	11	N, X GAMMA
11-NA-23	124	7	1.000+0	4.100+0	63 1728	4	N, X GAMMA
11-NA-23	124	7	3.490+0	4.000+0	59 572	27	N, X GAMMA
N 11-NA-23	124	7	4.850+0	7.500+0	73 3613	153	N, X GAMMA
11-NA-23	124	7	1.470+1	1.470+1	66 1700	8	N, X GAMMA
11-NA-23	124	10	4.100+0	1.480+1	63 1728	15	N, X GAMMA
11-NA-23	124	87	1.000+0	1.000+0	68 1019	4	N, X GAMMA
N 11-NA-23	126	7	6.450+0	7.000+0	73 3613	2	N, P
11-NA-23	128	1	1.410+1	1.410+1	68 2587	15	N, D
11-NA-23	134		1.400+1	1.400+1	62 1696	18	N, ALPHA
11-NA-23	211		7.000+0	7.000+0	67 1883	20	N, N'
N 11-NA-23	304		1.455+1	1.455+1	74 4095	484	NEUTRON EMISSION
11-NA-23	311		8.520+0	8.520+0	72 3228	325	N, N'
N 11-NA-23	311	80	1.410+1	1.410+1	65 1932	55	N, N'
11-NA-23	452		2.090-1	8.200-1	60 807	304	ELASTIC
11-NA-23	452		3.000-1	1.500+0	66 885	100	ELASTIC
C 11-NA-23	523		5.000-7	1.500+1	63 1310	1	N, GAMMA
N 11-NA-23	523		5.000-7	1.500+1	61 2718	1	N, GAMMA
N 11-NA-23	523		5.000-7	1.500+1	69 3680	1	N, GAMMA
11-NA-23			1.400+1	1.400+1	61 883	1	NUCLEAR TEMPERATURE

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

6/7/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 11023

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
11-NA-23			1.410+ 1	1.410+ 1	66 1932	1	NUCLEAR TEMPERATURE
11-NA-23		-3.000- 2	3.460- 1	60 810	260		RESONANCE PARAMETERS
11-NA-23		2.800- 3	2.800- 3	58 2411	2		RESONANCE PARAMETERS
11-NA-23		2.800- 3	5.500- 2	52 75	2		RESONANCE PARAMETERS
11-NA-23		2.850- 3	2.850- 3	58 15	2		RESONANCE PARAMETERS
11-NA-23		2.850- 3	2.850- 3	58 348	3		RESONANCE PARAMETERS
11-NA-23		2.850- 3	2.850- 3	70 3096	1		RESONANCE PARAMETERS
11-NA-23		2.850- 3	2.850- 3	68 2745	1		RESONANCE PARAMETERS
11-NA-23		2.850- 3	1.391- 1	63 2942	13		RESONANCE PARAMETERS
11-NA-23		2.850- 3	2.970- 1	65 3555	21		RESONANCE PARAMETERS
11-NA-23		2.851- 3	4.500- 1	65 814	31		RESONANCE PARAMETERS
11-NA-23		5.300- 2	5.300- 2	58 325	2		RESONANCE PARAMETERS
11-NA-23		5.300- 2	5.300- 2	59 729	2		RESONANCE PARAMETERS
11-NA-23		2.040- 1	9.880- 1	52 85	29		RESONANCE PARAMETERS
11-NA-23		2.984- 1	9.851- 1	70 3072	41		RESONANCE PARAMETERS
11-NA-23		2.995- 1	7.780- 1	69 3091	16		RESONANCE PARAMETERS
11-NA-23		3.526- 1	6.262- 1	61 811	213		RESONANCE PARAMETERS
12-MG-NAT	1	2.350- 8	6.500- 5	48 173	43		TOTAL
12-MG-NAT	1	1.440- 6	1.440- 6	65 949	1		TOTAL
12-MG-NAT	1	4.000- 6	4.988- 1	74 3591	388		TOTAL
12-MG-NAT	1	3.700- 3	9.600- 3	56 243	19		TOTAL
12-MG-NAT	1	3.850- 3	2.080- 2	56 824	21		TOTAL
12-MG-NAT	1	1.100- 2	3.700- 1	59 534	64		TOTAL
12-MG-NAT	1	1.300- 1	6.410- 1	69 914	420		TOTAL
12-MG-NAT	1	3.700- 1	7.900- 1	51 69	43		TOTAL
12-MG-NAT	1	4.040- 1	1.342- 0	58 451	939		TOTAL
12-MG-NAT	1	5.083- 1	1.456- 0	65 2197	523		TOTAL
12-MG-NAT	1	5.350- 1	1.865- 0	50 64	67		TOTAL
12-MG-NAT	1	6.000- 1	3.150- 0	66 4017	11		TOTAL
12-MG-NAT	1	1.995+ 0	1.005+ 1	67 1508	347		TOTAL
12-MG-NAT	1	2.000+ 0	5.000+ 0	62 691	3		TOTAL
12-MG-NAT	1	2.060+ 0	3.140+ 0	60 613	16		TOTAL
12-MG-NAT	1	2.170+ 0	2.830+ 0	58 1703	5		TOTAL
12-MG-NAT	1	2.250+ 0	2.750+ 0	57 817	14		TOTAL
12-MG-NAT	1	2.256+ 0	1.498+ 1	67 750	246		TOTAL
12-MG-NAT	1	2.780+ 0	5.210+ 0	63 419	92		TOTAL
12-MG-NAT	1	2.780+ 0	1.325+ 1	54 504	30		TOTAL
12-MG-NAT	1	4.000+ 0	8.050+ 0	58 400	38		TOTAL
12-MG-NAT	1	4.500+ 0	1.420+ 1	67 1747	501		TOTAL
12-MG-NAT	1	5.200+ 0	6.200+ 0	68 3288	28		TOTAL
12-MG-NAT	1	7.170+ 0	1.407+ 1	57 22	5		TOTAL
12-MG-NAT	1	1.230+ 1	1.460+ 1	65 1702	24		TOTAL
12-MG-NAT	1	1.377+ 1	1.475+ 1	58 349	19		TOTAL
12-MG-NAT	1	1.400+ 1	1.400+ 1	52 81	1		TOTAL
12-MG-NAT	1	1.400+ 1	1.400+ 1	52 207	1		TOTAL
12-MG-NAT	1	1.410+ 1	1.800+ 1	54 107	3		TOTAL
12-MG-NAT	1	1.450+ 1	1.450+ 1	70 3300	1		TOTAL
12-MG-NAT	1	1.480+ 1	1.480+ 1	57 368	1		TOTAL
12-MG-NAT	1	1.750+ 1	2.760+ 1	60 673	4		TOTAL
12-MG-NAT	1	2.840+ 1	2.840+ 1	61 233	1		TOTAL
12-MG-NAT	1	3.634+ 1	5.890+ 1	72 3196	5		TOTAL
12-MG-NAT	1	4.200+ 1	4.200+ 1	50 281	1		TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 12000

ECSEL-7600 REACTION INDEX (2A ORDERED)

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
12-MG-NAT	1	1	9.000*	0.000*	49 206	1	TOTAL
12-MG-NAT	1	9	9.000*	0.000*	56 207	61	TOTAL
12-MG-NAT	2	1	3.000*	0.000*	61 169	1	ELASTIC
12-MG-NAT	2	1	3.000*	0.000*	64 186	2	ELASTIC
12-MG-NAT	2	1	5.000*	0.500*	68 296	4	ELASTIC
12-MG-NAT	2	2	2.000*	0.500*	62 691	2	ELASTIC
12-MG-NAT	2	1	5.440*	0.560*	70 329	4	ELASTIC
12-MG-NAT	2	1	1.410*	1.410*	64 845	1	ELASTIC
12-MG-NAT	2	1	1.460*	1.460*	60 631	1	ELASTIC
12-MG-NAT	2	2	2.500*	0.500*	56 34	1	NONELASTIC
12-MG-NAT	3	2	5.500*	0.400*	55 790	3	NONELASTIC
12-MG-NAT	3	6	7.000*	0.1250*	57 24	5	NONELASTIC
12-MG-NAT	3	1	1.410*	1.410*	57 199	1	NONELASTIC
12-MG-NAT	3	1	1.420*	1.420*	57 319	1	NONELASTIC
12-MG-NAT	3	1	1.450*	1.450*	56 200	1	NONELASTIC
12-MG-NAT	3	2	2.100*	0.920*	58 356	3	NONELASTIC
12-MG-NAT	5	4	5.000*	0.200*	56 231	19	TOTAL SCATTERING
12-MG-NAT	5	3	4.500*	0.500*	70 305	19	TOTAL SCATTERING
12-MG-NAT	5	1	1.600*	0.400*	46 197	14	N.N.
12-MG-NAT	11	1	5.440*	0.560*	53 885	14	N.N.
12-MG-NAT	11	7	1.600*	0.400*	70 329	38	N.N.
12-MG-NAT	11	7	1.400*	1.400*	61 850	5	N.N.
12-MG-NAT	21	1	2.530*	0.530*	58 162	1	ABSORPTION
12-MG-NAT	21	1	2.530*	0.530*	61 259	1	ABSORPTION
12-MG-NAT	21	2	2.530*	0.530*	61 131	1	ABSORPTION
12-MG-NAT	23	1	3.000*	0.500*	61 784	3	ABSORPTION
12-MG-NAT	23	3	3.000*	0.500*	61 671	2	N.GAMMA
12-MG-NAT	23	1	1.410*	1.410*	70 223	1	N.GAMMA
12-MG-NAT	24	2	2.500*	0.500*	71 374	7	N.X GAMMA
12-MG-NAT	24	7	2.500*	0.500*	52 284	7	N.X GAMMA
12-MG-NAT	24	7	2.560*	0.560*	56 140	3	N.X GAMMA
12-MG-NAT	24	7	1.400*	1.400*	60 833	1	N.X GAMMA
12-MG-NAT	24	10	1.410*	1.410*	63 173	1	N.X GAMMA
12-MG-NAT	26	1	1.440*	1.440*	62 688	1	N.P
12-MG-NAT	26	2	1.450*	1.450*	59 829	1	N.P
12-MG-NAT	36	1	1.255*	1.200*	63 374	8	ACTIVATION
12-MG-NAT	41	7	3.000*	0.500*	51 1584	1	BOUND ATOM
12-MG-NAT	43	3	2.530*	0.530*	51 2832	1	COHERENT SCATTERING
12-MG-NAT	43	3	2.530*	0.530*	52 2831	1	COHERENT SCATTERING
12-MG-NAT	43	3	2.530*	0.530*	63 2830	1	COHERENT SCATTERING
12-MG-NAT	43	3	2.530*	0.530*	63 2877	1	COHERENT SCATTERING
12-MG-NAT	44	7	3.000*	0.500*	51 1584	1	COHERENT SCATTERING
12-MG-NAT	44	2	2.530*	0.530*	52 2834	1	INCOHERENT SCATTER.
12-MG-NAT	44	2	2.530*	0.530*	57 2833	1	INCOHERENT SCATTER.
12-MG-NAT	71	2	2.500*	0.500*	50 1623	1	ABSORPTION
12-MG-NAT	71	2	2.500*	0.500*	51 1892	1	ABSORPTION
12-MG-NAT	71	7	2.530*	0.530*	63 1670	99	N.GAMMA
12-MG-NAT	73	7	2.530*	0.530*	67 3698	11	N.GAMMA
12-MG-NAT	73	87	2.530*	0.530*	70 2415	1	N.X GAMMA
12-MG-NAT	74	74	2.530*	0.530*	70 2415	1	N.X GAMMA

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2A = 12000

000 1-42 000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 12000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
12-MG-NAT	102		3.000-	2 4.700-	1 56 231	35	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		7.000-	2 1.010-	1 58 325	18	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		3.000-	1 3.000-	1 63 1699	8	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		5.000-	1 8.000-	1 64 886	16	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		5.910-	1 9.300-	1 65 1705	264	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		1.890+	0 4.760+	0 62 691	40	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		2.000+	0 5.000+	0 58 555	40	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		5.440+	0 8.560+	0 70 3229	95	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		7.630+	0 7.600+	0 68 2011	13	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		1.400+	1 1.400+	1 65 97	11	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		1.410+	1 1.410+	1 59 475	14	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		1.410+	1 1.410+	1 64 845	13	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		1.460+	1 1.460+	1 60 631	21	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	102		1.470+	1 1.470+	1 58 1036	18	ELASTIC ANGULAR DISTRIBUTION
12-MG-NAT	105		4.500-	1 2.200+	0 70 3055	95	TOTAL SCATTERING ANGULAR DISTRIBUTION
12-MG-NAT	105		7.200-	1 1.360+	0 56 231	40	TOTAL SCATTERING ANGULAR DISTRIBUTION
12-MG-NAT	105		2.770+	0 2.770+	0 55 1705	14	TOTAL SCATTERING ANGULAR DISTRIBUTION
12-MG-NAT	111		2.450+	0 2.450+	0 56 476	1	N,N' ANGULAR DISTRIBUTION
12-MG-NAT	111		4.190+	0 8.560+	0 70 3229	224	N,N' ANGULAR DISTRIBUTION
12-MG-NAT	111		1.400+	1 1.400+	1 65 97	22	N,N' ANGULAR DISTRIBUTION
12-MG-NAT	124		1.400+	1 1.400+	1 74 3544	6	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	124		7 2.950+	0 2.950+	0 59 818	1	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	124		7 4.100+	0 4.100+	0 63 1726	3	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	124		7 7.600+	0 7.600+	0 68 2011	26	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	124		7 1.400+	1 1.400+	1 74 3544	94	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	124		7 1.470+	1 1.470+	1 65 1707	13	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	124		7 1.500+	1 1.500+	1 60 1720	1	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	124		7 1.510+	1 1.510+	1 71 3713	11	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	124		10 4.100+	0 4.100+	0 63 1728	4	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	124		10 1.400+	1 1.400+	1 60 1704	3	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	224		1.410+	1 1.410+	1 69 2232	25	N,X GAMMA ENERGY DISTRIBUTION
12-MG-NAT	304		1.470+	1 1.490+	1 74 4002	544	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
12-MG-NAT	311	80	1.410+	1 1.410+	1 65 1932	54	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
12-MG-NAT	406		1.420+	1 1.420+	1 58 905	1	NONELASTIC EMISSION INTEGRAL E1-E2
12-MG-NAT	426		1.400+	1 1.400+	1 57 391	1	N,P INTEGRAL E1-E2
12-MG-NAT	521		5.000-	7 1.500+	1 58 1162	1	ABSORPTION RESONANCE INTEGRAL
12-MG-NAT	521		5.000-	7 1.500+	1 60 897	1	ABSORPTION RESONANCE INTEGRAL
12-MG-NAT	606		1.480+	1 1.480+	1 66 1042	16	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
12-MG-NAT	624		4.500+	0 8.500+	0 64 1671	42	N,X GAMMA ANGULAR DIST.-INTEGRAL E1-E2
12-MG-NAT	626		1.400+	1 1.400+	1 57 391	8	N,P ANGULAR DIST.-INTEGRAL E1-E2
12-MG-NAT			1.410+	1 1.410+	1 66 1932	1	NUCLEAR TEMPERATURE
12-MG-NAT			1.480+	1 1.480+	1 67 2897	1	NUCLEAR TEMPERATURE
12-MG-NAT			2.000-	2 5.050-	1 65 814	12	RESONANCE PARAMETERS
12-MG-NAT			2.200-	2 6.800-	1 51 69	3	RESONANCE PARAMETERS
12-MG-NAT			4.600-	2 4.500-	1 68 640	4	RESONANCE PARAMETERS
12-MG-NAT			8.500-	2 8.500-	2 58 325	2	RESONANCE PARAMETERS
12-MG-23	71		2.580-	8 2.500-	8 50 1794	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
12-MG-24	11		1 1.600+	0 4.000+	0 64 865	14	N,N'
12-MG-24	11		1 2.000+	0 5.000+	0 62 691	4	N,N'
12-MG-24	11		1 1.410+	1 1.410+	1 64 845	1	N,N'
12-MG-24	11		7 1.400+	1 1.400+	1 64 1659	1	N,N'
12-MG-24	11		7 1.410+	1 1.410+	1 65 1694	1	N,N'

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 12024

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 12024

TARGE	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	12-MG-24		5.000-2	8.400-2	65 2418	2	RESONANCE PARAMETERS
	12-MG-24		8.300-2	2.600-1	59 534	5	RESONANCE PARAMETERS
N	12-MG-24		9.350-2	4.978-1	74 3591	11	RESONANCE PARAMETERS
	12-MG-24		8.300-2	4.300-1	51 69	5	RESONANCE PARAMETERS
	12-MG-25	1	1.400-2	3.690-1	59 534	60	TOTAL
	12-MG-25	11	2.000+0	3.000+0	64 865	9	N,N'
	12-MG-25	26	1.300+1	1.665+1	66 1682	12	N, α
	12-MG-25	26	1.400+1	1.400+1	61 361	1	N,P
	12-MG-25	26	1.450+1	1.450+1	53 27	1	N,P
	12-MG-25	26	1.470+1	1.470+1	67 1921	1	N,P
	12-MG-25	26	1.480+1	1.480+1	58 443	1	N,P
	12-MG-25	26	1.480+1	1.480+1	66 2142	1	N,P
N	12-MG-25	26	1.460+1	1.460+1	73 3987	1	N,P
	12-MG-25	73	2.500-8	2.500-8	52 342	1	N, GAMMA
N	12-MG-25	73	2.530-8	2.530-8	67 3688	1	N, GAMMA
N	12-MG-25	73	2.530-8	2.530-8	70 3693	1	N, GAMMA
N	12-MG-25	73 87	2.530-8	2.530-8	67 3688	67	N, GAMMA
	12-MG-25	124	2.800+0	2.800+0	65 1715	1	N,X GAMMA
N	12-MG-25		1.990-2	1.990-2	74 3591	3	RESONANCE PARAMETERS
	12-MG-25		2.100-2	1.050-1	59 534	6	RESONANCE PARAMETERS
	12-MG-26	1	1.500-2	3.690-1	59 534	36	TOTAL
	12-MG-26	11	2.000+0	3.500+0	64 865	9	N,N'
	12-MG-26	23	2.530-8	2.530-8	47 886	1	N, GAMMA
	12-MG-26	23	2.000-1	4.000+0	58 363	3	N, GAMMA
	12-MG-26	23	2.900+0	2.900+0	68 3375	1	N, GAMMA
	12-MG-26	23	1.450+1	1.450+1	57 521	1	N, GAMMA
	12-MG-26	26	1.400+1	1.400+1	61 361	1	N,P
	12-MG-26	26	1.480+1	1.480+1	58 443	1	N,P
	12-MG-26	34	1.300+1	1.665+1	66 1682	12	N, ALPHA
	12-MG-26	34	1.470+1	1.470+1	67 1921	1	N, ALPHA
	12-MG-26	34	1.480+1	1.480+1	58 443	1	N, ALPHA
	12-MG-26	34	1.480+1	1.480+1	66 2142	1	N, ALPHA
	12-MG-26	73	2.500-8	2.500-8	49 2742	1	N, GAMMA
	12-MG-26	73	2.530-8	2.530-8	52 342	1	N, GAMMA
	12-MG-26	73	2.530-8	2.530-8	67 3688	1	N, GAMMA
N	12-MG-26	73 87	2.530-8	2.530-8	67 3688	8	N, GAMMA
N	12-MG-26	73 87	2.530-8	2.530-8	70 3693	54	N, GAMMA
N	12-MG-26	111	1.510+1	1.510+1	71 3713	1	N,N'
	12-MG-26	124	2.800+0	2.800+0	65 1715	1	N,X GAMMA
	12-MG-26	124	3.000+0	4.350+0	65 1713	15	N,X GAMMA
	12-MG-26	124 87	3.000+0	4.350+0	65 1713	34	N,X GAMMA
	12-MG-26		3.000-1	3.000-1	59 534	1	RESONANCE PARAMETERS
	12-MG-26		3.900-1	5.050-1	71 3117	6	RESONANCE PARAMETERS
	12-MG-26	1	1.440-6	1.440-6	65 949	1	TOTAL
	13-AL-27	1	2.770-9	4.740-8	58 858	117	TOTAL
	13-AL-27	1	2.928-9	5.519-9	62 2429	34	TOTAL
N	13-AL-27	1	7.000-8	6.350-7	70 3627	4	TOTAL
	13-AL-27	1	1.130-6	3.600-3	52 216	89	TOTAL
	13-AL-27	1	1.440-6	1.440-6	65 949	1	TOTAL
	13-AL-27	1	1.150-4	3.000-4	49 844	2	TOTAL
	13-AL-27	1	1.500-3	4.480-1	59 507	518	TOTAL
C	13-AL-27	1	3.985-3	2.179-1	65 814	1991	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 13027

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 13027

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	13-AL-27	1	4.059-	3 4.191-	1 75 1600	432	TOTAL
	13-AL-27	1	4.680-	3 6.350-	3 58 15	18	TOTAL
	13-AL-27	1	2.750-	2 1.710-	1 64 813	111	TOTAL
	13-AL-27	1	2.750-	2 6.260-	1 69 914	919	TOTAL
N	13-AL-27	1	3.000-	2 1.195+	0 73 3797	517	TOTAL
N	13-AL-27	1	3.600-	2 2.320+	0 66 4017	26	TOTAL
N	13-AL-27	1	1.874-	1 4.858+	1 72 3458	3701	TOTAL
	13-AL-27	1	3.195-	1 1.515+	0 66 885	8 3	TOTAL
	13-AL-27	1	4.500-	1 2.250+	0 61 1000	7	TOTAL
C	13-AL-27	1	4.946-	1 1.606+	1 69 2620	3384	TOTAL
	13-AL-27	1	5.000-	1 3.127+	1 70 2517	5101	TOTAL
	13-AL-27	1	5.556-	1 6.033+	1 57 815	86	TOTAL
	13-AL-27	1	5.810-	1 3.800+	0 47 47	73	TOTAL
	13-AL-27	1	6.050-	1 1.207+	0 66 1683	173	TOTAL
	13-AL-27	1	7.564-	1 7.564-	1 66 2584	1	TOTAL
	13-AL-27	1	8.000-	1 7.760+	0 53 429	198	TOTAL
	13-AL-27	1	9.000-	1 9.000-	1 41 170	1	TOTAL
	13-AL-27	1	9.803-	1 3.990+	0 62 1012	4	TOTAL
N	13-AL-27	1	1.700+	0 1.430+	1 74 4014	12	TOTAL
	13-AL-27	1	1.815+	0 1.299+	1 67 1747	442	TOTAL
	13-AL-27	1	1.850+	0 6.880+	0 62 826	5	TOTAL
	13-AL-27	1	1.880+	0 3.780+	0 53 29	96	TOTAL
	13-AL-27	1	1.995+	0 1.005+	1 67 1508	311	TOTAL
	13-AL-27	1	2.000+	0 5.941+	0 51 336	28	TOTAL
	13-AL-27	1	2.270+	0 1.476+	1 67 750	245	TOTAL
	13-AL-27	1	2.420+	0 2.580+	0 54 111	9	TOTAL
	13-AL-27	1	2.480+	0 5.210+	0 62 478	100	TOTAL
	13-AL-27	1	2.700+	0 2.700+	0 67 1527	1	TOTAL
	13-AL-27	1	2.760+	0 2.760+	0 52 341	1	TOTAL
	13-AL-27	1	2.770+	0 2.770+	0 65 1562	1	TOTAL
	13-AL-27	1	2.920+	0 1.308+	1 54 504	35	TOTAL
	13-AL-27	1	3.710+	0 5.240+	0 65 1737	28	TOTAL
	13-AL-27	1	4.050+	0 8.100+	0 58 400	37	TOTAL
	13-AL-27	1	4.100+	0 4.100+	0 55 296	1	TOTAL
	13-AL-27	1	5.482+	0 7.359+	0 66 1003	71	TOTAL
	13-AL-27	1	7.010+	0 1.439+	1 57 22	6	TOTAL
	13-AL-27	1	8.940+	0 8.740+	0 69 2025	1	TOTAL
	13-AL-27	1	1.230+	1 1.600+	1 66 1702	38	TOTAL
	13-AL-27	1	1.253+	1 1.700+	1 63 378	27	TOTAL
	13-AL-27	1	1.279+	1 2.080+	1 60 622	10	TOTAL
	13-AL-27	1	1.300+	1 1.620+	1 55 133	7	TOTAL
	13-AL-27	1	1.370+	1 1.476+	1 58 349	20	TOTAL
	13-AL-27	1	1.400+	1 1.400+	1 52 81	1	TOTAL
	13-AL-27	1	1.400+	1 1.400+	1 52 207	1	TOTAL
	13-AL-27	1	1.400+	1 1.400+	1 59 567	1	TOTAL
	13-AL-27	1	1.400+	1 1.400+	1 62 1740	1	TOTAL
	13-AL-27	1	1.410+	1 1.800+	1 54 107	3	TOTAL
	13-AL-27	1	1.450+	1 1.450+	1 70 3300	1	TOTAL
	13-AL-27	1	1.467+	1 1.467+	1 61 711	1	TOTAL
	13-AL-27	1	1.480+	1 1.480+	1 57 368	1	TOTAL
	13-AL-27	1	1.480+	1 1.480+	1 69 2988	1	TOTAL
	13-AL-27	1	1.580+	1 1.175+	2 61 789	60	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 13027

07/04/76

EC51L-7600 REACTION INDEX (2A ORDERED)

2A = 13027

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	1		1.800+ 1	2.770+ 1	60 673	5	TOTAL
13-AL-27	1		1.900+ 1	1.900+ 1	53 274	1	TOTAL
N 13-AL-27	1		2.140+ 1	4.415+ 1	74 3527	9	TOTAL
13-AL-27	1		2.540+ 1	2.540+ 1	45 307	1	TOTAL
13-AL-27	1		2.640+ 1	2.640+ 1	61 233	1	TOTAL
13-AL-27	1		2.925+ 1	5.890+ 1	72 3196	7	TOTAL
13-AL-27	1		3.000+ 1	1.530+ 2	53 355	9	TOTAL
13-AL-27	1		4.200+ 1	4.200+ 1	50 291	1	TOTAL
13-AL-27	1		4.750+ 1	8.800+ 1	54 343	2	TOTAL
13-AL-27	1		8.820+ 1	1.509+ 2	66 1056	7	TOTAL
13-AL-27	1		9.000+ 1	9.000+ 1	49 286	1	TOTAL
13-AL-27	1		9.340+ 1	1.068+ 2	55 282	4	TOTAL
13-AL-27	1		9.480+ 1	1.079+ 2	54 39	4	TOTAL
13-AL-27	1		9.500+ 1	9.500+ 1	50 12	1	TOTAL
13-AL-27	1		9.940+ 1	1.519+ 2	68 2189	6	TOTAL
13-AL-27	1		3.790+ 2	1.731+ 3	71 3264	15	TOTAL
13-AL-27	1		1.400+ 3	1.400+ 3	55 2056	1	TOTAL
13-AL-27	1		3.800+ 3	3.800+ 3	70 3195	1	TOTAL
13-AL-27	1		5.000+ 3	5.000+ 3	61 1566	1	TOTAL
13-AL-27	1		5.700+ 3	5.700+ 3	69 3160	1	TOTAL
13-AL-27	1		8.300+ 3	8.300+ 3	62 1657	1	TOTAL
13-AL-27	1		2.650+ 4	2.650+ 4	71 3180	1	TOTAL
13-AL-27	1		2.700+ 4	2.700+ 4	58 2350	1	TOTAL
M 13-AL-27	1		3.400+ 4	2.730+ 5	74 3618	7	TOTAL
13-AL-27	1	9	2.050-10	5.520- 9	55 2057	79	TOTAL
13-AL-27	2		2.200- 1	2.200- 1	60 596	1	ELASTIC
13-AL-27	2		3.000- 1	3.000- 1	63 1699	1	ELASTIC
13-AL-27	2		3.000- 1	1.500+ 0	66 885	27	ELASTIC
13-AL-27	2		5.000- 1	8.000- 1	64 886	2	ELASTIC
13-AL-27	2		6.500- 1	6.500- 1	63 1750	1	ELASTIC
13-AL-27	2		9.800- 1	3.990+ 0	62 1012	4	ELASTIC
13-AL-27	2		1.500+ 0	1.500+ 0	68 2996	1	ELASTIC
13-AL-27	2		2.470+ 0	8.050+ 0	69 2890	8	ELASTIC
13-AL-27	2		2.760+ 0	2.760+ 0	63 820	1	ELASTIC
13-AL-27	2		3.100+ 0	3.100+ 0	61 246	1	ELASTIC
13-AL-27	2		5.440+ 0	8.560+ 0	72 3230	4	ELASTIC
13-AL-27	2		1.400+ 1	1.400+ 1	59 567	1	ELASTIC
13-AL-27	2		1.450+ 1	1.450+ 1	58 403	1	ELASTIC
13-AL-27	3		1.000+ 0	4.500+ 0	55 122	2	NONELASTIC
13-AL-27	3		1.020+ 0	1.020+ 0	55 353	1	NONELASTIC
13-AL-27	3		1.770+ 0	7.000+ 0	56 151	5	NONELASTIC
13-AL-27	3		2.500+ 0	2.500+ 0	56 34	1	NONELASTIC
13-AL-27	3		2.500+ 0	1.400+ 1	55 790	4	NONELASTIC
13-AL-27	3		3.500+ 0	1.410+ 1	55 130	5	NONELASTIC
13-AL-27	3		4.100+ 0	4.100+ 0	55 296	1	NONELASTIC
13-AL-27	3		7.300+ 0	1.280+ 1	57 24	5	NONELASTIC
13-AL-27	3		8.100+ 0	8.100+ 0	65 1228	1	NONELASTIC
13-AL-27	3		1.410+ 1	1.410+ 1	55 117	1	NONELASTIC
13-AL-27	3		1.410+ 1	1.410+ 1	57 199	1	NONELASTIC
13-AL-27	3		1.415+ 1	1.415+ 1	52 82	1	NONELASTIC
13-AL-27	3		1.420+ 1	1.420+ 1	57 319	1	NONELASTIC
13-AL-27	3		1.430+ 1	1.610+ 1	61 706	3	NONELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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2A = 13027

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 13027

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	3		1.450+ 1	1.450+ 1	56 200	1	NONELASTIC
13-AL-27	3		1.480+ 1	1.480+ 1	57 1656	1	NONELASTIC
13-AL-27	3		2.550+ 1	2.550+ 1	58 356	1	NONELASTIC
13-AL-27	3		5.500+ 1	1.400+ 2	56 312	4	NONELASTIC
13-AL-27	3		3.790+ 2	1.731+ 3	71 3264	15	NONELASTIC
13-AL-27	3		1.400+ 3	1.400+ 3	55 2056	1	NONELASTIC
13-AL-27	3		5.000+ 3	5.000+ 3	61 1566	1	NONELASTIC
13-AL-27	5		3.000+ 2	1.450+ 0	56 231	31	TOTAL SCATTERING
13-AL-27	5		2.000+ 1	2.200+ 0	54 3058	24	TOTAL SCATTERING
13-AL-27	5		9.800+ 1	9.80+ 1	63 879	1	TOTAL SCATTERING
N 13-AL-27	11		1.020+ 0	3.700+ 0	67 4029	30	N,N'
N 13-AL-27	11		2.800+ 0	2.800+ 0	69 3400	1	N,N'
13-AL-27	11		7.000+ 0	7.000+ 0	63 836	1	N,N'
13-AL-27	11	1	1.200+ 0	1.200+ 0	63 828	2	N,N'
13-AL-27	11	1	1.400+ 0	3.990+ 0	52 1012	22	N,N'
13-AL-27	11	1	2.760+ 0	2.760+ 0	63 820	2	N,N'
N 13-AL-27	11	1	2.960+ 0	3.360+ 0	67 3397	2	N,N'
13-AL-27	11	1	3.500+ 0	3.500+ 0	58 2371	5	N,N'
13-AL-27	11	1	3.500+ 0	4.800+ 0	61 1751	12	N,N'
C 13-AL-27	11	1	4.190+ 0	8.560+ 0	70 3230	75	N,N'
N 13-AL-27	11	7	1.020+ 0	3.700+ 0	67 4029	102	N,N'
N 13-AL-27	11	7	1.900+ 0	3.900+ 0	74 4090	25	N,N'
13-AL-27	11	7	1.400+ 1	1.400+ 1	64 1859	3	N,N'
N 13-AL-27	11	7	1.460+ 1	1.460+ 1	69 4078	1	N,N'
N 13-AL-27	11	8	1.780+ 0	3.360+ 0	67 3397	5	N,N'
C 13-AL-27	11	8	7.600+ 0	7.600+ 0	70 3230	1	N,N'
N 13-AL-27	11	10	1.460+ 1	1.460+ 1	69 4078	1	N,N'
13-AL-27	12	2	1.39+ 1	1.798+ 1	65 1709	9	N,2N
13-AL-27	12	2	1.620+ 1	2.020+ 1	60 230	9	N,2N
13-AL-27	14		1.400+ 1	1.400+ 1	57 217	1	N,N'P
13-AL-27	14		1.400+ 1	1.400+ 1	61 361	1	N,N'P
13-AL-27	14		1.440+ 1	1.440+ 1	62 688	1	N,N'P
13-AL-27	14		1.480+ 1	1.480+ 1	61 658	1	N,N'P
13-AL-27	21		2.530+ 8	2.530+ 8	58 1162	1	ABSORPTION
13-AL-27	21		2.530+ 8	2.530+ 8	60 2532	1	ABSORPTION
13-AL-27	21		2.530+ 8	2.530+ 8	61 2569	1	ABSORPTION
13-AL-27	21		2.530+ 8	2.530+ 8	66 1491	1	ABSORPTION
N 13-AL-27	21		2.530+ 8	2.530+ 8	68 3468	1	ABSORPTION
13-AL-27	21		2.500+ 2	8.300+ 1	58 364	3	ABSORPTION
13-AL-27	23		2.530+ 8	2.530+ 8	47 888	1	N,GAMMA
13-AL-27	23		2.530+ 8	2.530+ 8	62 2573	1	N,GAMMA
N 13-AL-27	23		2.530+ 8	8.350+ 7	70 227	5	N,GAMMA
C 13-AL-27	23		3.981+ 3	1.426+ 1	68 2552	601	N,GAMMA
13-AL-27	23		1.200+ 2	5.150+ 1	50 61	100	N,GAMMA
13-AL-27	23		2.100+ 2	2.100+ 2	58 43	1	N,GAMMA
13-AL-27	23		2.100+ 2	2.100+ 2	58 357	1	N,GAMMA
13-AL-27	23		2.400+ 2	2.400+ 2	57 305	1	N,GAMMA
13-AL-27	23		3.000+ 2	3.000+ 2	61 677	1	N,GAMMA
13-AL-27	23		3.000+ 2	3.000+ 2	63 1	1	N,GAMMA
13-AL-27	23		2.000+ 1	2.000+ 1	58 363	1	N,GAMMA
13-AL-27	23		4.000+ 1	3.760+ 0	53 429	65	N,GAMMA
13-AL-27	23		2.900+ 0	2.900+ 0	68 3375	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 13027

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 13027

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	23		3.000+ 0	3.000+ 0	67 1991	1	N, GAMMA
13-AL-27	23		3.440+ 0	5.000+ 0	62 478	30	N, GAMMA
13-AL-27	23		1.410+ 1	1.410+ 1	69 3017	1	N, GAMMA
13-AL-27	23		1.410+ 1	1.410+ 1	70 3810	1	N, GAMMA
N 13-AL-27	23		1.440+ 1	1.440+ 1	72 3963	1	N, GAMMA
13-AL-27	23		1.450+ 1	1.450+ 1	57 521	1	N, GAMMA
13-AL-27	23		1.460+ 1	1.460+ 1	63 372	1	N, GAMMA
13-AL-27	23		1.470+ 1	1.470+ 1	67 1695	1	N, GAMMA
N 13-AL-27	23	3	2.400- 2	2.400- 2	68 2856	1	N, GAMMA
13-AL-27	24		2.250+ 0	2.900+ 0	41 194	7	N, X GAMMA
13-AL-27	24		1.420+ 1	1.420+ 1	53 294	1	N, X GAMMA
13-AL-27	24	7	1.015+ 0	2.788+ 0	54 111	208	N, X GAMMA
13-AL-27	24	7	2.560+ 0	2.560+ 0	56 140	4	N, X GAMMA
13-AL-27	24	7	3.500+ 0	3.500+ 0	68 2371	5	N, X GAMMA
13-AL-27	24	7	3.570+ 0	4.870+ 0	65 1713	17	N, X GAMMA
13-AL-27	24	7	1.400+ 1	1.400+ 1	60 1721	5	N, X GAMMA
13-AL-27	24	7	1.400+ 1	1.400+ 1	61 850	5	N, X GAMMA
13-AL-27	24	7	1.400+ 1	1.400+ 1	66 1839	9	N, X GAMMA
13-AL-27	24	7	1.400+ 1	1.400+ 1	68 2987	4	N, X GAMMA
13-AL-27	24	7	1.410+ 1	1.410+ 1	63 1723	5	N, X GAMMA
13-AL-27	24	7	1.420+ 1	1.420+ 1	53 294	3	N, X GAMMA
13-AL-27	24	10	1.410+ 1	1.410+ 1	63 1723	1	N, X GAMMA
13-AL-27	26		2.440+ 0	1.410+ 1	67 1500	12	N, P
13-AL-27	26		2.650+ 0	5.100+ 0	62 478	48	N, P
13-AL-27	26		2.630+ 0	5.180+ 0	54 430	38	N, P
C 13-AL-27	26		2.805+ 0	9.960+ 0	73 3342	160	N, P
13-AL-27	26		6.000+ 0	9.060+ 0	66 1684	121	N, P
N 13-AL-27	26		8.000+ 0	9.300+ 0	72 3426	4	N, P
13-AL-27	26		1.192+ 1	2.072+ 1	60 230	17	N, P
13-AL-27	26		1.235+ 1	1.389+ 1	67 1712	40	N, P
13-AL-27	26		1.240+ 1	1.770+ 1	62 806	15	N, P
13-AL-27	26		1.303+ 1	1.703+ 1	59 579	31	N, P
13-AL-27	26		1.400+ 1	1.400+ 1	57 217	1	N, P
13-AL-27	26		1.400+ 1	1.400+ 1	61 361	1	N, P
13-AL-27	26		1.410+ 1	1.410+ 1	52 84	1	N, P
13-AL-27	26		1.410+ 1	1.410+ 1	57 159	1	N, P
13-AL-27	26		1.410+ 1	1.410+ 1	60 837	1	N, P
13-AL-27	26		1.410+ 1	1.410+ 1	61 651	1	N, P
13-AL-27	26		1.414+ 1	1.414+ 1	57 535	1	N, P
13-AL-27	26		1.420+ 1	1.420+ 1	68 1944	1	N, P
13-AL-27	26		1.420+ 1	1.420+ 1	69 2334	1	N, P
13-AL-27	26		1.440+ 1	1.410+ 1	62 680	1	N, P
13-AL-27	26		1.440+ 1	1.440+ 1	68 2695	1	N, P
13-AL-27	26		1.450+ 1	1.450+ 1	53 27	1	N, P
13-AL-27	26		1.450+ 1	1.450+ 1	69 2050	1	N, P
13-AL-27	26		1.460+ 1	1.460+ 1	63 372	1	N, P
13-AL-27	26		1.470+ 1	1.470+ 1	62 89	1	N, P
13-AL-27	26		1.470+ 1	1.470+ 1	64 1849	1	N, P
13-AL-27	26		1.480+ 1	1.480+ 1	59 562	1	N, P
13-AL-27	26		1.480+ 1	1.480+ 1	61 660	1	N, P
13-AL-27	26		1.480+ 1	1.480+ 1	66 907	1	N, P
13-AL-27	26		1.480+ 1	1.480+ 1	70 3150	1	N, P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 13027

07/04/78

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 13027

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	13-AL-27	26	1.480+	1.480+	1 71 3200	1	N,P
N	13-AL-27	26	1.480+	1.480+	1 72 3832	1	N,P
	13-AL-27	26	1.500+	1.500+	1 60 628	1	N,P
	13-AL-27	26	1 7.900+	0 7.900+	0 67 1914	3	N,P
N	13-AL-27	26	1 1.460+	1 1.460+	1 73 3987	1	N,P
	13-AL-27	26	3 1.400+	1 1.400+	1 59 619	1	N,P
	13-AL-27	26	3 1.410+	1 1.410+	1 61 630	1	N,P
	13-AL-27	26	7 1.400+	1 1.400+	1 84 1859	1	N,P
	13-AL-27	27	1 1.320+	1 1.320+	1 57 847	1	N,X P
	13-AL-27	27	1 1.480+	1 1.480+	1 61 658	1	N,X P
N	13-AL-27	30	1 1.470+	1 1.470+	1 73 3996	1	N,T
	13-AL-27	32	1 1.480+	1 1.480+	1 60 667	1	N,HE-3
	13-AL-27	34	5.950+	0 1.410+	1 67 1500	6	N,ALPHA
	13-AL-27	34	6.130+	0 1.476+	1 61 734	39	N,ALPHA
	13-AL-27	34	6.730+	0 9.010+	0 58 321	6	N,ALPHA
	13-AL-27	34	7.000+	0 1.976+	1 60 588	15	N,ALPHA
N	13-AL-27	34	7.700+	0 9.300+	0 72 3426	4	N,ALPHA
	13-AL-27	34	8.400+	0 1.510+	1 60 590	15	N,ALPHA
	13-AL-27	34	1.192+	1 2.072+	1 60 230	24	N,ALPHA
	13-AL-27	34	1.250+	1 1.770+	1 62 806	23	N,ALPHA
	13-AL-27	34	1.263+	1 1.959+	1 65 1738	23	N,ALPHA
	13-AL-27	34	1.266+	1 1.798+	1 64 445	4	N,ALPHA
	13-AL-27	34	1.303+	1 1.570+	1 59 533	12	N,ALPHA
	13-AL-27	34	1.410+	1 1.410+	1 65 899	1	N,ALPHA
	13-AL-27	34	1.414+	1 1.414+	1 57 535	1	N,ALPHA
	13-AL-27	34	1.443+	1 1.443+	1 70 3384	1	N,ALPHA
	13-AL-27	34	1.460+	1 1.460+	1 62 702	1	N,ALPHA
	13-AL-27	34	1.460+	1 1.460+	1 63 372	1	N,ALPHA
	13-AL-27	34	1.460+	1 1.460+	1 64 1735	1	N,ALPHA
	13-AL-27	34	1.470+	1 1.470+	1 67 1902	1	N,ALPHA
	13-AL-27	34	1.470+	1 1.470+	1 69 3351	1	N,ALPHA
N	13-AL-27	34	1.470+	1 1.470+	1 70 3197	1	N,ALPHA
	13-AL-27	34	1.479+	1 1.479+	1 69 2354	1	N,ALPHA
	13-AL-27	34	1.480+	1 1.480+	1 59 662	1	N,ALPHA
	13-AL-27	34	1.480+	1 1.480+	1 64 843	1	N,ALPHA
	13-AL-27	34	1.480+	1 1.480+	1 68 2711	1	N,ALPHA
N	13-AL-27	34	1.480+	1 1.480+	1 71 3200	1	N,ALPHA
	13-AL-27	34	1.500+	1 1.500+	1 60 628	1	N,ALPHA
	13-AL-27	34	2 1.450+	1 1.450+	1 53 829	1	N,ALPHA
	13-AL-27	34	2 1.480+	1 1.480+	1 71 3200	1	N,ALPHA
	13-AL-27	34	4 5.450+	0 2.030+	1 63 376	45	N,ALPHA
	13-AL-27	34	4 6.060+	0 8.200+	0 66 1714	17	N,ALPHA
	13-AL-27	34	4 6.130+	0 1.939+	1 67 1686	10	N,ALPHA
	13-AL-27	34	4 1.234+	1 1.485+	1 67 1712	54	N,ALPHA
	13-AL-27	34	4 1.255+	1 2.100+	1 63 374	8	N,ALPHA
	13-AL-27	34	4 1.260+	1 1.960+	1 61 713	5	N,ALPHA
	13-AL-27	34	4 1.400+	1 1.400+	1 59 619	1	N,ALPHA
	13-AL-27	34	4 1.410+	1 1.410+	1 52 84	1	N,ALPHA
	13-AL-27	34	4 1.450+	1 1.450+	1 53 27	1	N,ALPHA
	13-AL-27	34	4 1.470+	1 1.470+	1 64 1848	1	N,ALPHA
N	13-AL-27	34	80 1.350+	1 1.490+	1 74 3487	94	N,ALPHA
	13-AL-27	34	80 1.367+	1 1.499+	1 67 2594	50	N,ALPHA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 13027

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 13027

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	35		1.480+ 1	1.480+ 1	58 537	1	N,X ALPHA
13-AL-27	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
13-AL-27	41		9.410- 6	9.410- 6	65 1753	1	BOUND ATOM
13-AL-27	42		9.410- 6	9.410- 6	65 1753	1	FREE ATOM
13-AL-27	43		7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING
13-AL-27	43		9.410- 6	9.410- 6	65 1753	1	COHERENT SCATTERING
13-AL-27	44		2.530- 8	2.530- 8	63 2663	1	INCOHERENT SCATTER.
N 13-AL-27	61	7	1.000+ 0	1.000+ 0	70 3425	6	N,N
13-AL-27	71		2.500- 8	2.500- 8	50 1794	1	ABSORPTION
13-AL-27	71		2.500- 8	2.500- 8	51 882	1	ABSORPTION
13-AL-27	71		2.500- 8	2.500- 8	51 2863	1	ABSORPTION
13-AL-27	71		2.500- 8	2.500- 8	60 2578	1	ABSORPTION
13-AL-27	71		2.500- 8	2.500- 8	63 2635	1	ABSORPTION
13-AL-27	73		2.500- 8	2.500- 8	49 2742	1	N,GAMMA
13-AL-27	73		2.500- 8	2.500- 8	56 2574	1	N,GAMMA
N 13-AL-27	73		5.500- 3	4.500- 1	75 4005	8	N,GAMMA
13-AL-27	73		2.000+ 0	2.000+ 0	58 363	1	N,GAMMA
13-AL-27	73	7	2.530- 8	2.530- 8	70 2415	76	N,GAMMA
13-AL-27	73	10	2.530- 8	2.530- 8	70 2415	20	N,GAMMA
N 13-AL-27	73	87	2.530- 8	2.530- 8	69 3691	96	N,GAMMA
13-AL-27	74		2.530- 8	2.530- 8	70 2415	1	N,X GAMMA
N 13-AL-27	76		1.000+ 0	1.000+ 0	65 3672	1	N,P
N 13-AL-27	76		1.000+ 0	1.000+ 0	70 3809	1	N,P
13-AL-27	76		2.000+ 0	2.000+ 0	64 1711	1	N,P
13-AL-27	76		4.400+ 0	4.400+ 0	64 1741	1	N,P
N 13-AL-27	76	3	4.500+ 0	4.500+ 0	73 3989	1	N,P
13-AL-27	84		2.000+ 0	2.000+ 0	66 1815	1	N,ALPHA
13-AL-27	84		2.000+ 0	2.000+ 0	68 2990	1	N,ALPHA
N 13-AL-27	84	4	1.000+ 0	1.000+ 0	62 3681	1	N,ALPHA
N 13-AL-27	84	4	1.000+ 0	1.000+ 0	62 3702	1	N,ALPHA
N 13-AL-27	84	4	1.000+ 0	1.000+ 0	65 3671	2	N,ALPHA
13-AL-27	84	4	2.000+ 0	2.000+ 0	64 1711	1	N,ALPHA
13-AL-27	84	4	4.400+ 0	4.400+ 0	64 1741	1	N,ALPHA
13-AL-27	102		7.000- 2	1.140- 1	58 325	26	ELASTIC
13-AL-27	102		1.300- 1	8.000- 1	56 231	40	ELASTIC
13-AL-27	102		2.200- 1	1.200- 1	60 595	5	ELASTIC
13-AL-27	102		3.000- 1	3.000- 1	63 1099	8	ELASTIC
13-AL-27	102		5.000- 1	8.000- 1	64 886	16	ELASTIC
13-AL-27	102		6.000- 1	6.000- 1	56 2031	15	ELASTIC
13-AL-27	102		6.500- 1	6.500- 1	63 1750	8	ELASTIC
13-AL-27	102		9.000- 1	9.000- 1	57 411	5	ELASTIC
13-AL-27	102		9.800- 1	9.800- 1	63 879	7	ELASTIC
13-AL-27	102		9.800- 1	3.990+ 0	62 1012	39	ELASTIC
N 13-AL-27	102		1.500+ 0	1.500+ 0	60 2996	10	ELASTIC
13-AL-27	102		1.950+ 0	1.950+ 0	64 1743	10	ELASTIC
13-AL-27	102		2.400+ 0	2.400+ 0	52 1742	1	ELASTIC
13-AL-27	102		2.470+ 0	8.050+ 0	69 2890	135	ELASTIC
13-AL-27	102		2.500+ 0	7.000+ 0	56 151	22	ELASTIC
13-AL-27	102		2.720+ 0	2.720+ 0	55 479	12	ELASTIC
13-AL-27	102		2.760+ 0	2.760+ 0	67 820	4	ELASTIC
13-AL-27	102		3.100+ 0	3.100+ 0	61 846	10	ELASTIC
13-AL-27	102		3.200+ 0	3.200+ 0	65 2950	13	ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 13027

TARGET	CODE	S	E	MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	13-AL-27	102	3,500+	0	4,800+	0	61 1751	42 ELASTIC
	13-AL-27	102	3,720+	0	3,720+	0	53 297	1 ELASTIC
	13-AL-27	102	4,100+	0	4,100+	0	55 285	11 ELASTIC
	13-AL-27	102	4,400+	0	4,400+	0	56 495	11 ELASTIC
	13-AL-27	102	4,810+	0	5,030+	0	59 3777	53 ELASTIC
N	13-AL-27	102	5,000+	0	5,000+	0	59 358	13 ELASTIC
	13-AL-27	102	5,440+	0	6,560+	0	72 3230	89 ELASTIC
	13-AL-27	102	7,000+	0	7,000+	0	63 836	1 ELASTIC
	13-AL-27	102	7,550+	0	7,500+	0	73 3614	16 ELASTIC
	13-AL-27	102	7,600+	0	7,600+	0	68 2011	13 ELASTIC
N	13-AL-27	102	7,970+	0	9,050+	0	72 3582	27 ELASTIC
	13-AL-27	102	8,000+	0	8,000+	0	68 2749	13 ELASTIC
	13-AL-27	102	8,970+	0	8,970+	0	73 3585	27 ELASTIC
	13-AL-27	102	9,200+	0	9,200+	0	71 4041	1 ELASTIC
	13-AL-27	102	1,400+	1	1,400+	1	59 567	16 ELASTIC
N	13-AL-27	102	1,400+	1	1,400+	1	65 97	19 ELASTIC
	13-AL-27	102	1,410+	1	1,410+	1	58 403	15 ELASTIC
	13-AL-27	102	1,410+	1	1,410+	1	58 557	13 ELASTIC
	13-AL-27	102	1,410+	1	1,410+	1	59 556	16 ELASTIC
	13-AL-27	102	1,410+	1	1,410+	1	60 577	3 ELASTIC
N	13-AL-27	102	1,420+	1	1,420+	1	55 1666	15 ELASTIC
	13-AL-27	102	1,450+	1	1,450+	1	59 1086	30 ELASTIC
	13-AL-27	102	1,470+	1	1,470+	1	57 367	17 ELASTIC
	13-AL-27	105	1,480+	1	1,480+	1	73 3547	18 ELASTIC
	13-AL-27	105	2,400+	1	2,400+	1	62 1746	28 ELASTIC
N	13-AL-27	102	6,400+	1	6,400+	1	50 1748	11 ELASTIC
	13-AL-27	102	9,600+	1	9,600+	1	60 1045	13 ELASTIC
	13-AL-27	102	1,360+	2	1,360+	2	56 1047	15 ELASTIC
	13-AL-27	102	3,000+	2	3,000+	2	52 1749	9 ELASTIC
	13-AL-27	102	3,515+	2	3,515+	2	58 1655	8 ELASTIC
N	13-AL-27	105	8,000+	1	2,200+	0	64 3058	120 TOTAL SCATTERING
	13-AL-27	105	8,000+	1	2,200+	0	56 231	40 TOTAL SCATTERING
	13-AL-27	111	1,2,010+	0	3,990+	0	62 1012	67 N,N'
	13-AL-27	111	2,450+	0	2,450+	0	56 476	1 N,N'
	13-AL-27	111	2,760+	0	2,760+	0	63 820	1 N,N'
N	13-AL-27	111	3,500+	0	4,800+	0	61 1751	99 N,N'
	13-AL-27	111	4,190+	0	4,190+	0	72 3230	478 N,N'
	13-AL-27	111	4,400+	0	4,400+	0	56 486	3 N,N'
	13-AL-27	111	4,810+	0	8,030+	0	69 3777	258 N,N'
	13-AL-27	111	5,850+	0	5,850+	0	71 3654	27 N,N'
N	13-AL-27	111	7,970+	0	9,050+	0	72 3582	80 N,N'
	13-AL-27	111	8,000+	0	8,000+	0	69 2749	39 N,N'
	13-AL-27	111	8,970+	0	8,970+	0	73 3585	91 N,N'
	13-AL-27	111	1,400+	1	1,400+	1	59 567	30 N,N'
	13-AL-27	111	1,420+	1	1,420+	1	71 4041	28 N,N'
N	13-AL-27	111	1,450+	1	1,450+	1	73 3713	45 N,N'
	13-AL-27	111	1,480+	1	1,480+	1	69 3777	1 N,N'
	13-AL-27	114	7,500+	0	8,030+	0	72 3230	17 N,N'
	13-AL-27	114	7,600+	0	8,560+	0	71 3713	1 N,N'
	13-AL-27	124	1,400+	1	1,400+	1	73 3614	340 N,N'
N	13-AL-27	124	1,400+	1	1,400+	1	74 3544	5 N,N'
	13-AL-27	124	1,400+	1	1,400+	1	74 3544	5 N,N'

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 13027

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	13-AL-27	124	7	4.070+ 1	4.570+ 0	65 1713	125 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	9.515+ 1	1.577+ 1	74 3826	222 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	1.120+ 0	2.100+ 0	65 1736	64 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	2.800+ 0	2.800+ 0	65 1715	3 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	2.950+ 0	2.950+ 0	59 818	3 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	3.500+ 0	4.550+ 0	56 485	23 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	3.570+ 0	4.570+ 0	64 1730	27 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	3.700+ 0	3.700+ 0	55 473	3 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	4.000+ 0	7.500+ 0	70 1497	58 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	4.040+ 0	4.040+ 0	62 1724	1 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	4.040+ 0	1.484+ 1	62 1725	9 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	4.100+ 0	4.100+ 0	63 1728	4 N,X GAMMA ANGULAR DISTRIBUTION
N	13-AL-27	124	7	5.350+ 0	9.000+ 0	71 3554	317 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	7.600+ 0	7.600+ 0	68 2011	57 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	7.800+ 0	7.800+ 0	59 1752	3 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	1.400+ 1	1.400+ 1	65 1708	7 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	1.400+ 1	1.400+ 1	74 3544	47 N,X GAMMA ANGULAR DISTRIBUTION
N	13-AL-27	124	7	1.430+ 1	1.430+ 1	67 1710	2 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	1.470+ 1	1.470+ 1	65 1707	11 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	1.480+ 1	1.480+ 1	69 1019	6 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7	1.500+ 1	1.500+ 1	60 1720	8 N,X GAMMA ANGULAR DISTRIBUTION
N	13-AL-27	124	7	1.510+ 1	1.510+ 1	71 3713	1 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	10	1.480+ 1	1.480+ 1	69 1019	16 N,X GAMMA ANGULAR DISTRIBUTION
N	13-AL-27	124	10	1.105+ 0	1.465+ 1	74 3826	295 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	10	4.040+ 0	4.040+ 0	62 1724	4 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	10	4.100+ 0	4.100+ 0	63 1728	4 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	10	1.400+ 1	1.400+ 1	60 1704	7 N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	126	1	1.400+ 1	1.400+ 1	59 1745	45 N,P ANGULAR DISTRIBUTION
N	13-AL-27	126	7	1.510+ 1	1.510+ 1	71 3713	2 N,P ANGULAR DISTRIBUTION
	13-AL-27	127	1	1.440+ 1	1.440+ 1	62 688	6 N,X P ANGULAR DISTRIBUTION
	13-AL-27	128	1	1.480+ 1	1.480+ 1	61 658	37 N,D ANGULAR DISTRIBUTION
	13-AL-27	134	1	1.410+ 1	1.410+ 1	65 899	8 N,ALPHA ANGULAR DISTRIBUTION
	13-AL-27	134	1	1.480+ 1	1.480+ 1	57 474	8 N,ALPHA ANGULAR DISTRIBUTION
N	13-AL-27	134	7	1.510+ 1	1.510+ 1	71 3713	1 N,ALPHA ANGULAR DISTRIBUTION
	13-AL-27	211	1	7.000+ 0	7.000+ 0	67 1883	20 N,N' ENERGY DISTRIBUTION
N	13-AL-27	224	1	1.410+ 1	1.410+ 1	69 3810	24 N,X GAMMA ENERGY DISTRIBUTION
	13-AL-27	235	80	1.400+ 1	1.400+ 1	62 1906	8 N,X ALPHA ENERGY DISTRIBUTION
C	13-AL-27	261	1	1.420+ 1	1.420+ 1	65 1744	4 N,N' INTEGRAL THETA1-THETA2
N	13-AL-27	304	1	1.470+ 1	1.480+ 1	74 4095	560 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	13-AL-27	311	60	9.200+ 0	9.200+ 0	71 4041	1 N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N	13-AL-27	324	1	9.200+ 0	9.200+ 0	71 4041	60 N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N	13-AL-27	324	1	9.450+ 1	1.850+ 1	73 3617	5011 N,X GAMMA DIFF. ENERGY-ANGLE DISTRIBUTION
N	13-AL-27	326	1	6.000+ 0	7.500+ 0	70 1497	124 N,X GAMMA DIFF. ENERGY-ANGLE DISTRIBUTION
N	13-AL-27	334	1	1.480+ 1	1.480+ 1	63 3808	12 N,P DIFF. ENERGY-ANGLE DISTRIBUTION
C	13-AL-27	377	80	1.420+ 1	1.420+ 1	63 1907	51 N,ALPHA DIFF. ENERGY-ANGLE DISTRIBUTION
	13-AL-27	403	1	1.410+ 1	1.410+ 1	61 3296	75 N,X P INTEGRAL E1-E2, THETA1-THETA2
	13-AL-27	406	1	1.420+ 1	1.420+ 1	58 905	1 INTEGRAL E1-E2
	13-AL-27	426	1	1.400+ 1	1.400+ 1	57 391	1 NONELASTIC EMISSION INTEGRAL E1-E2
	13-AL-27	427	60	1.420+ 1	1.420+ 1	61 3296	1 N,P INTEGRAL E1-E2
	13-AL-27	452	1	3.000+ 1	1.500+ 0	66 885	23 N,X P INTEGRAL E1-E2
C	13-AL-27	523	1	4.000+ 7	1.000+ 0	70 3335	106 ELASTIC LEGENDRE EXPANSIONS OF ANGULAR DIST. RESONANCE INTEGRAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 13027

07/04/70

ECLIL-7500 REACTION INDEX (ZA ORDERED)

ZA = 13027

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	611		2.400+ 0	2.400+ 0	52 1742	1	N,N'
13-AL-27	624		3.500+ 0	8.500+ 0	64 1671	47	N,X GAMMA
13-AL-27	624		1.500	1.500+ 1	60 1720	6	N,X GAMMA
13-AL-27	626		1.410+ 1	1.410+ 1	57 159	5	N,P
13-AL-27	627		1.320+ 1	1.320+ 1	57 647	41	N,X P
13-AL-27	634		1.400+ 1	1.400+ 1	62 1906	5	N,ALPHA
13-AL-27	634		1.410+ 1	1.410+ 1	65 899	16	N,ALPHA
13-AL-27	634		1.480+ 1	1.480+ 1	63 1907	6	N,ALPHA
N	13-AL-27	876	2.805+ 0	9.950+ 0	73 3342	82	N,P
N	13-AL-27		9.200+ 0	9.200+ 0	71 4041	1	NUCLEAR TEMPERATURE
	13-AL-27		1.400+ 1	1.400+ 1	65 385	2	NUCLEAR TEMPERATURE
	13-AL-27		1.410+ 1	1.410+ 1	65 1908	1	NUCLEAR TEMPERATURE
N	13-AL-27		2.500- 3	5.000- 1	75 4005	3	AVERAGE RESONANCE PARAMETERS
N	13-AL-27		5.895- 3	2.020- 1	75 3600	2	AVERAGE RESONANCE PARAMETERS
	13-AL-27		5.600- 3	5.600- 3	58 15	1	RESONANCE PARAMETERS
	13-AL-27		5.880- 3	3.500- 2	69 2942	3	RESONANCE PARAMETERS
N	13-AL-27		5.895- 3	2.020- 1	75 3600	21	RESONANCE PARAMETERS
	13-AL-27		5.903- 3	2.081- 1	71 3117	24	RESONANCE PARAMETERS
	13-AL-27		5.906- 3	3.870- 1	64 814	20	RESONANCE PARAMETERS
	13-AL-27		6.000- 3	4.450- 1	59 607	195	RESONANCE PARAMETERS
	13-AL-27		6.400- 3	6.400- 3	54 2409	3	RESONANCE PARAMETERS
	13-AL-27		3.500- 2	9.000- 2	55 2013	5	RESONANCE PARAMETERS
N	13-AL-27		3.570- 2	3.570- 2	70 3716	2	RESONANCE PARAMETERS
	13-AL-27		4.500- 2	7.950- 1	47 47	10	RESONANCE PARAMETERS
	13-AL-27		8.800- 2	8.800- 2	58 225	3	RESONANCE PARAMETERS
	13-AL-27		6.300- 1	1.174+ 0	67 2433	19	RESONANCE PARAMETERS
	AL203	1	1.440- 6	1.440- 6	65 949	1	TOTAL
	AL203	102	5.000+ 0	5.000+ 0	58 398	13	ELASTIC
	14-SI-NAT	1	1.350- 8	2.200- 4	48 173	58	TOTAL
	14-SI-NAT	1	1.440- 6	1.440- 6	65 949	1	TOTAL
	14-SI-NAT	1	1.200- 3	1.200- 2	56 243	14	TOTAL
	14-SI-NAT	1	1.200- 2	7.960- 1	51 69	73	TOTAL
N	14-SI-NAT	1	1.873- 1	4.849+ 1	72 3458	3693	TOTAL
	14-SI-NAT	1	4.959- 1	2.005+ 1	71 3162	3454	TOTAL
	14-SI-NAT	1	5.001- 1	3.194+ 1	68 2517	5115	TOTAL
	14-SI-NAT	1	5.083- 1	1.256+ 0	65 1755	439	TOTAL
	14-SI-NAT	1	5.440- 1	1.210+ 0	63 455	161	TOTAL
	14-SI-NAT	1	5.800- 1	4.810+ 0	50 64	107	TOTAL
N	14-SI-NAT	1	6.000- 1	1.700+ 0	66 4017	5	TOTAL
N	14-SI-NAT	1	1.208+ 0	4.952+ 0	73 3945	789	TOTAL
	14-SI-NAT	1	1.850+ 0	3.780+ 0	53 29	98	TOTAL
	14-SI-NAT	1	2.260+ 0	1.489+ 1	67 750	243	TOTAL
	14-SI-NAT	1	2.760+ 0	5.210+ 0	63 419	84	TOTAL
	14-SI-NAT	1	2.940+ 0	1.320+ 1	54 504	41	TOTAL
C	14-SI-NAT	1	3.051+ 0	5.048+ 0	63 642	59	TOTAL
N	14-SI-NAT	1	3.100+ 0	3.100+ 0	72 3973	1	TOTAL
N	14-SI-NAT	1	3.340+ 0	5.105+ 0	65 3657	63	TOTAL
	14-SI-NAT	1	4.500+ 0	1.431+ 1	67 1747	506	TOTAL
N	14-SI-NAT	1	4.750+ 0	1.402+ 1	69 2370	311	TOTAL
	14-SI-NAT	1	5.429+ 0	8.530+ 0	66 1003	93	TOTAL
	14-SI-NAT	1	1.253+ 1	1.700+ 1	63 378	27	TOTAL
	14-SI-NAT	1	1.400+ 1	1.400+ 1	52 81	1	TOTAL

ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1- 54 ***

ZA = 14000

07/04/76

ECSIL-7600 REACTION INDEX (2A ORDERED)

2A = 14000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
14-SI-NAT	1		1.450+1	1.450+1	70 330G	1	TOTAL
14-SI-NAT	1		1.800+1	2.760+1	60 673	4	TOTAL
14-SI-NAT	1		1.900+1	1.900+1	53 274	1	TOTAL
14-SI-NAT	1		2.925+1	5.890+1	72 3196	7	TOTAL
14-SI-NAT	1		9.340+1	1.068+2	55 282	4	TOTAL
14-SI-NAT	1		9.450+1	1.079+2	54 39	4	TOTAL
14-SI-NAT	2		3.000-1	8.000-1	64 2339	3	ELASTIC
14-SI-NAT	2		5.700-1	2.280+0	66 2593	7	ELASTIC
14-SI-NAT	2		9.000-1	9.000-1	62 901	1	ELASTIC
14-SI-NAT	2		1.500+0	1.500+0	68 2996	1	ELASTIC
N 14-SI-NAT	2		2.450+0	5.800+0	60 1756	5	ELASTIC
14-SI-NAT	2		3.100+0	3.100+0	61 846	1	ELASTIC
14-SI-NAT	2		4.000+0	5.750+0	67 2591	8	ELASTIC
14-SI-NAT	2		4.000+0	7.500+0	69 2862	4	ELASTIC
N 14-SI-NAT	2		9.800+0	9.800+0	72 3440	1	ELASTIC
14-SI-NAT	2		1.410+1	1.410+1	64 845	1	ELASTIC
14-SI-NAT	3		1.450+1	1.450+1	55 200	1	NONELASTIC
14-SI-NAT	5		3.000-2	1.810+0	60 571	62	TOTAL SCATTERING
14-SI-NAT	11		2.830+0	3.830+0	66 1554	9	N,N'
14-SI-NAT	11	1	4.000+0	7.500+0	69 2862	12	N,N'
N 14-SI-NAT	11	1	9.800+0	9.800+0	72 3440	1	N,N'
14-SI-NAT	23		2.500-2	8.300-1	60 633	3	N,GAMMA
14-SI-NAT	23		3.000-2	3.000-2	61 677	1	N,GAMMA
14-SI-NAT	23		3.000-2	6.500-2	63 1	2	N,GAMMA
C 14-SI-NAT	23		1.410+1	1.410+1	70 2232	1	N,GAMMA
14-SI-NAT	24		2.250+0	2.900+0	41 194	7	N,X GAMMA
14-SI-NAT	24	7	4.000+0	7.500+0	69 2862	18	N,X GAMMA
14-SI-NAT	24	7	1.410+1	1.410+1	63 1723	1	N,X GAMMA
N 14-SI-NAT	24	10	8.000+0	1.100+1	69 3501	4	N,X GAMMA
14-SI-NAT	24	10	1.410+1	1.410+1	63 1723	1	N,X GAMMA
14-SI-NAT	26		1.440+1	1.440+1	62 68R	1	N,P
14-SI-NAT	42		9.420-6	9.420-6	65 1759	1	FREE ATOM
14-SI-NAT	43		2.500-8	2.500-8	72 3240	1	COHERENT SCATTERING
14-SI-NAT	43		2.530-8	2.530-8	51 2564	1	COHERENT SCATTERING
N 14-SI-NAT	43		2.530-8	2.530-8	73 3626	1	COHERENT SCATTERING
14-SI-NAT	44		9.420-6	9.420-6	65 1759	1	INCOHERENT SCATTER.
14-SI-NAT	71		2.500-8	2.500-8	50 1523	1	ABSORPTION
14-SI-NAT	71		2.500-8	2.500-8	50 1794	1	ABSORPTION
14-SI-NAT	71		2.500-8	2.500-8	51 882	1	ABSORPTION
14-SI-NAT	73	7	2.530-8	2.530-8	70 2415	55	N,GAMMA
N 14-SI-NAT	73	7	2.530-8	2.530-8	70 3692	3	N,GAMMA
14-SI-NAT	74		2.530-8	2.530-8	71 2415	1	N,X GAMMA
14-SI-NAT	102		3.000-2	1.810+0	60 571	488	ELASTIC
14-SI-NAT	102		3.000-1	8.000-1	64 2339	24	ELASTIC
14-SI-NAT	102		6.340-1	1.181+0	66 1755	132	ELASTIC
14-SI-NAT	102		9.000-1	9.000-1	62 901	5	ELASTIC
N 14-SI-NAT	102		1.570+0	1.500+0	68 2996	10	ELASTIC
14-SI-NAT	102		1.950+0	1.950+0	64 1743	10	ELASTIC
N 14-SI-NAT	102		2.250+0	6.000+0	60 1756	103	ELASTIC
14-SI-NAT	102		2.320+0	3.830+0	66 1554	11	ELASTIC
14-SI-NAT	102		3.100+0	3.100+0	61 846	10	ELASTIC
14-SI-NAT	102		3.200+0	3.200+0	66 2950	12	ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 55 ***

2A = 14000

07/34/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 14000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
14-SI-NAT	102		3.500+ 0	4.8+ 0	61 1751	41	ELASTIC ANGULAR DISTRIBUTION
14-SI-NAT	102		4.000+ 0	5.750+ 0	67 2591	152	ELASTIC ANGULAR DISTRIBUTION
14-SI-NAT	102		4.000+ 0	7.500+ 0	69 2862	24	ELASTIC ANGULAR DISTRIBUTION
N 14-SI-NAT	102		4.810+ 0	8.030+ 0	69 3777	52	ELASTIC ANGULAR DISTRIBUTION
14-SI-NAT	102		6.100+ 0	6.100+ 0	66 1754	16	ELASTIC ANGULAR DISTRIBUTION
N 14-SI-NAT	102		6.640+ 0	1.402+ 1	69 2370	509	ELASTIC ANGULAR DISTRIBUTION
14-SI-NAT	102		7.600+ 0	7.600+ 0	68 2011	16	ELASTIC ANGULAR DISTRIBUTION
N 14-SI-NAT	102		7.710+ 0	9.050+ 0	72 3582	44	ELASTIC ANGULAR DISTRIBUTION
N 14-SI-NAT	102		8.920+ 0	8.920+ 0	73 3585	27	ELASTIC ANGULAR DISTRIBUTION
N 14-SI-NAT	102		9.800+ 0	9.800+ 0	72 3440	20	ELASTIC ANGULAR DISTRIBUTION
14-SI-NAT	102		1.400+ 1	1.400+ 1	65 97	9	ELASTIC ANGULAR DISTRIBUTION
14-SI-NAT	102		1.410+ 1	1.410+ 1	64 845	19	ELASTIC ANGULAR DISTRIBUTION
14-SI-NAT	102		1.410+ 1	1.410+ 1	64 1913	13	ELASTIC ANGULAR DISTRIBUTION
14-SI-NAT	105		3.900- 2	7.000- 1	62 1757	155	TOTAL SCATTERING
14-SI-NAT	111	1	4.000+ 0	7.500+ 0	69 2862	66	N,N' ANGULAR DISTRIBUTION
14-SI-NAT	111	1	6.100+ 0	6.100+ 0	66 1754	18	N,N' ANGULAR DISTRIBUTION
N 14-SI-NAT	111	1	8.920+ 0	8.920+ 0	73 3585	27	N,N' ANGULAR DISTRIBUTION
N 14-SI-NAT	111	1	9.800+ 0	9.800+ 0	72 3440	18	N,N' ANGULAR DISTRIBUTION
14-SI-NAT	111	1	1.400+ 1	1.400+ 1	65 97	18	N,N' ANGULAR DISTRIBUTION
14-SI-NAT	111	1	1.410+ 1	1.410+ 1	64 1913	2	N,N' ANGULAR DISTRIBUTION
14-SI-NAT	124	7	4.000+ 0	7.670+ 0	69 2862	73	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	124	7	4.100+ 0	4.100+ 0	63 1728	2	N,X GAMMA ANGULAR DISTRIBUTION
N 14-SI-NAT	124	7	5.000+ 0	1.100+ 1	69 3501	134	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	124	7	5.350+ 0	9.000+ 0	70 3174	334	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	124	7	7.600+ 0	7.600+ 0	68 2011	32	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	124	7	1.400+ 1	1.400+ 1	60 1704	1	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	124	7	1.470+ 1	1.470+ 1	64 1758	17	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	124	7	1.484+ 1	1.484+ 1	62 1725	4	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	124	7	1.500+ 1	1.500+ 1	60 1720	1	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	124	10	1.400+ 1	1.400+ 1	60 1704	9	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	124	10	1.480+ 1	1.480+ 1	63 1728	19	N,X GAMMA ANGULAR DISTRIBUTION
N 14-SI-NAT	124	80	5.000+ 0	8.000+ 0	69 3501	12	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	127		1.440+ 0	1.440+ 0	62 688	6	N,X P ANGULAR DISTRIBUTION
N 14-SI-NAT	224		1.410+ 1	1.410+ 1	70 2232	25	N,X GAMMA ENERGY DISTRIBUTION
N 14-SI-NAT	304		1.455+ 1	1.455+ 1	74 4002	482	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 14-SI-NAT	311	80	1.410+ 1	1.410+ 1	65 1908	41	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
14-SI-NAT	606		1.480+ 1	1.480+ 1	66 1042	16	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
14-SI-NAT	624		3.50+ 0	8.500+ 0	64 1671	37	N,X GAMMA ANGULAR DIST.-INTEGRAL E1-E2
14-SI-NAT			1.410+ 1	1.410+ 1	65 1908	1	NUCLEAR TEMPERATURE
14-SI-NAT			1.480+ 1	1.480+ 1	67 2897	1	NUCLEAR TEMPERATURE
N 14-SI-NAT			3.000+ 0	5.000+ 0	63 642	4	AVERAGE RESONANCE PARAMETERS
14-SI-NAT			5.332+ 1	5.662+ 1	71 3062	2	RESONANCE PARAMETERS
14-SI-28	2		5.440+ 0	8.560+ 0	72 3231	4	ELASTIC
14-SI-28	3		1.410+ 1	1.410+ 1	64 845	1	NONELASTIC
N 14-SI-28	11		1.781+ 0	3.526+ 0	75 3837	253	N,N'
C 14-SI-28	11		2.450+ 0	5.800+ 0	60 1756	5	N,N'
14-SI-28	11	1	3.500+ 0	4.800+ 0	61 1751	5	N,N'
14-SI-28	11	1	4.000+ 0	5.750+ 0	67 2591	8	N,N'
C 14-SI-28	11	1	5.440+ 0	8.560+ 0	70 3231	23	N,N'
14-SI-28	11	1	1.410+ 1	1.410+ 1	64 845	1	N,N'
14-SI-28	11	7	1.400+ 1	1.400+ 1	64 1913	1	N,N'
14-SI-28	12		1.782+ 1	1.826+ 1	65 1709	5	N,N'

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1- 56 ***

ZA = 14028

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 14028

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	14-SI-28	111	1	1.410+ 1	1.410+ 1	64 845	13	N,N' ANGULAR DISTRIBUTION
	14-SI-28	111	8	8.030+ 0	8.030+ 0	69 3777	13	N,N' ANGULAR DISTRIBUTION
	14-SI-28	124	7	2.800+ 0	2.800+ 0	55 1715	1	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-28	124	7	3.000+ 0	4.000+ 0	65 1713	21	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-28	124	7	3.700+ 0	3.700+ 0	55 473	1	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-28	126	1	1.400+ 1	1.400+ 1	61 1760	1	N,P ANGULAR DISTRIBUTION
	14-SI-28	134	1	1.480+ 1	1.480+ 1	66 1761	16	N,ALPHA ANGULAR DISTRIBUTION
N	14-SI-28			2.500- 3	5.000- 1	75 4005	3	AVERAGE RESONANCE PARAMETERS
	14-SI-28			3.800- 2	6.800- 2	70 3716	2	RESONANCE PARAMETERS
	14-SI-28			5.500- 2	1.880- 1	59 534	6	RESONANCE PARAMETERS
	14-SI-28			1.950- 1	5.700- 1	51 69	3	RESONANCE PARAMETERS
	14-SI-28			5.360- 1	8.040- 1	67 2433	3	RESONANCE PARAMETERS
	14-SI-28			5.370- 1	5.370- 1	61 571	2	RESONANCE PARAMETERS
	14-SI-29	24	7	2.150+ 0	3.000+ 0	61 11	32	N,X GAMMA
	14-SI-29	26		1.440+ 1	1.440+ 1	68 2695	1	N,P
	14-SI-29	26		1.450+ 1	1.450+ 1	53 27	1	N,P
	14-SI-29	26		1.450+ 1	1.450+ 1	70 3258	1	N,P
	14-SI-29	26		1.470+ 1	1.470+ 1	67 1921	1	N,P
	14-SI-29	34		2.440+ 0	3.770+ 0	63 762	46	N,ALPHA
	14-SI-29	34		4.000+ 0	6.400+ 0	63 420	18	N,ALPHA
	14-SI-29	34	1	3.710+ 0	5.440+ 0	63 926	36	N,ALPHA
	14-SI-29	34	1	4.750+ 0	8.470+ 0	63 800	123	N,ALPHA
	14-SI-29	34	81	3.720+ 0	5.470+ 0	63 926	53	N,ALPHA
	14-SI-29	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N	14-SI-29	73	87	2.530- 8	2.530- 8	70 3692	8	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	14-SI-29	76		1.000+ 0	1.000+ 0	70 3724	1	N,P SPECTRUM AVERAGED CROSS SECTION
N	14-SI-29	76		1.000+ 0	1.000+ 0	71 3762	1	N,P SPECTRUM AVERAGED CROSS SECTION
	14-SI-29	76		2.000+ 0	2.000+ 0	68 2990	1	N,P SPECTRUM AVERAGED CROSS SECTION
	14-SI-30	23		2.530- 8	2.530- 8	47 888	1	N,GAMMA
	14-SI-30	23		2.100- 2	2.100- 2	57 23	1	N,GAMMA
	14-SI-30	23		2.100- 2	2.100- 2	58 43	1	N,GAMMA
	14-SI-30	23		2.000- 1	4.000+ 0	58 363	3	N,GAMMA
	14-SI-30	23		1.450+ 1	1.450+ 1	57 521	1	N,GAMMA
	14-SI-30	23		1.470+ 1	1.470+ 1	67 1695	1	N,GAMMA
N	14-SI-30	23	87	2.500- 8	2.500- 8	72 3417	14	N,GAMMA
	14-SI-30	24	7	2.300+ 0	3.000+ 0	61 11	15	N,X GAMMA
	14-SI-30	26		1.450+ 1	1.450+ 1	70 3258	1	N,P
	14-SI-30	26	2	1.400+ 1	1.400+ 1	63 2033	1	N,P
	14-SI-30	26	2	1.440+ 1	1.440+ 1	68 2695	1	N,P
	14-SI-30	26	2	1.500+ 1	1.500+ 1	71 3199	1	N,P
	14-SI-30	34		1.440+ 1	1.440+ 1	68 2695	1	N,ALPHA
	14-SI-30	34		1.450+ 1	1.450+ 1	53 27	1	N,ALPHA
	14-SI-30	34		1.450+ 1	1.450+ 1	70 3258	1	N,ALPHA
	14-SI-30	34		1.470+ 1	1.470+ 1	67 1921	1	N,ALPHA
	14-SI-30	34		1.480+ 1	1.480+ 1	65 1697	1	N,ALPHA
	14-SI-30	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	14-SI-30	73		2.500- 8	2.500- 8	66 1762	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N	14-SI-30	73	87	2.530- 8	2.530- 8	70 3692	3	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N	14-SI-30	84		1.000+ 0	1.000+ 0	71 3762	1	N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	14-SI-30	84	3	1.500+ 0	1.500+ 0	65 3975	1	N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	SI02	1		8.000- 10	3.000- 6	65 1773	13	TOTAL
	SI02	1		1.440- 6	1.440- 6	65 949	1	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 58 ***

ZA = 14360

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 14360

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	SI02	1		1.874-	1 4.867+	1 72 3458	3692	TOTAL
	15-P	-31	1	1.150-	4 3.000-	4 49 844	2	TOTAL
	15-P	-31	1	6.251-	3 1.950-	2 58 15	27	TOTAL
	15-P	-31	1	2.400-	2 2.400-	2 47 46	1	TOTAL
	15-P	-31	1	4.050-	2 1.780-	1 58 819	45	TOTAL
	15-P	-31	1	1.250-	1 8.310-	1 53 99	196	TOTAL
	15-P	-31	1	1.330-	1 5.440-	1 53 93	41	TOTAL
N	15-P	-31	1	7.000-	1 9.010+	0 73 3936	558	TOTAL
	15-P	-31	1	8.300-	1 1.199+	0 63 455	167	TOTAL
	15-P	-31	1	2.267+	0 1.492+	1 67 750	243	TOTAL
	15-P	-31	1	2.420+	0 5.170+	0 60 638	97	TOTAL
	15-P	-31	1	2.510+	0 3.670+	0 51 38	45	TOTAL
	15-P	-31	1	2.806+	0 1.310+	1 54 504	31	TOTAL
	15-P	-31	1	3.050+	0 5.050+	0 62 642	59	TOTAL
C	15-P	-31	1	3.239+	0 4.447+	0 63 642	27	TOTAL
	15-P	-31	1	5.373+	0 8.545+	0 66 1003	125	TOTAL
	15-P	-31	1	1.400+	1 1.400+	1 52 81	1	TOTAL
	15-P	-31	1	1.450+	1 1.450+	1 70 3300	1	TOTAL
	15-P	-31	1	2.840+	1 2.840+	1 61 233	1	TOTAL
	15-P	-31	2	2.000+	0 2.000+	0 65 1509	1	ELASTIC
	15-P	-31	2	1.420+	1 1.420+	1 65 1765	1	ELASTIC
	15-P	-31	3	2.500+	0 2.500+	0 55 790	1	NONELASTIC
	15-P	-31	3	2.500+	0 2.500+	0 56 34	1	NONELASTIC
	15-P	-31	3	1.450+	1 1.450+	1 56 200	1	NONELASTIC
	15-P	-31	5	6.000-	2 1.800+	0 56 231	22	TOTAL SCATTERING
	15-P	-31	5	2.000-	1 2.000+	0 64 3058	23	TOTAL SCATTERING
	15-P	-31	11	3.850+	0 4.800+	0 61 1751	8	N,N'
	15-P	-31	12	1.320+	1 1.970+	1 63 417	7	N,2N
	15-P	-31	12	1.410+	1 1.410+	1 63 373	1	N,2N
	15-P	-31	12	1.413+	1 1.413+	1 62 108	1	N,2N
	15-P	-31	12	1.440+	1 1.440+	1 61 676	1	N,2N
	15-P	-31	12	1.470+	1 1.470+	1 62 98	1	N,2N
	15-P	-31	12	1.470+	1 1.470+	1 67 1921	1	N,2N
	15-P	-31	12	1.474+	1 1.798+	1 59 602	3	N,2N
	15-P	-31	12	1.480+	1 1.480+	1 64 1763	1	N,2N
N	15-P	-31	12	1.480+	1 1.480+	1 65 3379	2	N,2N
N	15-P	-31	12	1.480+	1 1.480+	1 66 3279	1	N,2N
	15-P	-31	12	1.480+	1 1.480+	1 67 2368	1	N,2N
N	15-P	-31	12	1.460+	1 1.460+	1 73 3968	1	N,2N
	15-P	-31	14	1.400+	1 1.400+	1 61 361	1	N,N'P
	15-P	-31	14	1.440+	1 1.440+	1 62 688	1	N,N'P
	15-P	-31	23	2.530-	8 2.530-	8 47 888	1	N,GAMMA
	15-P	-31	23	3.000-	2 6.500-	2 63 1	2	N,GAMMA
N	15-P	-31	23	1.410+	1 1.410+	1 70 2232	1	N,GAMMA
	15-P	-31	23	1.470+	1 1.470+	1 67 1695	1	N,GAMMA
	15-P	-31	26	1.590+	0 1.410+	1 58 321	20	N,P
	15-P	-31	26	1.680+	0 1.410+	1 67 1500	17	N,P
	15-P	-31	26	1.910+	0 3.640+	0 51 38	88	N,P
	15-P	-31	26	2.710+	0 5.030+	0 60 620	53	N,P
	15-P	-31	26	3.200+	0 5.200+	0 58 539	10	N,P
	15-P	-31	26	1.400+	1 1.400+	1 61 361	1	N,P
	15-P	-31	26	1.410+	1 1.410+	1 52 84	1	N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 15031

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
15-P	-31	26	1.440+	1.440+	1 62 688	1	N,P	
15-P	-31	26	1.450+	1.450+	1 53 27	1	N,P	
15-P	-31	26	1.470+	1.470+	1 62 88	1	N,P	
15-P	-31	26	1.470+	1.470+	1 67 1921	1	N,P	
15-P	-31	26	1.480+	1.480+	1 65 3379	1	N,P	
N	15-P	-31	32	1.410+	1.400+	1 71 3816	1	N,HE-3
15-P	-31	32	1.480+	1.480+	1 80 667	1	N,HE-3	
15-P	-31	34	5.000+	5.090+	0 63 2047	20	N,ALPHA	
15-P	-31	34	6.125+	9.000+	0 66 1684	116	N,ALPHA	
15-P	-31	34	1.300+	1.660+	1 62 806	8	N,ALPHA	
N	15-P	-31	34	1.304+	1.785+	1 75 4016	10	N,ALPHA
15-P	-31	34	1.320+	1.970+	1 63 417	7	N,ALPHA	
15-P	-31	34	1.450+	1.450+	1 53 27	1	N,ALPHA	
15-P	-31	34	1.450+	1.450+	1 65 1764	1	N,ALPHA	
15-P	-31	34	1.470+	1.470+	1 62 88	1	N,ALPHA	
15-P	-31	34	1.470+	1.470+	1 67 1921	1	N,ALPHA	
15-P	-31	34	1.480+	1.480+	1 65 3379	1	N,ALPHA	
15-P	-31	43	2.530-	2.530-	8 52 2937	1	COHERENT SCATTERING	
15-P	-31	43	2.530-	2.530-	8 61 2673	1	COHERENT SCATTERING	
15-P	-31	52	2.500-	2.500-	8 51 1303	1	ELASTIC	
15-P	-31	71	2.500-	2.500-	8 50 1623	1	ABSORPTION	
15-P	-31	71	2.500-	2.500-	8 51 882	1	ABSORPTION	
15-P	-31	71	2.500-	2.500-	8 63 2557	1	ABSORPTION	
15-P	-31	73	2.500-	2.500-	8 54 2580	1	N,GAMMA	
N	15-P	-31	73	2.530-	2.530-	8 73 3750	1	N,GAMMA
15-P	-31	73	2.530-	2.530-	8 70 2415	130	N,GAMMA	
15-P	-31	74	2.530-	2.530-	8 70 2415	1	N,X GAMMA	
15-P	-31	76	2.000+	2.000+	0 64 1711	1	N,P	
15-P	-31	76	4.400+	4.400+	0 64 1741	1	N,P	
N	15-P	-31	76	4.500+	4.500+	0 73 3989	2	N,P
15-P	-31	102	6.000-	1.210+	0 56 231	75	ELASTIC	
15-P	-31	102	3.500+	4.800+	0 61 1751	35	ELASTIC	
N	15-P	-31	102	7.790+	9.050+	0 72 3582	26	ELASTIC
15-P	-31	102	8.000+	8.000+	0 68 2749	12	ELASTIC	
15-P	-31	102	1.400+	1.400+	1 85 97	9	ELASTIC	
15-P	-31	102	1.420+	1.420+	1 65 1765	11	ELASTIC	
15-P	-31	105	2.000-	1.200+	0 84 3058	124	TOTAL SCATTERING	
15-P	-31	135	1.300+	1.780+	0 56 231	35	TOTAL SCATTERING	
15-P	-31	111	2.450+	2.450+	0 56 476	1	N,N'	
15-P	-31	111	3.500+	4.800+	0 61 1751	64	N,N'	
N	15-P	-31	111	7.970+	9.050+	0 72 3582	38	N,N'
15-P	-31	111	8.000+	8.000+	0 68 2749	24	N,N'	
15-P	-31	111	1.400+	1.410+	1 85 97	8	N,N'	
15-P	-31	111	1.420+	1.410+	1 65 1765	22	N,N'	
15-P	-31	124	1.400+	1.400+	1 80 1704	6	N,X GAMMA	
15-P	-31	127	1.440+	1.440+	1 62 688	6	N,X P	
N	15-P	-31	224	1.410+	1.410+	1 69 2232	25	N,X GAMMA
15-P	-31	224	2.530-	2.530-	8 67 1926	49	N,X GAMMA	
N	15-P	-31	304	1.469+	1.490+	1 74 4095	575	NEUTRON EMISSION
N	15-P	-31	311	1.410+	1.410+	1 65 1908	40	N,N'
15-P	-31		1.410+	1.410+	1 65 1908	2	NUCLEAR TEMPERATURE	
N	15-P	-31	3.000+	4.000+	0 63 642	2	AVERAGE RESONANCE PARAMETERS	

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 15031

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	15-P	-31		2.650-2	2.650-2	70 3716	1	RESONANCE PARAMETERS
	15-P	-31		1.580-1	1.580-1	57 2421	1	RESONANCE PARAMETERS
	16-S	-NAT	1	2.400-8	2.450-4	48 173	44	TOTAL
	16-S	-NAT	1	1.150-4	3.000-4	49 844	2	TOTAL
	16-S	-NAT	1	1.100-3	1.300-2	56 243	15	TOTAL
	16-S	-NAT	1	2.000-2	4.000-2	64 335	128	TOTAL
	16-S	-NAT	1	2.000-2	1.400-1	49 51	18	TOTAL
N	16-S	-NAT	1	3.000-2	1.150-0	73 3797	454	TOTAL
N	16-S	-NAT	1	5.300-2	1.530-1	70 3962	7	TOTAL
	16-S	-NAT	1	1.015-1	6.490-1	65 1062	539	TOTAL
	16-S	-NAT	1	1.420-1	1.415-0	50 58	299	TOTAL
	16-S	-NAT	1	4.150-1	1.180-0	58 450	12	TOTAL
	16-S	-NAT	1	5.001-1	3.194-1	70 2517	5115	TOTAL
	16-S	-NAT	1	5.570-1	6.020-1	56 273	35	TOTAL
N	16-S	-NAT	1	8.200-1	3.550-0	66 4017	11	TOTAL
	16-S	-NAT	1	1.050-0	2.250-0	61 1000	5	TOTAL
N	16-S	-NAT	1	1.183+0	4.952+2	73 3945	737	TOTAL
	16-S	-NAT	1	1.410+0	1.950+0	50 64	27	TOTAL
	16-S	-NAT	1	1.792+0	2.607+0	68 2014	100	TOTAL
	16-S	-NAT	1	1.900+0	3.870+0	61 318	59	TOTAL
	16-S	-NAT	1	2.000+0	5.800+0	51 336	21	TOTAL
	16-S	-NAT	1	2.259+0	1.489+1	67 750	244	TOTAL
	16-S	-NAT	1	2.880+0	2.880+0	39 42	1	TOTAL
	16-S	-NAT	1	2.920+0	5.170+0	60 638	77	TOTAL
	16-S	-NAT	1	2.920+0	1.320+1	54 504	39	TOTAL
C	16-S	-NAT	1	3.051+0	5.048+0	63 642	59	TOTAL
	16-S	-NAT	1	3.660+0	3.660+0	59 559	1	TOTAL
	16-S	-NAT	1	3.684+0	5.028+0	63 455	136	TOTAL
	16-S	-NAT	1	4.500+0	1.339+1	67 1747	459	TOTAL
	16-S	-NAT	1	4.900+0	8.645+0	66 1003	131	TOTAL
	16-S	-NAT	1	5.360+0	6.280+0	69 3289	24	TOTAL
	16-S	-NAT	1	1.400+1	1.400+1	52 81	1	TOTAL
	16-S	-NAT	1	1.410+1	1.800+1	54 107	3	TOTAL
	16-S	-NAT	1	2.840+1	2.840+1	61 233	1	TOTAL
	16-S	-NAT	1	4.200+1	4.200+1	50 281	1	TOTAL
N	16-S	-NAT	2	2.450+0	5.800+0	60 1756	5	ELASTIC
	16-S	-NAT	2	2.470+0	8.050+0	69 2890	8	ELASTIC
	16-S	-NAT	2	3.660+0	3.660+0	59 559	1	ELASTIC
	16-S	-NAT	2	5.500+0	6.620+0	70 3175	4	ELASTIC
N	16-S	-NAT	3	9.800+0	9.800+0	72 3440	1	ELASTIC
	16-S	-NAT	2	1.400+1	1.400+1	59 567	1	ELASTIC
	16-S	-NAT	2	1.400+1	1.400+1	62 1050	1	ELASTIC
	16-S	-NAT	2	1.410+1	1.410+1	64 845	1	ELASTIC
	16-S	-NAT	3	2.500+0	2.500+0	55 790	1	NONELASTIC
	16-S	-NAT	3	2.500+0	2.500+0	56 34	1	NONELASTIC
	16-S	-NAT	3	3.660+0	3.660+0	59 559	1	NONELASTIC
	16-S	-NAT	3	7.000+0	7.000+0	56 151	1	NONELASTIC
	16-S	-NAT	3	1.410+1	1.410+1	57 199	1	NONELASTIC
	16-S	-NAT	3	1.420+1	1.420+1	57 319	1	NONELASTIC
	16-S	-NAT	3	1.450+1	1.450+1	56 200	1	NONELASTIC
	16-S	-NAT	5	6.000-2	1.800+0	56 231	22	TOTAL SCATTERING
	16-S	-NAT	5	5.780-1	6.080-1	60 571	22	TOTAL SCATTERING

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 16000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 16009

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION				
C	16-S	-NAT	11	1	5.000+ 0	8.520+ 0	70 3175	37	N,N'			
N	16-S	-NAT	11	1	9.800+ 0	9.800+ 0	72 3440	1	N,N'			
	16-S	-NAT	11	1	1.400+ 1	1.400+ 1	62 1060	1	N,N'			
	16-S	-NAT	11	8	1.400+ 1	1.400+ 1	62 1060	2	N,N'			
	16-S	-NAT	14	1	1.440+ 1	1.440+ 1	62 688	1	N,N,P			
	16-S	-NAT	21	2	2.530- 8	2.530- 8	68 2566	1	ABSORPTION			
	16-S	-NAT	21	2	2.500- 2	8.300- 1	58 364	3	ABSORPTION			
	16-S	-NAT	23	3	3.000- 2	3.000- 2	61 677	1	N,GAMMA			
	16-S	-NAT	23	3	3.000- 2	6.500- 2	63 1	2	N,GAMMA			
	16-S	-NAT	23	1	1.410+ 1	1.410+ 1	69 3017	1	N,GAMMA			
N	16-S	-NAT	23	1	1.410+ 1	1.410+ 1	70 3810	1	N,GAMMA			
	16-S	-NAT	24	7	2.500+ 0	2.500+ 0	51 284	1	N,X GAMMA			
	16-S	-NAT	24	7	2.560+ 0	2.560+ 0	56 140	2	N,X GAMMA			
	16-S	-NAT	24	7	1.410+ 1	1.410+ 1	63 1723	1	N,X GAMMA			
	16-S	-NAT	24	10	1.410+ 1	1.410+ 1	63 1723	1	N,X GAMMA			
	16-S	-NAT	26	2	1.170+ 0	1.750+ 1	67 1507	20	N,P			
	16-S	-NAT	26	1	1.440+ 1	1.440+ 1	62 688	1	N,P			
	16-S	-NAT	41	7	7.300- 8	7.300- 8	51 1581	1	BOUND ATOM			
	16-S	-NAT	43	7	7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING			
	16-S	-NAT	71	2	2.500- 8	2.500- 8	50 1794	1	ABSORPTION	SPECTRUM	AVERAGED	CROSS SECTION
	16-S	-NAT	71	2	2.500- 8	2.500- 8	51 882	1	ABSORPTION	SPECTRUM	AVERAGED	CROSS SECTION
	16-S	-NAT	71	2	2.500- 8	2.500- 8	61 2559	1	ABSORPTION	SPECTRUM	AVERAGED	CROSS SECTION
	16-S	-NAT	73	7	2.530- 8	2.530- 8	70 2415	18	N,GAMMA	SPECTRUM	AVERAGED	CROSS SECTION
	16-S	-NAT	74	2	2.530- 8	2.530- 8	70 2415	1	N,X GAMMA	SPECTRUM	AVERAGED	CROSS SECTION
	16-S	-NAT	102	6	6.000- 2	5.700- 1	56 231	35	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	5	5.780+ 1	6.090+ 1	60 571	144	ELASTIC	ANGULAR	DISTRIBUTION	
N	16-S	-NAT	102	2	2.450+ 0	6.000+ 0	60 1756	55	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	2	2.470+ 0	8.050+ 0	69 2890	135	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	2	2.720+ 0	2.720+ 0	55 479	18	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	3	3.500+ 0	4.800+ 0	61 1751	43	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	3	3.650+ 0	3.650+ 0	59 559	24	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	4	4.480+ 0	7.790+ 0	66 1551	52	ELASTIC	ANGULAR	DISTRIBUTION	
N	16-S	-NAT	102	4	4.480+ 0	7.990+ 0	69 3777	52	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	5	5.500+ 0	8.520+ 0	70 3175	98	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	7	7.600+ 0	7.600+ 0	68 2011	12	ELASTIC	ANGULAR	DISTRIBUTION	
N	16-S	-NAT	102	7	7.970+ 0	9.050+ 0	72 3582	28	ELASTIC	ANGULAR	DISTRIBUTION	
N	16-S	-NAT	102	9	9.800+ 0	9.800+ 0	72 3440	20	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	1	1.400+ 1	1.400+ 1	56 483	11	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	1	1.400+ 1	1.400+ 1	59 567	17	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	1	1.400+ 1	1.400+ 1	61 1046	13	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	1	1.400+ 1	1.400+ 1	62 1060	13	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	1	1.400+ 1	1.400+ 1	65 97	14	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	102	1	1.410+ 1	1.410+ 1	64 845	22	ELASTIC	ANGULAR	DISTRIBUTION	
	16-S	-NAT	111	1	4.190+ 0	8.520+ 0	70 3175	256	N,N'	ANGULAR	DISTRIBUTION	
N	16-S	-NAT	111	1	9.800+ 0	9.800+ 0	72 3440	18	N,N'	ANGULAR	DISTRIBUTION	
	16-S	-NAT	111	1	1.400+ 1	1.400+ 1	62 1060	13	N,N'	ANGULAR	DISTRIBUTION	
	16-S	-NAT	111	1	1.400+ 1	1.400+ 1	65 97	14	N,N'	ANGULAR	DISTRIBUTION	
	16-S	-NAT	111	8	6.000+ 0	8.520+ 0	70 3175	46	N,N'	ANGULAR	DISTRIBUTION	
	16-S	-NAT	111	8	1.400+ 1	1.400+ 1	62 1060	25	N,N'	ANGULAR	DISTRIBUTION	
	16-S	-NAT	124	7	3.700+ 2	3.700+ 0	56 485	1	N,X GAMMA	ANGULAR	DISTRIBUTION	
	16-S	-NAT	124	7	1.400+ 1	1.400+ 1	65 1706	6	N,X GAMMA	ANGULAR	DISTRIBUTION	
	16-S	-NAT	124	7	1.470+ 1	1.470+ 1	66 1700	14	N,X GAMMA	ANGULAR	DISTRIBUTION	

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 16000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 16000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
16-S -NAT	124	7	1.490+	1.490+	1	53 1728	2 N,X GAMMA
16-S -NAT	124	10	1.400+	1.400+	1	60 1704	7 N,X GAMMA
16-S -NAT	124	10	1.480+	1.480+	1	63 1728	15 N,X GAMMA
10-S -NAT	127		1.440+	1.440+	1	62 698	6 N,X P
16-S -NAT	224		1.410+	1.410+	1	69 3810	26 N,X GAMMA
16-S -NAT	224	30	2.530- 8	2.530- 8	1	67 1885	24 N,X GAMMA
16-S -NAT	304		1.453+	1.475+	1	74 4002	362 NEUTRON EMISSION
16-S -NAT	311	80	1.410+	1.410+	1	65 1932	50 N,N'
16-S -NAT	406		1.420+	1.420+	1	58 905	1 NONELASTIC EMISSION
16-S -NAT	624		3.500+ 0	8.300+ 0	1	64 1671	31 N,X GAMMA
16-S -NAT			1.410+	1.410+	1	66 1932	1 NUCLEAR TEMPERATURE
16-S -NAT			3.000+ 0	5.000+ 0	1	63 842	4 AVERAGE RESONANCE PARA. ETOR.
16-S -NAT			4.650- 1	4.650- 1	1	65 814	1 RESONANCE PARAMETERS
16-S -32	1		5.800- 1	5.920- 1	1	58 322	12 TOTAL
16-S -32	3		1.410+	1.410+	1	64 845	1 NONELASTIC
16-S -32	11		4.000+ 0	5.800+ 0	1	60 1756	3 N,N'
16-S -32	11	1	3.500+ 0	4.800+ 0	1	61 1751	3 N,N'
16-S -32	11	1	1.410+	1.410+	1	64 845	1 N,N'
16-S -32	11	7	1.410+	1.410+	1	65 1694	1 N,N'
16-S -32	11	8	1.410+	1.410+	1	64 845	1 N,N'
16-S -32	12		1.592+	1.642+	1	66 1768	3 N,2N
16-S -32	12		1.598+	1.769+	1	65 1709	5 N,2N
16-S -32	14		1.400+	1.400+	1	61 361	1 N,N,P
16-S -32	21		1.280- 2	5.900- 2	1	64 998	30 ABSORPTION
16-S -32	23		1.310- 2	5.930- 2	1	64 426	28 N,GAMMA
16-S -32	26		1.650- 2	4.590- 2	1	63 799	9 N,GAMMA
16-S -32	26		1.590+ 0	1.495+ 1	1	57 163	32 N,P
16-S -32	26		1.630+ 0	5.800+ 0	1	48 182	8 N,P
16-S -32	26		1.900+ 0	3.660+ 0	1	50 32	39 N,P
16-S -32	26		1.040+ 1	2.030+ 1	1	63 375	16 N,P
16-S -32	26		1.400+ 1	1.400+ 1	1	61 361	1 N,P
16-S -32	26		1.400+ 1	1.400+ 1	1	63 323	1 N,P
16-S -32	26		1.450+ 1	1.450+ 1	1	53 27	1 N,P
16-S -32	26		1.450+ 1	1.460+ 1	1	63 224	2 N,P
16-S -32	26		1.460+ 1	1.480+ 1	1	69 2354	3 N,P
16-S -32	26		1.470+ 1	1.470+ 1	1	67 1921	1 N,P
16-S -32	26		1.480+ 1	1.480+ 1	1	65 1697	1 N,P
16-S -32	26		1.480+ 1	1.480+ 1	1	68 2711	1 N,P
16-S -32	26		1.480+ 1	1.480+ 1	1	68 4071	1 N,P
16-S -32	26	1	1.900+ 0	3.970+ 0	1	55 30	47 N,P
16-S -32	26	8	1.400+ 1	1.400+ 1	1	60 849	1 N,P
16-S -32	27		1.460+ 1	1.460+ 1	1	63 224	1 N,X P
16-S -32	30		1.460+ 1	1.460+ 1	1	61 661	1 N,T
16-S -32	30		1.460+ 1	1.460+ 1	1	74 3823	1 N,T
16-S -32	30		1.470+ 1	1.470+ 1	1	62 1770	1 N,T
16-S -32	30		1.470+ 1	1.470+ 1	1	68 3369	1 N,T
16-S -32	30		1.470+ 1	1.960+ 1	1	66 1682	6 N,T
16-S -32	34		1.480+ 1	1.480+ 1	1	65 1697	1 N,T
16-S -32	34		3.500- 8	3.500- 8	1	65 1767	1 N,ALPHA
16-S -32	34		1.370+ 0	3.700+ 0	1	58 446	48 N,ALPHA
16-S -32	34		3.600+ 0	3.600+ 0	1	65 1771	1 N,ALPHA
16-S -32	34		1.480+ 1	1.480+ 1	1	58 537	1 N,ALPHA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 16032

07/04/76

EUSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 16032

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	16-S-32	34	1	2.200+ 0	3.620+ 0	55 30	29 N, ALPHA
N	16-S-32	73	87	2.530- 8	2.530- 8	66 3687	23 N, GAMMA
N	16-S-32	76		1.000+ 0	1.000+ 0	62 3702	1 N, P
N	16-S-32	76		1.000+ 0	1.000+ 0	65 3671	1 N, P
N	16-S-32	76		2.000+ 0	2.000+ 0	64 1711	1 N, P
N	16-S-32	76		4.400+ 0	4.400+ 0	64 1741	1 N, P
N	16-S-32	76	5	1.000+ 0	1.000+ 0	62 3681	1 N, P
N	16-S-32	84		2.500- 8	2.500- 8	56 2867	1 N, ALPHA
N	16-S-32	84		2.500- 8	2.500- 8	58 900	1 N, ALPHA
N	16-S-32	84		2.500- 8	2.500- 8	65 1767	1 N, ALPHA
N	16-S-32	102		8.000+ 0	8.000+ 0	68 2749	13 ELASTIC
N	16-S-32	102		1.460+ 1	1.460+ 1	65 1766	13 ELASTIC
N	16-S-32	111		5.920+ 0	7.990+ 0	66 1551	52 N, N'
N	16-S-32	111	1	3.500+ 0	4.800+ 0	61 1751	43 N, N'
N	16-S-32	111	1	4.000+ 0	6.000+ 0	60 1756	37 N, N'
N	16-S-32	111	1	4.480+ 0	7.990+ 0	66 1551	168 N, N'
N	16-S-32	111	1	4.480+ 0	7.990+ 0	69 3777	155 N, N'
N	16-S-32	111	1	7.970+ 0	9.050+ 0	72 3582	28 N, N'
N	16-S-32	111	1	8.000+ 0	8.000+ 0	68 2749	13 N, N'
N	16-S-32	111	1	1.400+ 1	1.400+ 1	61 1668	12 N, N'
N	16-S-32	111	1	1.410+ 1	1.490+ 1	64 845	32 N, N'
N	16-S-32	111	1	1.460+ 1	1.460+ 1	65 1766	13 N, N'
N	16-S-32	111	8	6.970+ 0	7.990+ 0	69 3777	39 N, N'
N	16-S-32	111	10	1.460+ 1	1.460+ 1	65 1766	6 N, N'
C	16-S-32	111	10	1.460+ 1	1.460+ 1	66 1766	7 N, N'
C	16-S-32	124	7	7.600+ 0	7.600+ 0	68 2011	16 N, X GAMMA
N	16-S-32	127		1.460+ 1	1.460+ 1	61 224	14 N, X P
N	16-S-32	128	1	1.440+ 1	1.440+ 1	67 2690	1 N, D
N	16-S-32	134		3.200+ 0	3.200+ 0	65 1555	13 N, ALPHA
N	16-S-32	134		3.600+ 0	3.600+ 0	65 1771	7 N, ALPHA
N	16-S-32	134		1.480+ 1	1.480+ 1	58 537	9 N, ALPHA
N	16-S-32	134	1	2.500+ 0	2.900+ 0	65 1555	26 N, ALPHA
N	16-S-32	134	81	2.500+ 0	3.200+ 0	66 1769	39 N, ALPHA
C	16-S-32			0.000+ 0	1.300+ 0	66 1048	1 AVERAGE RESONANCE PARAMETERS
N	16-S-32			2.940- 2	4.200- 2	70 3716	9 RESONANCE PARAMETERS
N	16-S-32			3.000- 2	3.000- 2	64 998	2 RESONANCE PARAMETERS
N	16-S-32			3.035- 2	3.774- 1	71 3117	18 RESONANCE PARAMETERS
N	16-S-32			3.040- 2	3.800- 1	65 814	8 RESONANCE PARAMETERS
N	16-S-32			3.050- 2	1.000- 1	68 640	2 RESONANCE PARAMETERS
N	16-S-32			1.110- 1	2.050- 1	49 51	4 RESONANCE PARAMETERS
N	16-S-32			1.110- 1	7.420- 1	50 58	14 RESONANCE PARAMETERS
N	16-S-32			5.900- 1	5.900- 1	61 571	2 RESONANCE PARAMETERS
N	16-S-33	34		3.500- 8	3.500- 8	65 1767	1 N, ALPHA
N	16-S-33	76		2.500- 8	2.500- 8	52 2868	1 N, P
N	16-S-33	76		2.500- 8	2.500- 8	56 2867	1 N, P
N	16-S-33	76		2.000+ 0	2.000+ 0	65 1772	1 N, P
N	16-S-33	84		2.500- 8	2.500- 8	58 900	1 N, ALPHA
N	16-S-33	84		2.500- 8	2.500- 8	65 1767	1 N, ALPHA
N	16-S-34	23		2.530- 8	2.530- 8	47 888	1 N, GAMMA
N	16-S-34	23	67	2.500- 8	2.500- 8	72 3417	21 N, GAMMA
N	16-S-34	26		1.400+ 1	1.665+ 1	66 1682	6 N, P
N	16-S-34	26		1.450+ 1	1.450+ 1	53 27	1 N, P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 16034

07/04/76

EC31L-7600 REACTION INDEX (ZA ORDERED)

ZA = 16034

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	16-S	-34	26	1.480+ 1	1.480+ 1	66 2142	1	N,P
	16-S	-34	34	4.820+ 0	1.410+ 1	57 163	12	N,ALPHA
	16-S	-34	34	1.450+ 1	1.450+ 1	53 27	1	N,ALPHA
	16-S	-34	34	1.460+ 1	1.460+ 1	69 2354	1	N,ALPHA
	16-S	-34	34	1.470+ 1	1.470+ 1	67 1921	1	N,ALPHA
	16-S	-34	34	1.480+ 1	1.480+ 1	65 1697	1	N,ALPHA
	16-S	-34	73	2.500- 8	2.500- 8	61 2935	1	N,GAMMA
N	16-S	-34	73	2.530- 8	2.530- 8	73 3750	1	N,GAMMA
	16-S	-34	76	2.000+ 0	2.000+ 0	66 1815	1	N,P
	17-CL-NAT	1	1	3.068- 8	1.500- 2	56 304	549	TOTAL
N	17-CL-NAT	1	1	2.026- 5	3.991- 1	74 3634	1045	TOTAL
	17-CL-NAT	1	1	3.000- 4	3.000- 4	49 844	1	TOTAL
	17-CL-NAT	1	1	7.000- 3	1.930- 1	57 154	57	TOTAL
	17-CL-NAT	1	1	6.000- 2	6.920- 1	53 93	57	TOTAL
	17-CL-NAT	1	1	1.330- 1	1.084+ 0	53 95	439	TOTAL
	17-CL-NAT	1	1	5.000- 1	3.198+ 1	70 2517	5129	TOTAL
	17-CL-NAT	1	1	2.210+ 0	2.765+ 0	53 94	14	TOTAL
	17-CL-NAT	1	1	2.259+ 0	1.498+ 1	67 750	247	TOTAL
N	17-CL-NAT	1	1	2.800+ 0	1.315+ 1	54 504	30	TOTAL
	17-CL-NAT	1	1	3.239+ 0	5.110+ 0	63 642	30	TOTAL
	17-CL-NAT	1	1	1.412+ 1	1.412+ 1	52 81	1	TOTAL
	17-CL-NAT	1	1	1.450+ 1	1.450+ 1	70 3300	1	TOTAL
	17-CL-NAT	1	1	2.540+ 1	2.540+ 1	45 307	1	TOTAL
	17-CL-NAT	1	1	2.840+ 1	2.840+ 1	61 233	1	TOTAL
	17-CL-NAT	1	1	4.203+ 1	4.200+ 1	50 281	1	TOTAL
	17-CL-NAT	1	1	7.670+ 1	1.068+ 2	55 282	8	TOTAL
	17-CL-NAT	1	1	9.000+ 1	9.000+ 1	49 286	1	TOTAL
	17-CL-NAT	2	2	2.700- 3	2.700- 3	50 235	1	ELASTIC
	17-CL-NAT	2	2	2.000+ 0	2.000+ 0	65 1509	1	ELASTIC
	17-CL-NAT	3	3	2.500+ 0	2.500+ 0	56 34	1	NONELASTIC
	17-CL-NAT	3	3	2.500+ 0	4.100+ 0	55 790	2	NONELASTIC
	17-CL-NAT	11	3	1.750+ 1	2.220+ 1	60 739	7	N,N'
	17-CL-NAT	11	7	2.940+ 0	4.230+ 0	66 1775	17	N,N'
	17-CL-NAT	21	21	2.530- 8	2.530- 8	60 891	1	ABSORPTION
	17-CL-NAT	21	21	2.730- 8	2.530- 8	61 2934	1	ABSORPTION
	17-CL-NAT	23	23	2.200- 5	1.750- 2	61 725	69	N,GAMMA
	17-CL-NAT	23	23	3.000- 2	6.500- 2	63 1	2	N,GAMMA
	17-CL-NAT	24	7	2.970+ 0	2.970+ 0	64 834	3	N,X GAMMA
	17-CL-NAT	41	41	7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
	17-CL-NAT	43	43	7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING
	17-CL-NAT	71	71	2.500- 8	2.500- 8	50 1623	1	ABSORPTION
	17-CL-NAT	71	71	2.500- 8	2.500- 8	50 1794	1	ABSORPTION
	17-CL-NAT	71	71	2.500- 8	2.500- 8	51 882	1	ABSORPTION
	17-CL-NAT	71	71	2.500- 8	2.500- 8	51 1619	1	ABSORPTION
	17-CL-NAT	71	71	2.500- 8	2.500- 8	63 2558	1	ABSORPTION
	17-CL-NAT	73	7	2.530- 8	2.530- 8	70 2415	144	N,GAMMA
	17-CL-NAT	74	7	2.530- 8	2.530- 8	70 2415	1	N,X GAMMA
	17-CL-NAT	124	7	1.470+ 1	1.470+ 1	66 1700	13	N,X GAMMA
	17-CL-NAT	521	521	4.900- 7	1.500+ 1	57 1054	1	ABSORPTION
C	17-CL-NAT	521	521	3.000+ 0	5.000+ 0	63 642	4	AVERAGE RESONANCE PARAMETERS
	17-CL-NAT	521	521	3.976- 4	4.060- 1	65 814	53	RESONANCE PARAMETERS
N	17-CL-NAT	521	521	1.634- 2	1.800- 1	74 3634	26	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 17000

ZA = 17000

2A = 17035

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 17035

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	17-CL-35		3.977- 4	1.901- 1	74 3634	30	RESONANCE PARAMETERS
	17-CL-35		4.050- 4	4.050- 4	65 1778	3	RESONANCE PARAMETERS
	17-CL-35		4.050- 4	4.050- 4	69 3043	2	RESONANCE PARAMETERS
	17-CL-35		1.472- 2	1.130- 1	69 2537	16	RESONANCE PARAMETERS
	17-CL-35		1.500- 2	1.840- 1	59 2342	17	RESONANCE PARAMETERS
	17-CL-35		2.650- 2	1.900- 1	55 2410	3	RESONANCE PARAMETERS
	17-CL-35		1.900- 1	2.020- 1	57 2421	4	RESONANCE PARAMETERS
	17-CL-36	73	2.500- 8	2.500- 8	55 2875	1	N,GAMMA
	17-CL-36	84	2.000+ 0	2.000+ 0	69 3025	1	N,ALPHA
	17-CL-37	11	2.540+ 0	4.230+ 0	66 1775	4	N,N'
	17-CL-37	23	2.100- 2	2.100- 2	58 43	1	N,GAMMA
N	17-CL-37	23	1.500- 1	2.100+ 0	67 3388	15	N,GAMMA
	17-CL-37	23	2.000- 1	4.000+ 0	58 363	3	N,GAMMA
	17-CL-37	23	2.900+ 0	2.900+ 0	68 3375	1	N,GAMMA
N	17-CL-37	23	1.440+ 1	1.440+ 1	72 3963	1	N,GAMMA
	17-CL-37	23	2.530- 8	2.530- 8	47 888	1	N,GAMMA
	17-CL-37	23	2.400- 2	2.400- 2	57 305	1	N,GAMMA
N	17-CL-37	23	2.400- 2	2.400- 2	68 2856	1	N,GAMMA
	17-CL-37	26	1.310+ 1	2.200+ 1	66 1778	12	N,P
	17-CL-37	26	1.320+ 1	1.605+ 1	56 36	6	N,P
	17-CL-37	26	1.410+ 1	1.480+ 1	67 3397	2	N,P
	17-CL-37	26	1.450+ 1	1.450+ 1	53 27	1	N,P
	17-CL-37	26	1.470+ 1	1.470+ 1	67 1921	1	N,P
	17-CL-37	26	1.480+ 1	1.480+ 1	58 531	1	N,P
	17-CL-37	26	1.480+ 1	1.480+ 1	65 1697	1	N,P
	17-CL-37	26	1.480+ 1	1.480+ 1	66 907	1	N,P
	17-CL-37	34	1.450+ 1	1.450+ 1	53 27	1	N,ALPHA
	17-CL-37	34	1.480+ 1	1.480+ 1	58 531	1	N,ALPHA
	17-CL-37	34	1.480+ 1	1.480+ 1	66 2142	1	N,ALPHA
	17-CL-37	73	2.500- 8	2.500- 8	54 2876	1	N,GAMMA
	17-CL-37	73	2.500- 8	2.500- 8	49 2742	1	N,GAMMA
	17-CL-37	73	2.500- 8	2.500- 8	61 2935	1	N,GAMMA
	17-CL-37		0.000+ 0	1.150- 1	69 2537	2	AVERAGE RESONANCE PARAMETERS
	17-CL-37		8.300- 3	9.310- 2	74 3634	1	AVERAGE RESONANCE PARAMETERS
	17-CL-37		8.000- 3	2.020- 1	57 2421	9	RESONANCE PARAMETERS
N	17-CL-37		8.312- 3	9.306- 2	74 3634	18	RESONANCE PARAMETERS
	17-CL-37		8.500- 3	1.930- 1	59 2342	8	RESONANCE PARAMETERS
	17-CL-37		8.700- 3	8.700- 3	56 304	1	RESONANCE PARAMETERS
	17-CL-37		8.800- 3	1.900- 1	55 2410	8	RESONANCE PARAMETERS
	17-CL-37		1.627- 2	9.270- 2	69 2537	12	RESONANCE PARAMETERS
	18-AR-NAT	1	2.000- 9	2.500- 8	63 777	24	TOTAL
	18-AR-NAT	1	7.470- 8	6.195- 6	69 2998	13	TOTAL
	18-AR-NAT	1	1.500- 5	1.000- 1	49 53	22	TOTAL
	18-AR-NAT	1	1.220- 1	1.977+ 1	60 570	160	TOTAL
	18-AR-NAT	1	4.430- 1	1.101+ 0	53 98	376	TOTAL
	18-AR-NAT	1	2.220+ 0	2.940+ 0	61 753	5	TOTAL
N	18-AR-NAT	1	1.470+ 1	1.470+ 1	71 3815	1	TOTAL
	18-AR-NAT	1	4.750+ 1	8.800+ 1	54 343	2	TOTAL
	18-AR-NAT	9	3.700-10	2.300- 9	60 822	11	TOTAL
	18-AR-NAT	2	1.400+ 1	1.400+ 1	67 1879	1	ELASTIC
	18-AR-NAT	5	2.530- 8	2.530- 8	63 777	1	TOTAL SCATTERING
	18-AR-NAT	5	2.530- 8	2.530- 8	69 2998	1	TOTAL SCATTERING

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 18000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
18-AR-NAT	21		2.530-8	2.530-8	60 822	1	ABSORPTION
18-AR-NAT	21		2.530-8	2.530-8	63 777	1	ABSORPTION
18-AR-NAT	23		2.530-8	2.530-8	69 2998	1	N,GAMMA
18-AR-NAT	34		2.500+0	2.500+0	46 171	1	N,ALPHA
18-AR-NAT	35		1.293+1	2.011+1	66 1779	9	N,X ALPHA
18-AR-NAT	71		2.500-8	2.500-8	50 1623	1	ABSORPTION
18-AR-NAT	73	87	2.530-8	2.530-8	70 3709	49	N,GAMMA
18-AR-NAT	92		2.500-8	2.500-8	65 1691	1	FREE ATOM
18-AR-NAT	102		1.400+1	1.400+1	67 1679	23	ELASTIC
18-AR-36	1		7.560-8	7.560-8	57 2029	1	TOTAL
18-AR-36	5		7.560-8	7.560-8	57 2029	1	TOTAL SCATTERING
18-AR-36	26	1	1.210+0	5.700+0	64 477	175	N,P
18-AR-36	34		2.530-8	2.530-8	61 2819	1	N,ALPHA
18-AR-36	34	1	1.210+0	8.650+0	64 477	307	N,ALPHA
18-AR-36	34	1	2.150+0	4.400+0	53 96	8	N,ALPHA
18-AR-36	43		4.963-9	4.963-9	69 3707	1	COHERENT SCATTERING
18-AR-36	92		2.500-8	2.500-8	66 1691	1	FREE ATOM
18-AR-36			-9.800-3	-9.800-3	62 2414	2	RESONANCE PARAMETERS
18-AR-38	26		1.440+1	1.440+1	69 2747	1	N,P
18-AR-38	26		1.480+1	1.480+1	68 1945	1	N,P
18-AR-38	92		2.500-8	2.500-8	66 1691	1	FREE ATOM
18-AR-40	5		7.020-8	7.020-8	57 2029	1	TOTAL SCATTERING
18-AR-40	14		1.480+1	1.480+1	66 1945	1	N,N,P
18-AR-40	23		1.360-1	1.000+0	59 579	5	N,GAMMA
18-AR-40	24	7	3.500+0	3.500+0	85 1731	5	N,X GAMMA
18-AR-40	26		1.440+1	1.440+1	69 2747	1	N,P
18-AR-40	26		1.470+1	1.470+1	65 1781	1	N,P
18-AR-40	26		1.480+1	1.480+1	68 1945	1	N,P
18-AR-40	28		1.470+1	1.470+1	65 1781	1	N,D
18-AR-40	34		1.400+1	2.030+1	66 1779	13	N,ALPHA
18-AR-40	34		1.410+1	1.410+1	67 1780	1	N,ALPHA
18-AR-40	34		1.440+1	1.440+1	69 2747	1	N,ALPHA
18-AR-40	34		1.470+1	1.470+1	65 1781	1	N,ALPHA
18-AR-40	34		1.480+1	1.480+1	68 1945	1	N,ALPHA
18-AR-40	34	1	5.860+0	8.950+0	62 477	86	N,ALPHA
18-AR-40	34	1	1.440+1	1.440+1	71 3202	1	N,ALPHA
18-AR-40	34	8	1.440+1	1.440+1	71 3202	5	N,ALPHA
18-AR-40	36		1.440+1	1.440+1	69 2747	1	ACTIVATION
18-AR-40	73		2.500-8	2.500-8	63 2748	2	N,GAMMA
18-AR-40	73		2.500-8	2.500-8	65 1782	1	N,GAMMA
18-AR-40	73		2.500-8	2.500-8	69 2747	1	N,GAMMA
18-AR-40	124	7	3.000+0	4.500+0	85 1731	37	N,X GAMMA
18-AR-40	523		5.000-7	1.000+0	65 1782	1	N,GAMMA
19-K-NAT	1		1.936-8	1.055-5	55 228	356	TOTAL
19-K-NAT	1		1.005-3	3.991-1	73 3632	1197	TOTAL
19-K-NAT	1		2.000-3	3.160-1	59 509	368	TOTAL
19-K-NAT	1		9.000-3	5.979-1	50 55	118	TOTAL
19-K-NAT	1		1.320-1	3.150-1	54 509	56	TOTAL
19-K-NAT	1		3.600-1	3.198+1	70 2517	6179	TOTAL
19-K-NAT	1		6.200-1	8.300-1	47 46	2	TOTAL
19-K-NAT	1		9.000-1	1.700+0	61 407	170	TOTAL
19-K-NAT	1		1.300+0	2.100+0	61 380	16	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 19000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
19-K	-NAT	1	2.004+0	3.772+0	65 1785	14	TOTAL
19-K	-NAT	1	2.250+0	2.750+0	57 817	13	TOTAL
19-K	-NAT	1	2.270+0	1.493+1	67 750	246	TOTAL
19-K	-NAT	1	2.37+0	1.550+1	67 1786	7	TOTAL
19-K	-NAT	1	2.880+0	2.880+0	39 42	1	TOTAL
19-K	-NAT	1	3.660+0	3.660+0	61 637	1	TOTAL
19-K	-NAT	1	4.130+0	6.310+0	64 440	41	TOTAL
19-K	-NAT	1	8.580+0	1.159+1	62 452	4	TOTAL
19-K	-NAT	1	1.400+1	1.400+1	52 81	1	TOTAL
19-K	-NAT	1	1.450+1	1.450+1	70 3300	1	TOTAL
19-K	-NAT	1	1.468+1	1.468+1	68 1941	1	TOTAL
19-K	-NAT	1	2.840+1	2.840+1	61 233	1	TOTAL
19-K	-NAT	2	3.000+1	3.000+1	63 1699	1	ELASTIC
19-K	-NAT	2	1.490+0	3.760+0	65 1785	4	ELASTIC
19-K	-NAT	2	2.060+0	7.910+0	67 1784	5	ELASTIC
19-K	-NAT	2	3.100+0	3.100+0	61 846	1	ELASTIC
19-K	-NAT	2	3.660+0	3.660+0	61 637	1	ELASTIC
19-K	-NAT	2	1.400+1	1.400+1	66 1648	1	ELASTIC
19-K	-NAT	5	3.000+2	1.368+0	56 231	24	TOTAL SCATTERING
19-K	-NAT	23	3.000+2	6.500+2	63 11	2	N,GAMMA
19-K	-NAT	24	1.820+0	3.960+0	68 2010	20	N,X GAMMA
19-K	-NAT	24	3.960+0	3.960+0	66 1783	4	N,X GAMMA
19-K	-NAT	30	1.470+1	1.470+1	73 3996	1	N,T
19-K	-NAT	41	7.300+8	7.300+8	51 1584	1	BOUND ATOM
19-K	-NAT	43	2.530+8	2.530+8	63 2877	1	COHERENT SCATTERING
19-K	-NAT	43	7.300+8	7.300+8	51 1584	1	COHERENT SCATTERING
19-K	-NAT	71	2.500+8	2.500+8	50 1623	1	ABSORPTION
19-K	-NAT	71	2.500+8	2.500+8	50 1794	1	ABSORPTION
19-K	-NAT	71	2.500+8	2.500+8	51 882	1	ABSORPTION
19-K	-NAT	71	2.500+8	2.500+8	61 2559	1	ABSORPTION
19-K	-NAT	74	2.530+8	2.530+8	70 2415	168	N,GAMMA
19-K	-NAT	74	2.530+8	2.530+8	70 2415	1	N,X GAMMA
19-K	-NAT	102	3.000+2	1.360+0	56 231	90	ELASTIC
19-K	-NAT	102	5.000+2	8.500+2	58 325	28	ELASTIC
19-K	-NAT	102	3.000+1	3.000+1	63 1699	8	ELASTIC
19-K	-NAT	102	1.490+0	3.760+0	65 1785	55	ELASTIC
19-K	-NAT	102	2.060+0	7.910+0	67 1784	69	ELASTIC
19-K	-NAT	102	3.100+0	3.100+0	61 846	10	ELASTIC
19-K	-NAT	102	3.660+0	3.660+0	59 502	22	ELASTIC
19-K	-NAT	102	3.660+0	3.660+0	62 637	22	ELASTIC
19-K	-NAT	102	1.400+1	1.400+1	66 1648	22	ELASTIC
19-K	-NAT	124	1.470+1	1.470+1	66 1700	11	N,X GAMMA
19-K	-NAT	211	7.000+0	7.000+0	67 1883	19	N,N'
19-K	-NAT	311	1.410+1	1.410+1	65 1932	53	N,N'
19-K	-NAT	521	4.900+7	1.500+1	57 1054	1	ABSORPTION
19-K	-NAT		1.410+1	1.410+1	66 1932	1	NUCLEAR TEMPERATURE
19-K	-NAT		1.111+3	1.420+1	65 814	50	RESONANCE PARAMETERS
19-K	-NAT		1.214+2	1.988+1	73 3632	16	RESONANCE PARAMETERS
19-K	-39	1	8.250+3	9.900+3	57 272	16	TOTAL
19-K	-39	11	3.760+0	3.760+0	65 1785	1	N,N'
19-K	-39	11	3.760+0	3.760+0	65 1785	3	N,N'
19-K	-39	11	2.630+0	3.960+0	68 2010	8	N,N'

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 19039

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
19-K-39	12	1	1.410+	1.1880+	65 843	7	N,2N
19-K-39	12	1	1.440+	1.1440+	61 676	1	N,2N
19-K-39	12	1	1.450+	1.1450+	65 1764	1	N,2N
19-K-39	12	1	1.470+	1.1470+	67 1921	1	N,2N
19-K-39	12	1	1.480+	1.1460+	61 703	1	N,2N
19-K-39	12	1	1.470+	1.1470+	68 3369	1	N,2N
19-K-39	12	1	1.500+	1.1500+	68 2369	5	N,2N
19-K-39	12	3	1.340+	1.1500+	68 2369	5	N,2N
19-K-39	12	3	1.420+	1.1420+	68 1944	1	N,2N
19-K-39	12	3	1.450+	1.1450+	53 27	1	N,2N
19-K-39	12	3	1.460+	1.1460+	73 3988	1	N,2N
19-K-39	14	1	1.400+	1.1400+	60 596	1	N,N,P
19-K-39	14	1	1.254+	1.1960+	62 562	5	N,N' ALPHA
19-K-39	24	7	2.500+ 0	3.950+ 0	61 11	81	N,X GAMMA
19-K-39	24	7	3.420+ 0	3.950+ 0	69 2010	2	N,X GAMMA
19-K-39	26	2	2.460+ 0	2.460+ 0	61 653	1	N,P
19-K-39	26	2	2.460+ 0	2.463+ 0	67 1896	1	N,P
19-K-39	26	2	2.590+ 0	2.590+ 0	59 457	1	N,P
19-K-39	26	4	4.000+ 0	8.000+ 0	64 469	9	N,P
19-K-39	26	1	1.400+	1.400+	60 586	1	N,P
19-K-39	26	1	1.458+ 0	8.660+ 0	61 735	407	N,P
19-K-39	30	1	1.470+ 0	1.470+ 0	73 3986	1	N,P
19-K-39	34	3	2.460+ 0	2.460+ 0	61 653	1	N, ALPHA
19-K-39	34	3	2.590+ 0	2.590+ 0	67 1896	1	N, ALPHA
19-K-39	34	4	4.000+ 0	8.000+ 0	64 469	9	N, ALPHA
19-K-39	34	1	1.400+	1.400+ 0	60 586	1	N, ALPHA
19-K-39	34	1	2.300+ 0	3.830+ 0	61 735	30	N, ALPHA
19-K-39	37	1	1.975+ 0	0.090+ 0	64 369	13	N, ALPHA
19-K-39	43	2	2.530+ 0	2.530+ 0	65 3577	1	N, ALPHA
19-K-39	73	73	2.500+ 0	2.500+ 0	53 842	1	COEFFICIENT SCATTERING
19-K-39	73	87	2.530+ 0	2.530+ 0	53 842	1	COEFFICIENT SCATTERING
19-K-39	84	84	2.500+ 0	2.500+ 0	72 3656	222	N, GAMMA
19-K-39	111	1	3.750+ 0	3.750+ 0	69 1787	1	N, ALPHA
19-K-39	128	1	1.440+ 0	1.440+ 0	67 2008	42	N,D
19-K-39	862	2	0.000+ 0	1.480+ 0	68 3370	16	N,D
19-K-39			0.000+ 0	1.020+ 0	73 3632	2	AVERAGE RESONANCE PARAMETERS
19-K-39			1.111- 3	1.931- 1	73 3632	98	RESONANCE PARAMETERS
19-K-39			3.400- 3	9.200- 3	55 15	8	RESONANCE PARAMETERS
19-K-39			1.000- 2	1.100- 1	55 2410	8	RESONANCE PARAMETERS
19-K-40	73	73	2.500+ 0	2.500+ 0	52 342	1	N, GAMMA
19-K-40	76	1	2.530+ 0	2.530+ 0	71 3244	1	N, GAMMA
19-K-40	84	84	2.500+ 0	2.500+ 0	68 1946	2	N,P
19-K-41	1	1	4.800- 3	1.900- 2	58 15	33	TOTAL
19-K-41	11	1	1.490+ 0	3.750+ 0	65 1785	4	N, N'
19-K-41	11	7	1.820+ 0	3.960+ 0	69 2010	5	N, N'
19-K-41	12	1	1.470+ 0	1.470+ 0	72 3957	1	N,2N
19-K-41	23	23	2.530+ 0	2.530+ 0	47 888	1	N, GAMMA
19-K-41	23	23	2.100- 2	2.100- 2	57 23	1	N, GAMMA

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION		
N	19-K -41	23	2.400-	2.400- 2	66 1788	1	N, GAMMA		
	19-K -41	23	1.620-	2.455+ 0	67 2694	19	N, GAMMA		
	19-K -41	23	1.440+	1.440+ 1	72 3953	1	N, GAMMA		
	19-K -41	23	1.450+	1.450+ 1	57 521	1	N, GAMMA		
	19-K -41	26	1.420+	1.420+ 1	68 1944	1	N, P		
	19-K -41	26	1.450+	1.450+ 1	53 27	1	N, P		
	19-K -41	26	1.470+	1.470+ 1	67 1921	1	N, P		
	19-K -41	26	1.480+	1.480+ 1	63 756	1	N, P		
	19-K -41	26	1.480+	1.480+ 1	65 1697	1	N, P		
	19-K -41	26	1.480+	1.480+ 1	68 4071	1	N, P		
N	19-K -41	26	1	1.460+	1.460+ 1	73 3987	1	N, P	
N	19-K -41	32	1	1.400+	1.400+ 1	71 3816	1	N, HE-3	
N	19-K -41	34	1	1.400+	1.400+ 1	50 586	1	N, ALPHA	
N	19-K -41	34	1	1.420+	1.420+ 1	68 1944	1	N, ALPHA	
N	19-K -41	34	1	1.450+	1.450+ 1	55 1764	1	N, ALPHA	
N	19-K -41	34	1	1.470+	1.470+ 1	67 1921	1	N, ALPHA	
N	19-K -41	34	1	1.480+	1.480+ 1	65 1697	1	N, ALPHA	
N	19-K -41	34	1	1.480+	1.480+ 1	68 4071	1	N, ALPHA	
N	19-K -41	34	3	1.450+	1.450+ 1	53 27	1	N, ALPHA	
N	19-K -41	34	3	1.480+	1.480+ 1	63 756	1	N, ALPHA	
N	19-K -41	73	2	2.500-	2.500- 8	52 342	1	N, GAMMA	
N	19-K -41	73	2	2.500-	2.500- 8	60 909	1	N, GAMMA	
N	19-K -41	73	87	2	2.530-	2.530- 8	72 3696	15	N, GAMMA
N	19-K -41	76	2	2.000+	2.000+ 0	55 2034	1	N, P	
N	19-K -41	76	2	2.000+	2.000+ 0	56 1815	1	N, P	
N	19-K -41	84	2	2.000+	2.000+ 0	66 1815	1	N, ALPHA	
N	19-K -41	84	2	2.000+	2.000+ 0	68 3381	1	N, ALPHA	
C	19-K -41	523	6	6.800-	7 1.500+	65 1787	1	N, GAMMA	
N	19-K -41		0	0.000+	0 4.000- 2	73 3632	2	AVERAGE RESONANCE PARAMETERS	
N	19-K -41		2	2.029-	3 1.207-	73 3632	53	RESONANCE PARAMETERS	
N	19-K -41		5	5.400-	3 1.620- 2	58 15	2	RESONANCE PARAMETERS	
N	19-K -41		1	1.000-	2 1.100-	55 2410	6	RESONANCE PARAMETERS	
N	20-CA-NAT	1	1	1.150-	4 3.000- 4	49 844	2	TOTAL	
N	20-CA-NAT	1	1	1.616-	3 5.485-	74 3579	702	TOTAL	
N	20-CA-NAT	1	1	1.100-	2 1.050-	61 736	102	TOTAL	
N	20-CA-NAT	1	1	1.300-	2 1.000-	61 728	29	TOTAL	
N	20-CA-NAT	1	1	2.500-	2 5.220-	49 49	69	TOTAL	
C	20-CA-NAT	1	1	1.300-	1 6.840-	62 747	925	TOTAL	
N	20-CA-NAT	1	1	2.000-	1 2.844+	76 3458	3483	TOTAL	
N	20-CA-NAT	1	1	2.200-	1 1.000+ 0	60 732	154	TOTAL	
N	20-CA-NAT	1	1	4.050-	1 1.342+ 0	59 451	938	TOTAL	
N	20-CA-NAT	1	1	4.767-	1 6.160+ 0	71 3164	3021	TOTAL	
N	20-CA-NAT	1	1	5.002-	1 3.194+	70 2517	5113	TOTAL	
N	20-CA-NAT	1	1	6.650-	1 8.650-	61 632	1	TOTAL	
N	20-CA-NAT	1	1	1.000+	0 6.000+ 0	58 418	10	TOTAL	
N	20-CA-NAT	1	1	1.250+	0 2.700+ 0	61 386	10	TOTAL	
N	20-CA-NAT	1	1	1.995+	0 1.006+	57 1508	347	TOTAL	
N	20-CA-NAT	1	1	2.110+	0 3.100+ 0	60 613	17	TOTAL	
N	20-CA-NAT	1	1	2.251+	0 1.487+	67 750	244	TOTAL	
N	20-CA-NAT	1	1	2.370+	0 1.598+	67 1786	7	TOTAL	
N	20-CA-NAT	1	1	3.660+	0 3.660+ 0	61 637	1	TOTAL	
N	20-CA-NAT	1	1	4.100+	0 4.100+ 0	60 576	1	TOTAL	

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 20000

07/04/76

EC57L-7600 REACTION INDEX (ZA ORDERED)

ZA = 20000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
20-CA-NAT	102		6.090+ 0	8.050+ 0	69 2890	59	ELASTIC ANGULAR DISTRIBUTION
N 20-CA-NAT	102		1.400+ 1	1.400+ 1	65 1648	20	ELASTIC ANGULAR DISTRIBUTION
20-CA-NAT	102		1.460+ 1	1.460+ 1	60 631	21	ELASTIC ANGULAR DISTRIBUTION
20-CA-NAT	102	0	8.520+ 0	8.520+ 0	70 3192	19	ELASTIC ANGULAR DISTRIBUTION
20-CA-NAT	111	1	5.000+ 0	8.520+ 0	70 3192	68	N,N' ANGULAR DISTRIBUTION
20-CA-NAT	111	8	6.000+ 0	8.520+ 0	70 3192	69	N,N' ANGULAR DISTRIBUTION
20-CA-NAT	124	7	4.200+ 0	4.430+ 0	64 1730	31	N,X GAMMA ANGULAR DISTRIBUTION
N 20-CA-NAT	124	7	4.850+ 0	8.050+ 0	71 3514	300	N,X GAMMA ANGULAR DISTRIBUTION
20-CA-NAT	124	10	1.400+ 1	1.400+ 1	60 1704	7	N,X GAMMA ANGULAR DISTRIBUTION
N 20-CA-NAT	224		1.410+ 1	1.410+ 1	70 2232	25	N,X GAMMA ENERGY DISTRIBUTION
N 20-CA-NAT	304		1.455+ 1	1.455+ 1	74 4002	350	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 20-CA-NAT	311	60	1.410+ 1	1.410+ 1	65 1932	52	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N 20-CA-NAT	324		9.500+ 1	1.860+ 1	73 3506	2346	N,X GAMMA DIFF. ENERGY-ANGLE DISTRIBUTION
20-CA-NAT			1.410+ 1	1.410+ 1	66 1932	1	NUCLEAR TEMPERATURE
N 20-CA-NAT			8.255+ 2	1.030+ 1	74 3579	2	RESONANCE PARAMETERS
20-CA-40	1		8.216+ 1	1.797+ 0	71 2290	1393	TOTAL
20-CA-40	1		1.797+ 0	2.116+ 0	67 3167	185	TOTAL
20-CA-40	1		2.251+ 0	1.487+ 1	67 750	244	TOTAL
20-CA-40	1		2.760+ 0	2.760+ 0	67 1925	1	TOTAL
20-CA-40	2		1.410+ 1	1.410+ 1	64 2016	1	ELASTIC
20-CA-40	14		1.400+ 1	1.443+ 1	61 361	1	N,N'P
20-CA-40	14		1.410+ 1	1.410+ 1	68 3021	1	N,N'P
20-CA-40	18		1.410+ 1	1.410+ 1	66 2894	1	N,N' ALPHA
N 20-CA-40	23		1.410+ 1	1.410+ 1	70 2232	1	N, GAMMA
20-CA-40	26		6.000+ 0	6.000+ 0	61 2032	1	N,P
N 20-CA-40	26		1.410+ 1	1.410+ 1	68 3021	1	N,P
N 20-CA-40	30		1.460+ 1	1.460+ 1	74 3923	1	N,T
20-CA-40	30		1.470+ 1	1.470+ 1	68 3369	1	N,T
N 20-CA-40	30		1.480+ 1	1.480+ 1	65 1697	1	N,T
20-CA-40	30	3	1.420+ 1	1.420+ 1	68 1944	1	N,T
N 20-CA-40	34		2.980+ 0	9.300+ 0	75 3561	10	N, ALPHA
20-CA-40	34		6.000+ 0	6.000+ 0	61 2032	1	N, ALPHA
20-CA-40	35		1.410+ 1	1.410+ 1	66 2894	1	N,X ALPHA
20-CA-40	73		2.500+ 8	2.500+ 8	52 342	1	N, GAMMA
20-CA-40	73		2.500+ 8	2.500+ 8	71 1790	1	N, GAMMA
N 20-CA-40	73		2.530+ 8	2.530+ 8	67 3689	1	N, GAMMA
N 20-CA-40	73		3.750+ 3	1.750+ 1	75 4005	14	N, GAMMA
N 20-CA-40	73	87	2.530+ 8	2.530+ 8	67 3689	37	N, GAMMA
20-CA-40	84		2.500+ 8	2.500+ 8	58 900	1	N, ALPHA
N 20-CA-40	102		5.502+ 1	2.048+ 0	68 3072	4104	ELASTIC ANGULAR DISTRIBUTION
20-CA-40	102		2.760+ 0	2.760+ 0	67 1925	6	ELASTIC ANGULAR DISTRIBUTION
20-CA-40	102		1.410+ 1	1.410+ 1	64 2016	14	ELASTIC ANGULAR DISTRIBUTION
20-CA-40	111	1	1.410+ 1	1.410+ 1	64 2016	13	N,N' ANGULAR DISTRIBUTION
20-CA-40	124	7	3.500+ 0	5.000+ 0	65 941	25	N,X GAMMA ANGULAR DISTRIBUTION
20-CA-40	124	7	4.200+ 0	4.430+ 0	64 1730	42	N,X GAMMA ANGULAR DISTRIBUTION
20-CA-40	124	87	4.200+ 0	5.000+ 0	65 941	55	N,X GAMMA ANGULAR DISTRIBUTION
20-CA-40	128	1	1.440+ 1	1.440+ 1	67 2008	14	N,D ANGULAR DISTRIBUTION
20-CA-40	128	1	1.440+ 1	1.440+ 1	62 2008	14	N,D ANGULAR DISTRIBUTION
20-CA-40	134		4.150+ 0	6.000+ 0	64 2778	3	N, ALPHA
C 20-CA-40			0.000+ 0	2.800+ 1	61 7298	2	AVERAGE RESONANCE PARAMETERS
C 20-CA-40			0.000+ 0	6.350+ 1	65 1048	1	AVERAGE RESONANCE PARAMETERS
C 20-CA-40			0.000+ 0	1.300+ 0	68 3072	24	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 20040

07/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 20040

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION		
N	20-CA-40			2.500-	3	2.000-	1	75 1005	6	AVERAGE RESONANCE PARAMETERS
N	20-CA-40			1.083-	2	5.354-	1	74 3579	36	RESONANCE PARAMETERS
	20-CA-40			8.800-	2	2.500-	1	61 728	24	RESONANCE PARAMETERS
	20-CA-40			1.460-	1	6.760-	1	62 747	52	RESONANCE PARAMETERS
	20-CA-40			2.540-	1	5.950-	1	61 732	21	RESONANCE PARAMETERS
C	20-CA-40			3.590-	1	1.530+	0	68 3072	215	RESONANCE PARAMETERS
	20-CA-42	1		8.000-	2	6.505-	1	63 751	1137	TOTAL
	20-CA-42	1		2.402+	0	1.489+	1	67 750	225	TOTAL
	20-CA-42	26		1.400+	1	1.400+	1	63 323	1	N,P
	20-CA-42	26		1.420+	1	1.420+	1	68 1944	1	N,P
N	20-CA-42	26		1.460+	1	1.460+	1	64 3685	1	N,P
	20-CA-42	26		1.460+	1	1.460+	1	65 1777	1	N,P
	20-CA-42	26		1.470+	1	1.470+	1	66 1675	1	N,P
	20-CA-42	26		1.480+	1	1.480+	1	68 4071	1	N,P
	20-CA-42	26		1.490+	1	1.490+	1	61 3373	1	N,P
	20-CA-42	73		2.500-	8	2.500-	8	52 342	1	N,GAMMA
	20-CA-42	73		2.500-	8	2.500-	8	71 1790	1	N,GAMMA
N	20-CA-42	73		2.530-	8	2.530-	8	67 3689	1	N,GAMMA
	20-CA-42	73 87		2.530-	8	2.530-	8	67 3689	1	N,GAMMA
	20-CA-42	86		2.000+	0	2.000+	0	62 3331	1	ACTIVATION
	20-CA-42			0.000+	0	6.500+	1	66 1048	1	AVERAGE RESONANCE PARAMETERS
C	20-CA-42			3.743-	2	3.743-	2	74 3579	1	RESONANCE PARAMETERS
N	20-CA-42			4.000-	2	5.725-	1	66 1048	82	RESONANCE PARAMETERS
	20-CA-43	26		1.420+	1	1.420+	1	68 1944	1	N,P
	20-CA-43	26		1.460+	1	1.460+	1	64 3685	1	N,P
	20-CA-43	26		1.460+	1	1.460+	1	65 1777	1	N,P
	20-CA-43	26		1.470+	1	1.470+	1	66 1675	1	N,P
	20-CA-43	28		1.420+	1	1.420+	1	68 1944	1	N,D
	20-CA-43	73		2.500-	8	2.500-	8	71 1790	1	N,GAMMA
N	20-CA-43	73		2.530-	8	2.530-	8	67 3689	1	N,GAMMA
	20-CA-43	73 87		2.530-	8	2.530-	8	67 3689	2	N,GAMMA
	20-CA-43	86		2.000+	0	2.000+	0	62 3331	1	ACTIVATION
C	20-CA-43			2.000-	3	3.600-	2	65 924	2	AVERAGE RESONANCE PARAMETERS
	20-CA-43			1.470-	3	1.470-	3	62 2423	1	RESONANCE PARAMETERS
	20-CA-43			1.490-	3	1.490-	3	59 2007	1	RESONANCE PARAMETERS
	20-CA-43			4.360-	3	3.400-	2	65 924	22	RESONANCE PARAMETERS
	20-CA-44	1		8.000-	2	6.405-	1	63 751	1140	TOTAL
	20-CA-44	1		2.267+	0	1.486+	1	67 750	252	TOTAL
	20-CA-44	23		2.530-	8	2.530-	8	47 888	1	N,GAMMA
	20-CA-44	26		1.400+	1	1.400+	1	63 323	1	N,P
	20-CA-44	26		1.420+	1	1.420+	1	68 1944	1	N,P
	20-CA-44	26		1.470+	1	1.470+	1	66 1675	1	N,P
	20-CA-44	26		1.480+	1	1.480+	1	65 1697	1	N,P
N	20-CA-44	26		1.480+	1	1.480+	1	68 4071	1	N,P
	20-CA-44	26		1.490+	1	1.490+	1	61 3373	1	N,P
	20-CA-44	28		1.420+	1	1.420+	1	68 1944	1	N,D
	20-CA-44	34		1.420+	1	1.420+	1	68 1944	1	N,ALPHA
	20-CA-44	34		1.460+	1	1.460+	1	65 1697	1	N,ALPHA
	20-CA-44	34		1.490+	1	1.490+	1	61 3373	1	N,ALPHA
	20-CA-44	43		7.300-	8	7.300-	8	51 1584	1	COHERENT SCATTERING
	20-CA-44	73		2.500-	8	2.500-	8	55 2938	1	N,GAMMA
	20-CA-44	73		2.500-	8	2.500-	8	71 1790	1	N,GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 20044

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 20044

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	20-CA-44	73	2.530-	8 2.530-	8 67 3689	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N	20-CA-44	73	2.530-	8 2.530-	8 73 3750	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N	20-CA-44	73 87	2.530-	8 2.530-	8 67 3689	5	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	20-CA-44	84	2.000+	0 2.000+	0 65 2034	1	N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	20-CA-44	124 7	3.500+	0 5.000+	0 65 941	7	N,X GAMMA ANGULAR DISTRIBUTION
	20-CA-44	876	1.400+	1 1.400+	1 57 930	1	N,P CROSS SECTION RATIO
C	20-CA-44		0.000+	0 2.800-	1 61 728	2	AVERAGE RESONANCE PARAMETERS
C	20-CA-44		0.000+	0 6.600-	1 66 1048	1	AVERAGE RESONANCE PARAMETERS
	20-CA-44		2.200-	2 2.470-	1 61 728	20	RESONANCE PARAMETERS
N	20-CA-44		5.180-	2 5.180-	2 74 3579	1	RESONANCE PARAMETERS
	20-CA-44		5.300-	2 5.760-	1 66 1048	79	RESONANCE PARAMETERS
	20-CA-46	73	2.500-	8 2.500-	8 71 1790	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N	20-CA-46	523	5.000-	7 1.500+	1 69 3680	1	N,GAMMA RESONANCE INTEGRAL
	20-CA-48	12	1.330+	1 1.330+	1 67 2009	1	N,2N
	20-CA-48	12	1.420+	1 1.420+	1 68 1944	1	N,2N
	20-CA-48	12	1.450+	1 1.450+	1 62 840	1	N,2N
	20-CA-48	12	1.490+	1 1.490+	1 61 3373	1	N,2N
	20-CA-48	23	1.470+	1 1.470+	1 67 1695	1	N,GAMMA
	20-CA-48	73	2.500-	8 2.500-	8 71 1790	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	21-SC-45	1	1.450-	9 5.370-	3 55 1793	190	TOTAL
N	21-SC-45	1	2.030-	8 5.947-	3 66 3845	120	TOTAL
	21-SC-45	1	2.914-	3 1.344-	2 58 548	29	TOTAL
	21-SC-45	1	3.000-	3 1.050-	1 57 157	56	TOTAL
	21-SC-45	1	3.060-	3 9.800-	3 59 855	126	TOTAL
	21-SC-45	1	5.500-	3 1.400-	2 57 154	11	TOTAL
	21-SC-45	1	2.002-	1 1.409+	0 70 3295	524	TOTAL
	21-SC-45	1	2.308+	0 1.482+	1 67 750	236	TOTAL
	21-SC-45	2	2.000-	1 1.400+	0 70 3295	64	ELASTIC
N	21-SC-45	11 7	4.600-	1 1.690+	0 69 3445	70	N,N'
	21-SC-45	12	1.155+	1 1.376+	1 50 588	12	N,2N
N	21-SC-45	12	1.236+	1 1.476+	1 75 3807	6	N,2N
	21-SC-45	12	1.440+	1 1.440+	1 61 672	1	N,2N
	21-SC-45	12	1.460+	1 1.460+	1 67 2009	1	N,2N
	21-SC-45	12	1.480+	1 1.480+	1 61 660	1	N,2N
N	21-SC-45	12	1.510+	1 1.510+	1 75 3567	1	N,2N
	21-SC-45	12 4	1.197+	1 1.376+	1 60 588	11	N,2N
	21-SC-45	12 4	1.210+	1 1.790+	1 64 1791	14	N,2N
	21-SC-45	12 4	1.400+	1 1.400+	1 59 619	1	N,2N
	21-SC-45	12 4	1.400+	1 1.400+	1 66 2889	1	N,2N
	21-SC-45	12 4	1.413+	1 1.413+	1 62 108	1	N,2N
	21-SC-45	12 4	1.480+	1 1.480+	1 61 660	1	N,2N
	21-SC-45	12 4	1.480+	1 1.480+	1 61 703	1	N,2N
N	21-SC-45	12 4	1.480+	1 1.480+	1 63 756	1	N,2N
	21-SC-45	12 4	1.480+	1 1.480+	1 67 1901	1	N,2N
N	21-SC-45	12 4	1.480+	1 1.480+	1 75 3577	1	N,2N
N	21-SC-45	12 4	1.510+	1 1.510+	1 75 3567	1	N,2N
	21-SC-45	12 5	1.197+	1 1.376+	1 60 588	11	N,2N
	21-SC-45	12 5	1.260+	1 1.790+	1 64 1791	13	N,2N
	21-SC-45	12 5	1.338+	1 1.494+	1 61 1792	7	N,2N
N	21-SC-45	12 5	1.391+	1 1.490+	1 72 3437	4	N,2N
	21-SC-45	12 5	1.400+	1 1.400+	1 66 2889	1	N,2N
N	21-SC-45	12 5	1.410+	1 2.806+	1 75 3890	11	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 21045

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 21045

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
21-SC-45	12	5	1.480+ 1	1.480+ 1	61 660	1	N,2N
N 21-SC-45	12	5	1.480+ 1	1.480+ 1	75 3577	1	N,2N
N 21-SC-45	12	5	1.510+ 1	1.510+ 1	75 3567	1	N,2N
N 21-SC-45	23		2.530- 8	2.530- 8	66 3845	1	N,GAMMA
21-SC-45	23		1.100- 6	4.150- 2	65 1795	57	N,GAMMA
21-SC-45	23		1.500- 1	1.465+ 1	63 758	7	N,GAMMA
21-SC-45	23		1.470+ 1	1.470+ 1	67 1695	1	N,GAMMA
21-SC-45	23	5	2.530- 8	2.530- 8	47 888	1	N,GAMMA
21-SC-45	23	5	2.100- 2	2.100- 2	57 23	1	N,GAMMA
21-SC-45	24	7	1.610+ 0	1.610+ 0	61 11	6	N,X GAMMA
21-SC-45	26		1.340+ 1	1.481+ 1	60 589	6	N,P
21-SC-45	26		1.470+ 1	1.470+ 1	65 1675	1	N,P
N 21-SC-45	26		1.480+ 1	1.480+ 1	68 4071	1	N,P
21-SC-45	34		8.000+ 0	1.976+ 1	60 588	11	N,ALPHA
21-SC-45	34		1.480+ 1	1.400+ 1	61 660	1	N,ALPHA
21-SC-45	34		1.480+ 1	1.480+ 1	63 756	1	N,ALPHA
N 21-SC-45	34		1.480+ 1	1.480+ 1	68 4071	1	N,ALPHA
21-SC-45	34	4	1.400+ 1	1.400+ 1	59 619	1	N,ALPHA
21-SC-45	71		2.500- 8	2.500- 8	50 1794	1	ABSORPTION
21-SC-45	71		2.500- 8	2.500- 8	51 882	1	ABSORPTION
21-SC-45	71		2.500- 8	2.500- 8	51 1619	1	ABSORPTION
21-SC-45	71		2.500- 8	2.500- 8	52 2563	1	ABSORPTION
21-SC-45	71		2.500- 8	2.500- 8	53 2562	1	ABSORPTION
21-SC-45	71		2.500- 8	2.500- 8	55 1793	1	ABSORPTION
21-SC-45	73	7	2.530- 8	2.530- 8	70 2415	244	N,GAMMA
21-SC-45	74		2.530- 8	2.530- 8	70 2415	1	N,X GAMMA
N 21-SC-45	76		1.500+ 0	1.500+ 0	61 3982	1	N,P
21-SC-45	91		2.500- 8	2.500- 8	55 1793	1	BOUND ATOM
21-SC-45	92		2.500- 8	2.500- 8	55 1793	1	FREE ATOM
21-SC-45	94		2.500- 8	2.500- 8	55 1793	1	INCOHERENT SCATTER
21-SC-45	111	1	5.600- 1	1.400+ 0	70 3295	198	N,N'
21-SC-45	452		2.000+ 1	1.400+ 0	70 3295	256	ELASTIC
N 21-SC-45	523		5.000- 7	1.500+ 1	69 3680	1	N,GAMMA
N 21-SC-45	852	4	1.510+ 1	1.510+ 1	74 3575	1	N,2N
N 21-SC-45	862	5	1.480+ 1	1.480+ 1	75 3577	1	N,2N
N 21-SC-45			1.900- 2	1.070- 1	70 3658	9	AVERAGE RESONANCE PARAMETERS
21-SC-45			-4.000- 4	1.000- 3	65 1795	6	RESONANCE PARAMETERS
21-SC-45			-1.300- 4	3.600- 3	55 1793	4	RESONANCE PARAMETERS
21-SC-45			1.500- 4	1.020- 3	63 2481	2	RESONANCE PARAMETERS
21-SC-45			3.240- 3	1.170- 2	59 2384	7	RESONANCE PARAMETERS
21-SC-45			3.360- 3	6.800- 3	58 548	2	RESONANCE PARAMETERS
21-SC-45			4.100- 3	4.100- 3	57 157	1	RESONANCE PARAMETERS
21-SC-45			1.890- 2	4.000- 2	58 2384	8	RESONANCE PARAMETERS
N 21-SC-45			1.917- 2	1.057- 1	70 3658	102	RESONANCE PARAMETERS
21-SC-45	73		2.500- 8	2.500- 8	68 3336	1	N,GAMMA
22-TI-NAT			2.020- 9	2.878- 7	60 1798	93	TOTAL
22-TI-NAT			2.554- 8	4.516- 5	61 887	145	TOTAL
22-TI-NAT			1.150- 7	7.790- 2	53 1796	102	TOTAL
22-TI-NAT			1.150- 4	3.000- 4	49 844	2	TOTAL
22-TI-NAT			5.844- 4	2.165- 1	55 814	3995	TOTAL
22-TI-NAT			2.800- 3	1.970- 2	58 15	76	TOTAL
22-TI-NAT			3.000- 3	3.900- 2	52 75	18	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 22000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 22000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
22-TI-NAT	1		5.000-	3 2.950-	1 61 728	121	TOTAL
22-TI-NAT	1		8.300-	2 1.409+	0 50 185	17	TOTAL
N 22-TI-NAT	1		9.000-	2 3.280+	0 66 4017	27	TOTAL
22-TI-NAT	1		1.001-	1 1.434+	0 70 3128	1014	TOTAL
22-TI-NAT	1		1.005-	1 6.489-	1 66 1052	271	TOTAL
N 22-TI-NAT	1		1.491-	1 4.035+	0 73 3945	1008	TOTAL
22-TI-NAT	1		4.985-	1 4.001+	0 68 2425	2649	TOTAL
22-TI-NAT	1		2.210+	0 2.740+	0 53 94	13	TOTAL
22-TI-NAT	1		2.253+	0 1.485+	1 67 750	250	TOTAL
22-TI-NAT	1		2.700+	0 1.230+	1 54 504	29	TOTAL
22-TI-NAT	1		3.650+	0 3.650+	0 61 637	1	TOTAL
22-TI-NAT	1		4.100+	0 4.100+	0 55 296	1	TOTAL
22-TI-NAT	1		4.500+	0 7.889+	0 67 1747	167	TOTAL
22-TI-NAT	1		7.010+	0 1.397+	1 57 22	6	TOTAL
22-TI-NAT	1		1.314+	1 1.560+	1 58 324	6	TOTAL
22-TI-NAT	1		1.390+	1 1.390+	1 51 65	1	TOTAL
22-TI-NAT	1		1.400+	1 1.400+	1 52 81	1	TOTAL
22-TI-NAT	1		1.400+	1 1.400+	1 52 207	1	TOTAL
22-TI-NAT	1		1.400+	1 1.400+	1 59 567	1	TOTAL
22-TI-NAT	1		1.750+	1 2.850+	1 60 673	4	TOTAL
22-TI-NAT	1		6.100+	1 1.068+	2 55 282	12	TOTAL
22-TI-NAT	2		3.000-	1 5.000-	1 66 2339	2	ELASTIC
N 22-TI-NAT	2		3.120-	1 1.472+	0 70 3128	83	ELASTIC
22-TI-NAT	2		8.943-	1 8.943-	1 72 3946	1	ELASTIC
22-TI-NAT	2		9.000-	1 9.000-	1 62 708	1	ELASTIC
22-TI-NAT	2		1.000+	0 1.000+	0 54 103	1	ELASTIC
N 22-TI-NAT	2		1.500+	0 1.500+	0 67 3394	1	ELASTIC
22-TI-NAT	2		2.000+	0 2.000+	0 65 1509	1	ELASTIC
N 22-TI-NAT	2		4.340+	0 8.560+	0 73 3448	5	ELASTIC
22-TI-NAT	2		1.400+	1 1.400+	1 59 567	1	ELASTIC
22-TI-NAT	3		1.000+	0 7.000+	0 56 151	5	NONELASTIC
22-TI-NAT	3		3.500+	0 1.410+	1 55 130	5	NONELASTIC
22-TI-NAT	3		4.000+	0 4.500+	0 55 122	2	NONELASTIC
22-TI-NAT	3		4.100+	0 4.100+	0 55 296	1	NONELASTIC
22-TI-NAT	3		1.420+	1 1.420+	1 57 319	1	NONELASTIC
22-TI-NAT	3		2.550+	1 2.550+	1 58 356	1	NONELASTIC
22-TI-NAT	5		7.000-	8 7.000-	8 60 2561	1	TOTAL SCATTERING
22-TI-NAT	5		2.280-	1 1.448+	0 56 231	18	TOTAL SCATTERING
N 22-TI-NAT	11	1	4.070+	0 8.560+	0 73 3448	35	N,N'
22-TI-NAT	11	8	7.200-	1 1.467+	0 70 3128	5	N,N'
N 22-TI-NAT	11	8	4.340+	0 8.560+	0 73 3448	11	N,N'
22-TI-NAT	12		1.410+	1 1.410+	1 58 1821	1	N,2N
22-TI-NAT	23		2.530-	8 2.530-	8 61 887	1	N,GAMMA
22-TI-NAT	23		2.500-	2 8.300-	1 60 633	3	N,GAMMA
22-TI-NAT	23		3.000-	2 6.500-	2 63 1	2	N,GAMMA
22-TI-NAT	23		1.750-	1 1.000+	0 60 674	7	N,GAMMA
22-TI-NAT	24		1.100+	0 3.210+	0 65 1797	20	N,X GAMMA
22-TI-NAT	24	7	1.100+	0 3.210+	0 65 1797	48	N,X GAMMA
22-TI-NAT	26		1.440+	1 1.440+	1 62 688	1	N,P
22-TI-NAT	31		1.470+	1 1.470+	1 73 3996	1	N,T
N 22-TI-NAT	41		7.300-	8 7.300-	8 51 1584	1	BOUND ATOM
22-TI-NAT	42		4.500-	5 4.500-	5 61 887	1	FREE ATOM

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 22000

(7/04/76)

EC5IL-7600 REACTION INDEX (ZA ORDERED)

ZA = 22000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
22-TI-NAT	43		2.530-	8 2.930-	8 51 2564	1	COHERENT SCATTERING
22-TI-NAT	43		7.000-	8 7.000-	8 60 2561	1	COHERENT SCATTERING
22-TI-NAT	43		7.300-	8 7.300-	8 51 1584	1	COHERENT SCATTERING
22-TI-NAT	52		2.500-	8 2.900-	8 51 1303	1	ELASTIC
N 22-TI-NAT	61	7	1.000+	0 1.000+	0 70 3425	2	N,N'
22-TI-NAT	71		2.500-	8 2.900-	8 50 1623	1	ABSORPTION
22-TI-NAT	71		2.500-	8 2.900-	8 50 1794	1	ABSORPTION
22-TI-NAT	71		2.500-	8 2.900-	8 51 882	1	ABSORPTION
22-TI-NAT	73	7	2.530-	8 2.930-	8 70 2415	84	N, GAMMA
22-TI-NAT	74		2.530-	8 2.930-	8 70 2415	1	N, X GAMMA
22-TI-NAT	85		2.000+	0 2.000+	0 70 3383	1	N, X ALPHA
22-TI-NAT	102		3.000-	1 5.000-	1 66 2339	16	ELASTIC
22-TI-NAT	102		5.000-	1 5.000-	1 55 1495	3	ELASTIC
22-TI-NAT	102		5.500-	1 1.450+	0 58 231	60	ELASTIC
22-TI-NAT	102		5.800-	1 1.110+	0 71 3946	131	ELASTIC
N 22-TI-NAT	102		5.943-	1 8.943-	1 72 3546	8	ELASTIC
22-TI-NAT	102		1.000+	0 1.000+	0 54 103	9	ELASTIC
22-TI-NAT	102		1.000+	0 1.000+	0 54 1032	5	ELASTIC
22-TI-NAT	102		2.250+	0 2.450+	0 56 476	20	ELASTIC
22-TI-NAT	102		3.200+	0 3.200+	0 68 2950	13	ELASTIC
22-TI-NAT	102		3.440+	0 4.610+	0 61 2323	5	ELASTIC
N 22-TI-NAT	102		4.070+	0 8.960+	0 73 3440	105	ELASTIC
22-TI-NAT	102		4.100+	0 4.100+	0 55 296	11	ELASTIC
22-TI-NAT	102		1.400+	1 1.400+	1 59 567	18	ELASTIC
N 22-TI-NAT	102		1.400+	1 1.400+	1 72 3406	12	ELASTIC
22-TI-NAT	102 80		2.900+	0 2.900+	0 69 3000	8	ELASTIC
N 22-TI-NAT	105	1	5.230+	0 5.230+	0 73 3440	1	TOTAL SCATTERING
22-TI-NAT	111		2.900+	0 2.900+	0 69 3000	9	N,N'
N 22-TI-NAT	111	1	4.070+	0 8.960+	0 73 3440	197	N,N'
22-TI-NAT	111	8	1.065+	0 1.900+	0 70 3128	140	N,N'
N 22-TI-NAT	111	8	1.340+	0 0.960+	0 72 2440	94	N,N'
N 22-TI-NAT	124	1	4.900+	0 5.900+	0 74 3538	209	N, X GAMMA
22-TI-NAT	124	7	1.470+	1 1.470+	1 65 1707	9	N, X GAMMA
22-TI-NAT	127		1.440+	1 1.440+	1 62 688	6	N, X P
N 22-TI-NAT	304		1.438+	1 1.475+	1 74 4002	500	NEUTRON EMISSION
N 22-TI-NAT	311		5.230+	0 8.960+	0 73 3448	5386	N,N'
N 22-TI-NAT	311 80		1.410+	1 1.410+	1 65 1908	44	N,N'
22-TI-NAT	406		1.420+	1 1.420+	1 58 905	1	NONELASTIC EMISSION
C 22-TI-NAT	521		4.900-	7 1.900+	1 57 1954	1	ABSORPTION
22-TI-NAT	606		1.480+	1 1.480+	1 66 1042	17	NONELASTIC EMISSION
22-TI-NAT			1.410+	1 1.410+	1 65 1908	2	NUCLEAR TEMPERATURE
22-TI-NAT			1.480+	1 1.480+	1 67 2897	2	NUCLEAR TEMPERATURE
C 22-TI-N6	1		3.550-	2 3.900-	1 62 747	652	TOTAL
N 22-TI-N6	1		1.420+	1 1.420+	1 72 4051	1	TOTAL
N 22-TI-N6	5		7.000-	8 7.000-	8 60 2561	1	TOTAL SCATTERING
N 22-TI-N6	11	1	9.050-	1 1.485+	0 73 4069	35	N,N'
22-TI-N6	12		1.340+	1 1.475+	1 80 588	10	N,2N
22-TI-N6	12		1.350+	1 1.950+	1 66 1799	5	N,2N
22-TI-N6	12		1.410+	1 1.960+	1 65 1800	7	N,2N
22-TI-N6	12		1.413+	1 1.413+	1 62 154	1	N,2N
N 22-TI-N6	12		1.420+	1 1.420+	1 72 3427	1	N,2N
22-TI-N6	12		1.440+	1 1.440+	1 61 676	1	N,2N

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 22046

07/04/76

ECSIL-1600 REACTION INDEX (ZA ORDERED)

ZA = 22046

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
22-Ti-46	12		1.460	1.460	65 1672	1	N,2N
22-Ti-46	12		1.470	1.470	63 1009	1	N,2N
22-Ti-46	12		1.480	1.480	59 662	1	N,2N
N 22-Ti-46	12	4	1.460	1.460	73 3988	1	N,2N
C 22-Ti-46	26		3.668	0 9.950	0 73 3342	57	N,P
22-Ti-46	26		4.100	0 6.100	0 71 3178	3	N,P
22-Ti-46	26		4.910	0 7.040	0 69 2132	11	N,P
22-Ti-46	26		1.250	1 1.700	1 65 1800	6	N,P
22-Ti-46	26		1.260	1 1.652	1 65 893	17	N,P
22-Ti-46	26		1.360	1 1.950	1 66 1799	5	N,P
22-Ti-46	26		1.400	1 1.400	1 61 361	1	N,P
22-Ti-46	26		1.450	1 1.450	1 63 1009	1	N,P
22-Ti-46	26		1.470	1 1.470	1 64 1801	1	N,P
22-Ti-46	26		1.480	1 1.480	1 59 662	1	N,P
N 22-Ti-46	26	5	1.480	1 1.480	1 69 4083	1	N,P
22-Ti-46	43		7.000	8 7.000	8 60 2561	1	COHERENT SCATTERING
22-Ti-46	73		2.500	8 2.500	8 52 342	1	N,GAMMA
22-Ti-46	76		2.000	0 2.000	0 65 1772	1	N,P
22-Ti-46	76		2.000	0 2.000	0 67 1895	1	N,P
22-Ti-46	76		2.000	0 2.000	0 68 2990	1	N,P
N 22-Ti-46	76	5	1.000	0 1.000	0 65 3671	1	N,P
22-Ti-46	76	5	1.000	0 1.000	0 71 3762	2	N,P
N 22-Ti-46	76	5	1.500	0 1.500	0 65 3976	1	N,P
22-Ti-46	76	5	2.000	0 2.000	0 64 1711	1	N,P
N 22-Ti-46	876		3.668	0 9.950	0 73 3342	30	N,P
C 22-Ti-46			0.000	0 3.900	1 66 1048	1	AVERAGE RESONANCE PARAMETERS
C 22-Ti-46			4.890	2 1.794	1 71 2079	2	AVERAGE RESONANCE PARAMETERS
22-Ti-46			1.100	2 6.350	2 66 1048	8	RESONANCE PARAMETERS
22-Ti-46			4.100	2 3.900	1 62 747	116	RESONANCE PARAMETERS
22-Ti-46			4.890	2 1.794	1 71 2079	9	RESONANCE PARAMETERS
N 22-Ti-47	1		1.420	1 1.420	1 72 4036	1	TOTAL
22-Ti-47	5		7.000	8 7.000	8 60 2561	1	TOTAL SCATTERING
C 22-Ti-47	26		9.140	1 9.950	0 73 3342	143	N,P
22-Ti-47	26		1.990	0 3.550	0 62 692	12	N,P
22-Ti-47	26		2.190	0 3.640	0 67 3287	5	N,P
22-Ti-47	26		3.400	0 6.100	0 71 3178	4	N,P
22-Ti-47	26		1.360	1 1.950	1 66 1799	5	N,P
22-Ti-47	26		1.400	1 1.400	1 61 361	1	N,P
22-Ti-47	26		1.450	1 1.450	1 62 840	1	N,P
22-Ti-47	26		1.450	1 1.450	1 63 1009	1	N,P
22-Ti-47	26		1.480	1 1.480	1 59 662	1	N,P
N 22-Ti-47	26	5	1.480	1 1.480	1 69 4083	1	N,P
22-Ti-47	34	1	1.460	1 1.460	1 69 2710	1	N,ALPHA
22-Ti-47	36		1.360	1 1.950	1 66 1799	5	ACTIVATION
22-Ti-47	36		1.450	1 1.450	1 63 1009	1	ACTIVATION
22-Ti-47	43		7.000	8 7.000	8 60 2561	1	COHERENT SCATTERING
22-Ti-47	73		2.500	8 2.500	8 52 342	1	N,GAMMA
N 22-Ti-47	76		1.000	0 1.000	0 71 3752	2	N,P
22-Ti-47	76		2.000	0 2.000	0 64 1711	1	N,P
22-Ti-47	76		2.000	0 2.000	0 65 1772	1	N,P
22-Ti-47	76		2.000	0 2.000	0 68 2990	1	N,P
N 22-Ti-47	76	5	1.500	0 1.500	0 65 3976	1	N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 22047

07/04/76

CCSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 22047

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	CROSS SECTION RATIO
N	22-TI-47	876	9.140-1	9.950-0	73 3342	73	N,P	CROSS SECTION RATIO
C	22-TI-47		2.000-3	6.000-2	65 924	2	AVERAGE RESONANCE PARAMETERS	
C	22-TI-47		3.074-3	4.210-2	71 2079	1	AVERAGE RESONANCE PARAMETERS	
N	22-TI-47		8.000-3	7.600-2	70 3658	9	AVERAGE RESONANCE PARAMETERS	
	22-TI-47		2.980-3	5.620-2	66 924	38	RESONANCE PARAMETERS	
	22-TI-47		3.074-3	4.210-2	71 2079	8	RESONANCE PARAMETERS	
	22-TI-47		8.110-3	2.120-2	70 3068	9	RESONANCE PARAMETERS	
N	22-TI-47		8.135-3	7.455-2	70 3658	69	RESONANCE PARAMETERS	
C	22-TI-48	1	4.600-2	3.890-1	62 747	601	TOTAL	
N	22-TI-48	1	1.420-1	1.420-1	72 4036	1	TOTAL	
	22-TI-48	5	7.000-8	7.000-8	60 2561	1	TOTAL SCATTERING	
N	22-TI-48	11	9.890-1	1.485-0	73 4089	102	N,N'	
C	22-TI-48	26	4.724-0	9.952-0	73 3342	35	N,P	
	22-TI-48	25	6.100-0	6.100-0	71 3178	1	N,P	
	22-TI-48	26	6.240-0	7.047-0	69 2132	5	N,P	
	22-TI-48	26	1.250-1	1.960-1	65 1800	9	N,P	
	22-TI-48	26	1.270-1	1.700-1	62 806	14	N,P	
	22-TI-48	26	1.360-1	1.950-1	66 1799	5	N,P	
	22-TI-48	26	1.400-1	1.400-1	61 361	1	N,P	
	22-TI-48	26	1.450-1	1.450-1	53 27	1	N,P	
	22-TI-48	26	1.450-1	1.450-1	62 840	1	N,P	
	22-TI-48	26	1.450-1	1.450-1	63 1009	1	N,P	
	22-TI-48	26	1.470-1	1.470-1	68 2586	1	N,P	
	22-TI-48	26	1.480-1	1.480-1	59 682	1	N,P	
N	22-TI-48	26 5	1.480-1	1.480-1	69 4083	1	N,P	
	22-TI-48	26 80	1.367-1	1.460-1	68 2586	6	N,P	
N	22-TI-48	34	1.410-1	1.410-1	67 1780	1	N,ALPHA	
	22-TI-48	34	1.450-1	1.450-1	63 1009	1	N,ALPHA	
N	22-TI-48	34 5	1.480-1	1.480-1	69 4083	1	N,ALPHA	
	22-TI-48	36	1.360-1	1.950-1	66 1799	5	ACTIVATION	
	22-TI-48	36	1.450-1	1.450-1	63 1009	1	ACTIVATION	
	22-TI-48	43	7.000-8	7.000-8	60 2561	1	COHERENT SCATTERING	
	22-TI-48	73	2.500-8	2.500-8	52 342	1	N,GAMMA	
N	22-TI-48	76	1.000-0	1.000-0	71 3762	2	N,P	SPECTRUM AVERAGED CROSS SECTION
	22-TI-48	76	2.000-0	2.000-0	64 1711	1	N,P	SPECTRUM AVERAGED CROSS SECTION
	22-TI-48	76	2.000-0	2.000-0	65 1772	1	N,P	SPECTRUM AVERAGED CROSS SECTION
	22-TI-48	76	2.000-0	2.000-0	68 2990	1	N,P	SPECTRUM AVERAGED CROSS SECTION
N	22-TI-48	76 5	1.500-0	1.500-0	65 3976	1	N,P	SPECTRUM AVERAGED CROSS SECTION
	22-TI-48	111	2.450-0	2.450-0	56 476	1	N,N'	ANGULAR DISTRIBUTION
N	22-TI-48	111	1.400-1	1.400-1	71 3408	11	N,N'	ANGULAR DISTRIBUTION
	22-TI-48	111 7	2.800-0	2.800-0	65 1715	2	N,N'	ANGULAR DISTRIBUTION
	22-TI-48	111 81	2.450-0	2.450-0	56 476	9	N,N'	ANGULAR DISTRIBUTION
	22-TI-48	124 7	2.800-0	2.800-0	65 1715	2	N,X GAMMA	ANGULAR DISTRIBUTION
	22-TI-48	124 7	1.430-1	1.430-1	67 1710	1	N,X GAMMA	ANGULAR DISTRIBUTION
	22-TI-48	128	1.440-1	1.440-1	65 1636	7	N,D	ANGULAR DISTRIBUTION
N	22-TI-48	224 80	2.500-8	2.500-2	72 4050	24	N,X GAMMA	ENERGY DISTRIBUTION
C	22-TI-48	876	4.724-0	9.952-0	73 3342	19	N,P	CROSS SECTION RATIO
C	22-TI-48		0.000-0	3.000-1	61 728	2	AVERAGE RESONANCE PARAMETERS	
C	22-TI-48		0.000-0	3.900-1	66 1048	1	AVERAGE RESONANCE PARAMETERS	
C	22-TI-48		1.760-2	1.910-1	71 2079	2	AVERAGE RESONANCE PARAMETERS	
	22-TI-48		4.000-3	2.700-1	61 728	38	RESONANCE PARAMETERS	
	22-TI-48		1.750-2	5.130-2	66 1048	8	RESONANCE PARAMETERS	

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 22048

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

7A = 22048

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	22-TI-48		1.760-2	1.910-1	71 2079	12	RESONANCE PARAMETERS
C	22-TI-48		1.776-2	1.924-1	70 3067	21	RESONANCE PARAMETERS
C	22-TI-48		7.200-2	3.670-1	62 747	66	RESONANCE PARAMETERS
N	22-TI-49	1	1.725-2	2.460-1	69 3067	1321	TOTAL
N	22-TI-49	1	1.420-1	1.420-1	72 4036	1	TOTAL
N	22-TI-49	5	7.000-0	7.000-0	60 2561	1	TOTAL SCATTERING
	22-TI-49	26	1.360-1	1.950-1	66 1799	5	N,P
	22-TI-49	26	1.450-1	1.450-1	63 1009	1	N,P
	22-TI-49	26	1.480-1	1.480-1	62 662	1	N,P
	22-TI-49	26	1.400-1	1.400-1	59 619	1	N,P
N	22-TI-49	26	1.480-1	1.480-1	69 4083	1	N,P
	22-TI-49	38	1.360-1	1.950-1	66 1799	5	ACTIVATION
	22-TI-49	38	1.450-1	1.450-1	63 1009	1	ACTIVATION
	22-TI-49	43	7.000-0	7.000-0	60 2561	1	COHERENT SCATTERING
	22-TI-49	73	2.500-0	2.500-0	62 342	1	N,GAMMA
	22-TI-49	876	1.400-1	1.400-1	57 930	1	N,P
C	22-TI-49		2.000-3	6.000-2	65 924	2	AVERAGE RESONANCE PARAMETERS
C	22-TI-49		3.835-3	3.230-2	71 2079	1	AVERAGE RESONANCE PARAMETERS
C	22-TI-49		1.700-2	2.500-1	70 3067	2	AVERAGE RESONANCE PARAMETERS
	22-TI-49		3.720-3	3.190-2	65 924	20	RESONANCE PARAMETERS
	22-TI-49		3.834-3	3.230-2	71 2079	4	RESONANCE PARAMETERS
	22-TI-49		1.876-2	2.390-1	70 3067	54	RESONANCE PARAMETERS
C	22-TI-50	1	3.250-2	5.895-1	62 747	602	TOTAL
N	22-TI-50	1	1.420-1	1.420-1	72 4036	1	TOTAL
	22-TI-50	5	7.000-0	7.000-0	60 2561	1	TOTAL SCATTERING
	22-TI-50	23	2.100-2	2.100-2	58 357	1	N,GAMMA
	22-TI-50	23	2.400-2	2.400-2	57 305	1	N,GAMMA
	22-TI-50	23	1.400-1	1.645-0	69 2076	27	N,GAMMA
	22-TI-50	23	1.800-1	2.030-0	67 3001	8	N,GAMMA
	22-TI-50	23	2.500-0	4.000-0	58 1044	3	N,GAMMA
N	22-TI-50	23	1.440-1	1.440-1	72 3963	1	N,GAMMA
	22-TI-50	23	1.450-1	1.450-1	57 521	1	N,GAMMA
	22-TI-50	23	1.470-1	1.470-1	67 1695	1	N,GAMMA
	22-TI-50	26	1.450-1	1.450-1	63 1009	1	N,P
	22-TI-50	26	1.470-1	1.470-1	64 1801	1	N,P
	22-TI-50	26	1.480-1	1.480-1	59 862	1	N,P
	22-TI-50	26	1.480-1	1.950-1	66 1799	4	N,P
	22-TI-50	26	1.400-1	1.400-1	59 819	1	N,P
N	22-TI-50	26	1.460-1	1.480-1	63 756	1	N,P
N	22-TI-50	26	1.480-1	1.480-1	69 4083	1	N,P
	22-TI-50	34	1.410-1	1.410-1	67 1700	1	N,ALPHA
	22-TI-50	34	1.450-1	1.450-1	62 840	1	N,ALPHA
	22-TI-50	34	1.450-1	1.450-1	63 1009	1	N,ALPHA
N	22-TI-50	34	1.480-1	1.480-1	69 4083	1	N,ALPHA
	22-TI-50	43	7.000-0	7.000-0	60 2561	1	COHERENT SCATTERING
N	22-TI-50	73	2.530-0	2.530-0	71 3715	9	N,GAMMA
	22-TI-50	111	2.800-0	2.800-0	65 1715	1	N,N'
	22-TI-50	124	2.800-0	2.800-0	65 1715	1	N,X GAMMA
C	22-TI-50		0.000-0	3.900-1	66 1048	1	AVERAGE RESONANCE PARAMETERS
	22-TI-50		3.700-2	5.860-1	62 747	48	RESONANCE PARAMETERS
	22-TI-50		5.550-2	5.550-2	66 1048	2	RESONANCE PARAMETERS
	22-TI-50		9.010-2	1.856-1	71 2079	3	RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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7A = 22050

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 23000

TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
23-V -NAT	1	1	8.650-10	3.610-8	53 1805	48	TOTAL
23-V -NAT	1	2	2.030-9	2.856-7	60 1798	93	TOTAL
23-V -NAT	1	1	1.000-8	4.000-6	65 1773	4	TOTAL
23-V -NAT	1	1	1.250-8	5.600-6	53 2049	30	TOTAL
23-V -NAT	1	2	1.100-8	5.000-6	53 874	14	TOTAL
23-V -NAT	1	1	1.440-6	1.440-6	65 949	1	TOTAL
23-V -NAT	1	4	0.010-4	8.945-2	58 548	108	TOTAL
23-V -NAT	1	1	5.847-4	5.917-1	65 814	484	TOTAL
23-V -NAT	1	1	6.000-4	2.571-2	63 1806	309	TOTAL
23-V -NAT	1	1	1.500-3	5.900-2	57 137	53	TOTAL
23-V -NAT	1	2	0.000-3	2.500-2	52 75	19	TOTAL
23-V -NAT	1	2	0.001-2	2.207-1	66 1952	1375	TOTAL
23-V -NAT	1	7	0.000-2	2.050-0	65 4017	13	TOTAL
23-V -NAT	1	7	2.000-2	1.193-0	73 3797	571	TOTAL
23-V -NAT	1	1	1.000-1	1.002-0	50 57	153	TOTAL
23-V -NAT	1	1	1.008-1	1.441-0	59 1949	122	TOTAL
23-V -NAT	1	3	0.600-1	3.198-0	70 2511	6178	TOTAL
23-V -NAT	1	4	1.001-1	1.207-0	67 1771	180	TOTAL
23-V -NAT	1	1	1.150-0	6.053-0	73 3766	386	TOTAL
23-V -NAT	1	1	2.986-0	1.708-0	67 1808	345	TOTAL
23-V -NAT	1	5	2.300-0	2.468-0	57 817	11	TOTAL
23-V -NAT	1	5	3.84-0	2.483-0	67 750	234	TOTAL
23-V -NAT	1	3	0.623-0	2.833-0	65 1452	7	TOTAL
23-V -NAT	1	3	1.000-0	2.700-0	67 1827	40	TOTAL
23-V -NAT	1	3	1.650-0	5.210-0	64 1804	40	TOTAL
23-V -NAT	1	1	0.015-0	3.650-0	61 837	1	TOTAL
23-V -NAT	1	1	1.190-1	1.727-1	65 1803	63	TOTAL
23-V -NAT	1	1	1.500-1	1.390-1	51 65	1	TOTAL
23-V -NAT	1	1	1.400-1	1.400-1	52 207	1	TOTAL
23-V -NAT	1	1	1.750-1	2.770-1	60 673	4	TOTAL
23-V -NAT	2	2	3.260-1	1.467-0	69 1949	221	ELASTIC
23-V -NAT	2	2	8.966-1	8.966-1	72 3546	9	ELASTIC
23-V -NAT	2	2	2.470-0	8.050-0	69 2890	9	ELASTIC
23-V -NAT	1	1	5.440-0	8.580-0	70 3581	4	ELASTIC
23-V -NAT	1	1	7.000-0	7.000-0	83 836	1	N.N'
23-V -NAT	1	1	1.520-0	4.560-0	70 3360	44	N.N'
23-V -NAT	1	1	4.190-0	8.560-0	70 3581	1065	N.N'
23-V -NAT	1	1	6.500-1	1.500-0	69 1849	189	N.N'
23-V -NAT	21	21	2.530-8	2.530-8	53 370	1	ABSORPTION
23-V -NAT	21	21	2.530-8	2.530-8	58 1162	1	ABSORPTION
23-V -NAT	21	21	2.530-8	2.530-8	61 2469	1	ABSORPTION
23-V -NAT	23	23	1.175-8	1.098-4	72 3147	290	N.OAMPA
23-V -NAT	23	23	2.500-5	5.500-2	65 1802	58	N.OAMPA
23-V -NAT	23	23	3.070-2	6.500-2	63 1	2	N.OAMPA
23-V -NAT	23	23	3.070-2	3.000-2	61 677	1	N.OAMPA
23-V -NAT	23	23	1.040-1	1.820-1	67 1807	4	N.OAMPA
23-V -NAT	23	23	1.410-1	1.410-1	69 3017	1	N.OAMPA
23-V -NAT	23	23	1.410-1	1.410-1	70 3810	1	N.OAMPA
23-V -NAT	41	41	0.000-0	0.000-0	53 370	1	BOUND ATOM
23-V -NAT	41	41	7.300-8	7.300-8	51 1584	1	BOUND ATOM
23-V -NAT	42	42	5.000-6	5.000-6	53 874	1	FREE ATOM
23-V -NAT	61	61	1.000-0	1.000-0	70 3425	4	N.N'

SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

... 1- 82 ...

ZA = 23000

07/04/76

ECLIL-7600 REACTION INDEX (2A ORDERED)

ZA = 23000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
23-V	-NAT	71	2.500-	8 2.500-	8 50 1623	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION	
23-V	-NAT	71	2.500-	8 2.500-	8 50 1794	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION	
23-V	-NAT	71	2.500-	8 2.500-	8 51 882	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION	
23-V	-NAT	71	2.500-	8 2.500-	8 51 2553	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION	
23-V	-NAT	73	2.530-	8 2.530-	8 70 2415	109	N,GAMMA SPECTRUM AVERAGED CROSS SECTION	
23-V	-NAT	74	2.530-	8 2.530-	8 70 2415	1	N,X GAMMA SPECTRUM AVERAGED CROSS SECTION	
23-V	-NAT	102	3.000-	2 1.150-	1 58 325	52	ELASTIC ANGULAR DISTRIBUTION	
23-V	-NAT	102	6.000-	2 4.000-	1 56 231	25	ELASTIC ANGULAR DISTRIBUTION	
N	23-V	-NAT	102	8.966-	1 8.566-	1 72 3546	8	ELASTIC ANGULAR DISTRIBUTION
23-V	-NAT	102	2.470+	0 8.050+	0 69 2890	166	ELASTIC ANGULAR DISTRIBUTION	
23-V	-NAT	102	3.200+	0 3.200+	0 66 2950	13	ELASTIC ANGULAR DISTRIBUTION	
N	23-V	-NAT	102	5.440+	0 8.560+	0 70 3581	97	ELASTIC ANGULAR DISTRIBUTION
23-V	-NAT	102	7.000+	0 7.000+	0 63 836	1	ELASTIC ANGULAR DISTRIBUTION	
23-V	-NAT	105	4.900-	1 1.780+	0 56 231	85	TOTAL SCATTERING ANGULAR DISTRIBUTION	
23-V	-NAT	111	1 2.453+	0 2.450+	0 55 476	2	N,N' ANGULAR DISTRIBUTION	
23-V	-NAT	111	1 2.470+	0 4.560+	0 70 3360	227	N,N' ANGULAR DISTRIBUTION	
N	23-V	-NAT	111	4.190+	0 8.560+	0 70 3581	197	N,N' ANGULAR DISTRIBUTION
2	-NAT	124	7 1.000+	0 1.000+	0 53 1728	1	N,X GAMMA ANGULAR DISTRIBUTION	
23-V	-NAT	224	1.480+	1 1.480+	1 58 537	9	N,ALPHA ANGULAR DISTRIBUTION	
N	23-V	-NAT	311	80 1.410+	1 1.410+	1 69 3810	26	N,X GAMMA ENERGY DISTRIBUTION
N	23-V	-NAT	452	80 1.410+	1 1.410+	1 65 1908	37	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
C	23-V	-NAT	523	3.200-	1 1.467+	0 69 1549	884	ELASTIC LEGENDRE EXPANSIONS OF ANGULAR DIST.
N	23-V	-NAT	523	5.200-	7 1.500+	1 62 314	1	N,GAMMA RESONANCE INTEGRAL
23-V	-NAT	523	1.000-	6 5.000-	2 85 1802	1	N,GAMMA RESONANCE INTEGRAL	
23-V	-NAT	606	1.430+	1 1.480+	1 86 1042	16	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2	
23-V	-NAT		1.410+	1 1.410+	1 65 1908	2	NUCLEAR TEMPERATURE	
23-V	-NAT		1.480+	1 1.480+	1 67 2897	2	NUCLEAR TEMPERATURE	
N	23-V	-50	1	9.000-	9 1.000-	6 72 3431	38	TOTAL
23-V	-50	1	3.428-	3 9.031-	2 66 987	1298	TOTAL	
N	23-V	-50	21	2.530-	8 2.530-	8 72 3431	1	ABSORPTION
23-V	-50	23	2.530-	8 2.530-	8 53 2572	1	N,GAMMA	
23-V	-50	23	2.530-	8 2.530-	8 63 2571	1	N,GAMMA	
N	23-V	-50	55	5.045-	7 5.045-	7 72 3431	1	TOTAL SCATTERING SPECTRUM AVERAGED CROSS SECTION
23-V	-50		1.670-	4 1.430-	3 58 548	5	RESONANCE PARAMETERS	
23-V	-50		1.420-	3 3.747-	2 64 814	3	RESONANCE PARAMETERS	
23-V	-50		6.200-	3 4.070-	2 66 987	28	RESONANCE PARAMETERS	
N	23-V	-51	2	5.500-	1 1.180+	0 73 3799	13	ELASTIC
23-V	-51	5	6.000-	2 1.800+	0 56 231	23	TOTAL SCATTERING	
N	23-V	-51	11	9.250-	1 1.180+	0 73 3799	6	N,N'
23-V	-51	1	1.100+	0 4.500+	0 72 3590	71	N,N'	
23-V	-51	1	2.350-	0 2.350+	0 65 1809	4	N,N'	
23-V	-51	12	1.410+	1 1.410+	1 58 7	1	N,2N	
23-V	-51	18	1.410+	1 1.410+	1 58 614	1	N,N'ALPHA	
23-V	-51	18	1.480+	1 1.480+	1 58 537	1	N,N'ALPHA	
23-V	-51	18	1.410+	1 1.360+	1 82 562	5	N,N'ALPHA	
23-V	-51	23	2.530-	8 2.530-	8 47 888	1	N,GAMMA	
23-V	-51	23	2.530-	8 2.530-	8 62 2573	1	N,GAMMA	
23-V	-51	23	2.530-	8 2.530-	8 62 2571	1	N,GAMMA	
23-V	-51	23	4.250-	3 1.500-	1 61 1810	42	N,GAMMA	
23-V	-51	23	2.100-	2 2.100-	2 58 43	1	N,GAMMA	
23-V	-51	23	2.400-	2 2.400-	2 57 305	1	N,GAMMA	
23-V	-51	23	2.400-	2 2.400-	2 66 1788	1	N,GAMMA	

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- BL ***

ZA = 23051

07/04/76

ECSIL-76uG REACTION INDEX (ZA ORDERED)

ZA = 23051

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
23-V -51	23		3.100-2	1.300+0	60 738	17	N, GAMMA
23-V -51	23		1.390-1	1.659+0	69 2076	30	N, GAMMA
23-V -51	23		1.500-1	2.300+0	59 663	17	N, GAMMA
23-V -51	23		1.870-1	2.610+0	67 3001	13	N, GAMMA
23-V -51	23		1.950-1	1.950+1	59 525	1	N, GAMMA
23-V -51	23		2.000-1	4.000+0	58 363	3	N, GAMMA
23-V -51	23		2.800+0	2.900+0	58 3375	1	N, GAMMA
23-V -51	23		1.440+1	1.440+1	72 3963	1	N, GAMMA
23-V -51	23		1.470+1	1.470+1	57 1685	1	N, GAMMA
23-V -51	26		1.320+1	1.270+1	63 417	7	N, P
23-V -51	26		1.400+1	1.400+1	61 361	1	N, P
23-V -51	26		1.450+1	1.450+1	53 27	1	N, P
23-V -51	26		1.480+1	1.480+1	63 736	1	N, P
23-V -51	26		1.480+1	1.480+1	65 1697	1	N, P
23-V -51	26		1.480+1	1.480+1	56 907	1	N, P
23-V -51	P6	1	1.460+1	1.450+1	73 3987	1	N, P
23-V -51	26	5	1.470+1	1.480+1	69 4083	1	N, P
23-V -51	32		1.480+1	1.480+1	60 567	1	N, HE-3
23-V -51	34		1.260+1	1.960+1	61 713	9	N, ALPHA
23-V -51	34		1.410+1	1.410+1	58 614	1	N, ALPHA
23-V -51	34		1.450+1	1.450+1	53 27	1	N, ALPHA
23-V -51	34		1.450+1	1.450+1	62 640	1	N, ALPHA
23-V -51	34		1.470+1	1.470+1	68 2596	1	N, ALPHA
23-V -51	34		1.480+1	1.480+1	58 537	1	N, ALPHA
23-V -51	34		1.480+1	1.480+1	63 756	1	N, ALPHA
23-V -51	34	5	1.480+1	1.480+1	69 4083	1	N, ALPHA
23-V -51	34	80	1.360+1	1.460+1	68 2596	6	N, ALPHA
23-V -51	73		2.500-8	2.500-8	49 2742	1	N, GAMMA
23-V -51	76		2.000+0	2.000+0	68 2990	1	N, P
23-V -51	84		1.000+0	1.000+0	71 3782	1	N, ALPHA
23-V -51	84		2.000+0	2.000+0	68 2990	1	N, ALPHA
23-V -51	102		5.500-1	1.180+0	73 3799	130	ELASTIC
23-V -51	102		2.350+0	2.350+0	65 1809	13	ELASTIC
23-V -51	111		9.250-1	1.180+0	73 3799	48	N, N'
23-V -51	111	1	2.350+0	2.350+0	65 1809	43	N, N'
23-V -51	111	7	1.100+0	1.500+0	72 3590	110	N, N'
23-V -51	124	7	8.000-1	2.100+0	68 1019	18	N, X GAMMA
23-V -51	124	87	8.000-1	1.810+0	68 1019	34	N, X GAMMA
23-V -51	125	1	1.440+1	1.440+1	52 986	28	N, D
23-V -51	304		1.438+1	1.475+1	74 4095	486	NEUTRON EMISSION
23-V -51	523		6.800-7	1.500+1	65 1787	1	N, GAMMA
23-V -51	523		6.800-7	1.500+1	67 2590	1	N, GAMMA
23-V -51			0.000+0	1.200-2	58 548	1	AVERAGE RESONANCE PARAMETERS
23-V -51			0.000+0	4.600-2	71 3108	2	AVERAGE RESONANCE PARAMETERS
23-V -51			0.000+0	5.000-2	66 1894	1	AVERAGE RESONANCE PARAMETERS
23-V -51			0.000+0	1.300-1	69 2537	2	AVERAGE RESONANCE PARAMETERS
23-V -51			3.000-3	6.500-1	64 1226	1	AVERAGE RESONANCE PARAMETERS
23-V -51			1.420-3	2.025-1	64 614	46	RESONANCE PARAMETERS
23-V -51			4.100-3	8.710-2	57 157	5	RESONANCE PARAMETERS
23-V -51			4.150-3	3.065-2	61 2553	21	RESONANCE PARAMETERS
23-V -51			4.160-3	8.760-2	71 3108	77	RESONANCE PARAMETERS
23-V -51			4.169-3	2.232-2	63 1806	18	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 84 ***

ZA = 23051

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 23051

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
23-V	-51		4.180-	3 1.150-	2 58 548	4	RESONANCE PARAMETERS
23-V	-51		6.500-	3 6.500-	3 59 2384	1	RESONANCE PARAMETERS
23-V	-51		2.165-	2 1.529-	1 66 1552	42	RESONANCE PARAMETERS
23-V	-51		2.944-	2 1.303-	1 69 2537	48	RESONANCE PARAMETERS
24-CR-NAT	1		2.780-	5 9.216-	3 58 548	132	TOTAL
24-CR-NAT	1		1.150-	4 3.000-	4 49 844	2	TOTAL
24-CR-NAT	1		3.000-	3 4.090-	1 57 310	418	TOTAL
24-CR-NAT	1		4.500-	3 1.600-	1 61 736	29	TOTAL
24-CR-NAT	1		1.007-	1 6.487-	1 66 1062	544	TOTAL
N 24-CR-NAT	1		1.811-	1 2.950+	1 72 3521	7392	TOTAL
24-CR-NAT	1		5.000-	1 1.206+	0 63 455	184	TOTAL
24-CR-NAT	1		5.001-	1 3.194+	1 68 2517	5114	TOTAL
N 24-CR-NAT	1		5.940-	1 3.120+	0 66 4017	13	TOTAL
24-CR-NAT	1		1.001+	0 8.696+	0 71 3341	432	TOTAL
24-CR-NAT	1		2.253+	0 2.750+	0 67 817	14	TOTAL
24-CR-NAT	1		2.339+	0 1.483+	1 67 750	240	TOTAL
24-CR-NAT	1		2.370+	0 7.840+	0 54 505	27	TOTAL
N 24-CR-NAT	1		3.100+	0 3.100+	0 72 3973	1	TOTAL
24-CR-NAT	1		3.190+	0 5.210+	0 67 972	45	TOTAL
24-CR-NAT	1		7.050+	0 1.125+	1 57 22	3	TOTAL
24-CR-NAT	1		1.400+	1 1.400+	1 52 91	1	TOTAL
24-CR-NAT	1		1.430+	1 1.400+	1 52 207	1	TOTAL
24-CR-NAT	1		1.750+	1 2.860+	1 60 673	4	TOTAL
N 24-CR-NAT	1	9	1.259-10	2.840-	5 75 4015	280	TOTAL
24-CR-NAT	2		5.000-	2 1.150-	1 58 325	22	ELASTIC
24-CR-NAT	2		3.000-	1 8.000-	1 64 2338	3	ELASTIC
24-CR-NAT	2		3.180-	1 1.465+	0 66 885	69	ELASTIC
N 24-CR-NAT	2		5.000-	1 1.475+	0 72 3684	40	ELASTIC
N 24-CR-NAT	2		1.500+	0 1.500+	0 67 3394	1	ELASTIC
24-CR-NAT	2		1.770+	0 2.760+	0 70 2890	4	ELASTIC
24-CR-NAT	2		2.000+	0 2.000+	0 65 1509	1	ELASTIC
24-CR-NAT	2		2.470+	0 8.050+	0 69 2890	9	ELASTIC
N 24-CR-NAT	2		4.340+	0 8.560+	0 74 3550	5	ELASTIC
24-CR-NAT	3		1.400+	0 2.400+	0 62 707	4	NONELASTIC
24-CR-NAT	3		2.500+	0 2.500+	0 55 790	1	NONELASTIC
24-CR-NAT	3		2.500+	0 2.500+	0 56 34	1	NONELASTIC
24-CR-NAT	3		3.500+	0 1.410+	1 55 130	5	NONELASTIC
24-CR-NAT	5		6.000-	2 1.800+	0 56 231	22	TOTAL SCATTERING
24-CR-NAT	5		9.800-	1 9.800-	1 63 879	1	TOTAL SCATTERING
24-CR-NAT	11		9.800-	1 3.310+	0 62 606	10	N,N'
24-CR-NAT	11	1	2.500+	0 2.500+	0 54 301	1	N,N'
N 24-CR-NAT	11	1	4.070+	0 8.560+	0 74 3550	35	N,N'
N 24-CR-NAT	11	7	3.430+	0 5.970+	0 75 3566	23	N,N'
24-CR-NAT	21		2.400-	2 2.400-	2 65 1364	1	ABSORPTION
24-CR-NAT	21		2.500-	2 8.300-	1 59 364	3	ABSORPTION
N 24-CR-NAT	23		2.530-	9 2.530-	9 75 4015	1	N,GAMMA
24-CR-NAT	23		2.900-	6 2.000-	2 64 1812	53	N,GAMMA
24-CR-NAT	23		8.120-	3 9.400-	2 68 3301	34	N,GAMMA
24-CR-NAT	23		2.400-	2 2.400-	2 60 633	1	N,GAMMA
24-CR-NAT	23		3.000-	2 6.500-	2 61 677	2	N,GAMMA
24-CR-NAT	23		3.000-	2 6.500-	2 63 1	2	N,GAMMA
24-CR-NAT	23		3.500-	2 9.000-	1 62 1811	10	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 85 ***

ZA = 24000

07/04/78

ECSIL-7600 REACTION INDEX (2A ORDERED)

2A = 24000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
24-CR-NAT	23		1.750-	1.000+	0	60 674	7 N, GAMMA
24-CR-NAT	23		1.410+	1.410+	1	69 3017	1 N, GAMMA
N 24-CR-NAT	23		1.410+	1.410+	1	70 3810	1 N, GAMMA
24-CR-NAT	24	7	1.440+	2.760+	0	54 111	45 N, X GAMMA
24-CR-NAT	24	7	2.500+	2.500+	0	51 284	1 N, X GAMMA
24-CR-NAT	24	7	3.200+	3.200+	0	54 113	3 N, X GAMMA
24-CR-NAT	41		7.300-	7.300-	8	51 1584	1 BOUND ATOM
24-CR-NAT	43		7.300-	7.300-	8	51 1584	1 COHERENT SCATTERING
24-CR-NAT	71		2.500-	2.500-	8	50 1623	1 ABSORPTION
24-CR-NAT	71		2.500-	2.500-	8	50 1794	1 ABSORPTION
24-CR-NAT	71		2.500-	2.500-	8	51 882	1 ABSORPTION
24-CR-NAT	71		2.500-	2.500-	8	51 1619	1 ABSORPTION
24-CR-NAT	73	7	2.530-	2.530-	8	70 2415	63 N, GAMMA
24-CR-NAT	74		2.530-	2.530-	8	70 2415	1 N, X GAMMA
24-CR-NAT	85		2.000+	2.000+	0	70 3383	1 N, X ALPHA
24-CR-NAT	102		3.000-	2.150-	1	58 325	56 ELASTIC
24-CR-NAT	102		6.000-	2.8100-	1	56 231	50 ELASTIC
24-CR-NAT	102		3.000-	1.8000-	1	64 2338	24 ELASTIC
24-CR-NAT	102		3.500-	1.9650-	1	67 3057	210 ELASTIC
N 24-CR-NAT	102		5.000-	1.475+	0	72 3684	280 ELASTIC
24-CR-NAT	102		9.800-	1.9600-	1	63 879	8 ELASTIC
24-CR-NAT	102		1.770+	2.760+	0	70 2890	72 ELASTIC
24-CR-NAT	102		2.340+	2.340+	0	57 414	6 ELASTIC
24-CR-NAT	102		2.470+	8.050+	0	69 2890	186 ELASTIC
24-CR-NAT	102		3.200+	3.200+	0	66 2950	13 ELASTIC
N 24-CR-NAT	102		4.070+	8.560+	0	74 3550	112 ELASTIC
N 24-CR-NAT	102		4.370+	4.370+	0	71 4022	15 ELASTIC
24-CR-NAT	102		4.400+	4.400+	0	56 486	1 ELASTIC
24-CR-NAT	102		1.400+	1.400+	1	65 97	12 ELASTIC
24-CR-NAT	102	80	2.900+	2.900+	0	69 3000	8 ELASTIC
N 24-CR-NAT	104	10	1.436+	1.436+	1	72 4072	5 NEUTRON EMISSION
24-CR-NAT	105		8.800-	1.780+	0	56 231	60 TOTAL SCATTERING
24-CR-NAT	111		2.900+	2.900+	0	69 3000	8 N, N'
24-CR-NAT	111	1	2.340+	2.340+	0	57 414	6 N, N'
24-CR-NAT	111	1	2.450+	2.450+	0	58 476	1 N, N'
N 24-CR-NAT	111	1	4.070+	8.560+	0	74 3550	218 N, N'
24-CR-NAT	111	1	4.370+	4.370+	0	71 4022	10 N, N'
24-CR-NAT	111	1	1.400+	1.400+	1	65 97	22 N, N'
N 24-CR-NAT	111	10	1.436+	1.436+	1	72 4072	20 N, N'
N 24-CR-NAT	124	1	1.400+	1.400+	1	74 3544	1 N, X GAMMA
24-CR-NAT	124	7	4.100+	4.100+	0	63 1728	1 N, X GAMMA
24-CR-NAT	124	7	5.000+	1.480+	1	69 1019	31 N, X GAMMA
N 24-CR-NAT	124	7	1.400+	1.400+	1	74 3544	47 N, X GAMMA
24-CR-NAT	124	10	4.100+	1.480+	1	63 1728	22 N, X GAMMA
24-CR-NAT	124	10	1.480+	1.480+	1	69 1019	18 N, X GAMMA
N 24-CR-NAT	204		1.436+	1.436+	1	72 4072	51 NEUTRON EMISSION
24-CR-NAT	211		7.000+	7.000+	0	67 1883	20 N, N'
N 24-CR-NAT	224		1.410+	1.410+	1	69 3810	24 N, X GAMMA
N 24-CR-NAT	304		1.436+	1.436+	1	72 4072	255 NEUTRON EMISSION
N 24-CR-NAT	304		1.438+	1.475+	1	74 4002	552 NEUTRON EMISSION
N 24-CR-NAT	311	80	1.410+	1.410+	1	65 1908	41 N, N'
24-CR-NAT			1.410+	1.410+	1	65 1908	2 NUCLEAR TEMPERATURE

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 85 ***

2A = 24000

07/04/76

ELSL-7600 REACTION INDEX (ZA ORDERED)

ZA = 24000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	24-CR-NAT		1.400-2	5.000-2	68 3301	1	AVERAGE RESONANCE PARAMETERS
	24-CR-NAT		1.630-3	2.520-1	68 3003	27	RESONANCE PARAMETERS
	24-CR-50	1	2.000-3	1.050-1	61 736	54	TOTAL
	24-CR-50	1	5.000-2	7.950-2	66 751	60	TOTAL
C	24-CR-50	1	8.000-2	6.205-1	63 751	1078	TOTAL
N	24-CR-50	1	1.420+1	1.420+1	72 4136	1	TOTAL
	24-CR-50	11	9.000-1	3.310+0	62 606	10	N,N'
N	24-CR-50	11	8.930-1	3.993+0	73 3564	37	N,N'
N	24-CR-50	11	7 3.430+0	5.970+0	75 3566	10	N,N'
	24-CR-50	12	1.360+1	1.960+1	65 1814	9	N,2N
	24-CR-50	12	1.440+1	1.440+1	61 676	1	N,2N
	24-CR-50	12	1.480+1	1.480+1	61 660	1	N,2N
	24-CR-50	12	1.480+1	1.480+1	61 701	1	N,2N
	24-CR-50	12	1.480+1	1.480+1	61 703	1	N,2N
N	24-CR-50	12	3 1.460+1	1.460+1	73 3988	1	N,2N
	24-CR-50	14	1.400+1	1.400+1	61 361	1	N,N'P
	24-CR-50	23	2.530-0	2.530-0	47 888	1	N,GAMMA
	24-CR-50	23	2.900-6	5.700-2	64 1812	44	N,GAMMA
	24-CR-50	26	1.400+1	1.400+1	61 367	1	N,P
	24-CR-50	73	2.500-0	2.500-0	52 342	1	N,GAMMA
	24-CR-50	73	2.500-0	2.500-0	60 509	1	N,GAMMA
	24-CR-50	73	2.500-0	2.500-0	69 1864	1	N,GAMMA
N	24-CR-50	73	87 2.530-0	2.530-0	72 3700	10	N,GAMMA
N	24-CR-50	111	1 0.930-1	3.993+0	73 3564	37	N,N'
N	24-CR-50	224	80 2.500-0	2.500-0	71 4049	17	N,X GAMMA
C	24-CR-50	523	5.000-7	1.500+1	68 1964	1	N,GAMMA
	24-CR-50		0.000+0	5.900-2	71 3108	2	AVERAGE RESONANCE PARAMETERS
N	24-CR-50		0.000+0	6.200-1	66 1048	1	AVERAGE RESONANCE PARAMETERS
	24-CR-50		5.490-3	3.566-1	71 3108	55	RESONANCE PARAMETERS
	24-CR-50		5.500-3	5.500-3	56 548	3	RESONANCE PARAMETERS
	24-CR-50		5.500-3	5.500-3	64 1312	1	RESONANCE PARAMETERS
	24-CR-50		6.600-3	9.500-2	61 728	20	RESONANCE PARAMETERS
	24-CR-50		9.550-2	5.907-1	66 1048	102	RESONANCE PARAMETERS
C	24-CR-52	1	4.500-2	8.300-2	61 736	23	TOTAL
	24-CR-52	1	2.339+0	1.469+1	67 750	240	TOTAL
	24-CR-52	1	2.700+0	2.700+0	67 1527	1	TOTAL
N	24-CR-52	1	1.420+1	1.420+1	72 4036	1	TOTAL
	24-CR-52	11	1.970+0	3.310+0	62 606	7	N,N'
N	24-CR-52	11	1 1.455+0	3.993+0	73 3564	93	N,N'
C	24-CR-52	11	1 1.600+0	4.100+0	63 865	37	N,N'
N	24-CR-52	11	1 1.780+0	3.760+0	67 3397	10	N,N'
	24-CR-52	11	1 1.970+0	3.310+0	62 506	28	N,N'
N	24-CR-52	11	7 3.430+0	5.970+0	75 3566	52	N,N'
	24-CR-52	11	7 1.400+1	1.400+1	65 1867	1	N,N'
	24-CR-52	11	7 1.41+1	1.410+1	65 1815	1	N,N'
N	24-CR-52	1	7 1.460+1	1.460+1	69 4078	1	N,N'
	24-CR-52	12	1.294+1	1.955+1	67 2888	10	N,2N
	24-CR-52	12	1.400+1	1.400+1	62 3374	1	N,2N
N	24-CR-52	12	1.420+1	1.460+1	72 3427	2	N,2N
	24-CR-52	12	5 1.460+1	1.460+1	73 3988	1	N,2N
	24-CR-52	23	2.900-6	5.000-2	64 1812	52	N,GAMMA
	24-CR-52	26	1.230+1	1.820+1	59 533	25	N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 87 ***

ZA = 24052

07/04/76

ECCL-7600 REACTION INDEX (ZA ORDERED)

ZA = 24052

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
24-CR-52	26		1.400+	1.400+	61 361	1	N,P
24-CR-52	LS		1.450+	1.450+	53 27	1	N,P
24-CR-52	26		1.480+	1.480+	61 6	1	N,P
24-CR-52	26		1.480+	1.480+	61 701	1	N,P
24-CR-52	26		1.480+	1.480+	65 1697	1	N,P
24-CR-52	26		1.480+	1.480+	66 907	1	N,P
N 24-CR-52	26	1	1.460+	1.460+	73 3987	1	N,P
24-CR-52	73		2.500-	2.500-	52 342	1	N,GAMMA
N 24-CR-52	73		3.750-	3.750-	75 4005	14	N,GAMMA
N 24-CR-52	73 87		2.530-	2.530-	72 3700	5	N,GAMMA
24-CR-52	76		2.000+	2.000+	66 1515	1	N,P
N 24-CR-52	102		6.440+	0.560+	74 3550	54	ELASTIC
N 24-CR-52	111	1	1.455+	3.993+	73 3561	97	N,N'
24-CR-52	111	1	4.400+	0.400+	56 486	3	N,N'
N 24-CR-52	111	1	6.440+	0.560+	74 3550	82	N,N'
24-CR-52	124	7	1.430+	1.430+	67 1710	1	N,X GAMMA
N 24-CR-52	224 80		2.500-	2.500-	71 4049	13	N,X GAMMA
C 24-CR-52			0.000+	1.320+	71 3108	2	AVERAGE RESONANCE PARAMETERS
N 24-CR-52			0.000+	6.300+	56 1046	1	AVERAGE RESONANCE PARAMETERS
N 24-CR-52			2.500-	2.000-	74 4005	4	AVERAGE RESONANCE PARAMETERS
24-CR-52			1.626-	3.311-	71 1109	51	RESONANCE PARAMETERS
24-CR-52			1.700-	3.700-	64 1812	2	RESONANCE PARAMETERS
24-CR-52			5.100-	2.395-	61 728	13	RESONANCE PARAMETERS
24-CR-52			5.100-	2.406-	57 318	11	RESONANCE PARAMETERS
24-CR-52			9.350-	2.360-	62 747	70	RESONANCE PARAMETERS
24-CR-52			7.550+	9.020+	67 2433	6	RESONANCE PARAMETERS
N 24-CR-53	1		1.688-	2.360-	69 3067	1654	TOTAL
24-CR-53	1		2.262+	1.483+	67 750	248	TOTAL
N 24-CR-53	1		1.440+	1.440+	72 4036	1	TOTAL
24-CR-53	11		9.800+	3.310+	62 606	10	N,N'
N 24-CR-53	11	1	8.930-	3.993+	73 3564	153	N,N'
24-CR-53	11	1	9.800+	3.310+	62 606	36	N,N'
N 24-CR-53	11	7	3.430+	5.970+	75 3566	29	N,N'
24-CR-53	14		1.470+	1.470+	68 2713	1	N,N'P
24-CR-53	23		2.900-	5.700-	64 1812	35	N,GAMMA
24-CR-53	26		1.400+	1.400+	61 361	1	N,P
24-CR-53	26		1.480+	1.480+	61 701	1	N,P
24-CR-53	73		2.500-	2.500-	52 342	1	N,GAMMA
24-CR-53	76		2.000+	2.000+	66 1815	1	N,P
N 24-CR-53	111	1	8.930+	3.993+	73 3564	154	N,N'
N 24-CR-53	224 80		2.500-	2.500-	71 4049	19	N,X GAMMA
C 24-CR-53			0.000+	2.000+	56 548	1	AVERAGE RESONANCE PARAMETERS
C 24-CR-53			0.000+	6.700+	71 3108	2	AVERAGE RESONANCE PARAMETERS
C 24-CR-53			2.000-	4.000-	65 924	3	AVERAGE RESONANCE PARAMETERS
C 24-CR-53			1.800-	2.200-	69 3067	12	AVERAGE RESONANCE PARAMETERS
C 24-CR-53			1.800-	2.500-	70 3067	2	AVERAGE RESONANCE PARAMETERS
24-CR-53			3.600-	2.880-	65 924	20	RESONANCE PARAMETERS
24-CR-53			4.185-	3.760-	71 3108	73	RESONANCE PARAMETERS
24-CR-53			4.202-	3.800-	55 229	6	RESONANCE PARAMETERS
24-CR-53			1.930-	2.300-	63 2123	6	RESONANCE PARAMETERS
24-CR-53			1.953-	2.460-	70 3067	60	RESONANCE PARAMETERS
C 24-CR-53			2.695-	2.460-	69 3067	28	RESONANCE PARAMETERS

TARGET CODE S E-MIN-ME E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 24053

G7/04/76

EC5IL-7600 REACTION INDEX (ZA ORDERED)

ZA = 24053

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
24-CR-53			6.900-2	2.330-1	57 318	4	RESONANCE PARAMETERS
24-CR-54	1		2.000-3	1.390-1	61 736	38	TOTAL
24-CR-54	1		1.005-1	5.995-1	63 751	992	TOTAL
24-CR-54	1		1.420-1	1.420-1	72 4036	1	TOTAL
24-CR-54	11		9.800-1	3.310-0	62 606	10	N,N'
24-CR-54	11 1		8.930-1	3.993-0	73 3564	37	N,N'
24-CR-54	11 7		3.430-0	5.970-0	75 3566	9	N,N'
24-CR-54	12		1.400-1	1.400-1	57 217	1	N,2N
24-CR-54	76		2.000-0	2.000-0	66 1815	1	N,P
24-CR-54	111 1		8.930-1	3.993-0	73 3564	37	N,N'
24-CR-54			0.000-0	6.800-2	71 3108	2	AVERAGE RESONANCE PARAMETERS
24-CR-54			0.000-0	4.000-1	66 1048	1	AVERAGE RESONANCE PARAMETERS
24-CR-54			1.030-2	3.551-1	71 3108	21	RESONANCE PARAMETERS
24-CR-54			2.350-2	1.190-1	61 728	12	RESONANCE PARAMETERS
25-MN-54	71		2.500-8	2.500-8	71 3339	1	ABSORPTION
25-MN-55	1		9.470-9	2.007-2	64 1823	419	TOTAL
25-MN-55	1		1.730-8	2.100-2	47 261	50	TOTAL
25-MN-55	1		1.150-4	3.000-4	49 844	2	TOTAL
25-MN-55	1		5.580-4	2.161-3	58 5	93	TOTAL
25-MN-55	1		5.344-4	5.980-1	65 814	3857	TOTAL
25-MN-55	1		8.350-4	9.660-3	58 1820	96	TOTAL
25-MN-55	1		1.000-3	1.000-1	57 157	62	TOTAL
25-MN-55	1		2.570-2	7.970-2	52 75	26	TOTAL
25-MN-55	1		4.795-2	2.573-1	66 1552	957	TOTAL
25-MN-55	1		8.000-2	9.900-1	51 74	173	TOTAL
25-MN-55	1		5.000-1	3.198-1	70 2517	5129	TOTAL
25-MN-55	1		8.000-1	1.206-0	63 455	91	TOTAL
25-MN-55	1		8.000-1	1.206-0	67 971	91	TOTAL
25-MN-55	1		9.500-1	1.730-0	66 1691	16	TOTAL
25-MN-55	1		2.251-0	1.483-1	67 750	248	TOTAL
25-MN-55	1		2.700-0	1.320-1	54 504	29	TOTAL
25-MN-55	1		3.336-0	5.114-0	65 3665	62	TOTAL
25-MN-55	1		1.336-1	1.348-1	70 3968	2	TOTAL
25-MN-55	1		1.400-1	1.400-1	52 81	1	TOTAL
25-MN-55	1		1.450-1	1.450-1	70 3300	1	TOTAL
25-MN-55	1		2.840-1	2.840-1	61 233	1	TOTAL
25-MN-55	2		2.000-0	2.000-0	65 1509	1	ELASTIC
25-MN-55	2		2.470-0	8.050-0	69 2890	8	ELASTIC
25-MN-55	4		1.436-1	1.436-1	72 4072	1	NEUTRON EMISSION
25-MN-55	11		7.000-0	7.000-0	63 836	1	N,N'
25-MN-55	11 1		4.000-1	1.200-0	63 828	6	N,N'
25-MN-55	11 1		1.000-0	3.600-0	72 3590	83	N,N'
25-MN-55	11 1		2.210-0	2.210-0	63 1822	5	N,N'
25-MN-55	11 1		2.500-0	2.500-0	56 2337	3	N,N'
25-MN-55	11 7		1.500-1	2.000-0	56 137	18	N,N'
25-MN-55	11 7		1.410-1	1.410-1	65 1694	1	N,N'
25-MN-55	12		1.263-1	1.959-1	85 1738	23	N,2N
25-MN-55	12		1.270-1	1.939-1	87 1686	10	N,2N
25-MN-55	12		1.340-1	1.340-1	87 2009	1	N,2N
25-MN-55	12		1.400-1	1.400-1	62 3374	1	N,2N
25-MN-55	12		1.400-1	1.400-1	63 377	1	N,2N
25-MN-55	12		1.410-1	1.410-1	58 1821	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 25055

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 25055

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	25-MN-55	12	1.436+	1.436+	72 4072	1	N,2N
	25-MN-55	12	1.450+	1.450+	60 629	1	N,2N
	25-MN-55	12	1.460+	1.460+	69 2354	1	N,2N
N	25-MN-55	12	1.450+	1.460+	72 3427	1	N,2N
N	25-MN-55	12	1.460+	1.460+	73 3968	1	N,2N
	25-MN-55	12	1.480+	1.480+	68 2711	1	N,2N
	25-MN-55	21	2.530-	2.530-	60 891	1	ABSORPTION
	25-MN-55	21	2.530-	2.530-	60 897	1	ABSORPTION
	25-MN-55	23	9.935-	2.843-	72 3147	252	N,GAMMA
	25-MN-55	23	2.530-	2.530-	47 888	1	N,GAMMA
	25-MN-55	23	8.120-	4.550-	69 3301	29	N,GAMMA
	25-MN-55	23	9.000-	5.390-	67 2694	11	N,GAMMA
	25-MN-55	23	2.100-	2.100-	57 23	1	N,GAMMA
	25-MN-55	23	2.100-	2.100-	58 43	1	N,GAMMA
	25-MN-55	23	2.100-	2.400-	57 305	1	N,GAMMA
	25-MN-55	23	2.400-	2.400-	65 867	1	N,GAMMA
	25-MN-55	23	3.000-	6.500-	63 1	3	N,GAMMA
	25-MN-55	23	3.700-	1.700+	61 715	19	N,GAMMA
	25-MN-55	23	4.000-	3.500+	59 579	2	N,GAMMA
	25-MN-55	23	1.500-	5.800+	58 663	17	N,GAMMA
	25-MN-55	23	1.950-	1.950+	59 526	1	N,GAMMA
	25-MN-55	23	2.000-	4.000+	58 363	4	N,GAMMA
C	25-MN-55	23	4.180-	3.430+	68 3002	22	N,GAMMA
	25-MN-55	23	9.700-	1.939+	67 1698	17	N,GAMMA
	25-MN-55	23	2.900+	2.900+	66 3375	1	N,GAMMA
	25-MN-55	23	3.000+	3.000+	67 1991	1	N,GAMMA
	25-MN-55	23	1.340+	1.300+	67 1695	8	N,GAMMA
	25-MN-55	23	1.410+	1.410+	69 3017	1	N,GAMMA
N	25-MN-55	23	1.410+	1.410+	70 3810	1	N,GAMMA
N	25-MN-55	23	1.440+	1.440+	72 3963	1	N,GAMMA
	25-MN-55	23	1.450+	1.450+	57 521	1	N,GAMMA
	25-MN-55	24	2.000-	1.200+	56 135	9	N,X GAMMA
	25-MN-55	24	9.400-	1.240+	55 213	19	N,X GAMMA
	25-MN-55	24	1.000+	1.000+	63 1728	1	N,X GAMMA
	25-MN-55	24	1.220+	2.470+	59 547	15	N,X GAMMA
	25-MN-55	24	2.900+	2.900+	61 685	2	N,X GAMMA
	25-MN-55	26	1.400+	1.400+	61 361	1	N,P
	25-MN-55	26	1.470+	1.470+	67 1902	1	N,P
	25-MN-55	26	1.480+	1.480+	68 907	1	N,P
	25-MN-55	27	1.400+	1.400+	59 1818	1	N,X P
N	25-MN-55	32	1.400+	1.400+	71 3815	1	N,HE-3
	25-MN-55	32	1.480+	1.480+	60 567	1	N,HE-3
	25-MN-55	34	1.240+	1.770+	62 806	13	N,ALPHA
	25-MN-55	34	1.260+	1.880+	65 843	10	N,ALPHA
N	25-MN-55	34	1.304+	1.785+	75 4016	10	N,ALPHA
	25-MN-55	34	1.450+	1.450+	53 27	1	N,ALPHA
	25-MN-55	34	1.450+	1.450+	60 629	1	N,ALPHA
	25-MN-55	34	1.450+	1.450+	65 1754	1	N,ALPHA
	25-MN-55	34	1.470+	1.470+	67 1902	1	N,ALPHA
	25-MN-55	34	1.480+	1.480+	58 536	1	N,ALPHA
	25-MN-55	34	1.480+	1.480+	61 701	1	N,ALPHA
	25-MN-55	34	1.480+	1.480+	65 1697	1	N,ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 90 ***

ZA = 25055

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 25055

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 25-MN-55	34		1.480+ 1	1.480+ 1	65 2151	1	N ALPHA
25-MN-55	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
25-MN-55	43		7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING
N 25-MN-55	61	7	1.000+ 0	1.000+ 0	70 3425	6	N,N'
25-MN-55	62		1.000+ 0	1.000+ 0	65 3671	1	N,2N
25-MN-55	62		2.000+ 0	2.000+ 0	68 2990	1	N,2N
25-MN-55	62		2.000+ 0	2.000+ 0	70 3382	1	N,2N
25-MN-55	71		2.500- 8	2.500- 8	50 1794	1	ABSORPTION
25-MN-55	71		2.500- 8	2.500- 8	51 882	1	ABSORPTION
25-MN-55	71		2.500- 8	2.500- 8	51 1619	1	ABSORPTION
25-MN-55	71		2.500- 8	2.500- 8	56 906	1	ABSORPTION
25-MN-55	71		2.500- 8	2.500- 8	63 1670	1	ABSORPTION
25-MN-55	71		2.500- 8	2.500- 8	63 2558	1	ABSORPTION
25-MN-55	73		2.500- 8	2.500- 8	49 2742	1	N,GAMMA
25-MN-55	73		2.500- 8	2.500- 8	53 2560	1	N,GAMMA
25-MN-55	73		2.500- 8	2.500- 8	58 2705	1	N,GAMMA
25-MN-55	73		2.500- 8	2.500- 8	62 1392	1	N,GAMMA
25-MN-55	73		2.500- 8	2.500- 8	69 3998	1	N,GAMMA
N 25-MN-55	73	1	8.300- 1	8.300- 1	73 3934	1	N,GAMMA
25-MN-55	73		2.000+ 0	2.000+ 0	58 353	1	N,GAMMA
25-MN-55	73	7	2.530- 8	2.530- 8	70 2415	109	N,GAMMA
N 25-MN-55	73	87	2.530- 8	2.530- 8	67 3860	15	N,GAMMA
25-MN-55	74		2.530- 8	2.530- 8	70 2415	1	N,X GAMMA
25-MN-55	102		6.770- 1	1.221+ 0	66 1755	520	ELASTIC
25-MN-55	102		2.470+ 0	8.050+ 0	69 2890	156	ELASTIC
25-MN-55	102		3.200+ 0	3.200+ 0	66 2950	14	ELASTIC
25-MN-55	102		7.000+ 0	7.000+ 0	63 836	1	ELASTIC
N 25-MN-55	104	10	1.436+ 1	1.436+ 1	72 4072	10	NEUTRON EMISSION
25-MN-55	111	1	2.450+ 0	2.450+ 0	56 476	3	N,N'
N 25-MN-55	111	7	1.000+ 0	3.600+ 0	72 3590	86	N,N'
25-MN-55	111	7	2.500+ 0	2.500+ 0	55 2159	7	N,N'
N 25-MN-55	111	10	1.436+ 1	1.436+ 1	72 4072	15	N,N'
25-MN-55	124	7	1.000+ 0	1.810+ 0	68 1019	9	N,X GAMMA
25-MN-55	124	7	2.900+ 0	2.900+ 0	61 686	10	N,X GAMMA
25-MN-55	124	87	1.760+ 0	1.810+ 0	68 1019	21	N,X GAMMA
25-MN-55	134		1.48C+ 1	1.480+ 1	58 536	9	N,ALPHA
N 25-MN-55	204		1.436+ 1	1.436+ 1	72 4072	51	NEUTRON EMISSION
N 25-MN-55	224		1.410+ 1	1.410+ 1	69 3810	24	N,X GAMMA
25-MN-55	304		1.436+ 1	1.436+ 1	72 4072	255	NEUTRON EMISSION
N 25-MN-55	304		1.469+ 1	1.490+ 1	74 4095	571	NEUTRON EMISSION
N 25-MN-55	311	80	1.410+ 1	1.410+ 1	65 1908	51	N,N'
C 25-MN-55	521		5.000- 7	1.500+ 1	58 1162	1	ABSORPTION
C 25-MN-55	521		5.000- 7	1.500+ 1	60 997	1	ABSORPTION
C 25-MN-55	521		5.000- 7	1.500+ 1	65 1819	1	ABSORPTION
C 25-MN-55	521		5.000- 7	1.500+ 1	66 1491	1	ABSORPTION
C 25-MN-55	523		1.250- 7	1.460+ 1	60 1171	1	N,GAMMA
C 25-MN-55	523		5.000- 7	1.500+ 1	61 2718	1	N,GAMMA
C 25-MN-55	523		5.000- 7	1.500+ 1	62 1392	1	N,GAMMA
C 25-MN-55	523		5.000- 7	1.500+ 1	68 2774	1	N,GAMMA
C 25-MN-55	523		5.000- 7	1.500+ 1	69 2098	1	N,GAMMA
C 25-MN-55	523		5.200- 7	1.500+ 1	62 344	1	N,GAMMA
C 25-MN-55	523		5.500- 7	1.000+ 0	70 3335	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-91 ***

ZA = 25055

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 25055

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	25-MN-55	523	6.300-	7 1.500+	1 70 3759	3	N,GAMMA RESONANCE INTEGRAL
C	25-MN-55	523	6.800-	7 1.500+	1 65 1787	1	N,GAMMA RESONANCE INTEGRAL
	25-MN-55	606	1.480+	1 1.480+	1 66 1042	19	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
	25-MN-55		1.410+	1 1.410+	1 65 1908	2	NUCLEAR TEMPERATURE
	25-MN-55		1.480+	1 1.480+	1 67 2897	2	NUCLEAR TEMPERATURE
C	25-MN-55		0.000+	0 1.500-	2 58 548	1	AVERAGE RESONANCE PARAMETERS
C	25-MN-55		0.000+	0 4.000-	2 67 3118	1	AVERAGE RESONANCE PARAMETERS
N	25-MN-55		0.000+	0 8.000-	2 66 1872	1	AVERAGE RESONANCE PARAMETERS
C	25-MN-55		3.000-	3 8.500-	1 64 1226	1	AVERAGE RESONANCE PARAMETERS
C	25-MN-55		1.400-	2 5.000-	2 58 3301	1	AVERAGE RESONANCE PARAMETERS
	25-MN-55		3.000-	4 3.000-	4 47 261	1	RESONANCE PARAMETERS
	25-MN-55		3.370+	4 2.350-	3 55 1824	12	RESONANCE PARAMETERS
C	25-MN-55		3.370+	4 8.860-	3 66 814	10	RESONANCE PARAMETERS
	25-MN-55		3.450+	4 2.400-	3 50 2377	5	RESONANCE PARAMETERS
	25-MN-55		3.460+	4 3.460+	4 54 459	3	RESONANCE PARAMETERS
	25-MN-55		3.490+	4 2.560-	3 54 256	3	RESONANCE PARAMETERS
	25-MN-55		2.360-	3 3.510-	2 57 157	8	RESONANCE PARAMETERS
	25-MN-55		4.932-	3 8.140-	2 67 3118	54	RESONANCE PARAMETERS
C	25-MN-55		1.782-	2 5.390-	2 64 814	16	RESONANCE PARAMETERS
	25-MN-55		5.340-	2 2.077-	1 66 1552	84	RESONANCE PARAMETERS
	26-FE-NAT	I	2.780-	9 1.454-	7 67 2505	362	TOTAL
	26-FE-NAT	I	1.440-	6 1.440-	6 65 949	1	TOTAL
	26-FE-NAT	I	9.280-	6 4.914-	3 63 1836	47	TOTAL
	26-FE-NAT	I	1.460-	5 3.753-	3 55 1835	84	TOTAL
	26-FE-NAT	I	1.000-	3 2.140-	1 61 736	233	TOTAL
	26-FE-NAT	I	1.000-	3 4.090-	1 57 318	363	TOTAL
	26-FE-NAT	I	2.000-	3 2.400-	2 52 75	12	TOTAL
	26-FE-NAT	I	3.955-	3 1.959-	1 65 814	1971	TOTAL
N	26-FE-NAT	I	2.356-	2 1.081+	0 73 3923	7608	TOTAL
	26-FE-NAT	I	2.430-	2 2.430-	2 73 3343	1	TOTAL
	26-FE-NAT	I	2.800-	2 6.850-	1 48 48	14	TOTAL
C	26-FE-NAT	I	5.400-	2 2.609-	1 66 1552	852	TOTAL
N	26-FE-NAT	I	9.000-	2 5.000+	0 66 4017	19	TOTAL
	26-FE-NAT	I	1.275-	1 1.343-	1 64 788	32	TOTAL
N	26-FE-NAT	I	1.874-	1 4.851+	1 72 3458	3701	TOTAL
	26-FE-NAT	I	3.326-	1 1.488+	0 68 1546	1469	TOTAL
	26-FE-NAT	I	3.480-	1 1.199+	0 67 971	205	TOTAL
	26-FE-NAT	I	4.500-	1 2.557+	0 61 1000	8	TOTAL
	26-FE-NAT	I	4.621-	1 9.016+	0 89 2516	3722	TOTAL
	26-FE-NAT	I	4.954-	1 1.502+	1 68 2620	3350	TOTAL
	26-FE-NAT	I	5.001-	1 3.194+	1 70 2517	5113	TOTAL
	26-FE-NAT	I	6.900-	1 3.560+	0 51 263	163	TOTAL
	26-FE-NAT	I	7.726-	1 9.344+	1 63 748	38	TOTAL
N	26-FE-NAT	I	1.001+	0 2.025+	0 70 3961	39	TOTAL
	26-FE-NAT	I	1.005+	0 3.210+	0 52 80	14	TOTAL
	26-FE-NAT	I	1.580+	0 1.660+	0 26 146	2	TOTAL
	26-FE-NAT	I	1.792+	0 2.365+	0 66 2014	75	TOTAL
	26-FE-NAT	I	1.998+	0 1.437+	1 67 1508	392	TOTAL
	26-FE-NAT	I	2.010+	0 3.990+	0 65 1016	3	TOTAL
	26-FE-NAT	I	2.200+	0 2.200+	0 58 497	1	TOTAL
	26-FE-NAT	I	2.256+	0 1.464+	1 67 750	246	TOTAL
	26-FE-NAT	I	2.900+	0 1.410+	1 54 504	21	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 25000

07/04/76

ELCIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 26000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-FE-NAT	1		3.660	0	3.660	0 59 559	1 TOTAL
26-FE-NAT	1		4.000	0	8.200	0 58 400	38 TOTAL
26-FE-NAT	1		4.100	0	4.100	0 55 296	1 TOTAL
26-FE-NAT	1		4.494	0	7.478	0 67 1747	109 TOTAL
26-FE-NAT	1		7.090	0	1.450	0 57 22	5 TOTAL
26-FE-NAT	1		8.320	0	1.428	1 62 797	62 TOTAL
26-FE-NAT	1		8.940	0	8.940	0 69 2025	1 TOTAL
26-FE-NAT	1		1.250	1	1.430	1 68 1702	17 TOTAL
26-FE-NAT	1		1.279	1	2.085	1 60 622	11 TOTAL
26-FE-NAT	1		1.300	1	1.620	1 55 133	7 TOTAL
26-FE-NAT	1		1.377	1	1.476	1 58 349	19 TOTAL
26-FE-NAT	1		1.400	1	1.400	1 52 81	1 TOTAL
26-FE-NAT	1		1.400	1	1.400	1 52 207	1 TOTAL
26-FE-NAT	1		1.450	1	1.450	1 70 3300	1 TOTAL
26-FE-NAT	1		1.480	1	1.480	1 57 368	1 TOTAL
26-FE-NAT	1		1.480	1	1.480	1 69 2988	1 TOTAL
26-FE-NAT	1		1.730	1	2.780	1 60 673	4 TOTAL
26-FE-NAT	1		1.900	1	1.900	1 53 274	1 TOTAL
26-FE-NAT	1		2.840	1	2.840	1 61 233	1 TOTAL
26-FE-NAT	1		3.480	1	1.940	2 53 310	30 TOTAL
26-FE-NAT	1		4.200	1	4.200	1 50 281	1 TOTAL
26-FE-NAT	1		9.340	1	1.068	2 55 282	4 TOTAL
26-FE-NAT	1		9.480	1	1.079	2 54 39	4 TOTAL
26-FE-NAT	1		3.790	2	1.731	3 71 3264	15 TOTAL
26-FE-NAT	1		5.700	3	5.700	3 69 3160	1 TOTAL
26-FE-NAT	1		2.700	4	2.700	4 68 2350	1 TOTAL
N 26-FE-NAT	1		3.400	4	2.730	5 74 3818	7 TOTAL
26-FE-NAT	1	9	5.280	10	5.980	9 53 1838	74 TOTAL
26-FE-NAT	2		7.240	8	7.240	8 91 2794	1 ELASTIC
26-FE-NAT	2		2.200	1	2.200	1 60 588	1 ELASTIC
26-FE-NAT	2		3.000	1	3.000	1 63 1898	1 ELASTIC
26-FE-NAT	2		3.180	1	1.460	0 68 1548	95 ELASTIC
26-FE-NAT	2		5.000	1	8.000	1 84 870	2 ELASTIC
N 26-FE-NAT	2		6.500	1	1.450	0 72 3684	33 ELASTIC
N 26-FE-NAT	2		9.021	1	9.021	1 72 3546	1 ELASTIC
26-FE-NAT	2		9.800	1	3.890	0 65 1016	4 ELASTIC
26-FE-NAT	2		1.000	0	1.000	0 54 103	1 ELASTIC
26-FE-NAT	2		1.480	0	1.660	0 56 146	3 ELASTIC
N 26-FE-NAT	2		1.500	0	1.500	0 67 3394	1 ELASTIC
26-FE-NAT	2		1.770	0	2.760	0 70 2890	5 ELASTIC
26-FE-NAT	2		2.000	0	2.000	0 65 1509	1 ELASTIC
26-FE-NAT	2		2.200	0	2.200	0 58 497	1 ELASTIC
26-FE-NAT	2		2.900	0	2.900	0 57 416	1 ELASTIC
26-FE-NAT	2		3.000	0	8.050	0 69 2890	5 ELASTIC
26-FE-NAT	2		3.660	0	3.660	0 59 559	1 ELASTIC
26-FE-NAT	2		4.600	0	8.560	0 70 3171	10 ELASTIC
N 26-FE-NAT	2		5.960	0	5.960	0 69 3660	1 ELASTIC
26-FE-NAT	2		6.040	0	0.040	0 65 889	1 ELASTIC
26-FE-NAT	2		1.450	1	1.450	1 58 403	1 ELASTIC
26-FE-NAT	3		2.200	1	2.200	1 60 633	1 NONELASTIC
26-FE-NAT	3		8.000	1	1.500	0 55 1826	7 NONELASTIC
26-FE-NAT	3		9.300	1	1.520	0 63 1833	6 NONELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 93 ***

ZA = 26000

07/04/76

EC5IL-7600 REACTION INDEX (ZA ORDERED)

ZA = 26000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-FE-NAT	3		1.000+ 0	2.200+ 0	62 707	7	NONELASTIC
26-FE-NAT	3		1.000+ 0	7.000+ 0	56 151	5	NONELASTIC
26-FE-NAT	3		1.020+ 0	1.020+ 0	56 353	1	NONELASTIC
26-FE-NAT	3		1.200+ 0	2.000+ 0	56 164	3	NONELASTIC
26-FE-NAT	3		2.500+ 0	2.500+ 0	56 34	1	NONELASTIC
26-FE-NAT	3		2.500+ 0	1.400+ 1	55 790	4	NONELASTIC
26-FE-NAT	3		3.500+ 0	1.410+ 1	55 130	5	NONELASTIC
26-FE-NAT	3		3.660+ 0	3.660+ 0	59 559	1	NONELASTIC
26-FE-NAT	3		4.000+ 0	4.500+ 0	55 122	2	NONELASTIC
26-FE-NAT	3		4.100+ 0	4.100+ 0	55 296	1	NONELASTIC
26-FE-NAT	3		1.400+ 1	1.400+ 1	58 877	1	NONELASTIC
26-FE-NAT	3		1.410+ 1	1.410+ 1	55 117	1	NONELASTIC
26-FE-NAT	3		1.410+ 1	1.410+ 1	57 199	1	NONELASTIC
26-FE-NAT	3		1.415+ 1	1.415+ 1	52 82	1	NONELASTIC
26-FE-NAT	3		1.420+ 1	1.420+ 1	57 319	1	NONELASTIC
26-FE-NAT	3		1.430+ 1	1.970+ 1	61 706	4	NONELASTIC
26-FE-NAT	3		1.450+ 1	1.450+ 1	56 200	1	NONELASTIC
26-FE-NAT	3		2.550+ 1	2.550+ 1	58 956	1	NONELASTIC
26-FE-NAT	3		2.790+ 2	1.731+ 3	71 3264	15	NONELASTIC
N 26-FE-NAT	4		1.436+ 1	1.436+ 1	72 4072	1	NEUTRON EMISSION
26-FE-NAT	5		6.000+ 2	1.800+ 0	56 231	41	TOTAL SCATTERING
26-FE-NAT	5		9.800+ 1	9.800+ 1	63 879	1	TOTAL SCATTERING
26-FE-NAT	6		1.400+ 1	1.400+ 1	61 883	1	NONELASTIC EMISSION
N 26-FE-NAT	11		9.300+ 1	6.590+ 0	70 3386	33	N,N'
26-FE-NAT	11		1.000+ 0	1.200+ 0	63 773	2	N,N'
26-FE-NAT	11		1.260+ 0	2.280+ 0	66 1832	5	N,N'
26-FE-NAT	11		2.000+ 0	5.000+ 0	64 1834	7	N,N'
26-FE-NAT	11		2.200+ 0	2.200+ 0	58 497	1	N,N'
N 26-FE-NAT	11		2.800+ 0	2.800+ 0	69 3400	1	N,N'
26-FE-NAT	11		6.040+ 0	6.040+ 0	65 889	1	N,N'
26-FE-NAT	11		7.000+ 0	7.000+ 0	63 836	1	N,N'
N 26-FE-NAT	11		1.410+ 1	1.410+ 1	74 3826	1	N,N'
N 26-FE-NAT	11		1.436+ 1	1.436+ 1	72 4072	1	N,N'
26-FE-NAT	11	1	1.400+ 0	3.390+ 0	65 1016	29	N,N'
26-FE-NAT	11	1	2.000+ 0	5.000+ 0	64 1834	25	N,N'
26-FE-NAT	11	1	2.500+ 0	2.500+ 0	54 301	1	N,N'
C 26-FE-NAT	11	1	4.190+ 0	8.560+ 0	70 3171	120	N,N'
26-FE-NAT	11	1	4.560+ 0	4.560+ 0	66 1831	5	N,N'
N 26-FE-NAT	11	7	9.300+ 1	7.370+ 0	70 3386	250	N,N'
26-FE-NAT	11	7	1.000+ 0	2.500+ 0	61 717	16	N,N'
N 26-FE-NAT	11	7	1.900+ 0	3.900+ 0	74 4090	30	N,N'
N 26-FE-NAT	11	7	4.260+ 0	1.600+ 1	67 4029	18	N,N'
26-FE-NAT	11	7	1.400+ 1	1.400+ 1	61 850	3	N,N'
26-FE-NAT	11	8	3.500+ 0	5.000+ 0	64 1834	13	N,N'
26-FE-NAT	12		1.410+ 1	1.410+ 1	58 7	1	N,2N
N 26-FE-NAT	12		1.436+ 1	1.436+ 1	72 4072	1	N,2N
26-FE-NAT	21		2.530+ 8	2.530+ 8	58 1152	1	ABSORPTION
26-FE-NAT	21		2.530+ 8	2.530+ 8	60 897	1	ABSORPTION
26-FE-NAT	21		2.530+ 8	2.530+ 8	66 1451	1	ABSORPTION
26-FE-NAT	21		2.500+ 2	8.300+ 1	58 764	2	ABSORPTION
26-FE-NAT	23		8.000+ 5	2.000+ 2	64 1829	34	N,GAMMA
26-FE-NAT	23		1.100+ 3	7.000+ 2	60 616	25	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 26000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 26000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-FE-NAT	23	1.103-	3	9.650-	2	64 1858	37 N, GAMMA
26-FE-NAT	23	3.000-	2	6.500-	2	61 677	2 N, GAMMA
26-FE-NAT	23	3.000-	2	6.500-	2	63 1	2 N, GAMMA
26-FE-NAT	23	3.700-	2	9.200-	1	61 716	12 N, GAMMA
26-FE-NAT	23	3.750-	2	1.500-	0	64 1825	14 N, GAMMA
26-FE-NAT	23	1.250-	1	1.820-	1	67 1807	3 N, GAMMA
26-FE-NAT	23	1.750-	1	1.000-	0	60 674	7 N, GAMMA
26-FE-NAT	23	1.410-	1	1.410-	1	69 3317	1 N, GAMMA
26-FE-NAT	23	1.410-	1	1.410-	1	70 3810	1 N, GAMMA
26-FE-NAT	24	2.250-	0	2.900-	0	41 194	7 N, X GAMMA
26-FE-NAT	24	1.400-	1	1.400-	1	53 292	1 N, X GAMMA
26-FE-NAT	24	1.400-	1	1.400-	1	63 1723	1 N, X GAMMA
26-FE-NAT	24	7 8.430-	1	2.706-	0	54 111	179 N, X GAMMA
26-FE-NAT	24	7 9.000-	1	3.820-	0	62 724	231 N, X GAMMA
26-FE-NAT	24	7 9.300-	1	7.370-	0	70 1385	204 N, X GAMMA
26-FE-NAT	24	7 9.500-	1	4.002-	0	66 942	27 N, X GAMMA
26-FE-NAT	24	7 2.500-	0	2.530-	0	51 284	2 N, X GAMMA
26-FE-NAT	24	7 2.560-	0	2.560-	0	56 140	6 N, X GAMMA
26-FE-NAT	24	7 3.200-	0	3.200-	0	54 113	3 N, X GAMMA
26-FE-NAT	24	7 4.260-	0	1.600-	1	65 1797	19 N, X GAMMA
26-FE-NAT	24	7 6.000-	0	7.500-	0	70 1487	3 N, X GAMMA
26-FE-NAT	24	7 1.400-	1	1.400-	1	53 292	5 N, X GAMMA
26-FE-NAT	24	7 1.400-	1	1.400-	1	55 202	2 N, X GAMMA
26-FE-NAT	24	7 1.400-	1	1.400-	1	63 1773	2 N, X GAMMA
26-FE-NAT	24	7 1.400-	1	1.400-	1	66 1639	6 N, X GAMMA
26-FE-NAT	24	10 1.400-	1	1.400-	1	60 1721	3 N, X GAMMA
26-FE-NAT	26	1.440-	1	1.440-	1	82 688	1 N, P
26-FE-NAT	30	1.470-	1	1.470-	1	73 3935	1 N, T
26-FE-NAT	41	7.300-	0	7.300-	0	51 1584	1 BOUND ATOM
26-FE-NAT	43	6.070-	0	6.070-	0	62 915	1 COHERENT SCATTERING
26-FE-NAT	43	7.300-	0	7.300-	0	51 1584	1 COHERENT SCATTERING
26-FE-NAT	48	1.400-	1	1.400-	1	58 877	1 ETA
26-FE-NAT	61	7 1.000-	0	1.000-	0	70 3425	6 N, N'
26-FE-NAT	71	2.500-	0	2.500-	0	50 1623	1 ABSORPTION
26-FE-NAT	71	2.500-	0	2.500-	0	50 1794	1 ABSORPTION
26-FE-NAT	71	2.500-	0	2.500-	0	51 882	1 ABSORPTION
26-FE-NAT	71	2.500-	0	2.500-	0	51 1619	1 ABSORPTION
26-FE-NAT	71	2.500-	0	2.500-	0	61 2539	1 ABSORPTION
26-FE-NAT	71	2.500-	0	2.500-	0	61 2776	1 ABSORPTION
26-FE-NAT	73	2.530-	0	2.530-	0	70 2415	187 N, GAMMA
26-FE-NAT	74	2.530-	0	2.530-	0	70 2415	1 N, X GAMMA
26-FE-NAT	85	2.000-	0	2.000-	0	70 3383	1 N, X ALPHA
26-FE-NAT	102	6.000-	2	8.100-	1	56 231	50 ELASTIC
26-FE-NAT	102	2.200-	1	2.200-	1	60 596	5 ELASTIC
26-FE-NAT	102	3.000-	1	3.000-	1	63 1699	6 ELASTIC
26-FE-NAT	102	4.500-	1	2.280-	0	66 1932	264 ELASTIC
26-FE-NAT	102	5.000-	1	8.000-	1	64 870	16 ELASTIC
26-FE-NAT	102	6.500-	1	1.450-	0	72 3684	231 ELASTIC
26-FE-NAT	102	7.502-	1	9.823-	1	63 748	244 ELASTIC
26-FE-NAT	102	9.000-	1	9.000-	1	57 411	5 ELASTIC
26-FE-NAT	102	9.021-	1	9.021-	1	72 3546	8 ELASTIC
26-FE-NAT	102	9.400-	1	1.180-	0	68 1545	188 ELASTIC
26-FE-NAT	102	9.400-	1	1.180-	0	68 1545	188 ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 95 ***

ZA = 26000

07/04/76

ECSII-7600 REACTION INDEX (ZA ORDERED)

ZA = 26000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-FE-NAT	102		9.800+ 1	9.800+ 1	63 879	9	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		9.800+ 1	3.990+ 0	65 1016	39	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.000+ 0	1.000+ 0	54 103	9	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.370+ 0	3.260+ 0	68 2589	59	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.426+ 0	2.152+ 0	70 3207	225	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.480+ 0	1.660+ 0	56 146	54	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.550+ 0	1.550+ 0	55 1495	1	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.770+ 0	2.760+ 0	70 2890	92	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.870+ 0	1.870+ 0	52 1837	1	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.950+ 0	1.950+ 0	64 1743	10	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		2.000+ 0	5.000+ 0	64 1834	7	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		2.200+ 0	2.200+ 0	58 497	14	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		2.250+ 0	2.450+ 0	56 476	25	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		2.340+ 0	2.340+ 0	57 414	5	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		2.400+ 0	2.400+ 0	52 1742	1	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		2.800+ 0	2.800+ 0	58 1044	8	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		2.900+ 0	2.900+ 0	57 416	6	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		3.060+ 0	8.050+ 0	69 2890	93	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		3.200+ 0	3.200+ 0	52 2950	14	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		3.440+ 0	4.610+ 0	61 2323	5	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		3.650+ 0	3.650+ 0	59 559	23	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		3.720+ 0	3.720+ 0	53 297	3	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		4.100+ 0	4.100+ 0	55 296	11	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		4.400+ 0	4.400+ 0	55 1033	1	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		4.400+ 0	4.400+ 0	56 1827	1	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		4.560+ 0	4.560+ 0	66 1831	20	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		4.600+ 0	8.560+ 0	70 3171	188	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		5.000+ 0	5.000+ 0	58 398	13	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		5.960+ 0	5.960+ 0	69 3660	13	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		6.000+ 0	6.000+ 0	61 1049	14	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		6.040+ 0	6.040+ 0	65 889	14	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		6.500+ 0	6.500+ 0	56 1828	2	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		7.550+ 0	7.550+ 0	73 3614	6	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		8.970+ 0	8.970+ 0	73 3585	17	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.400+ 1	1.400+ 1	56 483	11	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.400+ 1	1.400+ 1	61 1263	2	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.400+ 1	1.400+ 1	72 3406	11	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.410+ 1	1.410+ 1	58 557	12	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.450+ 1	1.450+ 1	58 403	46	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.450+ 1	1.450+ 1	59 556	45	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.460+ 1	1.460+ 1	57 561	17	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		1.480+ 1	1.480+ 1	57 367	15	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	102		2.480+ 1	2.480+ 1	62 1746	27	ELASTIC ANGULAR DISTRIBUTION
26-FE-NAT	104		1.436+ 1	1.436+ 1	72 4072	10	NEUTRON EMISSION
26-FE-NAT	105		3.500+ 1	9.650+ 1	69 3052	210	TOTAL SCATTERING
26-FE-NAT	105		9.000+ 1	1.780+ 0	56 231	60	TOTAL SCATTERING
26-FE-NAT	111		1.260+ 0	2.280+ 0	66 1832	63	N,N'
26-FE-NAT	111		1.580+ 0	1.660+ 0	56 146	22	N,N'
26-FE-NAT	111		1.450+ 0	1.450+ 0	58 403	34	N,N'
26-FE-NAT	111		9.370+ 1	1.500+ 0	68 1546	276	N,N'
26-FE-NAT	111		1.870+ 0	1.870+ 0	52 1837	1	N,N'
26-FE-NAT	111		1.950+ 0	1.950+ 0	64 1743	10	N,N'

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 26000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 26000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION		
26-FE-NAT	111	1	2.010	0	3.990	0	65 1015	75 N,N'	ANGULAR DISTRIBUTION
26-FE-NAT	111	1	2.340	0	2.340	0	57 414	5 N,N'	ANGULAR DISTRIBUTION
26-FE-NAT	111	1	4.400	0	4.400	0	55 1033	4 N,N'	ANGULAR DISTRIBUTION
26-FE-NAT	111	1	4.400	0	4.400	0	56 1827	1 N,N'	ANGULAR DISTRIBUTION
26-FE-NAT	111	1	4.560	0	4.560	0	66 1831	57 N,N'	ANGULAR DISTRIBUTION
26-FE-NAT	111	1	6.500	0	6.500	0	56 1828	2 N,N'	ANGULAR DISTRIBUTION
N 26-FE-NAT	111	1	8.970	0	8.970	0	73 3585	15 N,N'	ANGULAR DISTRIBUTION
26-FE-NAT	111	7	1.660	0	1.660	0	56 146	11 N,N'	ANGULAR DISTRIBUTION
26-FE-NAT	111	7	2.200	0	2.200	0	58 497	13 N,N'	ANGULAR DISTRIBUTION
26-FE-NAT	111	7	2.500	0	2.500	0	55 2159	3 N,N'	ANGULAR DISTRIBUTION
26-FE-NAT	111	7	2.800	0	2.800	0	65 1715	1 N,N'	ANGULAR DISTRIBUTION
26-FE-NAT	111	7	2.900	0	2.900	0	57 416	1 N,N'	ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	3.110	0	4.720	0	71 1727	55 N,N'	ANGULAR DISTRIBUTION
26-FE-NAT	111	8	4.190	0	8.560	0	70 3171	408 N,N'	ANGULAR DISTRIBUTION
N 26-FE-NAT	111	10	1.436	1	1.436	1	72 4072	15 N,N'	ANGULAR DISTRIBUTION
N 26-FE-NAT	124	1	1.400	1	1.400	1	74 3544	4 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	7	9.400	1	1.573	1	75 3826	137 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	7	9.600	1	4.700	0	64 1730	138 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	7	1.000	0	1.490	1	59 1719	20 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	7	1.660	0	1.660	0	56 146	11 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	7	3.300	0	5.000	0	56 485	20 N,X GAMMA	ANGULAR DISTRIBUTION
N 26-FE-NAT	124	7	3.580	0	1.465	1	74 3826	68 N,X GAMMA	ANGULAR DISTRIBUTION
C 26-FE-NAT	124	7	4.000	0	7.670	0	70 1497	86 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	7	4.040	0	1.484	1	62 1724	9 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	7	4.100	0	4.100	0	63 1728	3 N,X GAMMA	ANGULAR DISTRIBUTION
N 26-FE-NAT	124	7	1.400	1	1.400	1	74 3544	94 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	7	1.470	1	1.470	1	65 1707	12 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	7	1.500	1	1.500	1	60 1720	4 N,X GAMMA	ANGULAR DISTRIBUTION
N 26-FE-NAT	124	7	1.510	1	1.510	1	69 3662	19 N,X GAMMA	ANGULAR DISTRIBUTION
N 26-FE-NAT	124	10	1.090	0	1.465	1	74 3826	258 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	10	4.040	0	1.484	1	62 1724	11 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	10	4.100	0	4.100	0	63 1720	7 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	10	1.400	1	1.400	1	60 1704	8 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	87	1.060	0	4.700	0	59 1713	23 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	127	1	1.440	1	1.440	1	62 688	6 N,X	ANGULAR DISTRIBUTION
N 26-FE-NAT	204	1	1.436	1	1.436	1	72 4072	51 NEUTRON EMISSION	ENERGY DISTRIBUTION
26-FE-NAT	211	5	4.440	0	8.560	0	70 3171	904 N,N'	ENERGY DISTRIBUTION
26-FE-NAT	211	7	7.000	0	7.000	0	67 1883	21 N,N'	ENERGY DISTRIBUTION
N 26-FE-NAT	224	1	1.410	1	1.410	1	69 3810	26 N,X GAMMA	ENERGY DISTRIBUTION
26-FE-NAT	252	3	1.180	1	1.460	0	68 1546	95 ELASTIC	INTEGRAL THEA1-THEA2
N 26-FE-NAT	304	1	1.436	1	1.436	1	72 4072	259 NEUTRON EMISSION	DIFF. ENERGY-ANGLE DISTRIBUTION
N 26-FE-NAT	304	1	1.469	1	1.490	1	74 4002	428 NEUTRON EMISSION	DIFF. ENERGY-ANGLE DISTRIBUTION
N 26-FE-NAT	311	80	1.410	1	1.410	1	65 1908	40 N,N'	DIFF. ENERGY-ANGLE DISTRIBUTION
C 26-FE-NAT	324	4	4.000	0	7.670	0	70 1497	215 N,X GAMMA	DIFF. ENERGY-ANGLE DISTRIBUTION
26-FE-NAT	403	1	1.410	1	1.410	1	53 2028	1 NONELASTIC	INTEGRAL E1-E2
26-FE-NAT	406	1	1.420	1	1.420	1	58 905	1 NONELASTIC EMISSION	INTEGRAL E1-E2
26-FE-NAT	426	1	1.400	1	1.400	1	57 391	1 N,P	INTEGRAL E1-E2
N 26-FE-NAT	452	2	2.000	2	6.400	1	73 3543	25 ELASTIC	LEGENDRE EXPANSIONS OF ANGULAR DIST.
C 26-FE-NAT	521	5	5.000	7	1.500	1	58 1162	1 ABSORPTION	RESONANCE INTEGRAL
C 26-FE-NAT	521	5	5.000	7	1.500	1	60 897	1 ABSORPTION	RESONANCE INTEGRAL
C 26-FE-NAT	521	5	5.000	7	1.500	1	65 1819	1 ABSORPTION	RESONANCE INTEGRAL
C 26-FE-NAT	521	5	5.000	7	1.500	1	66 1491	1 ABSORPTION	RESONANCE INTEGRAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 97 ***

ZA = 26000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 26000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-FE-NAT	606		1.480+ 1	1.480+ 1	66 1042	17	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N 26-FE-NAT	606		1.520+ 1	1.520+ 1	60 1029	6	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N 26-FE-NAT	606 80		4.200+ 0	4.200+ 0	60 1029	8	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
26-FE-NAT	611		6.000+ 0	6.000+ 0	62 1043	13	N,N'
26-FE-NAT	611		6.040+ 0	6.040+ 0	65 889	11	N,N'
26-FE-NAT	611 80		3.670+ 0	4.210+ 0	59 1719	18	N,N'
26-FE-NAT	624		3.500+ 0	8.500+ 0	64 1671	48	N,X GAMMA ANGULAR DIST.-INTEGRAL E1-E2
26-FE-NAT	624		1.500+ 1	1.500+ 1	60 1720	6	N,X GAMMA ANGULAR DIST.-INTEGRAL E1-E2
26-FE-NAT	627		1.320+ 1	1.320+ 1	57 847	36	N,X P ANGULAR DIST.-INTEGRAL E1-E2
26-FE-NAT			6.000+ 0	6.030+ 0	62 1043	1	NUCLEAR TEMPERATURE
26-FE-NAT			1.400+ 1	1.400+ 1	61 883	1	NUCLEAR TEMPERATURE
26-FE-NAT			1.400+ 1	1.400+ 1	65 985	3	NUCLEAR TEMPERATURE
26-FE-NAT			1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
26-FE-NAT			1.430+ 1	1.430+ 1	69 2360	2	NUCLEAR TEMPERATURE
26-FE-NAT			1.480+ 1	1.480+ 1	67 2897	2	NUCLEAR TEMPERATURE
26-FE-NAT			1.620- 3	1.370- 2	65 1859	5	RESONANCE PARAMETERS
26-FE-NAT			8.000- 3	8.500- 2	56 142	4	RESONANCE PARAMETERS
26-FE-NAT			7.450- 2	1.780- 1	68 3003	7	RESONANCE PARAMETERS
26-FE-54	1		5.000- 3	9.200- 2	61 736	57	TOTAL
26-FE-54	1		9.200- 2	5.160- 1	62 747	480	TOTAL
26-FE-54	1		4.040+ 0	5.600+ 0	71 3214	3	TOTAL
26-FE-54	2		4.040+ 0	5.600+ 0	71 3214	3	ELASTIC
N 26-FE-54	2		5.500+ 0	8.500+ 0	74 3589	3	ELASTIC
26-FE-54	11		2.500+ 0	2.500+ 0	55 41	1	N,N'
N 26-FE-54	11		1.510+ 1	1.510+ 1	69 3662	1	N,N'
N 26-FE-54	11 1		1.455+ 0	3.962+ 0	75 3889	36	N,N'
26-FE-54	11 1		4.040+ 0	5.600+ 0	71 3214	14	N,N'
N 25-FE-54	11 1		5.500+ 0	8.500+ 0	74 3589	52	N,N'
N 26-FE-54	11 8		8.500+ 0	8.500+ 0	74 3589	1	N,N'
N 26-FE-54	12		1.387+ 1	1.740+ 1	68 4076	20	N,2N
26-FE-54	12		1.400+ 1	1.400+ 1	57 217	1	N,2N
26-FE-54	12		1.405+ 1	1.675+ 1	65 1843	2	N,2N
26-FE-54	12		1.410+ 1	1.410+ 1	61 631	1	N,2N
26-FE-54	12		1.410+ 1	1.410+ 1	63 373	1	N,2N
26-FE-54	12		1.440+ 1	1.440+ 1	61 676	1	N,2N
26-FE-54	12		1.450+ 1	1.450+ 1	63 1009	1	N,2N
26-FE-54	12		1.460+ 1	1.460+ 1	65 1672	1	N,2N
26-FE-54	12		1.480+ 1	1.480+ 1	61 679	1	N,2N
26-FE-54	12		1.480+ 1	1.480+ 1	75 3562	1	N,2N
N 26-FE-54	12 3		1.500+ 1	1.500+ 1	60 628	1	N,2N
N 26-FE-54	12 3		1.460+ 1	1.460+ 1	73 3988	1	N,2N
N 26-FE-54	14		1.698+ 1	1.789+ 1	58 326	2	N,2N
26-FE-54	14		1.400+ 1	1.400+ 1	57 217	1	N,N' P
26-FE-54	14		1.400+ 1	1.400+ 1	61 361	1	N,N' P
N 26-FE-54	26		1.710+ 0	1.640+ 1	71 3789	14	N, P
C 26-FE-54	26		1.979+ 0	9.949+ 0	73 3342	75	N, P
26-FE-54	26		2.230+ 0	1.675+ 1	65 1843	9	N, P
26-FE-54	26		2.310+ 0	3.810+ 0	65 1841	9	N, P
26-FE-54	26		2.600+ 0	3.600+ 0	61 655	3	N, P
26-FE-54	26		3.550+ 0	6.020+ 0	64 978	5	N, P
26-FE-54	26		3.550+ 0	1.740+ 1	65 1842	11	N, P
26-FE-54	26		1.358+ 1	1.473+ 1	62 1008	3	N, P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 26054

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 26054

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-FE-54	26		1.400+	1.400+	57 217	1	N,P
26-FE-54	26		1.400+	1.400+	61 361	1	N,P
26-FE-54	26		1.410+	1.570+	64 837	2	N,P
26-FE-54	26		1.440+	1.440+	67 1844	1	N,P
26-FE-54	26		1.450+	1.450+	62 1009	1	N,P
26-FE-54	26		1.450+	1.450+	63 1009	1	N,P
26-FE-54	26		1.450+	1.450+	72 3345	1	N,P
26-FE-54	26		1.460+	1.480+	69 2354	2	N,P
26-FE-54	26		1.480+	1.480+	68 2711	1	N,P
26-FE-54	26		1.400+	1.400+	61 651	1	N,P
26-FE-54	27		1.400+	1.400+	59 1840	1	N,X P
26-FE-54	30	3	1.40+	1.460+	74 3823	1	N,T
26-FE-54	30	3	1.480+	1.480+	61 679	1	N,T
26-FE-54	34		2.230+	0 1.675+	65 1843	9	N,ALPHA
26-FE-54	34		1.358+	1.473+	62 1008	3	N,ALPHA
26-FE-54	34		1.410+	1.410+	61 651	1	N,ALPHA
26-FE-54	34		1.440+	1.440+	67 1844	1	N,ALPHA
26-FE-54	34		1.450+	1.450+	62 1009	1	N,ALPHA
26-FE-54	34		1.450+	1.450+	63 1009	1	N,ALPHA
26-FE-54	34		1.450+	1.450+	72 3345	1	N,ALPHA
26-FE-54	34		1.460+	1.460+	72 3427	1	N,ALPHA
26-FE-54	34		1.480+	1.480+	61 679	1	N,ALPHA
26-FE-54	41		7.300-	0 7.300-	51 1584	1	BOUND ATOM
26-FE-54	43		7.300-	0 7.300-	51 1584	1	COHERENT SCATTERING
26-FE-54	73		2.500-	0 2.500-	52 342	1	N,GAMMA
26-FE-54	73		2.500-	0 2.500-	55 2938	1	N,GAMMA
26-FE-54	73 87		2.530-	0 2.530-	71 3822	1	N,GAMMA
26-FE-54	73 87		2.530-	0 2.530-	72 3700	10	N,GAMMA
26-FE-54	76		1.000+	0 1.000+	65 3671	1	N,P
26-FE-54	76		2.000+	0 2.000+	64 1711	1	N,P
26-FE-54	76		2.000+	0 2.000+	67 1895	1	N,P
26-FE-54	76		2.000+	0 2.000+	68 2990	1	N,P
26-FE-54	76		2.000+	0 2.000+	70 3382	1	N,P
26-FE-54	94		2.000+	0 2.000+	68 2990	1	N,ALPHA
26-FE-54	102		4.040+	0 5.600+	71 3214	30	ELASTIC
26-FE-54	102		5.500+	0 8.500+	74 3589	62	ELASTIC
26-FE-54	111	1	2.650+	0 3.260+	66 2589	22	N,N'
26-FE-54	111	1	4.040+	0 5.600+	71 3214	137	N,N'
26-FE-54	111	1	5.500+	0 8.500+	74 3589	323	N,N'
26-FE-54	111 7		1.455+	0 3.952+	75 3989	66	N,N'
26-FE-54	111 7		2.000+	0 2.800+	65 1715	1	N,N'
26-FE-54	118		1.480+	0 1.480+	63 2169	1	N,N' ALPHA
26-FE-54	124	7	2.800+	0 2.800+	65 1715	1	N,N' ALPHA
26-FE-54	124 87		1.810+	0 4.000+	87 1733	29	N,X GAMMA
26-FE-54	126		1.350+	0 1.350+	58 447	15	N,P
26-FE-54	134		1.480+	0 1.460+	63 2169	1	N,ALPHA
26-FE-54	876		1.979+	0 9.948+	73 3342	39	N,P
26-FE-54			0.000+	0 1.600+	61 726	2	AVERAGE RESONANCE PARAMETERS
26-FE-54			0.000+	0 1.725+	71 2079	1	AVERAGE RESONANCE PARAMETERS
26-FE-54			0.10+	0 5.060+	66 1048	1	AVERAGE RESONANCE PARAMETERS
26-FE-54			7.250-	3 7.250-	65 1858	1	RESONANCE PARAMETERS
26-FE-54			7.250-	3 1.470-	61 728	28	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1- 99 ***

ZA = 26054

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 26054

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	26-FE-54		7.600-3	6.520-1	75 2578	104	RESONANCE PARAMETERS
	26-FE-54		7.757-3	1.725-1	71 2079	10	RESONANCE PARAMETERS
	26-FE-54		7.820-3	5.200-2	69 2942	6	RESONANCE PARAMETERS
	26-FE-54		8.100-3	5.400-2	55 229	2	RESONANCE PARAMETERS
	26-FE-54		1.020-2	7.700-2	70 3058	4	RESONANCE PARAMETERS
	26-FE-54		9.200-2	4.010-1	56 318	8	RESONANCE PARAMETERS
	26-FE-54		9.800-2	5.065-1	62 747	56	RESONANCE PARAMETERS
	26-FE-56	1	1.440-6	1.440-6	65 949	1	TOTAL
	26-FE-56	1	1.860-1	6.570-1	62 747	485	TOTAL
	26-FE-56	1	5.050+0	5.050+0	71 3214	1	TOTAL
	26-FE-56	2	4.600+0	7.550+0	68 1998	7	ELASTIC
	26-FE-56	2	5.050+0	5.580+0	71 3214	2	ELASTIC
	26-FE-56	3	8.100+0	1.970+1	65 1238	2	NONELASTIC
N	26-FE-56	11	7.938-1	2.129+0	77 3837	585	N,N'
	26-FE-56	11	1.830+0	2.430+0	65 2321	3	N,N'
	26-FE-56	11	2.500+0	2.500+0	55 41	1	N,N'
N	26-FE-56	11	1.510+1	1.510+1	69 3662	1	N,N'
	26-FE-56	11 1	8.470-1	1.162+0	73 4069	67	N,N'
	26-FE-56	11 1	8.642-1	2.478+0	62 597	55	N,N'
N	26-FE-56	11 1	8.780-1	3.962+0	75 3889	125	N,N'
	26-FE-56	11 1	9.200-1	1.790+0	71 3243	10	N,N'
	26-FE-56	11 1	1.000+0	1.200+0	63 828	2	N,N'
	26-FE-56	11 1	1.000+0	3.950+0	62 1845	27	N,N'
	26-FE-56	11 1	1.125+0	1.500+0	68 1548	28	N,N'
N	26-FE-56	11 1	1.370+0	3.760+0	67 3397	14	N,N'
	26-FE-56	11 1	3.990+0	3.990+0	65 1016	7	N,N'
	26-FE-56	11 1	4.600+0	7.550+0	68 1998	48	N,N'
	26-FE-56	11 1	5.050+0	5.580+0	71 3214	12	N,N'
	26-FE-56	11 7	1.400+1	1.400+1	64 1859	2	N,N'
N	26-FE-56	11 8	3.360+0	3.760+0	67 3397	2	N,N'
N	26-FE-56	12	1.188+1	1.476+1	75 3807	7	N,2N
	26-FE-56	12	1.400+1	1.400+1	62 3374	1	N,2N
N	26-FE-56	12	1.510+1	1.510+1	69 3662	1	N,2N
	26-FE-56	14	1.400+1	1.400+1	61 381	1	N,N',P
	26-FE-56	21	1.400-2	5.900-2	64 998	33	ABSORPTION
	26-FE-56	23	4.000-1	4.000-1	56 9	1	N,GAMMA
	26-FE-56	24 7	1.000+0	2.640+0	65 1023	22	N,X GAMMA
	26-FE-56	24 7	1.000+0	3.300+0	60 1726	9	N,X GAMMA
	26-FE-56	24 7	2.900+0	2.900+0	61 686	1	N,X GAMMA
	26-FE-56	26	3.950+0	1.410+1	67 1500	9	N,P
C	26-FE-56	26	3.979+0	9.945+0	73 3342	58	N,P
	26-FE-56	26	4.570+0	2.036+1	64 1846	47	N,P
	26-FE-56	26	6.060+0	8.200+0	68 1714	17	N,P
	26-FE-56	26	1.260+1	1.958+1	65 1847	28	N,P
	26-FE-56	26	1.358+1	1.473+1	62 1008	3	N,P
	26-FE-56	26	1.400+1	1.403+1	55 202	1	N,P
	26-FE-56	26	1.400+1	1.400+1	57 217	1	N,P
	26-FE-56	26	1.400+1	1.400+1	61 361	1	N,P
	26-FE-56	26	1.410+1	1.410+1	52 84	1	N,P
	26-FE-56	26	1.410+1	1.410+1	60 837	1	N,P
	26-FE-56	26	1.410+1	1.410+1	61 651	1	N,P
	26-FE-56	26	1.414+1	1.414+1	57 535	1	N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-100 ***

ZA = 26056

07/04/76

ECSIL-7500 REACTION INDEX (ZA ORDERED)

ZA = 26056

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	26-FE-56	26	1.440+	1.440+	62 806	1	N,P
	26-FE-56	26	1.440+	1.440+	72 3463	1	N,P
	26-FE-56	26	1.450+	1.450+	53 27	1	N,P
	26-FE-56	26	1.450+	1.450+	62 1009	1	N,P
C	26-FE-56	26	1.450+	1.450+	63 1009	1	N,P
	26-FE-56	26	1.450+	1.450+	72 3346	1	N,P
	26-FE-56	26	1.460+	1.480+	69 2354	2	N,P
	26-FE-56	26	1.470+	1.470+	64 1848	1	N,P
	26-FE-56	26	1.470+	1.470+	68 2596	1	N,P
	26-FE-56	26	1.480+	1.480+	64 843	1	N,P
	26-FE-56	26	1.480+	1.480+	68 2711	1	N,P
	26-FE-56	26	1.480+	1.480+	68 4071	1	N,P
	26-FE-56	26	1.484+	1.484+	61 679	1	N,P
	26-FE-56	26	1.500+	1.500+	60 628	1	N,P
	26-FE-56	26	1.510+	1.510+	63 3662	1	N,P
	26-FE-56	26	1.527+	1.527+	59 533	1	N,P
N	26-FE-56	26	1.254+	1.870+	62 562	0	N,P
	26-FE-56	26	1.400+	1.400+	64 1859	1	N,P
	26-FE-56	26	1.360+	1.460+	68 2596	6	N,P
	26-FE-56	27	1.320+	1.320+	57 847	1	N,X P
	26-FE-56	34	1.460+	1.460+	69 2710	1	N,ALPHA
	26-FE-56	41	7.300-	7.300-	51 1584	1	BOUND ATOM
	26-FE-56	43	7.300-	7.300-	51 1584	1	COHERENT SCATTERING
	26-FE-56	73	2.500-	2.500-	52 342	1	N,GAMMA
	26-FE-56	73	2.530-	2.530-	71 3822	25	N,GAMMA
	26-FE-56	76	1.000+	1.000+	65 3672	1	N,P
	26-FE-56	76	1.000+	1.000+	70 3809	1	N,P
	26-FE-56	76	2.000+	2.000+	64 1711	1	N,P
N	26-FE-56	76	2.000+	2.000+	67 1895	1	N,P
	26-FE-56	76	2.000+	2.000+	68 2990	1	N,P
	26-FE-56	76	4.400+	4.400+	64 1741	1	N,P
	26-FE-56	102	6.300-	9.700-	67 971	63	ELASTIC
	26-FE-56	102	1.800+	1.800+	72 4026	17	ELASTIC
	26-FE-56	102	4.600+	7.550+	68 1998	65	ELASTIC
	26-FE-56	102	5.050+	5.580+	71 3214	19	ELASTIC
	26-FE-56	111	1.370+	4.490+	66 2589	119	N,N'
	26-FE-56	111	1.426+	2.152+	70 3207	225	N,N'
	26-FE-56	111	2.450+	2.450+	56 476	1	N,N'
	26-FE-56	111	4.600+	7.550+	68 1998	85	N,N'
	26-FE-56	111	5.050+	5.580+	71 3214	95	N,N'
N	26-FE-56	111	1.400+	1.400+	72 3406	11	N,N'
	26-FE-56	111	7.870+	3.962+	75 3889	144	N,N'
	26-FE-56	111	1.426+	2.152+	70 3207	225	N,N'
	26-FE-56	111	2.500+	1.410+	74 3941	291	N,N'
	26-FE-56	111	2.800+	2.800+	65 1715	3	N,N'
	26-FE-56	111	5.050+	5.580+	71 3214	19	N,N'
	26-FE-56	111	2.450+	2.450+	56 476	15	N,N'
	26-FE-56	124	7.9500-	3.000+	63 1728	12	N,X GAMMA
	26-FE-56	124	9.600-	4.050+	64 1730	103	N,X GAMMA
	26-FE-56	124	2.560+	2.560+	60 666	11	N,X GAMMA
	26-FE-56	124	2.800+	2.800+	65 1715	3	N,X GAMMA
	26-FE-56	124	2.870+	2.870+	61 686	5	N,X GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-101 ***

ZA = 26056

07.04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 26056

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-FE-56	124	7	2.900+	2.950+ 0	59 818	11	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-56	124	7	3.700+	3.700+ 0	55 473	2	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-56	124	7	1.430+	1.430+ 1	67 1710	1	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-56	126		1.350+	1.350+ 1	58 447	13	N,P ANGULAR DISTRIBUTION
N 26-FE-56	224 80		6.300+	7.300+ 0	74 394	153	N,Y GAMMA ENERGY DISTRIBUTION
N 26-FE-56	976		3.979+	9.945+ 0	73 3342	29	N,P CROSS SECTION RATIO
C 26-FE-56			0.000+	0.870- 1	71 2079	1	AVERAGE RESONANCE PARAMETERS
N 26-FE-56			0.000+	0.000- 1	61 728	2	AVERAGE RESONANCE PARAMETERS
N 26-FE-56			0.000+	6.450- 1	66 1048	1	AVERAGE RESONANCE PARAMETERS
N 26-FE-56			-2.000-	4.989- 1	75 3578	118	RESONANCE PARAMETERS
26-FE-56			1.148-	3 1.148- 3	64 2379	4	RESONANCE PARAMETERS
26-FE-56			1.148-	3 2.770- 2	65 1858	3	RESONANCE PARAMETERS
26-FE-56			1.150-	3 1.150- 3	69 3040	1	RESONANCE PARAMETERS
26-FE-56			1.151-	3 1.151- 3	69 1878	3	RESONANCE PARAMETERS
26-FE-56			1.154-	3 1.154- 3	62 939	1	RESONANCE PARAMETERS
C 26-FE-56			1.154-	3 1.154- 3	63 939	3	RESONANCE PARAMETERS
26-FE-56			1.167-	3 1.167- 3	70 3089	2	RESONANCE PARAMETERS
26-FE-56			1.180-	3 1.180- 3	60 616	3	RESONANCE PARAMETERS
26-FE-56			1.180-	3 1.180- 3	64 2380	2	RESONANCE PARAMETERS
26-FE-56			1.200-	3 1.200- 3	65 2507	1	RESONANCE PARAMETERS
N 26-FE-56			2.350-	3 5.900- 2	69 2942	12	RESONANCE PARAMETERS
26-FE-56			2.200-	2 5.000- 2	64 998	8	RESONANCE PARAMETERS
26-FE-56			2.280-	2 1.290- 1	70 3068	21	RESONANCE PARAMETERS
N 26-FE-56			2.765-	2 1.870- 1	71 2079	8	RESONANCE PARAMETERS
26-FE-56			2.830-	2 1.890- 1	61 728	36	RESONANCE PARAMETERS
26-FE-56			2.900-	2 2.900- 2	55 229	1	RESONANCE PARAMETERS
26-FE-56			2.920-	2 4.060- 1	57 318	15	RESONANCE PARAMETERS
26-FE-56			7.400-	2 2.427- 1	66 1552	19	RESONANCE PARAMETERS
26-FE-56			1.865-	1 6.450- 1	62 747	53	RESONANCE PARAMETERS
C 26-FE-56			5.120-	1 1.442+ 0	68 2943	106	RESONANCE PARAMETERS
26-FE-57	1		2.800-	3 2.800- 3	52 221	1	TOTAL
26-FE-57	1		2.426-	2 2.575- 1	66 1552	1244	TOTAL
26-FE-57	14		1.480+	1 1.480+ 1	61 679	1	N,N'P
26-FE-57	23		1.120-	2 5.950- 2	64 998	47	N,GAMMA
26-FE-57	26		1.410+	1 1.410+ 1	61 651	1	N,P
26-FE-57	26		1.450+	1 1.450+ 1	63 1009	1	N,P
26-FE-57	26		1.450+	1 1.450+ 1	72 3345	1	N,P
26-FE-57	26		1.480+	1 1.480+ 1	61 679	1	N,P
26-FE-57	41		7.300-	8 7.300- 8	51 1584	1	BOUND ATOM
26-FE-57	43		7.300-	8 7.300- 8	51 1584	1	COHERENT SCATTERING
26-FE-57	73		2.500-	8 2.500- 8	52 342	1	N,GAMMA
N 26-FE-57	73 87		2.530-	8 2.530- 8	71 3822	2	N,GAMMA
N 26-FE-57	111 7		8.310-	1 3.962+ 0	75 3889	36	N,N'
N 26-FE-57			0.000+	0.000- 1	63 3657	13	AVERAGE RESONANCE PARAMETERS
C 26-FE-57			2.000-	3 5.500- 2	65 924	2	AVERAGE RESONANCE PARAMETERS
26-FE-57			1.630-	3 4.000- 2	69 2942	24	RESONANCE PARAMETERS
26-FE-57			3.870-	3 4.550- 2	65 924	8	RESONANCE PARAMETERS
26-FE-57			3.900-	3 1.270- 2	59 2384	5	RESONANCE PARAMETERS
26-FE-57			4.000-	3 1.750- 2	65 1858	6	RESONANCE PARAMETERS
26-FE-57			6.000-	3 6.000- 3	61 728	2	RESONANCE PARAMETERS
26-FE-57			6.280-	3 6.280- 3	71 2079	1	RESONANCE PARAMETERS
26-FE-57			1.270-	2 2.700- 2	64 998	5	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-102 ***

ZA = 26057

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 26057

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	26-FE-57		1.390- 2	1.390- 2	70 3068	1	RESONANCE PARAMETERS
N	26-FE-57		2.915- 2	1.895- 1	66 3657	38	RESONANCE PARAMETERS
N	26-FE-57		1.430- 1	1.490- 1	56 318	2	RESONANCE PARAMETERS
N	26-FE-58	23	2.530- 8	2.530- 8	47 888	1	N,GAMMA
N	26-FE-58	23	2.530- 8	2.530- 8	65 3675	1	N,GAMMA
N	26-FE-58	23 87	2.500- 8	2.500- 8	71 3416	13	N,GAMMA
N	26-FE-58	26	1.440+ 1	1.440+ 1	72 3463	1	N,P
N	26-FE-58	26	1.450+ 1	1.450+ 1	72 3345	1	N,P
N	26-FE-58	26	1.480+ 1	1.480+ 1	61 679	1	N,P
N	26-FE-58	34	1.480+ 1	1.480+ 1	61 679	1	N,P
N	26-FE-58	73	2.500- 8	2.500- 8	52 342	1	N,ALPHA
N	26-FE-58	73	2.500- 8	2.500- 8	55 2938	1	N,GAMMA
N	26-FE-58	73	2.500- 8	2.500- 8	56 2974	1	N,GAMMA
N	26-FE-58	73	2.500- 8	2.500- 8	67 1889	1	N,GAMMA
N	26-FE-58	523	5.000- 7	1.500+ 1	59 3680	1	N,GAMMA
N	26-FE-58	523	6.000- 7	1.500+ 1	63 3352	1	N,GAMMA
N	26-FE-58		2.300- 4	1.040- 2	69 2942	1	RESONANCE PARAMETERS
N	FE203	1	1.440- 6	1.440- 6	65 949	1	TOTAL
N	27-CO-58	73	2.500- 8	2.500- 8	72 3266	1	N,GAMMA
N	27-CO-59	1	1.150- 4	3.000- 4	49 844	1	TOTAL
N	27-CO-59	1	5.882- 4	5.980- 1	65 814	5737	SPECTRUM AVERAGED CROSS SECTION
N	27-CO-59	1	1.113- 3	3.170- 2	58 548	130	TOTAL
N	27-CO-59	1	1.500- 3	1.004- 1	57 157	139	TOTAL
N	27-CO-59	1	2.000- 3	9.900- 2	52 75	40	TOTAL
N	27-CO-59	1	2.800- 3	6.000- 3	60 1850	77	TOTAL
N	27-CO-59	1	2.850- 3	1.217- 1	59 855	454	TOTAL
N	27-CO-59	1	1.500- 1	4.770- 1	70 3227	76	TOTAL
N	27-CO-59	1	2.550- 1	7.750+ 0	72 3227	33	TOTAL
N	27-CO-59	1	3.200- 1	1.000+ 0	51 74	69	TOTAL
N	27-CO-59	1	3.600- 1	3.198+ 1	70 2517	6178	TOTAL
N	27-CO-59	1	4.900- 1	1.203+ 0	67 71	186	TOTAL
N	27-CO-59	1	1.100+ 0	3.000+ 0	53 90	13	TOTAL
N	27-CO-59	1	2.262+ 0	1.473+ 1	67 750	244	TOTAL
N	27-CO-59	1	2.700+ 0	2.700+ 0	67 1527	1	TOTAL
N	27-CO-59	1	2.700+ 0	1.310+ 1	54 504	29	TOTAL
N	27-CO-59	1	3.819+ 0	5.150+ 0	65 3665	65	TOTAL
N	27-CO-59	1	3.660+ 0	3.660+ 0	59 559	1	TOTAL
N	27-CO-59	1	3.780+ 0	8.080+ 0	57 153	41	TOTAL
N	27-CO-59	1	4.000+ 0	4.000+ 0	67 1643	1	TOTAL
N	27-CO-59	1	4.525+ 0	7.528+ 0	67 1747	61	TOTAL
N	27-CO-59	1	1.400+ 1	1.400+ 1	52 81	1	TOTAL
N	27-CO-59	1	1.400+ 1	1.400+ 1	59 567	1	TOTAL
N	27-CO-59	1	1.470+ 1	1.470+ 1	71 3815	1	TOTAL
N	27-CO-59	1	1.740+ 1	2.900+ 1	60 673	4	TOTAL
N	27-CO-59	2	3.000- 1	1.500+ 0	66 2895	32	ELASTIC
N	27-CO-59	2	5.000- 1	8.000- 1	66 2339	2	ELASTIC
N	27-CO-59	2	8.960- 1	8.960- 1	72 3546	1	ELASTIC
N	27-CO-59	2	1.000+ 0	1.000+ 0	54 103	1	ELASTIC
N	27-CO-59	2	1.460+ 0	8.050+ 0	69 2890	10	ELASTIC
N	27-CO-59	2	1.500+ 0	1.500+ 0	67 3394	1	ELASTIC
N	27-CO-59	2	3.660+ 0	3.660+ 0	59 559	1	ELASTIC
N	27-CO-59	2	4.000+ 0	4.000+ 0	64 1643	1	ELASTIC

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-103 ***

ZA = 27059

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 27059

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	27-CO-59	2		5.000+ 0	8.560+ 0	70 3170	5	ELASTIC
	27-CO-59	2		1.400+ 1	1.400+ 1	59 567	1	ELASTIC
	27-CO-59	3		1.000+ 0	1.000+ 0	54 103	1	NONELASTIC
	27-CO-59	3		2.500+ 0	2.500+ 0	55 790	1	NONELASTIC
	27-CO-59	3		2.500+ 0	2.500+ 0	56 34	1	NONELASTIC
	27-CO-59	3		3.660+ 0	3.660+ 0	59 559	1	NONELASTIC
	27-CO-59	3		1.420+ 1	1.420+ 1	57 319	1	NONELASTIC
N	27-CO-59	4		1.436+ 1	1.436+ 1	72 4072	1	NEUTRON EMISSION
	27-CO-59	5		3.000- 2	1.368- 0	56 231	24	TOTAL SCATTERING
N	27-CO-59	11		1.140+ 0	4.660+ 0	70 3386	19	N,N'
N	27-CO-59	11	1	1.760+ 0	1.760+ 0	71 3519	6	N,N'
C	27-CO-59	11	1	4.190+ 0	8.560+ 0	70 3170	38	N,N'
N	27-CO-59	11	7	1.140+ 0	4.980+ 0	70 3386	93	N,N'
N	27-CO-59	12		1.091+ 1	1.476+ 1	75 3807	3	N,2N
	27-CO-59	12		1.255+ 1	1.920+ 1	66 2894	6	N,2N
	27-CO-59	12		1.257+ 1	1.920+ 1	68 2340	14	N,2N
	27-CO-59	12		1.263+ 1	1.959+ 1	65 1738	23	N,2N
	27-CO-59	12		1.320+ 1	1.570+ 1	66 1909	8	N,2N
	27-CO-59	12		1.339+ 1	1.496+ 1	67 1871	7	N,2N
	27-CO-59	12		1.386+ 1	1.477+ 1	62 1770	5	N,2N
	27-CO-59	12		1.400+ 1	1.400+ 1	62 3374	1	N,2N
	27-CO-59	12		1.400+ 1	1.400+ 1	63 377	1	N,2N
	27-CO-59	12		1.410+ 1	1.410+ 1	58 1821	1	N,2N
	27-CO-59	12		1.410+ 1	1.410+ 1	63 455	1	N,2N
	27-CO-59	12		1.410+ 1	1.410+ 1	65 1800	1	N,2N
N	27-CO-59	12		1.436+ 1	1.436+ 1	72 4072	1	N,2N
	27-CO-59	12		1.450+ 1	1.450+ 1	60 629	1	N,2N
	27-CO-59	12		1.460+ 1	1.460+ 1	59 2354	1	N,2N
	27-CO-59	12		1.480+ 1	1.480+ 1	60 598	1	N,2N
	27-CO-59	12	4	1.255+ 1	1.920+ 1	66 2894	6	N,2N
	27-CO-59	12	4	1.339+ 1	1.496+ 1	67 1871	7	N,2N
	27-CO-59	12	4	1.410+ 1	1.410+ 1	65 1800	1	N,2N
	27-CO-59	12	4	1.480+ 1	1.480+ 1	58 598	1	N,2N
	27-CO-59	12	5	1.255+ 1	1.920+ 1	66 2894	6	N,2N
	27-CO-59	12	5	1.315+ 1	1.960+ 1	61 713	8	N,2N
	27-CO-59	12	5	1.355+ 1	2.109+ 1	63 374	7	N,2N
	27-CO-59	12	5	1.410+ 1	1.410+ 1	65 1800	1	N,2N
N	27-CO-59	12	5	1.460+ 1	1.460+ 1	73 3988	1	N,2N
	27-CO-59	12	5	1.480+ 1	1.480+ 1	58 598	1	N,2N
	27-CO-59	14		1.440+ 1	1.440+ 1	62 688	1	N,N'P
	27-CO-59	21		2.530- 8	2.530- 8	52 437	1	ABSORPTION
	27-CO-59	21		2.530- 8	2.530- 8	59 1162	1	ABSORPTION
	27-CO-59	21		2.530- 8	2.530- 8	60 891	1	ABSORPTION
	27-CO-59	21		2.530- 8	2.530- 8	61 2569	1	ABSORPTION
	27-CO-59	21		2.530- 8	2.530- 8	66 1491	1	ABSORPTION
	27-CO-59	23		2.530- 8	2.530- 8	47 888	1	N,GAMMA
	27-CO-59	23		2.530- 8	2.530- 8	60 2565	1	N,GAMMA
	27-CO-59	23		2.530- 8	2.530- 8	65 2575	1	N,GAMMA
N	27-CO-59	23		2.530- 8	2.530- 8	67 3674	1	N,GAMMA
	27-CO-59	23		2.500- 2	2.500- 2	63 1	1	N,GAMMA
	27-CO-59	23		3.000- 2	3.000- 2	61 677	1	N,GAMMA
	27-CO-59	23		3.000- 2	6.500- 2	63 1	2	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-104 ***

ZA = 27059

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 27059

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 27-CO-59	23		1.780+ 0	1.400+ 1	67 3786	4	N, GAMMA
27-CO-59	23	3	2.530- 8	2.530- 8	51 2568	1	N, GAMMA
27- O-59	23	3	1.800- 1	2.600+ 0	59 663	14	N, GAMMA
N 27-CO-59	23	3	1.780+ 0	1.400+ 1	67 3786	4	N, GAMMA
27-CO-59	23	6	2.530- 8	2.530- 8	51 2567	1	N, GAMMA
27-CO-59	23	6	2.530- 8	2.530- 8	51 2568	1	N, GAMMA
27-CO-59	23	6	2.530- 8	2.530- 8	68 2479	1	N, GAMMA
N 27-CO-59	24		2.250+ 0	2.900+ 0	71 3747	7	N, X GAMMA
27-CO-59	24	7	1.100+ 0	1.450+ 0	65 1023	18	N, X GAMMA
27-CO-59	24	7	3.200+ 0	3.200+ 0	94 113	5	N, X GAMMA
N 27-CO-59	26		4.334+ 0	9.944+ 0	73 3342	32	N, P
27-CO-59	26		1.355+ 1	2.100+ 1	63 374	7	N, P
27-CO-59	26		1.400+ 1	1.400+ 1	61 361	1	N, P
27-CO-59	26		1.410+ 1	1.410+ 1	60 837	1	N, P
27-CO-59	26		1.440+ 1	1.440+ 1	62 688	1	N, P
27-CO-59	26		1.450+ 1	1.450+ 1	60 629	1	N, P
N 27-CO-59	26		1.460+ 1	1.460+ 1	72 3427	1	N, P
27-CO-59	26		1.480+ 1	1.480+ 1	60 598	1	N, P
27-CO-59	26		1.480+ 1	1.480+ 1	65 1855	1	N, P
N 27-CO-59	26		1.480+ 1	1.480+ 1	68 4071	1	N, P
N 27-CO-59	26	1	1.460+ 1	1.460+ 1	73 3567	1	N, P
27-CO-59	26	5	1.255+ 1	2.100+ 1	63 374	6	N, P
N 27-CO-59	30		1.470+ 1	1.470+ 1	73 3996	1	N, T
27-CO-59	30		1.480+ 1	1.480+ 1	65 1697	1	N, T
N 27-CO-59	32		1.400+ 1	1.400+ 1	71 3816	1	N, HE-3
27-CO-59	32		1.480+ 1	1.480+ 1	60 667	1	N, HE-3
N 27-CO-59	32		1.480+ 1	1.480+ 1	65 2151	1	N, HE-3
27-CO-59	34		5.020+ 0	2.030+ 1	64 1846	32	N, ALPHA
27-CO-59	34		6.630+ 0	8.200+ 0	66 1714	13	N, ALPHA
27-CO-59	34		1.255+ 1	2.100+ 1	63 374	8	N, ALPHA
27-CO-59	34		1.260+ 1	1.958+ 1	65 1847	28	N, ALPHA
27-CO-59	34		1.260+ 1	1.960+ 1	61 713	9	N, ALPHA
27-CO-59	34		1.270+ 1	1.710+ 1	62 806	14	N, ALPHA
N 27-CO-59	34		1.304+ 1	1.785+ 1	75 4016	10	N, ALPHA
27-CO-59	34		1.405+ 1	1.405+ 1	58 401	1	N, ALPHA
27-CO-59	34		1.410+ 1	1.410+ 1	65 1800	1	N, ALPHA
27-CO-59	34		1.450+ 1	1.450+ 1	53 27	1	N, ALPHA
27-CO-59	34		1.450+ 1	1.450+ 1	60 629	1	N, ALPHA
27-CO-59	34		1.480+ 1	1.480+ 1	60 598	1	N, ALPHA
27-CO-59	34		1.480+ 1	1.480+ 1	65 1637	1	N, ALPHA
N 27-CO-59	34		1.480+ 1	1.480+ 1	65 2151	1	N, ALPHA
N 27-CO-59	34		1.480+ 1	1.480+ 1	68 4071	1	N, ALPHA
27-CO-59	34	1	1.450+ 1	1.450+ 1	69 2710	1	N, ALPHA
27-CO-59	35		1.480+ 1	1.480+ 1	58 536	1	N, X ALPHA
27-CO-59	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
27-CO-59	43		7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING
27-CO-59	43	1	2.530- 8	2.530- 8	69 3226	2	COHERENT SCATTERING
27-CO-59	62		2.000+ 0	2.000+ 0	68 2990	1	N, 2N
27-CO-59	71		2.500- 8	2.500- 8	50 1794	1	ABSORPTION
27-CO-59	71		2.500- 8	2.500- 8	51 882	1	ABSORPTION
27-CO-59	71		2.500- 8	2.500- 8	51 1619	1	ABSORPTION
27-CO-59	73		2.500- 8	2.500- 8	62 139	1	N, GAMMA

SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-105 ***

ZA = 27059

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 27059

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
27-CO-59	73		2.500-8	2.500-8	63 2576	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73		2.500-8	2.500-8	63 2577	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73		2.500-8	2.700-8	66 1856	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73		2.500-8	2.500-8	68 2479	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73		2.500-8	2.500-8	69 2098	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73	3	2.500-8	2.500-8	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73	3	2.500-8	2.500-8	53 2554	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73	3	2.500-8	2.500-8	63 2556	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73	6	2.500-8	2.500-8	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73	7	2.530-8	2.530-8	70 2415	132	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73	10	2.530-8	2.530-8	70 2415	24	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	74		2.530-8	2.530-8	70 2415	1	N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
N 27-CO-59	76		1.500+0	1.500+0	63 3980	1	N, P SPECTRUM AVERAGED CROSS SECTION
N 27-CO-59	76		2.000+0	2.000+0	68 2990	1	N, P SPECTRUM AVERAGED CROSS SECTION
27-CO-59	84		2.000+0	2.000+0	68 2990	1	N, ALPHA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	102		3.000-2	1.040+0	56 231	55	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		5.000-1	8.000-1	66 2339	16	ELASTIC ANGULAR DISTRIBUTION
N 27-CO-59	102		8.950-1	8.960-1	72 3546	8	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		1.000+0	1.000+0	54 103	9	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		1.460+0	4.560+0	13 1831	100	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		1.460+0	8.050+0	69 2090	147	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		1.950+0	1.950+0	64 1743	10	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		3.200+0	3.200+0	66 2950	14	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		3.650+0	3.650+0	59 559	23	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		4.000+0	4.000+0	64 1643	17	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		4.400+0	4.400+0	56 1827	1	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		5.000+0	8.560+0	70 3170	108	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		7.600+0	7.600+0	68 2011	11	ELASTIC ANGULAR DISTRIBUTION
N 27-CO-59	102		8.970+0	8.970+0	73 3565	27	ELASTIC ANGULAR DISTRIBUTION
27-CO-59	102		1.400+1	1.400+1	59 587	12	ELASTIC ANGULAR DISTRIBUTION
N 27-CO-59	104	10	1.436+1	1.436+1	72 4072	10	NEUTRON EMISSION ANGULAR DISTRIBUTION
27-CO-59	111		4.400+0	4.400+0	56 1827	1	N, N' ANGULAR DISTRIBUTION
27-CO-59	111	1	2.450+0	2.450+0	56 476	3	N, N' ANGULAR DISTRIBUTION
27-CO-59	111	1	4.190+0	6.440+0	70 3170	10	N, N' ANGULAR DISTRIBUTION
27-CO-59	111	8	4.190+0	8.560+0	70 3170	105	N, N' ANGULAR DISTRIBUTION
N 27-CO-59	111	10	1.436+1	1.436+1	72 4072	15	N, N' ANGULAR DISTRIBUTION
27-CO-59	124	7	1.700+0	4.500+0	68 1019	70	N, X GAMMA ANGULAR DISTRIBUTION
27-CO-59	124	7	3.000+0	4.500+0	84 1730	35	N, X GAMMA ANGULAR DISTRIBUTION
27-CO-59	124	7	7.600+0	7.600+0	68 2011	10	N, X GAMMA ANGULAR DISTRIBUTION
27-CO-59	124	87	3.000+0	3.000+0	68 1019	55	N, X GAMMA ANGULAR DISTRIBUTION
27-CO-59	127		1.440+1	1.440+1	62 688	6	N, X P ANGULAR DISTRIBUTION
27-CO-59	135		1.480+1	1.480+1	59 536	9	N, X ALPHA ANGULAR DISTRIBUTION
27-CO-59	135		1.480+1	1.480+1	59 537	1	N, X ALPHA ANGULAR DISTRIBUTION
N 27-CO-59	204		1.436+1	1.436+1	72 4072	51	NEUTRON EMISSION ENERGY DISTRIBUTION
27-CO-59	211		4.190+0	8.560+0	70 3170	2271	N, N' ENERGY DISTRIBUTION
27-CO-59	224	80	2.500-8	2.500-8	66 1559	91	N, X GAMMA ENERGY DISTRIBUTION
27-CO-59	235	80	1.400+1	1.400+1	62 1906	9	N, X ALPHA ENERGY DISTRIBUTION
N 27-CO-59	304		1.436+1	1.436+1	72 4072	255	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 27-CO-59	304		1.438+1	1.475+1	74 4095	545	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 27-CO-59	311	80	1.410+1	1.410+1	65 1908	56	N, N' DIFF. ENERGY-ANGLE DISTRIBUTION
N 27-CO-59	326		1.480+1	1.480+1	63 3808	16	N, P DIFF. ENERGY-ANGLE DISTRIBUTION
27-CO-59	406		1.420+1	1.420+1	50 905	1	NONELASTIC EMISSION INTEGRAL E1-E2

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-106 ***

ZA = 27059

07/04/76

ECSIL-7610 REACTION INDEX (ZA ORDERED)

ZA = 27059

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
27-CO-59	452		3.000-0	1.500-0	66 885	125	ELASTIC
C	27-CO-59	521	0.000-0	2.000-1	71 3311	1	ABSORPTION
C	27-CO-59	521	4.900-7	1.500-1	57 1054	1	ABSORPTION
C	27-CO-59	521	5.000-7	1.500-1	65 1819	1	ABSORPTION
C	27-CO-59	521	5.500-7	1.500-1	66 1131	2	ABSORPTION
C	27-CO-59	523	5.000-7	1.500-1	60 333	1	N. GAMMA
C	27-CO-59	523	5.000-7	1.500-1	61 2718	1	N. GAMMA
C	27-CO-59	523	5.000-7	1.500-1	62 1392	1	N. GAMMA
C	27-CO-59	523	5.000-7	1.500-1	63 1851	1	N. GAMMA
C	27-CO-59	523	5.000-7	1.500-1	64 287	1	N. GAMMA
C	27-CO-59	523	5.000-7	1.500-1	69 2099	1	N. GAMMA
N	27-CO-59	523	5.000-7	1.500-1	69 3800	1	N. GAMMA
27-CO-59	606		1.500-0	1.500-1	60 1720	10	NONELASTIC EMISSION
27-CO-59	606		1.480-1	1.480-1	66 1042	72	NONELASTIC EMISSION
27-CO-59	634		1.400-1	1.400-1	62 1906	5	N. ALPHA
27-CO-59	862	S	1.257-1	1.820-1	68 2340	13	M.2N
27-CO-59	862	S	1.450-1	1.450-1	63 1009	1	M.2N
N	27-CO-59	876	4.334-0	9.944-0	73 3342	17	M.P
27-CO-59			1.410-1	1.410-1	65 1908	2	NUCLEAR TEMPERATURE
27-CO-59			1.480-1	1.480-1	67 2897	2	NUCLEAR TEMPERATURE
C	27-CO-59		0.000-0	1.200-1	66 1072	3	AVERAGE RESONANCE PARAMETERS
C	27-CO-59		0.000-0	1.200-1	67 3110	6	AVERAGE RESONANCE PARAMETERS
27-CO-59			1.270-4	1.270-4	54 256	1	RESONANCE PARAMETERS
27-CO-59			1.300-4	1.300-4	62 1213	1	RESONANCE PARAMETERS
27-CO-59			1.300-4	1.006-1	64 814	59	RESONANCE PARAMETERS
27-CO-59			1.320-4	1.320-4	60 2383	1	RESONANCE PARAMETERS
27-CO-59			1.320-4	1.320-4	63 2382	4	RESONANCE PARAMETERS
27-CO-59			1.320-4	1.194-1	67 3110	138	RESONANCE PARAMETERS
N	27-CO-59		1.320-4	1.320-4	65 1852	3	RESONANCE PARAMETERS
N	27-CO-59		1.320-4	1.320-4	70 3761	4	RESONANCE PARAMETERS
27-CO-59			1.340-4	1.340-4	54 459	4	RESONANCE PARAMETERS
N	27-CO-59		2.860-3	3.903-0	75 3691	205	RESONANCE PARAMETERS
27-CO-59			4.300-3	3.000-2	58 548	8	RESONANCE PARAMETERS
27-CO-59			4.318-3	2.730-2	66 814	39	RESONANCE PARAMETERS
27-CO-59			4.327-3	1.689-2	65 1858	17	RESONANCE PARAMETERS
27-CO-59			4.700-3	2.830-2	57 157	3	RESONANCE PARAMETERS
27-CO-59			4.000-3	5.000-3	60 1850	2	RESONANCE PARAMETERS
C	27-CO-59		4.100-3	3.000-2	59 1850	8	RESONANCE PARAMETERS
27-CO-60	71		2.500-8	2.500-8	53 2909	1	ABSORPTION
27-CO-60	71		2.500-8	2.500-8	53 2909	1	ABSORPTION
28-NI-NAT			8.710-10	5.820-9	54 2087	35	TOTAL
28-NI-NAT			3.880-9	1.880-7	54 873	102	TOTAL
28-NI-NAT			3.300-8	2.700-7	70 3627	4	TOTAL
28-NI-NAT			1.010-7	7.900-7	54 1041	10	TOTAL
28-NI-NAT			1.440-6	1.440-6	65 949	1	TOTAL
28-NI-NAT			2.300-6	9.200-3	53 980	100	TOTAL
28-NI-NAT			1.150-4	3.000-4	49 844	2	TOTAL
28-NI-NAT			1.700-4	2.200-1	54 1002	200	TOTAL
28-NI-NAT			2.000-3	4.100-2	52 75	30	TOTAL
28-NI-NAT			2.500-3	9.950-2	53 223	60	TOTAL
28-NI-NAT			8.800-2	1.080-0	48 48	63	TOTAL
N	28-NI-NAT		9.700-2	1.201-0	73 3945	295	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-107 ***

ZA = 28000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 28000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
28-NI-NAT	1	1	1.010	1 6.489	1 66 1062	547	TOTAL
N 28-NI-NAT	1	1	1.260	1 2.350	0 66 4017	13	TOTAL
28-NI-NAT	1	1	1.300	1 1.300	1 47 46	1	TOTAL
N 28-NI-NAT	1	1	1.811	1 2.942	1 72 3521	7402	TOTAL
28-NI-NAT	1	1	4.500	1 2.550	0 61 1000	8	TOTAL
N 28-NI-NAT	1	1	4.727	1 1.513	1 73 3539	3458	TOTAL
28-NI-NAT	1	1	4.874	1 8.671	0 71 3341	696	TOTAL
28-NI-NAT	1	1	5.000	1 5.195	0 63 455	320	TOTAL
C 28-NI-NAT	1	1	5.001	1 3.194	1 68 2517	5114	TOTAL
28-NI-NAT	1	1	5.500	1 3.200	0 52 80	15	TOTAL
N 28-NI-NAT	1	1	1.105	0 6.190	0 73 3798	132	TOTAL
28-NI-NAT	1	1	2.252	0 1.490	1 67 750	248	TOTAL
28-NI-NAT	1	1	2.700	0 1.310	1 54 504	28	TOTAL
28-NI-NAT	1	1	3.660	0 3.660	0 55 559	1	TOTAL
28-NI-NAT	1	1	7.050	0 1.448	1 57 22	5	TOTAL
28-NI-NAT	1	1	1.237	1 2.020	1 60 622	13	TOTAL
28-NI-NAT	1	1	1.300	1 1.620	1 55 133	7	TOTAL
28-NI-NAT	1	1	1.400	1 1.400	1 52 81	1	TOTAL
28-NI-NAT	1	1	1.400	1 1.400	1 52 207	1	TOTAL
N 28-NI-NAT	1	1	1.470	1 1.470	1 71 3815	1	TOTAL
28-NI-NAT	1	1	1.750	1 2.850	1 60 673	5	TOTAL
28-NI-NAT	1	1	4.200	1 4.200	1 50 281	1	TOTAL
28-NI-NAT	1	1	3.790	2 1.731	3 71 3204	15	TOTAL
28-NI-NAT	2	1	3.000	1 3.000	1 63 1699	1	ELASTIC
28-NI-NAT	2	1	3.170	1 1.456	0 66 885	91	ELASTIC
28-NI-NAT	2	1	5.000	1 8.000	1 64 896	2	ELASTIC
N 28-NI-NAT	2	1	5.000	1 1.475	0 72 3584	40	ELASTIC
28-NI-NAT	2	1	6.500	1 6.500	1 63 1750	1	ELASTIC
N 28-NI-NAT	2	1	8.754	1 8.754	1 72 3546	1	ELASTIC
28-NI-NAT	2	1	9.000	1 9.000	1 62 901	1	ELASTIC
28-NI-NAT	2	1	1.000	0 1.000	0 54 103	1	ELASTIC
N 28-NI-NAT	2	1	1.500	0 1.500	0 67 3394	1	ELASTIC
28-NI-NAT	2	1	1.770	0 2.760	0 70 2890	5	ELASTIC
28-NI-NAT	2	1	2.000	0 2.000	0 65 1509	1	ELASTIC
28-NI-NAT	2	1	3.000	0 8.050	0 69 2890	7	ELASTIC
28-NI-NAT	2	1	3.660	0 3.660	0 59 559	1	ELASTIC
N 28-NI-NAT	2	1	4.340	0 8.560	0 74 3460	5	ELASTIC
28-NI-NAT	2	1	1.400	1 1.400	1 63 847	1	ELASTIC
28-NI-NAT	2	1	1.410	1 1.410	1 67 2341	1	ELASTIC
N 28-NI-NAT	2	1	1.460	1 1.460	1 74 3536	1	ELASTIC
28-NI-NAT	3	1	1.000	0 7.000	0 56 151	3	NONELASTIC
28-NI-NAT	3	1	1.500	0 2.400	0 62 707	6	NONELASTIC
28-NI-NAT	3	1	2.500	0 2.500	0 56 34	1	NONELASTIC
28-NI-NAT	3	1	2.500	0 1.400	1 55 790	3	NONELASTIC
28-NI-NAT	3	1	3.500	0 1.410	1 55 130	5	NONELASTIC
28-NI-NAT	3	1	3.660	0 3.660	0 59 559	1	NONELASTIC
28-NI-NAT	3	1	4.000	0 4.500	0 55 122	2	NONELASTIC
28-NI-NAT	3	1	1.410	1 1.410	1 57 199	1	NONELASTIC
28-NI-NAT	3	1	1.420	1 1.420	1 57 319	1	NONELASTIC
28-NI-NAT	3	1	3.790	2 1.731	3 71 3264	15	NONELASTIC
28-NI-NAT	5	1	6.000	2 1.450	0 56 231	18	TOTAL SCATTERING
28-NI-NAT	6	1	1.400	1 1.400	1 61 883	1	NONELASTIC EMISSION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-108 ***

ZA = 28000

07.04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 28000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
28-NI-NAT	102		1.000+ 0	1.550+ 0	55 1495	3	ELASTIC
28-NI-NAT	102		1.770+ 0	2.760+ 0	70 2890	90	ELASTIC
28-NI-NAT	102		2.010+ 0	3.260+ 0	66 2589	36	ELASTIC
28-NI-NAT	102		2.900+ 0	2.900+ 0	60 920	9	ELASTIC
28-NI-NAT	102		3.000+ 0	8.050+ 0	69 2890	112	ELASTIC
28-NI-NAT	102		3.200+ 0	3.200+ 0	66 2950	12	ELASTIC
28-NI-NAT	102		3.650+ 0	3.650+ 0	59 559	22	ELASTIC
28-NI-NAT	102		4.070+ 0	8.560+ 0	74 3460	115	ELASTIC
28-NI-NAT	102		4.370+ 0	4.370+ 0	71 4022	15	ELASTIC
28-NI-NAT	102		4.400+ 0	4.400+ 0	56 1827	1	ELASTIC
28-NI-NAT	102		5.000+ 0	5.000+ 0	58 322	17	ELASTIC
28-NI-NAT	102		8.970+ 0	8.970+ 0	75 3585	17	ELASTIC
28-NI-NAT	102		1.400+ 1	1.400+ 1	63 947	32	ELASTIC
28-NI-NAT	102		1.400+ 1	1.400+ 1	65 97	10	ELASTIC
28-NI-NAT	102		1.410+ 1	1.410+ 1	62 2320	27	ELASTIC
28-NI-NAT	102		1.410+ 1	1.410+ 1	67 2341	33	ELASTIC
28-NI-NAT	102		1.460+ 1	1.460+ 1	73 3536	10	ELASTIC
28-NI-NAT	102		1.470+ 1	1.470+ 1	58 1036	20	ELASTIC
28-NI-NAT	104	10	1.436+ 1	1.436+ 1	72 4072	5	NEUTRON EMISSION
28-NI-NAT	105		6.800+ 0	1.440+ 0	56 231	40	TOTAL SCATTERING
28-NI-NAT	111		4.400+ 0	4.400+ 0	56 1827	1	N,N'
28-NI-NAT	111		1.460+ 1	1.460+ 1	73 3536	1	N,N'
28-NI-NAT	111	1	2.010+ 0	4.490+ 0	66 2589	43	N,N'
28-NI-NAT	111	1	4.070+ 0	8.560+ 0	74 3460	96	N,N'
28-NI-NAT	111	1	4.370+ 0	4.370+ 0	71 4022	10	N,N'
28-NI-NAT	111	1	8.970+ 0	8.970+ 0	75 3585	17	N,N'
28-NI-NAT	111	1	1.400+ 1	1.400+ 1	65 97	13	N,N'
28-NI-NAT	111	1	1.410+ 1	1.410+ 1	67 2341	18	N,N'
28-NI-NAT	111	8	2.450+ 0	2.450+ 0	58 476	1	N,N'
28-NI-NAT	111	10	1.436+ 1	1.436+ 1	72 4072	20	N,N'
28-NI-NAT	111	88	2.450+ 0	2.450+ 0	56 476	9	N,N'
28-NI-NAT	123	10	9.000+ 1	8.300+ 0	68 3359	10	N,X GAMMA
28-NI-NAT	124	7	4.100+ 0	4.100+ 0	63 1728	5	N,X GAMMA
28-NI-NAT	124	7	1.400+ 1	1.400+ 1	74 3544	47	N,X GAMMA
28-NI-NAT	124	7	1.510+ 1	1.510+ 1	69 3662	9	N,X GAMMA
28-NI-NAT	124	10	4.100+ 0	4.100+ 0	63 1728	6	N,X GAMMA
28-NI-NAT	124	10	1.480+ 1	1.480+ 1	69 1019	19	N,X GAMMA
28-NI-NAT	124	10	1.484+ 1	1.484+ 1	62 1724	9	N,X GAMMA
28-NI-NAT	127		1.440+ 1	1.440+ 1	62 688	6	N,X P
28-NI-NAT	204		1.436+ 1	1.436+ 1	72 4072	51	NEUTRON EMISSION
28-NI-NAT	211		1.460+ 1	1.460+ 1	73 3536	8	N,N'
28-NI-NAT	304		1.436+ 1	1.436+ 1	72 4072	204	NEUTRON EMISSION
28-NI-NAT	304		1.469+ 1	1.490+ 1	74 4002	426	NEUTRON EMISSION
28-NI-NAT	311	80	1.410+ 1	1.410+ 1	65 1908	40	N,N'
28-NI-NAT	324		4.000+ 0	7.500+ 0	70 1497	46	N,X GAMMA
28-NI-NAT	406		1.420+ 1	1.420+ 1	58 905	1	NONELASTIC EMISSION
28-NI-NAT	426		1.400+ 1	1.400+ 1	57 391	1	N,P
28-NI-NAT	452		2.000+ 2	6.400+ 1	73 3543	252	ELASTIC
28-NI-NAT	452		3.170+ 1	1.456+ 0	66 885	364	ELASTIC
28-NI-NAT	521		4.900+ 7	1.500+ 1	57 1054	1	ABSORPTION
28-NI-NAT	521		5.000+ 7	1.500+ 1	65 819	1	ABSORPTION
28-NI-NAT	521		5.500+ 7	1.500+ 1	66 1491	1	ABSORPTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-110 ***

ZA = 28000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 28000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
28-NI-NAT	606		1.480+ 1	1.480+ 1	66 1042	19	NONELASTIC EMISSION
28-NI-NAT	624		3.500+ 0	6.500+ 0	64 1671	45	N,X GAMMA
28-NI-NAT	624		1.500+ 1	1.500+ 1	60 1720	6	N,X GAMMA
28-NI-NAT	626		1.400+ 1	1.400+ 1	57 391	8	N,P
28-NI-NAT			1.400+ 1	1.400+ 1	61 883	1	NUCLEAR TEMPERATURE
28-NI-NAT			1.400+ 1	1.400+ 1	65 985	3	NUCLEAR TEMPERATURE
28-NI-NAT			1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
28-NI-NAT			1.480+ 1	1.480+ 1	67 2897	2	NUCLEAR TEMPERATURE
C 28-NI-NAT			8.000- 3	5.000- 2	68 3301	2	AVERAGE RESONANCE PARAMETERS
28-NI-NAT			2.300- 3	2.300- 3	63 896	1	RESONANCE PARAMETERS
28-NI-58	1		1.440- 6	1.440- 6	65 949	1	TOTAL
28-NI-58	1		1.500- 3	2.720- 1	59 534	177	TOTAL
28-NI-58	1		9.000- 2	6.510- 1	62 751	1119	TOTAL
28-NI-58	1		2.700+ 0	2.700+ 0	67 1527	1	TOTAL
28-NI-58	1		5.050+ 0	5.530+ 0	71 3214	2	TOTAL
28-NI-58	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
28-NI-58	2		5.050+ 0	5.530+ 0	71 3214	2	ELASTIC
N 28-NI-58	11		1.510+ 1	1.510+ 1	69 3662	1	N,N'
28-NI-58	11	1	1.420+ 0	1.790+ 0	71 3243	4	N,N'
N 28-NI-58	11	1	1.460+ 0	1.645+ 0	71 4033	13	N,N'
28-NI-58	11	1	5.050+ 0	5.580+ 0	71 3214	8	N,N'
N 28-NI-58	11	7	1.500+ 0	4.100+ 0	63 865	50	N,N'
N 28-NI-58	11	7	3.430+ 0	5.423+ 0	75 3566	23	N,N'
28-NI-58	12		1.215+ 1	1.975+ 1	60 588	10	N,2N
28-NI-58	12		1.255+ 1	2.100+ 1	63 374	8	N,2N
28-NI-58	12		1.298+ 1	1.958+ 1	65 892	25	N,2N
28-NI-58	12		1.330+ 1	1.650+ 1	66 1910	7	N,2N
28-NI-58	12		1.372+ 1	1.479+ 1	68 1999	11	N,2N
28-NI-58	12		1.386+ 1	1.488+ 1	61 638	9	N,2N
28-NI-58	12		1.386+ 1	1.488+ 1	62 872	9	N,2N
28-NI-58	12		1.410+ 1	1.410+ 1	59 527	1	N,2N
28-NI-58	12		1.440+ 1	1.440+ 1	61 676	1	N,2N
28-NI-58	12		1.440+ 1	1.440+ 1	70 3834	1	N,2N
N 28-NI-58	12		1.450+ 1	1.450+ 1	53 27	1	N,2N
28-NI-58	12		1.450+ 1	1.450+ 1	62 1009	1	N,2N
C 28-NI-58	12		1.450+ 1	1.450+ 1	63 1009	1	N,2N
28-NI-58	12		1.450+ 1	1.450+ 1	69 2050	1	N,2N
28-NI-58	12		1.460+ 1	1.460+ 1	85 1672	1	N,2N
28-NI-58	12		1.460+ 1	1.480+ 1	69 2354	3	N,2N
28-NI-58	12		1.480+ 1	1.480+ 1	58 598	1	N,2N
28-NI-58	12		1.480+ 1	1.480+ 1	63 756	1	N,2N
28-NI-58	12		1.480+ 1	1.480+ 1	68 2711	1	N,2N
28-NI-58	12		1.540+ 1	1.540+ 1	67 2009	1	N,2N
N 28-NI-58	12	4	1.460+ 1	1.460+ 1	73 3988	1	N,2N
N 28-NI-58	12	4	1.621+ 1	2.805+ 1	75 3890	10	N,2N
28-NI-58	12	80	1.200+ 1	1.840+ 1	52 933	5	N,2N
N 28-NI-58	12	80	1.356+ 1	1.471+ 1	70 1672	24	N,2N
28-NI-58	14		1.386+ 1	1.498+ 1	61 698	9	N,N'P
28-NI-58	14		1.386+ 1	1.488+ 1	62 872	9	N,N'P
28-NI-58	14		1.400+ 1	1.400+ 1	57 217	1	N,N'P
28-NI-58	14		1.400+ 1	1.400+ 1	61 361	1	N,N'P
28-NI-58	14		1.410+ 1	1.410+ 1	59 527	1	N,N'P

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-111 ***

ZA = 28058

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 28058

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
28-NI-58	14		1.450*	1.450*	69 2050	1	N,N'P
28-NI-58	14		1.480*	1.480*	61 654	1	N,N'P
28-NI-58	18		1.410*	1.410*	65 899	1	N,N' ALPHA
28-NI-58	24	7	1.400*	2.000*	65 1023	7	N,X GAMMA
28-NI-58	26		9.110*	9.897*	73 3342	232	N,P
28-NI-58	26		9.900*	1.840*	71 3789	39	N,P
28-NI-58	26		1.040*	2.570*	63 768	11	N,P
28-NI-58	26		1.625*	1.480*	62 721	13	N,P
28-NI-58	26		1.840*	4.820*	62 875	13	N,P
28-NI-58	26		1.950*	1.708*	68 2340	16	N,P
28-NI-58	26		2.190*	3.640*	67 3287	6	N,P
28-NI-58	26		2.200*	1.479*	68 1999	18	N,P
28-NI-58	26		2.220*	3.550*	60 929	10	N,P
28-NI-58	26		2.240*	3.770*	63 762	36	N,P
28-NI-58	26		3.300*	3.300*	61 635	1	N,P
28-NI-58	26		8.400*	8.400*	65 1738	1	N,P
28-NI-58	26		1.295*	1.960*	66 1582	10	N,P
28-NI-58	26		1.330*	1.550*	66 1910	7	N,P
28-NI-58	26		1.339*	1.496*	67 1871	6	N,P
28-NI-58	26		1.355*	2.100*	63 374	7	N,P
28-NI-58	26		1.358*	1.473*	62 1008	3	N,P
28-NI-58	26		1.386*	1.488*	61 898	9	N,P
28-NI-58	26		1.395*	1.488*	62 872	9	N,P
28-NI-58	26		1.400*	1.400*	57 217	1	N,P
28-NI-58	26		1.400*	1.400*	61 361	1	N,P
28-NI-58	26		1.410*	1.410*	59 527	1	N,P
28-NI-58	26		1.410*	1.570*	60 837	2	N,P
28-NI-58	26		1.440*	1.440*	70 3834	1	N,P
28-NI-58	26		1.450*	1.450*	62 1008	1	N,P
28-NI-58	26		1.450*	1.501*	63 1009	1	N,P
28-NI-58	26		1.450*	1.450*	69 2030	1	N,P
28-NI-58	26		1.460*	1.460*	72 3427	1	N,P
28-NI-58	26		1.460*	1.480*	69 2354	3	N,P
28-NI-58	26		1.480*	1.480*	68 2711	1	N,P
28-NI-58	26		1.460*	1.460*	73 3987	1	N,P
28-NI-58	26		1.460*	1.495*	67 1871	6	N,P
28-NI-58	26		1.410*	1.410*	66 1768	1	N,P
28-NI-58	26		1.450*	1.450*	63 1009	1	N,P
28-NI-58	26		1.480*	1.480*	60 598	1	N,P
28-NI-58	26		1.480*	1.480*	69 4083	1	N,P
28-NI-58	26		1.410*	1.410*	66 1768	1	N,P
28-NI-58	26		1.480*	1.480*	60 598	1	N,P
28-NI-58	26		1.480*	1.480*	69 4083	1	N,P
28-NI-58	27		1.480*	1.480*	60 630	1	N,P
28-NI-58	34		1.460*	1.460*	61 654	1	N,P
28-NI-58	34		1.460*	1.460*	69 2710	2	N,P
28-NI-58	35		1.410*	1.410*	65 899	1	N,P
28-NI-58	36		1.372*	1.479*	68 1999	1	N,P
28-NI-58	36		1.420*	1.460*	72 3427	2	N,P
28-NI-58	36		1.440*	1.440*	70 3834	1	N,P
28-NI-58	36		1.450*	1.450*	62 1009	1	N,P
28-NI-58	36		1.450*	1.450*	63 1009	1	N,P

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

... 1-112 ...

ZA = 28058

ZA - 280591

ZA - 28050

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 28050

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
28-NI-60	102		5.050+0	5.580+0	71 3214	20	ELASTIC ANGULAR DISTRIBUTION
28-NI-60	102		6.440+0	8.560+0	70 3172	64	ELASTIC ANGULAR DISTRIBUTION
28-NI-60	111	1	2.010+0	4.490+0	66 2589	62	N,N' ANGULAR DISTRIBUTION
28-NI-60	111	1	2.330+0	2.330+0	67 2583	5	N,N' ANGULAR DISTRIBUTION
28-NI-60	111	1	2.900+0	2.900+0	72 4025	7	N,N' ANGULAR DISTRIBUTION
28-NI-60	111	1	4.070+0	5.500+0	74 3460	125	N,N' ANGULAR DISTRIBUTION
28-NI-60	111	1	5.050+0	5.580+0	71 3214	40	N,N' ANGULAR DISTRIBUTION
28-NI-60	111	1	6.440+0	8.560+0	70 3172	61	N,N' ANGULAR DISTRIBUTION
28-NI-60	111	7	8.300+0	8.800+0	73 3944	46	N,N' ANGULAR DISTRIBUTION
28-NI-60	111	8	5.050+0	5.580+0	71 3214	20	N,N' ANGULAR DISTRIBUTION
28-NI-60	111	8	6.440+0	8.560+0	70 3172	368	N,N' ANGULAR DISTRIBUTION
28-NI-60	126		1.350+1	1.350+1	58 440	14	N,P ANGULAR DISTRIBUTION
28-NI-60	211		6.440+0	8.560+0	70 3172	690	N,N' ENERGY DISTRIBUTION
28-NI-60	211		7.000+0	7.000+0	67 1883	20	N,N' ENERGY DISTRIBUTION
28-NI-60			0.000+0	8.000-2	71 3108	2	AVERAGE RESONANCE PARAMETERS
28-NI-60			0.000+0	1.950-1	71 2079	2	AVERAGE RESONANCE PARAMETERS
28-NI-60			0.000+0	2.300-1	61 728	2	AVERAGE RESONANCE PARAMETERS
28-NI-60			0.000+0	6.000-1	66 1048	1	AVERAGE RESONANCE PARAMETERS
28-NI-60			1.292-3	3.395-1	71 3108	14	RESONANCE PARAMETERS
28-NI-60			1.294-3	9.720-2	69 2942	24	RESONANCE PARAMETERS
28-NI-60			1.240-2	1.960-1	71 2079	12	RESONANCE PARAMETERS
28-NI-60			1.250-2	6.550-2	70 3068	3	RESONANCE PARAMETERS
28-NI-60			1.470-2	1.980-1	61 728	36	RESONANCE PARAMETERS
28-NI-60			9.650-2	5.948-1	66 1048	86	RESONANCE PARAMETERS
28-NI-61	1		6.945-3	6.904-2	70 3658	1578	TOTAL
28-NI-61	14	3	1.480+1	1.480+1	58 598	1	N,N,P
28-NI-61	26		3.300+0	3.300+0	61 655	1	N,P
28-NI-61	26		1.400+1	1.400+1	58 278	1	N,P
28-NI-61	26		1.410+1	1.410+1	62 868	1	N,P
28-NI-61	28		1.450+1	1.450+1	53 27	1	N,P
28-NI-61	26		1.450+1	1.450+1	62 1009	1	N,P
28-NI-61	26		1.450+1	1.450+1	63 1009	1	N,P
28-NI-61	26		1.460+1	1.460+1	72 3427	1	N,P
28-NI-61	26		1.480+1	1.480+1	60 598	1	N,P
28-NI-61	26	3	1.480+1	1.480+1	69 4083	1	N,P
28-NI-61	34		2.530-8	2.530-8	75 3910	1	N,ALPHA
28-NI-61	34	1	1.460+1	1.460+1	59 2710	2	N,ALPHA
28-NI-61	73		2.500-2	2.500-3	52 342	1	N,GAMMA
28-NI-61	76		1.000+0	1.000+0	72 3725	1	N,P
28-NI-61	84		2.500-8	2.500-8	58 900	1	N,ALPHA
28-NI-61			2.000+3	3.000+2	65 924	2	AVERAGE RESONANCE PARAMETERS
28-NI-61			7.000+3	6.900+2	70 3658	9	AVERAGE RESONANCE PARAMETERS
28-NI-61			1.354+3	8.860+2	69 2942	38	RESONANCE PARAMETERS
28-NI-61			6.970+3	4.840+2	65 924	38	RESONANCE PARAMETERS
28-NI-61			7.152+3	6.877+2	70 3658	76	RESONANCE PARAMETERS
28-NI-61			7.160+3	3.710+2	70 3088	14	RESONANCE PARAMETERS
28-NI-62	1		1.200+3	2.900+2	53 266	13	TOTAL
28-NI-62	1		3.000+2	7.900+2	66 751	50	TOTAL
28-NI-62	1		8.000+2	6.560+1	63 751	1209	TOTAL
28-NI-62	1		4.000+0	4.000+0	67 1843	1	TOTAL
28-NI-62	1		1.420+1	1.420+1	67 1869	1	TOTAL
28-NI-62	2		4.000+0	4.000+0	64 1843	1	ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-115 ***

ZA = 28062

07/04/75

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 28062

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 28-NI-62	11		1.510+ 1	1.510+ 1	69 3662	1	N,N'
28-NI-62	11		1.340+ 0	1.790+ 0	71 3243	5	N,N'
28-NI-62	11	7	3.430+ 0	5.423+ 0	75 3566	4	N,N'
28-NI-62	14		1.410+ 1	1.410+ 1	62 868	1	N,N'P
28-NI-62	14		1.480+ 1	1.480+ 1	60 598	1	N,N'P
28-NI-62	26		1.420+ 1	1.460+ 1	72 3427	2	N,P
28-NI-62	26		1.450+ 1	1.450+ 1	62 1009	1	N,P
28-NI-62	26		1.450+ 1	1.450+ 1	63 1009	1	N,P
28-NI-62	26	3	1.410+ 1	1.410+ 1	62 868	2	N,P
28-NI-62	26	3	1.410+ 1	1.410+ 1	66 1768	1	N,P
28-NI-62	26	3	1.450+ 1	1.450+ 1	63 1009	1	N,P
28-NI-62	26	3	1.480+ 1	1.480+ 1	60 598	2	N,P
28-NI-62	26	3	1.480+ 1	1.480+ 1	69 4083	2	N,P
28-NI-62	34		1.410+ 1	1.410+ 1	67 1780	1	N, ALPHA
28-NI-62	34		1.480+ 1	1.420+ 1	68 4071	1	N, ALPHA
28-NI-62	36		1.450+ 1	1.450+ 1	63 1009	1	ACTIVATION
28-NI-62	41		7.300+ 8	7.300+ 8	51 1584	1	BOUND ATOM
28-NI-62	43		7.300+ 8	7.300+ 8	51 1584	1	COHERENT SCATTERING
28-NI-62	73		2.500+ 8	2.500+ 8	52 342	1	N, GAMMA
28-NI-62	73		2.530+ 8	2.530+ 8	73 3750	1	N, GAMMA
28-NI-62	73	7	2.530+ 8	2.530+ 8	71 3983	16	N, GAMMA
28-NI-62	73	87	2.530+ 8	2.530+ 8	72 3700	5	N, GAMMA
28-NI-62	76		1.000+ 0	1.000+ 0	72 3725	1	N,P
28-NI-62	102		2.900+ 0	2.900+ 0	72 4025	8	ELASTIC
28-NI-62	102		4.000+ 0	4.000+ 0	64 1643	16	ELASTIC
28-NI-62	111	1	2.010+ 0	2.650+ 0	65 2589	18	N,N'
28-NI-62	111	1	2.900+ 0	2.900+ 0	72 4025	7	N,N'
28-NI-62	224	80	2.000+ 3	2.000+ 3	72 4050	5	N, X GAMMA
28-NI-62			0.000+ 0	1.485+ 1	71 2079	2	AVERAGE RESONANCE PARAMETERS
28-NI-62			0.000+ 0	6.000+ 1	66 1048	1	AVERAGE RESONANCE PARAMETERS
28-NI-62			2.340+ 3	4.600+ 3	69 2942	3	RESONANCE PARAMETERS
28-NI-62			4.200+ 3	4.200+ 3	52 3027	3	RESONANCE PARAMETERS
28-NI-62			4.540+ 3	1.485+ 1	71 2079	5	RESONANCE PARAMETERS
28-NI-62			6.000+ 3	5.995+ 1	66 1048	101	RESONANCE PARAMETERS
28-NI-64			9.000+ 2	6.500+ 1	63 751	1143	TOTAL
28-NI-64	14		1.420+ 1	1.420+ 1	67 1869	1	N,N'P
28-NI-64	14		1.480+ 1	1.480+ 1	60 598	1	N,N'P
28-NI-64	14	3	1.410+ 1	1.410+ 1	62 868	1	N,N'P
28-NI-64	23		2.530+ 8	2.530+ 8	47 888	1	N, GAMMA
28-NI-64	23		2.100+ 2	2.100+ 2	57 23	1	N, GAMMA
28-NI-64	23		1.760+ 1	1.954+ 0	65 973	18	N, GAMMA
28-NI-64	23		2.000+ 1	4.000+ 0	58 363	2	N, GAMMA
28-NI-64	26	3	1.410+ 1	1.410+ 1	62 868	2	N,P
28-NI-64	26	3	1.480+ 1	1.480+ 1	60 598	2	N,P
28-NI-64	34		1.480+ 1	1.480+ 1	68 4071	1	N, ALPHA
28-NI-64	73		2.500+ 8	2.500+ 8	49 2742	1	N, GAMMA
28-NI-64	73		2.500+ 8	2.500+ 8	60 909	1	N, GAMMA
28-NI-64	73	7	2.530+ 8	2.530+ 8	71 3983	8	N, GAMMA
28-NI-64	73	81	2.530+ 8	2.530+ 8	71 3983	1	N, GAMMA
28-NI-64	73	87	2.530+ 8	2.530+ 8	71 3715	14	N, GAMMA
28-NI-64	73	87	2.530+ 8	2.530+ 8	71 3983	8	N, GAMMA
28-NI-64	111	1	2.010+ 0	3.260+ 0	66 1551	36	ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-116 ***

ZA = 28064

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
29-CU-NAT	1		3.790+ 2	1.731+ 3	71 3264	15	TOTAL
29-CU-NAT	1		1.400+ 3	1.400+ 3	55 2056	1	TOTAL
29-CU-NAT	1		3.800+ 3	3.800+ 3	70 3195	1	TOTAL
29-CU-NAT	1		5.000+ 3	5.000+ 3	61 1566	1	TOTAL
29-CU-NAT	1		5.700+ 3	5.700+ 3	69 3160	1	TOTAL
29-CU-NAT	1		8.300+ 3	8.300+ 3	62 1657	1	TOTAL
29-CU-NAT	1		1.200+ 4	2.650+ 4	71 3180	4	TOTAL
29-CU-NAT	1		2.700+ 4	2.700+ 4	68 2350	1	TOTAL
N 29-CU-NAT	1		3.400+ 4	2.730+ 5	74 3618	7	TOTAL
29-CU-NAT	1	9	3.090-10	6.240- 9	55 2057	77	TOTAL
29-CU-NAT	1	9	3.460-10	2.064- 9	66 2052	11	TOTAL
29-CU-NAT	1	13	1.492- 6	2.827- 3	66 2054	1992	TOTAL
29-CU-NAT	2		3.000- 1	1.500+ 0	68 885	26	ELASTIC
29-CU-NAT	2		5.000- 1	8.000- 1	64 886	2	ELASTIC
N 29-CU-NAT	2		8.768- 1	8.768- 1	72 3546	1	ELASTIC
29-CU-NAT	2		1.000+ 0	1.000+ 0	54 103	1	ELASTIC
29-CU-NAT	2		1.460+ 0	8.050+ 0	59 2890	10	ELASTIC
N 29-CU-NAT	2		1.500+ 0	1.500+ 0	67 3394	1	ELASTIC
29-CU-NAT	2		2.000+ 0	2.000+ 0	85 1509	1	ELASTIC
29-CU-NAT	2		2.900+ 0	2.900+ 0	57 416	1	ELASTIC
29-CU-NAT	2		3.660+ 0	3.660+ 0	59 559	1	ELASTIC
29-CU-NAT	2		1.450+ 1	1.450+ 1	58 403	1	ELASTIC
N 29-CU-NAT	3		9.600- 1	9.600- 1	66 3863	1	NONELASTIC
29-CU-NAT	3		1.000+ 0	4.500+ 0	55 122	3	NONELASTIC
29-CU-NAT	3		1.020+ 0	1.020+ 0	56 353	1	NONELASTIC
29-CU-NAT	3		1.200+ 0	2.000+ 0	56 164	3	NONELASTIC
29-CU-NAT	3		2.500+ 0	2.500+ 0	56 34	1	NONELASTIC
29-CU-NAT	3		2.500+ 0	7.000+ 0	56 151	2	NONELASTIC
29-CU-NAT	3		2.500+ 0	1.400+ 1	55 790	4	NONELASTIC
29-CU-NAT	3		3.500+ 0	1.10+ 1	55 130	5	NONELASTIC
29-CU-NAT	3		3.660+ 0	3.660+ 0	55 559	1	NONELASTIC
29-CU-NAT	3		7.200+ 0	1.400+ 1	57 24	6	NONELASTIC
29-CU-NAT	3		8.100+ 0	8.100+ 0	65 1228	1	NONELASTIC
29-CU-NAT	3		8.200+ 0	2.000+ 1	59 540	6	NONELASTIC
29-CU-NAT	3		1.398+ 1	1.398+ 1	63 766	1	NONELASTIC
29-CU-NAT	3		1.400+ 1	1.400+ 1	58 877	1	NONELASTIC
29-CU-NAT	3		1.410+ 1	1.410+ 1	55 117	1	NONELASTIC
29-CU-NAT	3		1.415+ 1	1.415+ 1	52 82	1	NONELASTIC
29-CU-NAT	3		1.420+ 1	1.420+ 1	57 319	1	NONELASTIC
29-CU-NAT	3		1.450+ 1	1.450+ 1	56 200	1	NONELASTIC
29-CU-NAT	3		1.470+ 1	1.470+ 1	63 1271	1	NONELASTIC
29-CU-NAT	3		1.480+ 1	1.480+ 1	67 1656	1	NONELASTIC
29-CU-NAT	3		1.610+ 1	1.970+ 1	61 706	2	NONELASTIC
29-CU-NAT	3		2.100+ 1	2.920+ 1	58 356	3	NONELASTIC
29-CU-NAT	3		5.500+ 1	1.400+ 2	56 312	4	NONELASTIC
29-CU-NAT	3		3.790+ 2	1.731+ 3	71 3264	15	NONELASTIC
29-CU-NAT	3		1.400+ 3	1.400+ 3	55 2056	1	NONELASTIC
29-CU-NAT	3		5.000+ 3	5.000+ 3	61 1566	1	NONELASTIC
29-CU-NAT	3		8.300+ 3	8.300+ 3	62 1657	1	NONELASTIC
N 29-CU-NAT	4		1.436+ 1	1.436+ 1	72 4072	1	NEUTRON EMISSION
29-CU-NAT	5		5.000- 2	2.250+ 0	60 571	31	TOTAL SCATTERING
29-CU-NAT	5		6.000- 2	1.449+ 0	56 231	19	TOTAL SCATTERING

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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** 1-118 **

ZA = 29000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 29000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	29-CU-NAT	11	2.800+ 0	2.800+ 0	69 3400	1	N,N'
	29-CU-NAT	11	5.000+ 0	7.000+ 0	63 836	2	N,N'
N	29-CU-NAT	11	1.436+ 1	1.436+ 1	72 4072	1	N,N'
	29-CU-NAT	12	1.406+ 1	1.406+ 1	2 69 2519	1	N,N'
	29-CU-NAT	12	1.410+ 1	1.410+ 1	58 7	1	N,2N
	29-CU-NAT	12	1.420+ 1	1.420+ 1	57 8	1	N,2N
N	29-CU-NAT	12	1.436+ 1	1.436+ 1	72 4072	1	N,2N
	29-CU-NAT	14	1.400+ 1	1.400+ 1	59 2053	1	N,N,P
	29-CU-NAT	21	2.530- 8	2.530- 8	58 404	1	ABSORPTION
	29-CU-NAT	21	2.510- 8	2.530- 8	58 1162	1	ABSORPTION
	29-CU-NAT	21	2.520- 8	2.530- 8	60 2570	1	ABSORPTION
	29-CU-NAT	21	2.530- 8	2.530- 8	61 2569	1	ABSORPTION
	29-CU-NAT	21	2.530- 8	2.530- 8	66 1491	1	ABSORPTION
N	29-CU-NAT	21	2.530- 8	2.530- 8	68 3468	1	ABSORPTION
	29-CU-NAT	21	2.400- 2	2.400- 2	65 1364	1	ABSORPTION
	29-CU-NAT	21	2.400- 2	2.400- 2	66 1541	1	ABSORPTION
	29-CU-NAT	21	2.400- 2	2.400- 2	66 1541	1	ABSORPTION
N	29-CU-NAT	23	2.530- 8	2.700- 7	70 3627	3	ABSORPTION
	29-CU-NAT	23	1.900- 5	4.800- 2	63 896	5	N,GAMMA
	29-CU-NAT	23	1.900- 2	1.000+ 0	63 890	66	N,GAMMA
	29-CU-NAT	23	2.400- 2	2.400- 2	60 639	16	N,GAMMA
	29-CU-NAT	23	3.000- 2	6.500- 2	61 677	1	N,GAMMA
	29-CU-NAT	23	3.000- 2	6.500- 2	63 1	2	N,GAMMA
	29-CU-NAT	23	1.750- 1	1.000+ 0	60 674	7	N,GAMMA
	29-CU-NAT	23	2.000- 1	2.000- 1	59 363	1	N,GAMMA
N	29-CU-NAT	23	1.410+ 1	1.410+ 1	70 2232	1	N,GAMMA
	29-CU-NAT	24	2.250+ 0	2.900+ 0	41 194	7	N,X GAMMA
	29-CU-NAT	24	1.420+ 1	1.420+ 1	53 294	1	N,X GAMMA
	29-CU-NAT	24	7 1.680- 1	1.382+ 0	67 1897	22	N,X GAMMA
	29-CU-NAT	24	7 2.500+ 0	2.500+ 0	52 284	2	N,X GAMMA
	29-CU-NAT	24	7 2.560+ 0	2.560+ 0	56 140	11	N,X GAMMA
	29-CU-NAT	24	7 3.200+ 0	3.200+ 0	54 113	4	N,X GAMMA
	29-CU-NAT	24	7 1.400+ 1	1.400+ 1	61 850	3	N,X GAMMA
	29-CU-NAT	24	7 1.420+ 1	1.420+ 1	53 294	2	N,X GAMMA
	29-CU-NAT	24 10	1.400+ 1	1.400+ 1	60 1721	3	N,X GAMMA
	29-CU-NAT	24 10	1.410+ 1	1.410+ 1	63 1723	1	N,X GAMMA
	29-CU-NAT	27	1.400+ 1	1.400+ 1	58 441	1	N,X P
	29-CU-NAT	27	1.400+ 1	1.400+ 1	59 1840	1	N,X P
N	29-CU-NAT	30	1.470+ 1	1.470+ 1	73 3998	1	N,T
	29-CU-NAT	41	7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
	29-CU-NAT	43	2.530- 8	2.530- 8	58 2555	1	COHERENT SCATTERING
	29-CU-NAT	43	6.070- 8	6.070- 8	62 915	1	COHERENT SCATTERING
	29-CU-NAT	44	7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING
	29-CU-NAT	48	0.000+ 0	0.000+ 0	58 404	1	INCOHERENT SCATTER.
	29-CU-NAT	61	1.400+ 1	1.400+ 1	58 877	1	ETA
N	29-CU-NAT	71	1.000+ 0	1.000+ 0	70 3425	7	N,N'
	29-CU-NAT	71	2.500- 8	2.500- 8	50 1623	1	ABSORPTION
	29-CU-NAT	71	2.500- 8	2.500- 8	50 1794	1	ABSORPTION
	29-CU-NAT	71	2.500- 8	2.500- 8	51 882	1	ABSORPTION
	29-CU-NAT	71	2.500- 8	2.500- 8	51 1619	1	ABSORPTION
	29-CU-NAT	71	2.500- 8	2.500- 8	57 1478	1	ABSORPTION
	29-CU-NAT	71	2.500- 8	2.500- 8	63 2558	1	ABSORPTION
TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION

SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION

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ZA = 29000

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION	DESCRIPTION
N	29-CU-NAT	73		2.530-8	2.530-8	71 4006	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
N	29-CU-NAT	73	7	2.530-8	2.530-8	70 2415	130	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
N	29-CU-NAT	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA	SPECTRUM AVERAGED CROSS SECTION
N	29-CU-NAT	85		2.000-0	2.000-0	70 3383	1	N,X ALPHA	SPECTRUM AVERAGED CROSS SECTION
N	29-CU-NAT	102		5.000-2	8.300-1	60 571	148	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		5.000-1	6.000-1	64 886	16	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		5.000-1	1.550-0	55 1495	2	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		6.720-1	1.232-0	63 1986	552	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		8.000-1	2.800-0	61 1257	47	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		8.768-1	8.768-1	72 3546	8	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		1.000-0	1.000-0	54 103	9	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		1.330-0	8.400-0	71 3404	153	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		1.460-0	8.050-0	69 2890	149	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		1.710-0	2.240-0	70 3776	26	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		2.000-0	2.800-0	58 1044	9	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		2.900-0	2.900-0	57 416	7	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		3.200-0	3.200-0	66 2950	14	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		3.300-0	3.300-0	56 553	9	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		3.650-0	3.650-0	59 589	24	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		5.000-0	5.000-0	58 398	13	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		5.000-0	7.000-0	63 836	2	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		7.550-0	7.550-0	73 3614	6	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		9.200-0	9.200-0	71 4041	1	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		1.400-1	1.400-1	61 1263	3	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		1.450-1	1.450-1	58 403	46	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		1.450-1	1.450-1	59 556	43	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		1.460-1	1.460-1	59 566	15	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		1.470-1	1.470-1	58 1036	25	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		1.500-1	1.500-1	61 1262	17	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		8.400-1	8.400-1	50 1748	12	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		9.600-1	9.600-1	60 1045	6	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		1.360-2	1.360-2	56 1047	13	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	102		3.515-2	3.515-2	58 1655	9	ELASTIC	ANGULAR DISTRIBUTION
N	29-CU-NAT	105		8.300-1	2.250-0	60 571	100	TOTAL SCATTERING	ANGULAR DISTRIBUTION
N	29-CU-NAT	111		1.450-1	1.450-1	58 403	26	N,N'	ANGULAR DISTRIBUTION
N	29-CU-NAT	111	1	2.450-0	2.450-0	56 476	5	N,N'	ANGULAR DISTRIBUTION
N	29-CU-NAT	111	7	3.110-0	4.720-0	71 1727	62	N,N'	ANGULAR DISTRIBUTION
N	29-CU-NAT	111	8	2.240-0	2.240-0	70 3776	13	N,N'	ANGULAR DISTRIBUTION
N	29-CU-NAT	111	10	1.436-1	1.436-1	72 4072	25	N,N'	ANGULAR DISTRIBUTION
N	29-CU-NAT	124		7.1000-0	1.700-0	63 1728	2	N,X GAMMA	ANGULAR DISTRIBUTION
N	29-CU-NAT	124		7.1250-0	1.850-1	73 3557	354	N,X GAMMA	ANGULAR DISTRIBUTION
N	29-CU-NAT	124	7	7.1400-0	1.410-0	74 3544	4	N,X GAMMA	ANGULAR DISTRIBUTION
N	29-CU-NAT	124	7	7.1510-0	1.510-0	69 3662	13	N,X GAMMA	ANGULAR DISTRIBUTION
N	29-CU-NAT	204		1.436-1	1.436-1	72 4072	51	NEUTRON EMISSION	ENERGY DISTRIBUTION
N	29-CU-NAT	224		1.410-1	1.410-1	69 2232	25	N,X GAMMA	ENERGY DISTRIBUTION
N	29-CU-NAT	304		1.436-1	1.436-1	72 4072	255	NEUTRON EMISSION	DIFF. ENERGY-ANGLE DISTRIBUTION
N	29-CU-NAT	304		1.470-1	1.490-1	74 4002	426	NEUTRON EMISSION	DIFF. ENERGY-ANGLE DISTRIBUTION
N	29-CU-NAT	311		9.200-0	9.200-0	71 4041	1	N,N'	DIFF. ENERGY-ANGLE DISTRIBUTION
N	29-CU-NAT	311	80	9.200-0	9.200-0	71 4041	60	N,N'	DIFF. ENERGY-ANGLE DISTRIBUTION
N	29-CU-NAT	311	80	1.410-1	1.410-1	65 1908	41	N,N'	DIFF. ENERGY-ANGLE DISTRIBUTION
N	29-CU-NAT	324		1.250-0	1.850-1	73 3557	2059	N,X GAMMA	DIFF. ENERGY-ANGLE DISTRIBUTION
N	29-CU-NAT	403		1.410-1	1.410-1	53 2028	1	NONELASTIC	INTEGRAL E1-E2

[illegible]

... 1-120 ...

ZA - 29000

07/04/78

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 29000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
29-CU-NAT	406		1.420+ 1	1.420+ 1	58 905	1	NONELASTIC EMISSION INTEGRAL E1-E2
29-CU-NAT	426		1.400+ 1	1.400+ 1	57 391	1	N,P INTEGRAL E1-E2
29-CU-NAT	452		3.000- 1	1.500+ 0	66 885	104	ELASTIC LEGENDRE EXPANSIONS OF ANGULAR DIST.
C 29-CU-NAT	521		4.300+ 7	1.500+ 1	57 1084	1	ABSORPTION RESONANCE INTEGRAL
C 29-CU-NAT	521		5.000- 7	1.500+ 1	58 1162	1	ABSORPTION RESONANCE INTEGRAL
C 29-CU-NAT	521		5.000- 7	1.500+ 1	60 897	1	ABSORPTION RESONANCE INTEGRAL
C 29-CU-NAT	521		5.500- 7	1.500+ 1	66 1491	1	ABSORPTION RESONANCE INTEGRAL
N 29-CU-NAT	523		5.500- 7	1.500+ 1	71 4005	1	N,GAMMA RESONANCE INTEGRAL
29-CU-NAT	606		1.480+ 1	1.480+ 1	66 1042	18	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
C 29-CU-NAT	624		1.500+ 1	1.500+ 1	60 1720	6	N,X GAMMA ANGULAR DIST.-INTEGRAL E1-E2
29-CU-NAT	626		1.400+ 1	1.400+ 1	57 391	8	N,P ANGULAR DIST.-INTEGRAL E1-E2
N 29-CU-NAT			9.200+ 0	9.200+ 0	71 4041	1	NUCLEAR TEMPERATURE
29-CU-NAT			1.400+ 1	1.400+ 1	65 965	3	NUCLEAR TEMPERATURE
29-CU-NAT			1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
29-CU-NAT			1.430+ 1	1.430+ 1	69 2360	2	NUCLEAR TEMPERATURE
29-CU-NAT			1.480+ 1	1.480+ 1	67 2897	2	NUCLEAR TEMPERATURE
C 29-CU-NAT			0.000+ 0	1.500- 2	66 1672	1	AVERAGE RESONANCE PARAMETERS
C 29-CU-NAT			0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C 29-CU-NAT			3.000- 3	6.500- 1	64 1226	2	AVERAGE RESONANCE PARAMETERS
29-CU-NAT			2.290- 4	9.940- 2	64 814	94	RESONANCE PARAMETERS
29-CU-59	84		2.000+ 0	2.000+ 0	67 1895	1	N,ALPHA SPECTRUM AVERAGED CROSS SECTION
29-CU-63	1		1.000- 3	9.700- 2	57 157	92	TOTAL
N 29-CU-63	1		3.980- 2	1.433- 1	68 3552	880	TOTAL
N 29-CU-63	1		1.420+ 1	1.420+ 1	72 4036	1	TOTAL
N 29-CU-63	2		5.500+ 0	8.500+ 0	74 3831	3	ELASTIC
N 29-CU-63	11		1.510+ 1	1.510+ 1	69 3662	1	N,N'
29-CU-63	11	1	6.816- 1	1.359+ 0	62 597	53	N,N'
29-CU-63	11	1	8.000- 1	1.201+ 0	63 828	5	N,N'
29-CU-63	11	1	1.000+ 0	1.500+ 0	64 885	30	N,N'
N 29-CU-63	11	1	5.500+ 0	8.500+ 0	74 3831	12	N,N'
29-CU-63	12		1.180+ 1	1.260+ 1	50 56	5	N,2N
29-CU-63	12		1.205+ 1	1.957+ 1	63 2063	18	N,2N
29-CU-63	12		1.205+ 1	1.680+ 1	59 601	4	N,2N
29-CU-63	12		1.230+ 1	1.615+ 1	62 770	4	N,2N
29-CU-63	12		1.24+ 1	1.795+ 1	59 602	7	N,2N
29-CU-63	12		1.260+ 1	1.958+ 1	65 1897	28	N,2N
29-CU-63	12		1.300+ 1	1.700+ 1	56 36	12	N,2N
29-CU-63	12		1.325+ 1	1.535+ 1	60 1720	8	N,2N
29-CU-63	12		1.386+ 1	1.477+ 1	62 872	5	N,2N
N 29-CU-63	12		1.387+ 1	1.740+ 1	68 4076	18	N,2N
29-CU-63	12		1.400+ 1	1.400+ 1	67 2009	1	N,2N
29-CU-63	12		1.410+ 1	1.410+ 1	52 84	1	N,2N
29-CU-63	12		1.410+ 1	1.410+ 1	61 651	1	N,2N
29-CU-63	12		1.410+ 1	1.410+ 1	64 2080	1	N,2N
29-CU-63	12		1.413+ 1	1.413+ 1	62 108	1	N,2N
29-CU-63	12		1.414+ 1	1.414+ 1	57 535	1	N,2N
29-CU-63	12		1.450+ 1	1.450+ 1	53 27	1	N,2N
29-CU-63	12		1.450+ 1	1.450+ 1	69 2050	1	N,2N
29-CU-63	12		1.450+ 1	2.710+ 1	52 83	5	N,2N
29-CU-63	12		1.460+ 1	1.460+ 1	60 695	1	N,2N
29-CU-63	12		1.460+ 1	1.460+ 1	65 1672	1	N,2N
29-CU-63	12		1.470+ 1	1.470+ 1	67 1921	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-121 ***

ZA = 29063

TARGET	CODE	S	E-MIN-NEV	F-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 29-CU-53	111	1	5.500+ 0	8.500+ 0	74 3831	45	N,N'
N 29-CU-53	119	1	1.480+ 1	1.480+ 1	63 2169	1	N,N' ALPHA
N 29-CU-53	120	7	1.430+ 1	1.430+ 1	67 1710	1	N,N' GAMMA
N 29-CU-53	121	1	1.408+ 1	1.408+ 1	65 2062	12	N,D
N 29-CU-53	128	1	1.410+ 1	1.410+ 1	67 1870	12	N,D
N 29-CU-53	134	1	1.400+ 1	1.400+ 1	70 3372	6	N,ALPHA
N 29-CU-53	134	1	1.420+ 1	1.420+ 1	72 3939	6	N,ALPHA
N 29-CU-53	134	1	1.480+ 1	1.480+ 1	63 2169	1	N,ALPHA
N 29-CU-53	523	1	5.000+ 7	1.400+ 1	63 1310	1	N,ALPHA
N 29-CU-53	523	1	5.000+ 7	1.500+ 1	61 2718	1	N,GAMMA
N 29-CU-53	871	1	2.500+ 8	2.500+ 8	50 2701	1	ABSORPTION
C 29-CU-53			0.000+ 0	6.000+ 2	65 924	2	AVERAGE RESONANCE PARAMETERS
C 29-CU-53			0.000+ 0	3.120+ 2	69 1817	2	RESONANCE PARAMETERS
C 29-CU-53			-1.001+ 4	5.800+ 4	63 896	2	RESONANCE PARAMETERS
C 29-CU-53			5.760+ 4	2.520+ 3	57 2024	5	RESONANCE PARAMETERS
C 29-CU-53			5.770+ 4	5.390+ 3	58 548	17	RESONANCE PARAMETERS
C 29-CU-53			5.770+ 4	2.282+ 2	64 814	76	RESONANCE PARAMETERS
C 29-CU-53			5.750+ 4	3.121+ 2	69 1817	55	RESONANCE PARAMETERS
C 29-CU-53			2.630+ 3	4.220+ 2	65 924	97	TOTAL
C 29-CU-53			1.000+ 3	5.700+ 2	68 3652	1152	TOTAL
C 29-CU-53			1.348+ 2	2.048+ 1	72 3935	1	ELASTIC
C 29-CU-53			5.520+ 1	8.520+ 0	72 3935	1	ELASTIC
C 29-CU-53			5.520+ 1	1.500+ 0	69 3652	1	ELASTIC
C 29-CU-53			1.100+ 0	1.500+ 0	64 895	17	N,N'
C 29-CU-53			1.100+ 0	1.500+ 0	74 3831	17	N,N'
C 29-CU-53			5.500+ 0	8.500+ 0	60 568	16	N,N'
C 29-CU-53			1.005+ 1	1.975+ 1	60 568	16	N,N'
C 29-CU-53			1.013+ 1	2.020+ 1	66 2065	28	N,N'
C 29-CU-53			1.260+ 1	1.790+ 1	63 340	12	N,N'
C 29-CU-53			1.260+ 1	1.958+ 1	65 892	27	N,N'
C 29-CU-53			1.310+ 1	1.310+ 1	67 2009	1	N,N'
C 29-CU-53			1.320+ 1	1.535+ 1	60 1720	8	N,N'
C 29-CU-53			1.320+ 1	1.870+ 1	63 417	10	N,N'
C 29-CU-53			1.410+ 1	1.410+ 1	52 84	1	N,N'
C 29-CU-53			1.410+ 1	1.410+ 1	61 651	1	N,N'
C 29-CU-53			1.420+ 1	1.460+ 1	64 3685	3	N,N'
C 29-CU-53			1.420+ 1	1.460+ 1	65 1777	2	N,N'
C 29-CU-53			1.440+ 1	1.440+ 1	61 676	1	N,N'
C 29-CU-53			1.450+ 1	1.450+ 1	53 27	1	N,N'
C 29-CU-53			1.450+ 1	1.450+ 1	60 629	1	N,N'
C 29-CU-53			1.450+ 1	1.450+ 1	61 589	1	N,N'
C 29-CU-53			1.460+ 1	1.480+ 1	65 1672	1	N,N'
C 29-CU-53			1.460+ 1	1.460+ 1	69 2354	1	N,N'
C 29-CU-53			1.470+ 1	1.470+ 1	64 1848	1	N,N'
C 29-CU-53			1.470+ 1	1.470+ 1	68 2795	1	N,N'
C 29-CU-53			1.470+ 1	1.470+ 1	68 2795	1	N,N'
C 29-CU-53			1.470+ 1	1.470+ 1	62 573	1	N,N'
C 29-CU-53			1.477+ 1	1.473+ 1	62 872	1	N,N'
C 29-CU-53			1.480+ 1	1.480+ 1	59 662	1	N,N'
C 29-CU-53			1.500+ 1	1.500+ 1	60 628	1	N,N'
C 29-CU-53			1.460+ 1	1.460+ 1	73 3968	1	N,N'
C 29-CU-53			1.510+ 1	1.510+ 1	69 3662	1	N,N'
C 29-CU-53			1.352+ 1	1.500+ 1	67 2594	21	N,N'

TARGET CODE S E-MIN-NEV F-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-123 ***

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 29065

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	29-CU-65	12	80	1.356+ 1	1.471+ 1	70 1672	24 N,2N
	29-CU-65	12	80	1.360+ 1	1.460+ 1	68 2596	6 N,2N
	29-CU-65	14		1.400+ 1	1.400+ 1	57 217	1 N,N'P
	29-CU-65	14		1.400+ 1	1.400+ 1	59 2053	1 N,N'P
N	29-CU-65	14		1.510+ 1	1.510+ 1	69 3662	1 N,N'P
	29-CU-65	18		1.358+ 1	1.980+ 1	66 2065	7 N,N'ALPHA
	29-CU-65	18		1.450+ 1	1.450+ 1	62 757	1 N,N'ALPHA
	29-CU-65	14		1.470+ 1	1.470+ 1	62 88	1 N,N'ALPHA
	29-CU-65	18		1.480+ 1	1.480+ 1	63 756	1 N,N'ALPHA
	29-CU-65	18	3	1.316+ 1	1.941+ 1	62 562	8 N,N'ALPHA
	29-CU-65	23		2.530- 8	2.530- 8	47 888	1 N,GAMMA
	29-CU-65	23		3.300- 3	2.100- 1	64 2064	29 N,GAMMA
	29-CU-65	23		2.100- 2	2.100- 2	57 23	1 N,GAMMA
	29-CU-65	23		2.100- 2	2.100- 2	58 43	1 N,GAMMA
	29-CU-65	23		2.100- 2	2.100- 2	58 357	1 N,GAMMA
	29-CU-65	23		2.140- 2	2.140- 2	58 625	1 N,GAMMA
	29-CU-65	23		2.400- 2	2.400- 2	66 1768	1 N,GAMMA
N	29-CU-65	23		2.400- 2	2.400- 2	57 305	1 N,GAMMA
	29-CU-65	23		2.500- 2	2.000+ 0	61 715	27 N,GAMMA
	29-CU-65	23		1.700- 1	6.100+ 0	59 663	24 N,GAMMA
	29-CU-65	23		1.950- 1	1.950- 1	59 526	1 N,GAMMA
	29-CU-65	23		2.000- 1	4.000+ 0	58 363	3 N,GAMMA
	29-CU-65	23		2.300- 1	3.110+ 0	68 2992	21 N,GAMMA
	29-CU-65	23		2.500+ 0	4.000+ 0	58 1044	3 N,GAMMA
	29-CU-65	23		2.900+ 0	2.900+ 0	69 3375	1 N,GAMMA
	29-CU-65	23		3.000+ 0	3.000+ 0	67 1991	1 N,GAMMA
	29-CU-65	23		1.450+ 1	1.450+ 1	57 521	1 N,GAMMA
	29-CU-65	24	7	7.500- 1	1.300+ 0	65 1023	9 N,X GAMMA
	29-CU-65	24	7	7.680- 1	1.382+ 0	67 1897	10 N,X GAMMA
	29-CU-65	26		3.560+ 0	2.020+ 1	66 2065	43 N,P
	29-CU-65	26		1.320+ 1	1.870+ 1	63 417	10 N,P
	29-CU-65	26		1.400+ 1	1.400+ 1	56 278	1 N,P
	29-CU-65	26		1.410+ 1	1.410+ 1	52 84	1 N,P
	29-CU-65	26		1.410+ 1	1.410+ 1	60 937	1 N,P
	29-CU-65	26		1.410+ 1	1.410+ 1	61 651	1 N,P
	29-CU-65	26		1.410+ 1	1.410+ 1	67 3307	2 N,P
	29-CU-65	26		1.420+ 1	1.460+ 1	72 3427	2 N,P
N	29-CU-65	26		1.470+ 1	1.470+ 1	64 1848	1 N,P
	29-CU-65	26		1.480+ 1	1.480+ 1	58 531	1 N,P
	29-CU-65	26		1.480+ 1	1.480+ 1	59 662	1 N,P
	29-CU-65	26		1.480+ 1	1.480+ 1	60 598	1 N,P
	29-CU-65	26		1.480+ 1	1.480+ 1	61 660	1 N,P
	29-CU-65	26		1.480+ 1	1.480+ 1	63 756	1 N,P
	29-CU-65	26		1.480+ 1	1.480+ 1	67 2005	1 N,P
	29-CU-65	26		1.500+ 1	1.500+ 1	60 628	1 N,P
N	29-CU-65	26	1	1.460+ 1	1.460+ 1	73 3987	1 N,P
	29-CU-65	32		1.480+ 1	1.480+ 1	60 598	1 N,HE-3
	29-CU-65	34		1.480+ 1	1.480+ 1	60 592	1 N,ALPHA
	29-CU-65	34	3	1.410+ 1	1.410+ 1	66 1768	1 N,ALPHA
	29-CU-65	34	3	1.470+ 1	1.470+ 1	62 88	1 N,ALPHA
C	29-CU-65	34	3	1.480+ 1	1.480+ 1	63 756	3 N,ALPHA
N	29-CU-65	68		1.500+ 0	1.500+ 0	65 3978	1 N,N'ALPHA

SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-124 ***

ZA = 29065

07/04/78

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 29065

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
29-CU-65	73		2.500- 8	2.500- 8	49 2742	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-65	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-65	73		2.000+ 0	2.000+ 0	58 363	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N 29-CU-65	73	7	2.530- 8	2.530- 8	59 3992	53	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-65	76		2.000+ 0	2.000+ 0	68 2930	1	N,P SPECTRUM AVERAGED CROSS SECTION
N 29-CU-65	102		5.500+ 0	8.500+ 0	74 3831	60	ELASTIC ANGULAR DISTRIBUTION
N 29-CU-65	111	1	2.240+ 0	2.240+ 0	70 3778	13	N,N' ANGULAR DISTRIBUTION
29-CU-65	111	1	2.330+ 0	2.330+ 0	67 2583	10	N,N' ANGULAR DISTRIBUTION
N 29-CU-65	111	1	5.500+ 0	8.500+ 0	74 3831	56	N,N' ANGULAR DISTRIBUTION
29-CU-65	124	7	1.430+ 1	1.430+ 1	67 1710	1	N,X GAMMA ANGULAR DISTRIBUTION
29-CU-65	128	1	1.410+ 1	1.410+ 1	67 1870	13	N,D ANGULAR DISTRIBUTION
C 29-CU-65	523		5.000- 7	1.400+ 1	63 1310	1	N,GAMMA RESONANCE INTEGRAL
N 29-CU-65	523		5.000- 7	1.500+ 1	61 2718	1	N,GAMMA RESONANCE INTEGRAL
C 29-CU-65			0.000+ 0	6.000- 2	65 924	2	AVERAGE RESONANCE PARAMETERS
C 29-CU-65			2.300- 4	2.580- 2	69 1817	1	AVERAGE RESONANCE PARAMETERS
29-CU-65			2.270- 4	2.270- 4	57 2024	1	RESONANCE PARAMETERS
29-CU-65			2.270- 4	2.270- 4	63 895	2	RESONANCE PARAMETERS
29-CU-65			2.290- 4	1.632- 2	64 814	14	RESONANCE PARAMETERS
29-CU-65			2.300- 4	4.160- 3	58 548	6	RESONANCE PARAMETERS
29-CU-65			2.300- 4	2.578- 2	69 1817	39	RESONANCE PARAMETERS
29-CU-65			2.500- 3	5.800- 2	65 924	43	RESONANCE PARAMETERS
30-ZN-NAT	1		2.260- 9	1.069- 7	68 2395	113	TOTAL
30-ZN-NAT	1		4.200- 6	2.062- 3	58 903	91	TOTAL
30-ZN-NAT	1		1.150- 4	3.000- 4	49 844	2	TOTAL
30-ZN-NAT	1		2.003- 4	5.449- 1	65 814	5723	TOTAL
30-ZN-NAT	1		1.000- 3	3.500- 3	54 256	11	TOTAL
30-ZN-NAT	1		5.000- 3	1.900- 1	58 546	112	TOTAL
30-ZN-NAT	1		1.000- 2	6.400- 1	65 922	89	TOTAL
N 30-ZN-NAT	1		5.000- 2	2.800- 1	66 4017	7	TOTAL
30-ZN-NAT	1		1.001- 1	6.487- 1	66 1062	535	TOTAL
30-ZN-NAT	1		2.110- 1	1.024+ 0	50 2055	11	TOTAL
30-ZN-NAT	1		2.200- 1	6.300- 1	47 46	3	TOTAL
30-ZN-NAT	1		1.000+ 0	3.210+ 0	52 80	14	TOTAL
30-ZN-NAT	1		2.251+ 0	1.491+ 1	67 750	249	TOTAL
30-ZN-NAT	1		2.700+ 0	1.310+ 1	54 504	29	TOTAL
30-ZN-NAT	1		3.660+ 0	3.660+ 0	59 559	1	TOTAL
30-ZN-NAT	1		4.000+ 0	8.100+ 0	58 400	39	TOTAL
30-ZN-NAT	1		4.100+ 0	4.100+ 0	55 296	1	TOTAL
30-ZN-NAT	1		4.531+ 0	7.564+ 0	67 1747	61	TOTAL
30-ZN-NAT	1		7.050+ 0	1.407+ 1	57 22	5	TOTAL
30-ZN-NAT	1		1.237+ 1	2.020+ 1	60 622	13	TOTAL
30-ZN-NAT	1		1.300+ 1	1.620+ 1	55 133	7	TOTAL
30-ZN-NAT	1		1.400+ 1	1.400+ 1	52 81	1	TOTAL
30-ZN-NAT	1		1.400+ 1	1.400+ 1	52 207	1	TOTAL
N 30-ZN-NAT	1		1.470+ 1	1.470+ 1	71 3815	1	TOTAL
30-ZN-NAT	1		1.750+ 1	2.860+ 1	60 673	4	TOTAL
N 30-ZN-NAT	1		2.130+ 1	4.415+ 1	74 3527	8	TOTAL
30-ZN-NAT	1		2.840+ 1	2.840+ 1	61 233	1	TOTAL
30-ZN-NAT	1		4.200+ 1	4.200+ 1	50 281	1	TOTAL
30-ZN-NAT	1		9.000+ 1	9.000+ 1	49 286	1	TOTAL
30-ZN-NAT	1		3.750+ 2	1.731+ 3	71 3264	15	TOTAL
30-ZN-NAT	2		1.600- 2	9.700- 2	58 325	7	ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-125 ***

ZA = 30000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA - 30060

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	30-ZN-NAT 102		8.750-1	8.750-1	72 3546	8	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102		1.000+0	1.000+0	54 103	9	ELASTIC ANGULAR DISTRIBUTION
N	30-ZN-NAT 102		1.710+0	2.240+0	70 3775	26	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102		2.470+0	8.050+0	69 2890	147	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102		2.800+0	2.800+0	58 1044	8	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102		3.200+0	3.200+0	66 2950	14	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102		3.650+0	3.650+0	59 559	23	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102		4.100+0	4.100+0	55 296	11	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102		4.480+0	7.990+0	66 1551	52	ELASTIC ANGULAR DISTRIBUTION
N	30-ZN-NAT 102		4.480+0	7.990+0	69 3777	52	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102		1.400+1	1.400+1	57 501	10	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102		1.400+1	1.400+1	59 573	25	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102		1.400+1	1.400+1	61 1263	8	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102		1.400+1	1.400+1	65 97	10	ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 105		1.120+0	1.440+0	56 231	25	TOTAL SCATTERING ANGULAR DISTRIBUTION
	30-ZN-NAT 111		5.920+0	7.990+0	66 1551	36	N,N' ANGULAR DISTRIBUTION
	30-ZN-NAT 111	1	1.400+0	1.400+1	65 97	20	N,N' ANGULAR DISTRIBUTION
	30-ZN-NAT 111	1	2.450+0	2.450+0	56 476	1	N,N' ANGULAR DISTRIBUTION
	30-ZN-NAT 111	1	4.480+0	5.920+0	66 1551	51	N,N' ANGULAR DISTRIBUTION
N	30-ZN-NAT 111	7	3.110+0	4.720+0	71 1727	40	N,N' ANGULAR DISTRIBUTION
	30-ZN-NAT 127		1.440+0	1.440+1	62 688	6	N,X P ANGULAR DISTRIBUTION
	30-ZN-NAT 211		1.400+1	1.400+1	74 4081	50	N,N' ENERGY DISTRIBUTION
N	30-ZN-NAT 304		1.455+1	1.488+1	74 4002	540	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	30-ZN-NAT 311		1.400+1	1.400+1	74 4081	200	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N	30-ZN-NAT 311	80	1.410+1	1.410+1	65 1908	38	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N	30-ZN-NAT 324		9.150-1	1.845+1	74 3558	2535	N,X GAMMA DIFF. ENERGY-ANGLE DISTRIBUTION
	30-ZN-NAT 403		1.410+1	1.410+1	53 2028	1	NONELASTIC INTEGRAL E1-E2
	30-ZN-NAT 406		1.420+1	1.420+1	58 905	1	NONELASTIC INTEGRAL E1-E2
	30-ZN-NAT 452		3.000+0	1.500+0	66 885	104	ELASTIC LEGENDRE EXPANSIONS OF ANGULAR DIST.
C	30-ZN-NAT 521		4.900-7	1.500+1	57 1054	1	ABSORPTION RESONANCE INTEGRAL
C	30-ZN-NAT 521		5.000-7	1.500+1	58 1162	1	ABSORPTION RESONANCE INTEGRAL
C	30-ZN-NAT 521		5.000-7	1.500+1	60 897	1	ABSORPTION RESONANCE INTEGRAL
	30-ZN-NAT		1.410+1	1.410+1	65 1908	2	NUCLEAR TEMPERATURE
C	30-ZN-NAT		3.000-3	6.500-1	64 1226	2	AVERAGE RESONANCE PARAMETERS
	30-ZN-NAT		-3.000-4	-3.000-4	58 903	1	RESONANCE PARAMETERS
	30-ZN-NAT		2.180-4	2.510-3	54 256	3	RESONANCE PARAMETERS
	30-ZN-NAT		2.229-4	5.490-2	64 814	147	RESONANCE PARAMETERS
	30-ZN-64	1	1.420+1	1.420+1	67 1869	1	TOTAL
N	30-ZN-64	11	1.000+0	1.635+0	71 4033	40	N,N'
	30-ZN-64	12	1.260+1	1.958+1	85 892	27	N,2N
	30-ZN-64	12	1.275+1	1.810+1	82 770	11	N,2N
	30-ZN-64	12	1.300+1	1.750+1	56 36	15	N,2N
	30-ZN-64	12	1.320+1	1.970+1	63 417	8	N,2N
N	30-ZN-64	12	1.350+1	1.480+1	71 3742	7	N,2N
	30-ZN-64	12	1.350+1	1.640+1	59 601	3	N,2N
	30-ZN-64	12	1.386+1	1.477+1	62 1770	5	N,2N
	30-ZN-64	12	1.400+1	1.400+1	58 425	1	N,2N
	30-ZN-64	12	1.413+1	1.413+1	82 108	1	N,2N
	30-ZN-64	12	1.414+1	1.414+1	57 535	1	N,2N
	30-ZN-64	12	1.440+1	1.440+1	61 676	1	N,2N
	30-ZN-64	12	1.440+1	1.440+1	68 2695	1	N,2N
	30-ZN-64	12	1.450+1	1.450+1	53 27	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA - 30064

ZA - 30064

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
ALUMINUM	AL	13	0.000	10.000	13	10	ALUMINUM
CARBON	C	6	0.000	10.000	6	10	CARBON
CHLORINE	CL	17	0.000	10.000	17	10	CHLORINE
COPPER	CU	29	0.000	10.000	29	10	COPPER
IRON	FE	26	0.000	10.000	26	10	IRON
NICKEL	NI	28	0.000	10.000	28	10	NICKEL
SILICON	SI	14	0.000	10.000	14	10	SILICON
SODIUM	NA	11	0.000	10.000	11	10	SODIUM
TUNGSTEN	W	74	0.000	10.000	74	10	TUNGSTEN
ZINC	ZN	30	0.000	10.000	30	10	ZINC

ZA = 30064

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 30064

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	30-ZN-64	523	6.000-	7 1.500+	1 63 3352	1	N, GAMMA
N	30-ZN-64	523 80	6.000-	7 1.500+	1 72 3870	1	N, GAMMA
N	30-ZN-64	876	1.159+	0 9.939-	0 73 3342	33	N, P
	30-ZN-64		2.816-	4 2.816-	4 69 1878	4	RESONANCE PARAMETERS
	30-ZN-64		2.816-	4 1.524-	2 64 814	6	RESONANCE PARAMETERS
	30-ZN-64		2.886-	4 2.886-	4 65 2077	4	RESONANCE PARAMETERS
	30-ZN-64		2.750-	3 4.600-	3 56 953	6	RESONANCE PARAMETERS
	30-ZN-66	1	1.420+	1 1.420+	1 67 1869	1	TOTAL
N	30-ZN-66	11 1	1.040+	0 1.635+	0 71 4033	38	N, N'
	30-ZN-66	12	1.420+	1 1.420+	1 67 2009	1	N, 2N
	30-ZN-66	12	1.440+	1 1.440+	1 68 2695	1	N, 2N
N	30-ZN-66	12	1.460+	1 1.460+	1 73 3988	1	N, 2N
	30-ZN-66	14	1.400+	1 1.400+	1 61 361	1	N, N', P
N	30-ZN-66	14 10	1.410+	1 1.410+	1 71 3768	1	N, N', P
N	30-ZN-66	26	5.561+	0 9.965+	0 75 3636	16	N, P
	30-ZN-66	26	1.320+	1 1.320+	1 64 843	1	N, P
	30-ZN-66	26	1.400+	1 1.400+	1 56 278	1	N, P
	30-ZN-66	26	1.400+	1 1.400+	1 61 361	1	N, P
	30-ZN-66	26	1.400+	1 1.400+	1 63 323	1	N, P
	30-ZN-66	26	1.414+	1 1.414+	1 57 535	1	N, P
	30-ZN-66	26	1.440+	1 1.440+	1 68 2695	1	N, P
	30-ZN-66	26	1.450+	1 1.450+	1 53 27	1	N, P
	30-ZN-66	26	1.480+	1 1.480+	1 60 598	1	N, P
	30-ZN-66	26	1.480+	1 1.480+	1 67 2005	1	N, P
N	30-ZN-66	26 1	1.460+	1 1.460+	1 73 3987	1	N, P
	30-ZN-66	73	2.500-	8 2.500-	8 67 2393	1	N, GAMMA
	30-ZN-66	76	2.000+	0 2.000+	0 66 1815	1	N, P
	30-ZN-66	76	2.000+	0 2.000+	0 68 2990	1	N, P
N	30-ZN-66	126 10	1.410+	1 1.410+	1 71 3768	30	N, P
	30-ZN-66	128 1	1.408+	1 1.408+	1 67 1870	12	N, D
N	30-ZN-66	224 80	2.900-	8 2.500-	8 70 4039	5	N, X GAMMA
N	30-ZN-66	876	5.561+	0 9.965+	0 75 3636	16	N, P
	30-ZN-66	876	1.400+	1 1.400+	1 57 930	1	N, P
	30-ZN-66		3.230-	4 3.230-	4 69 1878	4	RESONANCE PARAMETERS
	30-ZN-66		3.232-	4 3.080-	2 64 814	4	RESONANCE PARAMETERS
	30-ZN-66		3.280-	4 3.280-	4 65 2077	4	RESONANCE PARAMETERS
	30-ZN-66		1.120-	2 3.080-	2 59 2384	5	RESONANCE PARAMETERS
	30-ZN-67	1	1.420+	1 1.420+	1 67 1869	1	TOTAL
	30-ZN-67	26	3.300+	0 3.300+	0 61 655	1	N, P
	30-ZN-67	26	1.400+	1 1.400+	1 61 361	1	N, P
	30-ZN-67	26	1.400+	1 1.400+	1 63 323	1	N, P
	30-ZN-67	26	1.480+	1 1.480+	1 67 2005	1	N, P
N	30-ZN-67	73	2.500-	8 2.500-	8 67 2393	1	N, GAMMA
	30-ZN-67	76	1.500+	0 1.500+	0 65 3978	1	N, P
	30-ZN-67	76	2.000+	0 2.000+	0 64 1711	1	N, P
	30-ZN-67	76	2.000+	0 2.000+	0 66 1815	1	N, P
	30-ZN-67	76	2.000+	0 2.000+	0 69 2706	1	N, P
	30-ZN-67	76	2.000+	0 2.000+	0 69 3023	1	N, P
N	30-ZN-67	224 80	2.500-	8 2.500-	8 70 4039	27	N, X GAMMA
	30-ZN-67	876	1.400+	1 1.400+	1 57 930	1	N, P
C	30-ZN-67		0.600+	0 3.000-	3 56 953	1	AVERAGE RESONANCE PARAMETERS
	30-ZN-67		2.229-	4 2.246-	3 64 814	4	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 30067

ZA - 30067

ZA - 30070

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 30070

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
30-ZN-70	73		2.500-8	2.500-8	62 908	1	N,GAMMA
30-ZN-70	73	3	2.500-8	2.500-8	51 2697	1	N,GAMMA
30-ZN-70	73	3	2.500-8	2.500-8	62 908	1	N,GAMMA
30-ZN-70	73	4	2.500-8	2.500-8	62 908	1	N,GAMMA
30-ZN-70	73	4	2.500-8	2.500-8	61 2698	1	N,GAMMA
N 31-GA-NAT	1		1.480-5	6.760-3	56 138	154	TOTAL
31-GA-NAT	1		1.000-3	1.000-1	53 100	2	TOTAL
31-GA-NAT	1		4.000-3	5.400-2	57 154	47	TOTAL
N 31-GA-NAT	1		9.100-2	4.060-1	66 4017	8	TOTAL
31-GA-NAT	1		1.400-1	2.980-0	53 90	22	TOTAL
31-GA-NAT	1		2.265-1	1.468-0	67 750	241	TOTAL
31-GA-NAT	1		2.700-0	2.700-0	67 1527	1	TOTAL
31-GA-NAT	1		8.680-0	1.450-1	57 22	3	TOTAL
31-GA-NAT	1		1.400-1	1.400-1	52 81	1	TOTAL
N 31-GA-NAT	1		1.470-1	1.470-1	71 3815	1	TOTAL
31-GA-NAT	1		1.760-1	2.860-1	60 673	4	TOTAL
N 31-GA-NAT	5		1.288-9	1.494-7	67 3399	89	TOTAL SCATTERING
N 31-GA-NAT	12		9.930-0	1.476-1	75 3807	11	N,2N
31-GA-NAT	23		4.000-9	9.007-2	64 1244	108	N,GAMMA
31-GA-NAT	23		1.100-2	3.380-1	69 2994	7	N,GAMMA
31-GA-NAT	23		3.000-2	6.500-2	63 1	2	N,GAMMA
31-GA-NAT	71		2.500-8	2.500-8	50 1794	1	ABSORPTION
31-GA-NAT	71		2.500-8	2.500-8	51 882	1	ABSORPTION
31-GA-NAT	73	7	2.530-8	2.530-8	70 2415	144	N,GAMMA
31-GA-NAT	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA
31-GA-NAT	102		3.200-0	3.200-0	66 2950	13	ELASTIC
N 31-GA-NAT	304		1.455-1	1.455-1	74 4002	459	NEUTRON EMISSION
C 31-GA-NAT	521		4.900-7	1.500-1	57 1054	1	ABSORPTION
C 31-GA-NAT			0.000-0	5.000-2	66 1894	1	AVERAGE RESONANCE PARAMETERS
31-GA-NAT			4.720-4	3.512-3	64 2003	11	RESONANCE PARAMETERS
N 31-GA-69	12		1.410-1	1.410-1	72 3411	1	N,2N
31-GA-69	12		1.413-1	1.413-1	62 108	1	N,2N
31-GA-69	12		1.417-1	1.440-1	61 676	1	N,2N
31-GA-69	12		1.450-1	1.450-1	53 27	1	N,2N
31-GA-69	12		1.470-1	1.470-1	67 2009	1	N,2N
31-GA-69	12		1.480-1	1.480-1	61 703	1	N,2N
N 31-GA-69	12		1.480-1	1.480-1	66 2058	1	N,2N
31-GA-69	12		1.480-1	1.480-1	67 2368	1	N,2N
N 31-GA-69	12	3	1.460-1	1.460-1	73 3888	1	N,2N
31-GA-69	23		2.530-8	2.530-8	47 888	1	N,GAMMA
N 31-GA-69	23		1.100-2	3.150-0	68 3002	28	N,GAMMA
31-GA-69	23		2.100-2	2.100-2	58 43	1	N,GAMMA
31-GA-69	23		2.400-2	2.400-2	66 1788	1	N,GAMMA
31-GA-69	23		2.400-1	2.000-0	59 635	15	N,GAMMA
31-GA-69	23		2.500-0	4.000-0	58 1044	3	N,GAMMA
31-GA-69	23		3.000-0	3.000-0	67 1991	1	N,GAMMA
31-GA-69	26	3	1.480-1	1.480-1	67 2005	1	N,P
31-GA-69	26	4	1.450-1	1.450-1	53 27	1	N,P
31-GA-69	26	4	1.480-1	1.480-1	67 2005	1	N,P
31-GA-69	26	4	1.521-1	1.941-1	82 562	5	N,P
31-GA-69	34		1.450-1	1.450-1	53 27	1	N,ALPHA
31-GA-69	34		1.480-1	1.480-1	67 2005	1	N,ALPHA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 31069

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 31069

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
31-GA-69	73		2.500- 8	2.500- 8	52 342	1	N, GAMMA
31-GA-69	73	3	2.500- 8	2.500- 8	49 2742	1	N, GAMMA
N 31-GA-69	73	87	2.530- 8	2.530- 8	70 3663	156	N, GAMMA
31-GA-69	76	4	2.000+ 0	2.000+ 0	68 3013	1	N, P
31-GA-69	76	4	2.000+ 0	2.000+ 0	69 3024	1	N, P
31-GA-69	111	7	6.500- 1	1.780+ 0	69 2588	130	N, N'
31-GA-69	876	4	1.400+ 1	1.400+ 1	57 930	1	N, P
31-GA-69			1.110- 4	5.877- 3	70 3045	50	RESONANCE PARAMETERS
31-GA-69			1.120- 4	7.100- 4	56 138	12	RESONANCE PARAMETERS
31-GA-69			3.340- 4	2.463- 3	64 2003	35	RESONANCE PARAMETERS
N 31-GA-71	12		1.232+ 1	1.232+ 1	66 1672	1	N, 2N
N 31-GA-71	12		1.410+ 1	1.410+ 1	72 3411	1	N, 2N
31-GA-71	12		1.450+ 1	1.450+ 1	53 27	1	N, 2N
31-GA-71	12		1.470+ 1	1.470+ 1	67 2009	1	N, 2N
31-GA-71	12		1.480+ 1	1.480+ 1	61 703	1	N, 2N
N 31-GA-71	12	3	1.300+ 1	1.780+ 1	75 3818	10	N, 3N
C 31-GA-71	18		1.480+ 1	1.480+ 1	63 756	1	N, N' ALPHA
31-GA-71	18	4	1.521+ 1	1.941+ 1	62 562	5	N, N' ALPHA
N 31-GA-71	23		1.100- 2	2.210+ 0	68 3002	27	N, GAMMA
31-GA-71	23		2.400- 2	2.400- 2	57 305	1	N, GAMMA
31-GA-71	23		2.500- 2	1.950- 1	59 526	2	N, GAMMA
31-GA-71	23		1.700- 1	2.400+ 0	59 663	14	N, GAMMA
31-GA-71	23		3.800- 1	1.680+ 0	59 636	7	N, GAMMA
31-GA-71	23		3.000+ 0	3.000+ 0	67 1991	1	N, GAMMA
31-GA-71	23		1.450+ 1	1.450+ 1	57 521	1	N, GAMMA
31-GA-71	23	4	2.530- 8	2.530- 8	47 888	1	N, GAMMA
31-GA-71	23	4	2.400- 2	2.400- 2	66 1788	1	N, GAMMA
N 31-GA-71	23	4	1.480+ 1	1.480+ 1	70 4008	1	N, GAMMA
31-GA-71	26	3	1.480+ 1	1.480+ 1	67 2005	1	N, P
N 31-GA-71	26	4	1.300+ 1	1.780+ 1	75 3818	10	N, P
31-GA-71	26	4	1.480+ 1	1.480+ 1	67 2005	1	N, P
N 31-GA-71	32		1.400+ 1	1.400+ 1	71 3816	1	N, HE-3
31-GA-71	34		1.480+ 1	1.480+ 1	66 2142	1	N, ALPHA
N 31-GA-71	68		1.500+ 0	1.500+ 0	65 3977	1	N, N' ALPHA
31-GA-71	73		2.500- 8	2.500- 8	52 342	1	N, GAMMA
31-GA-71	73	2	2.500- 8	2.500- 8	63 2581	1	N, GAMMA
31-GA-71	73	4	2.500- 8	2.500- 8	60 909	1	N, GAMMA
N 31-GA-71	73	87	2.530- 8	2.530- 8	70 3663	190	N, GAMMA
31-GA-71	111	7	6.500- 1	1.780+ 0	69 2588	140	N, N'
31-GA-71	876		1.400+ 1	1.400+ 1	57 930	1	N, P
31-GA-71	876	3	1.400+ 1	1.400+ 1	57 930	1	N, P
31-GA-71			9.500- 5	7.070- 4	56 138	14	RESONANCE PARAMETERS
31-GA-71			9.580- 5	5.054- 3	70 3045	51	RESONANCE PARAMETERS
31-GA-71			2.875- 4	7.060- 4	64 2003	15	RESONANCE PARAMETERS
32-GE-NAT	1		1.390- 8	8.260- 7	47 45	25	TOTAL
N 32-GE-NAT	1		2.010- 8	6.840- 7	71 3875	39	TOTAL
32-GE-NAT	1		9.250- 6	1.430- 2	53 2331	156	TOTAL
32-GE-NAT	1		6.000- 2	6.250- 1	56 150	13	TOTAL
32-GE-NAT	1		1.848- 1	6.487- 1	67 885	287	TOTAL
32-GE-NAT	1		4.400- 1	3.420+ 0	53 264	32	TOTAL
32-GE-NAT	1		2.252+ 0	1.400+ 1	67 750	243	TOTAL
32-GE-NAT	1		3.660+ 0	3.660+ 0	62 637	1	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 32000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 32000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
32-GE-NAT	1		3.780+ 0	8.090+ 0	57 153	41	TOTAL
32-GE-NAT	1		7.050+ 0	1.407+ 1	57 22	5	TOTAL
32-GE-NAT	1		1.450+ 1	1.450+ 1	70 3300	1	TOTAL
N 32-GE-NAT	1		1.470+ 1	1.470+ 1	71 3815	1	TOTAL
32-GE-NAT	1		1.750+ 1	2.890+ 1	60 673	4	TOTAL
32-GE-NAT	2		3.000- 1	1.470+ 0	68 2413	144	ELASTIC
N 32-GE-NAT	2		8.704- 1	8.704- 1	72 3546	1	ELASTIC
32-GE-NAT	2		3.660+ 0	3.660+ 0	62 637	1	ELASTIC
32-GE-NAT	2		7.550+ 0	7.550+ 0	69 2850	1	ELASTIC
32-GE-NAT	11		7.550+ 0	7.550+ 0	69 2850	1	N,N'
32-GE-NAT	11	7	6.000- 1	2.430+ 0	66 1931	77	N,N'
32-GE-NAT	11	8	9.000- 1	1.500+ 0	68 2413	50	N,N'
32-GE-NAT	23		3.000- 2	6.500- 2	63 1	2	N,GAMMA
32-GE-NAT	23		6.500- 2	6.500- 2	61 677	1	N,GAMMA
32-GE-NAT	25	2	1.450+ 1	1.450+ 1	59 829	1	N,X CHARGED PARTICLE
N 32-GE-NAT	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
32-GE-NAT	43		2.530- 8	2.530- 8	73 3476	1	COHERENT SCATTERING
32-GE-NAT	71		7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING
32-GE-NAT	71		2.500- 8	2.500- 8	50 1794	1	ABSORPTION
C 32-GE-NAT	73	7	2.530- 8	2.530- 8	51 882	1	ABSORPTION
32-GE-NAT	73	10	2.530- 8	2.530- 8	70 2415	124	N,GAMMA
N 32-GE-NAT	73	87	2.530- 8	2.530- 8	70 2415	35	N,GAMMA
32-GE-NAT	74		2.530- 8	2.530- 8	67 3860	18	N,GAMMA
N 32-GE-NAT	102		8.704- 1	8.704- 1	70 2415	1	N,X GAMMA
32-GE-NAT	102		3.200+ 0	3.200+ 0	72 3546	8	ELASTIC
32-GE-NAT	102		3.660+ 0	3.660+ 0	66 2950	13	ELASTIC
32-GE-NAT	102		7.550+ 0	7.550+ 0	62 637	21	ELASTIC
N 32-GE-NAT	111	7	3.110+ 0	4.720+ 0	69 2850	11	ELASTIC
32-GE-NAT	452		3.000- 1	1.470+ 0	68 2413	38	N,N'
C 32-GE-NAT	521		4.900- 7	1.500+ 1	57 1054	527	ELASTIC
N 32-GE-70	11	1	1.050+ 0	1.420+ 0	72 4057	1	ABSORPTION
C 32-GE-70	11	1	1.750+ 0	2.550+ 0	69 2763	35	N,N'
32-GE-70	12		1.175+ 1	1.975+ 1	60 588	5	N,N'
32-GE-70	12		1.440+ 1	1.440+ 1	61 676	13	N,2N
32-GE-70	12		1.450+ 1	1.450+ 1	53 27	1	N,2N
32-GE-70	12		1.480+ 1	1.480+ 1	61 703	1	N,2N
N 32-GE-70	12	4	1.460+ 1	1.460+ 1	73 3988	1	N,2N
C 32-GE-70	24	7	1.078+ 0	1.478+ 0	68 2413	41	N,X GAMMA
32-GE-70	24		1.750+ 0	2.550+ 0	69 2763	5	N,X GAMMA
32-GE-70	26		1.400+ 1	1.400+ 1	56 278	1	N,P
32-GE-70	26		1.450+ 1	1.450+ 1	53 27	1	N,P
32-GE-70	26		1.480+ 1	1.480+ 1	67 2005	1	N,P
32-GE-70	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA
32-GE-70	73		2.500- 8	2.500- 8	55 2938	1	N,GAMMA
32-GE-70	73	2	2.500- 8	2.500- 8	63 2581	1	N,GAMMA
32-GE-70	73	5	2.500- 8	2.500- 8	60 909	1	N,GAMMA
32-GE-70	124	7	1.750+ 0	2.550+ 0	70 2763	77	N,X GAMMA
C 32-GE-70			0.000+ 0	2.860- 2	68 3015	2	AVERAGE RESONANCE PARAMETERS
32-GE-70			1.115+ 3	2.860- 2	68 3015	22	RESONANCE PARAMETERS
32-GE-70			4.340+ 3	3.840- 2	56 3028	18	RESONANCE PARAMETERS
N 32-GE-72	11	1	7.000- 1	1.090+ 0	72 4057	42	N,N'

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-133 ***

ZA = 32072

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 32072

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	32-GE-72	11	1	1.750+ 0	2.550+ 0	69 2763	9 N,N'
	32-GE-72	11	2	6.950- 1	4.996+ 0	72 3189	180 N,N'
	32-GE-72	12	2	1.480+ 1	1.480+ 1	69 2910	1 N,2N
	32-GE-72	24	7	7.080- 1	1.488+ 0	68 2413	134 N,X GAMMA
C	32-GE-72	24	7	1.750+ 0	2.550+ 0	69 2763	12 N,X GAMMA
	32-GE-72	26		1.400+ 1	1.400+ 1	56 278	1 N,P
	32-GE-72	26		1.440+ 1	1.440+ 1	67 3010	1 N,P
	32-GE-72	26		1.480+ 1	1.480+ 1	67 2005	1 N,P
	32-GE-72	26	4	1.450+ 1	1.450+ 1	53 27	1 N,P
	32-GE-72	34		1.440+ 1	1.440+ 1	67 3010	1 N,ALPHA
	32-GE-72	34	3	1.480+ 1	1.480+ 1	67 2005	1 N,ALPHA
	32-GE-72	34	4	1.440+ 1	1.440+ 1	67 3010	1 N,ALPHA
	32-GE-72	34	4	1.480+ 1	1.480+ 1	67 2005	1 N,ALPHA
	32-GE-72	73		2.500- 8	2.500- 8	52 342	1 N,GAMMA
N	32-GE-72	73	87	2.530- 8	2.530- 8	72 3701	34 N,GAMMA
N	32-GE-72	76	4	2.530- 8	2.530- 8	66 3719	1 N,P
N	32-GE-72	84	4	2.530- 8	2.530- 8	66 3719	1 N,ALPHA
N	32-GE-72	84	4	1.500+ 0	1.500+ 0	65 3976	1 N,ALPHA
	32-GE-72	124	7	1.750+ 0	2.550+ 0	70 2763	99 N,X GAMMA
	32-GE-72	876		1.400+ 1	1.400+ 1	57 930	1 N,P
	32-GE-72	884	4	1.400+ 1	1.400+ 1	57 930	1 N,ALPHA
C	32-GE-72			0.000+ 0	2.940- 2	69 3015	2 AVERAGE RESONANCE PARAMETERS
	32-GE-72			2.520- 4	2.940- 2	68 3015	17 RESONANCE PARAMETERS
	32-GE-72			4.540- 3	3.950- 2	66 3028	10 RESONANCE PARAMETERS
N	32-GE-73	11	87	1.000+ 0	1.000+ 0	67 3850	13 N,N'
	32-GE-73	26		1.400+ 1	1.400+ 1	56 278	1 N,P
	32-GE-73	26		1.440+ 1	1.440+ 1	67 3010	1 N,P
	32-GE-73	26		1.480+ 1	1.480+ 1	67 2005	1 N,P
	32-GE-73	26	3	1.450+ 1	1.450+ 1	53 27	1 N,P
	32-GE-73	73		2.500- 8	2.500- 8	52 342	1 N,GAMMA
	32-GE-73	876		1.400+ 1	1.400+ 1	57 930	1 N,P
C	32-GE-73			0.000+ 0	8.530- 3	68 3015	2 AVERAGE RESONANCE PARAMETERS
	32-GE-73			1.026- 4	8.530- 3	68 3015	59 RESONANCE PARAMETERS
N	32-GE-74	11	1	5.980- 1	8.700- 1	72 4057	20 N,N'
N	32-GE-74	11	1	1.750+ 0	2.550+ 0	69 2763	16 N,N'
	32-GE-74	14		1.470+ 1	1.470+ 1	68 2713	1 N,N'P
N	32-GE-74	23		2.500- 2	2.500- 2	70 3969	2 N,GAMMA
	32-GE-74	23		1.950- 1	1.950- 1	59 526	1 N,GAMMA
	32-GE-74	23		2.000- 1	3.128+ 0	67 2993	23 N,GAMMA
	32-GE-74	23		3.000+ 0	3.000+ 0	67 1991	1 N,GAMMA
	32-GE-74	23	2	3.000+ 0	3.000+ 0	68 2345	1 N,GAMMA
	32-GE-74	23	3	2.530- 8	2.530- 8	47 888	1 N,GAMMA
	32-GE-74	23	3	2.400- 2	2.400- 2	57 305	1 N,GAMMA
	32-GE-74	23	3	2.400- 2	2.400- 2	66 1788	1 N,GAMMA
	32-GE-74	23	3	2.500+ 0	4.000+ 0	58 1044	3 N,GAMMA
	32-GE-74	23	3	3.000+ 0	3.000+ 0	68 2345	1 N,GAMMA
N	32-GE-74	23	11	2.500- 2	2.500- 2	72 3965	2 N,GAMMA
	32-GE-74	24	7	6.130- 1	1.488+ 0	68 2413	82 N,X GAMMA
C	32-GE-74	24	7	1.750+ 0	2.550+ 0	69 2763	21 N,X GAMMA
	32-GE-74	26		1.440+ 1	1.440+ 1	67 3010	1 N,P
	32-GE-74	26		1.480+ 1	1.480+ 1	67 2005	1 N,P
	32-GE-74	34		1.440+ 1	1.440+ 1	67 3010	1 N,ALPHA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 134 ***

ZA = 32074

07/04/76

CSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 32074

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
32-GE-74	34		1.450+ 1	1.450+ 1	53 27	1	N, ALPHA
32-GE-74	34	3	1.480+ 1	1.480+ 1	67 2005	1	N, ALPHA
32-GE-74	34	4	1.440+ 1	1.440+ 1	67 3010	1	N, ALPHA
32-GE-74	34	4	1.480+ 1	1.480+ 1	67 2005	1	N, ALPHA
32-GE-74	73		2.500- 8	2.500- 8	52 342	1	N, GAMMA
32-GE-74	73		2.500- 8	2.500- 8	55 2938	1	N, GAMMA
32-GE-74	73		2.500- 8	2.500- 8	66 390	1	N, GAMMA
32-GE-74	73	2	2.500- 8	2.500- 8	62 2696	1	N, GAMMA
32-GE-74	73	2	2.500- 8	2.500- 8	66 390	1	N, GAMMA
32-GE-74	73	3	2.500- 8	2.500- 8	60 909	1	N, GAMMA
N 32-GE-74	73	87	2.530- 8	2.530- 8	72 3701	41	N, GAMMA
N 32-GE-74	84	4	1.500+ 0	1.500+ 0	65 3976	1	N, ALPHA
32-GE-74	124	7	1.750+ 0	2.550+ 0	70 2763	198	N, X GAMMA
N 32-GE-74	523	80	6.000- 7	1.500+ 1	72 3972	1	N, GAMMA
N 32-GE-74	873		2.500- 2	2.500- 2	70 3969	1	N, GAMMA
N 32-GE-74	873		2.500- 2	2.500- 2	72 3965	1	N, GAMMA
32-GE-74	876		1.400+ 1	1.400+ 1	57 930	1	N, P
32-GE-74	884		1.400+ 1	1.400+ 1	57 930	1	N, GAMMA
32-GE-74	884	3	1.400+ 1	1.400+ 1	57 930	1	N, ALPHA
C 32-GE-74			0.000+ 0	6.200- 2	68 3015	2	AVERAGE RESONANCE PARAMETERS
32-GE-74			2.846- 3	6.104- 2	68 3015	12	RESONANCE PARAMETERS
32-GE-74			4.970- 3	2.200- 2	66 3028		RESONANCE PARAMETERS
N 32-GE-75	41		2.500- 2	2.500- 2	70 3969	1	BOUND ATOM
N 32-GE-76	11	1	5.600- 1	8.700- 1	72 4057	24	N, N'
C 32-GE-76	11	1	1.750+ 0	2.550+ 0	69 2763	8	N, N'
32-GE-76	12		1.339+ 1	1.496+ 1	67 1871	8	N, 2N
32-GE-76	12		1.440+ 1	1.440+ 1	67 3010	2	N, 2N
32-GE-76	12		1.450+ 1	1.450+ 1	53 27	1	N, 2N
32-GE-76	12		1.480+ 1	1.480+ 1	61 703	1	N, 2N
32-GE-76	12	2	1.300+ 1	1.675+ 1	67 2888	15	N, 2N
32-GE-76	12	2	1.339+ 1	1.495+ 1	67 1871	8	N, 2N
N 32-GE-76	12	2	1.470+ 1	1.470+ 1	74 4002	1	N, 2N
32-GE-76	12	2	1.480+ 1	1.480+ 1	63 884	1	N, 2N
N 32-GE-76	12	3	1.460+ 1	1.460+ 1	73 3988	1	N, 2N
N 32-GE-76	12	3	1.470+ 1	1.470+ 1	74 4002	1	N, 2N
32-GE-76	23	2	2.400- 2	2.400- 2	68 2392	1	N, GAMMA
N 32-GE-76	23	2	2.400- 2	2.400- 2	66 1788	1	N, GAMMA
32-GE-76	23	4	2.530- 8	2.530- 8	47 888	1	N, GAMMA
32-GE-76	23	4	2.530- 8	2.530- 8	47 2699	1	N, GAMMA
32-GE-76	23	4	2.400- 2	2.400- 2	66 1788	1	N, GAMMA
32-GE-76	23	4	2.400- 2	2.400- 2	68 2392	1	N, GAMMA
32-GE-76	24	7	5.880+ 1	1.488+ 0	68 2413	90	N, X GAMMA
C 32-GE-76	24	7	1.750+ 0	2.550+ 0	69 2763	9	N, X GAMMA
32-GE-76	73		2.500- 8	2.500- 8	52 342	1	N, GAMMA
32-GE-76	73		2.500- 8	2.500- 8	55 2938	1	N, GAMMA
32-GE-76	73	2	2.500- 8	2.500- 8	55 2938	1	N, GAMMA
32-GE-76	73	2	2.500- 8	2.500- 8	57 390	1	N, GAMMA
32-GE-76	73	2	2.500- 8	2.500- 8	62 2696	1	N, GAMMA
32-GE-76	73	4	2.500- 8	2.500- 8	55 2938	1	N, GAMMA
32-GE-76	73	4	2.500- 8	2.500- 8	57 390	1	N, GAMMA
N 32-GE-76	73	87	2.530- 8	2.530- 8	72 3701	7	N, GAMMA
32-GE-76	124	7	1.750+ 0	2.550+ 0	70 2763	88	N, X GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-135 ***

ZA = 32076

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 32076

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	32-GE-76	523 80	5.000-	7 1.500+	1 72 3873	2	N, GAMMA RESONANCE INTEGRAL
N	32-GE-76	523 80	6.000-	7 1.500+	1 72 3872	1	N, GAMMA RESONANCE INTEGRAL
N	32-GE-76	862	1.470+	1 1.470+	1 74 4002	1	N, 2N CROSS SECTION RATIO
N	32-GE-76	873 4	2.500-	8 2.500-	8 67 2390	1	N, GAMMA CROSS SECTION RATIO
C	32-GE-76		0.000+	0 4.880-	2 68 3015	2	AVERAGE RESONANCE PARAMETERS
	32-GE-76		5.500+	4 4.870-	2 68 3015	10	RESONANCE PARAMETERS
	32-GE-76		4.970-	3 2.930-	2 66 3028	4	RESONANCE PARAMETERS
	33-AS-75	1	2.050-	9 4.050-	5 61 1716	172	TOTAL
N	33-AS-75	1	2.722-	9 8.006-	9 63 2198	20	TOTAL
N	33-AS-75	1	1.000-	8 1.070-	7 63 3859	70	TOTAL
	33-AS-75	1	2.530-	8 2.530-	8 60 1716	1	TOTAL
	33-AS-75	1	5.500-	8 4.900-	5 63 1928	59	TOTAL
	33-AS-75	1	1.572-	5 1.011-	2 58 548	269	TOTAL
	33-AS-75	1	1.150+	4 3.000-	4 49 844	2	TOTAL
	33-AS-75	1	2.083-	4 1.008-	2 65 814	5641	TOTAL
	33-AS-75	1	1.010-	3 2.400-	3 61 730	86	TOTAL
	33-AS-75	1	5.800-	2 2.931+	0 56 150	52	TOTAL
	33-AS-75	1	2.261+	0 1.485+	1 67 750	247	TOTAL
	33-AS-75	1	3.300+	0 5.210+	0 67 972	44	TOTAL
	33-AS-75	1	1.400+	1 1.400+	1 52 332	1	TOTAL
	33-AS-75	1	2.840+	1 2.840+	1 61 233	1	TOTAL
N	33-AS-75	2	8.050+	0 8.050+	0 69 3660	1	ELASTIC
	33-AS-75	11	7.000+	0 7.000+	0 63 836	1	N, N'
	33-AS-75	11 2	1.450+	1 1.450+	1 59 829	1	N, N'
N	33-AS-75	11 2	1.480+	1 1.480+	1 73 3457	1	N, N'
	33-AS-75	12	1.030+	1 1.975+	1 60 598	11	N, 2N
	33-AS-75	12	1.400+	1 1.400+	1 63 377	1	N, 2N
	33-AS-75	12	1.405+	1 1.475+	1 66 1874	2	N, 2N
N	33-AS-75	12	1.410+	1 1.410+	1 72 3411	1	N, 2N
	33-AS-75	12	1.420+	1 1.420+	1 69 2334	1	N, 2N
	33-AS-75	12	1.470+	1 1.470+	1 67 2009	1	N, 2N
	33-AS-75	12 4	1.450+	1 1.450+	1 53 27	1	N, 2N
N	33-AS-75	12 5	1.300+	1 1.780+	1 75 3818	9	N, 2N
	33-AS-75	12 5	1.440+	1 1.440+	1 71 3184	1	N, 2N
N	33-AS-75	12 5	1.460+	1 1.460+	1 73 3988	1	N, 2N
	33-AS-75	23	2.530-	8 2.530-	8 47 888	1	N, GAMMA
	33-AS-75	23	3.000-	3 4.000-	1 60 726	16	N, GAMMA
	33-AS-75	23	2.400-	2 2.400-	2 57 305	1	N, GAMMA
	33-AS-75	23	3.000-	2 6.500-	2 63 1	2	N, GAMMA
	33-AS-75	23	1.600+	1 5.800+	0 59 663	18	N, GAMMA
	33-AS-75	23	1.950+	1 1.350+	1 59 526	1	N, GAMMA
	33-AS-75	23	2.900+	0 2.900+	0 68 3375	1	N, GAMMA
	33-AS-75	23	3.000+	0 3.000+	0 67 1991	1	N, GAMMA
	33-AS-75	23	3.000+	0 3.000+	0 68 2345	1	N, GAMMA
N	33-AS-75	23	1.440+	1 1.440+	1 72 3953	1	N, GAMMA
	33-AS-75	23 4	2.100-	2 2.100-	2 57 23	1	N, GAMMA
N	33-AS-75	23 4	2.400-	2 2.400-	2 68 2856	1	N, GAMMA
N	33-AS-75	23 4	1.480+	1 1.480+	1 70 4008	1	N, GAMMA
	33-AS-75	26	7.000+	0 1.490+	1 60 588	7	N, P
	33-AS-75	26	1.339+	1 1.496+	1 67 1871	10	N, P
	33-AS-75	26	1.410+	1 1.410+	1 66 2894	1	N, P
	33-AS-75	26	1.410+	1 1.480+	1 67 3307	2	N, P

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-136 ***

ZA = 33075

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 33075

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	33-AS-75	26	1	1.460+	1.460+	73 3987	1 N,P
	33-AS-75	26	2	1.275+	1.675+	67 2888	15 N,P
N	33-AS-75	26	2	1.300+	1.650+	75 3818	8 N,P
	33-AS-75	26	2	1.339+	1.496+	67 1871	10 N,P
	33-AS-75	26	2	1.410+	1.410+	61 704	1 N,P
	33-AS-75	26	2	1.410+	1.410+	66 2894	1 N,P
	33-AS-75	26	2	1.420+	1.420+	69 2334	1 N,P
N	33-AS-75	26	3	1.300+	1.780+	75 3818	10 N,P
	33-AS-75	26	3	1.410+	1.410+	61 704	1 N,P
	33-AS-75	26	3	1.420+	1.420+	69 2334	1 N,P
	33-AS-75	26	3	1.440+	1.440+	71 3184	1 N,P
	33-AS-75	26	3	1.450+	1.450+	53 27	1 N,P
	33-AS-75	26	3	1.480+	1.480+	67 2006	1 N,P
N	33-AS-75	32		1.400+	1.400+	71 3816	1 N,HE-3
	33-AS-75	32		1.480+	1.480+	60 667	1 N,HE-3
N	33-AS-75	32		1.480+	1.480+	65 2151	1 N,HE-3
	33-AS-75	34		7.000+	0.976+	60 589	11 N,ALPHA
N	33-AS-75	34		1.304+	1.785+	75 4016	10 N,ALPHA
	33-AS-75	34		1.420+	1.420+	69 2334	1 N,ALPHA
	33-AS-75	34		1.480+	1.480+	61 701	1 N,ALPHA
	33-AS-75	34		1.480+	1.480+	67 2006	1 N,ALPHA
	33-AS-75	34	4	1.440+	1.440+	71 3184	1 N,ALPHA
	33-AS-75	34	4	1.450+	1.450+	53 27	1 N,ALPHA
N	33-AS-75	34	4	1.480+	1.480+	63 756	1 N,ALPHA
	33-AS-75	41		7.300-	8 7.300-	51 1584	BOUND ATOM
	33-AS-75	43		2.530-	8 2.530-	50 2564	COHERENT SCATTERING
	33-AS-75	43		7.300-	8 7.300-	51 1584	COHERENT SCATTERING
	33-AS-75	62		2.000+	0 2.000+	68 2990	1 N,2N
	33-AS-75	62		2.000+	0 2.000+	70 3382	1 N,2N
	33-AS-75	71		2.500-	8 2.500-	50 1794	1 ABSORPTION
	33-AS-75	71		2.500-	8 2.500-	51 882	1 ABSORPTION
	33-AS-75	73		2.500-	8 2.500-	49 2742	1 N,GAMMA
	33-AS-75	73		2.500-	8 2.500-	60 909	1 N,GAMMA
	33-AS-75	73	7	2.530-	8 2.530-	70 2415	91 N,GAMMA
	33-AS-75	73	10	2.530-	8 2.530-	70 2415	27 N,GAMMA
N	33-AS-75	73	87	2.530-	8 2.530-	68 4861	15 N,GAMMA
	33-AS-75	74		2.530-	8 2.530-	70 2415	1 N,X GAMMA
	33-AS-75	102		5.600-	2 1.040-	58 325	14 ELASTIC
	33-AS-75	102		3.200+	0 3.200+	66 2950	13 ELASTIC
	33-AS-75	102		7.000+	0 7.000+	63 836	1 ELASTIC
N	33-AS-75	102		8.050+	0 8.050+	60 3563	20 ELASTIC
	33-AS-75	111	1	2.450+	0 2.450+	58 476	3 N,N'
	33-AS-75	124	7	8.000-	1 2.200+	71 3234	107 N,X GAMMA
	33-AS-75	124	87	3.000-	1 1.500+	71 3272	94 N,X GAMMA
	33-AS-75	128	1	1.440+	1 1.440+	68 2008	21 N,D
	33-AS-75	134		1.400+	1 1.400+	62 2346	18 N,ALPHA
C	33-AS-75	521		5.000-	7 1.500+	68 2770	1 ABSORPTION
	33-AS-75			0.000+	0 7.500-	58 548	1 AVERAGE RESONANCE PARAMETERS
C	33-AS-75			0.000+	0 4.000-	25 1872	1 AVERAGE RESONANCE PARAMETERS
N	33-AS-75			0.000+	0 1.000-	64 814	2 AVERAGE RESONANCE PARAMETERS
N	33-AS-75			0.000+	0 5.000-	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	33-AS-75			3.000-	3 6.500-	64 1226	2 AVERAGE RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-137 ***

ZA = 33075

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 34000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
34-SE-NAT	102		5.000-1	8.000-1	64 886	16	ELASTIC
34-SE-NAT	102		8.360-1	8.360-1	72 3946	8	ELASTIC
34-SE-NAT	102		1.000+0	1.000+0	54 103	9	ELASTIC
34-SE-NAT	102		2.900+0	2.900+0	60 920	11	ELASTIC
34-SE-NAT	102		3.200+0	3.200+0	66 2950	12	ELASTIC
34-SE-NAT	102		3.660+0	3.660+0	62 637	21	ELASTIC
34-SE-NAT	102		7.000+0	7.000+0	63 836	1	ELASTIC
34-SE-NAT	102		1.400+1	1.400+1	57 501	12	ELASTIC
34-SE-NAT	105		6.000-2	1.780+0	56 231	110	TOTAL SCATTERING
34-SE-NAT	111	1	2.450+0	2.450+0	56 476	2	N,N'
34-SE-NAT	111	7	3.110+0	4.720+0	71 1727	31	N,N'
34-SE-NAT	224		1.410+1	1.410+1	67 2232	25	N,X GAMMA
34-SE-NAT	304		1.455+1	1.455+1	74 4002	476	NEUTRON EMISSION
34-SE-NAT	311	80	1.410+1	1.410+1	65 1908	40	N,N'
34-SE-NAT	521		4.900-7	1.500+1	57 1054	1	ABSORPTION
34-SE-NAT	606		1.480+1	1.450+1	66 1042	15	NONELASTIC EMISSION
34-SE-NAT			1.410+1	1.410+1	65 1908	2	NUCLEAR TEMPERATURE
34-SE-NAT			1.480+1	1.480+1	67 2897	2	NUCLEAR TEMPERATURE
34-SE-NAT			5.155-6	7.140-3	64 1015	15	RESONANCE PARAMETERS
34-SE-NAT			2.710-5	3.830-4	55 1824	4	RESONANCE PARAMETERS
34-SE-NAT			3.740-4	2.230-3	62 881	7	RESONANCE PARAMETERS
34-SE-NAT			5.050-3	0.600-3	58 15	3	RESONANCE PARAMETERS
34-SE-74	12		1.295+1	1.960+1	66 2894	7	N,2N
34-SE-74	12		1.371+1	1.758+1	69 2366	9	N,2N
34-SE-74	12		1.470+1	1.470+1	69 4077	1	N,2N
34-SE-74	12	3	1.295+1	1.960+1	66 2894	7	N,2N
34-SE-74	12	3	1.440+1	1.440+1	61 676	1	N,2N
34-SE-74	12	3	1.440+1	1.440+1	67 1844	1	N,2N
34-SE-74	12	3	1.470+1	1.470+1	67 1876	1	N,2N
34-SE-74	12	4	1.295+1	1.960+1	66 2894	10	N,2N
34-SE-74	12	4	1.440+1	1.440+1	61 676	1	N,2N
34-SE-74	12	4	1.440+1	1.440+1	67 1844	1	N,2N
34-SE-74	12	4	1.470+1	1.470+1	67 1876	1	N,2N
34-SE-74	23		2.530-8	2.530-8	47 888	1	N,GAMMA
34-SE-74	23		2.500-2	2.500-2	70 3971	1	N,GAMMA
34-SE-74	26		1.295+1	1.960+1	66 1882	10	N,P
34-SE-74	26		1.405+1	1.475+1	66 1874	2	N,P
34-SE-74	26		1.440+1	1.440+1	67 1844	1	N,P
34-SE-74	26		1.470+1	1.470+1	69 4077	1	N,P
34-SE-74	26		1.480+1	1.480+1	67 2006	1	N,P
34-SE-74	73		2.500-8	2.500-8	52 342	1	N,GAMMA
34-SE-74	73		2.500-8	2.500-8	67 2001	1	N,GAMMA
34-SE-74	73		2.500-8	2.500-8	67 3353	1	N,GAMMA
34-SE-74	76	5	1.000+0	1.000+0	67 3721	1	N,P
34-SE-74	224	80	2.500-8	2.500-9	73 0075	151	N,X GAMMA
34-SE-74	523		4.400-7	1.500+1	67 2001	1	N,GAMMA
34-SE-74	523		6.070-7	1.500+1	68 2428	1	N,GAMMA
34-SE-74	862	4	1.371+1	1.758+1	69 2366	9	N,2N
34-SE-74			0.000+0	7.200-3	70 3047	2	AVERAGE RESONANCE PARAMETERS
34-SE-74			2.700-5	2.700-4	64 1015	5	RESONANCE PARAMETERS
34-SE-74			2.700-5	2.720-4	59 1774	7	RESONANCE PARAMETERS
34-SE-74			2.700-5	2.680-4	62 881	2	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-179 ***

ZA = 34074

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 34074

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	34-SE-74		2.710-5	7.216-3	70 3047	15	RESONANCE PARAMETERS
	34-SE-74		2.700-4	2.700-4	69 1878	4	RESONANCE PARAMETERS
N	34-SE-76	2	6.000+0	1.000+1	75 3903	3	ELASTIC
N	34-SE-76	11	5.600-1	1.545+0	72 4034	175	N,N'
N	34-SE-76	11	6.000+0	8.000+0	75 3903	2	N,N'
N	34-SE-76	12	1.188+1	1.475+1	75 3807	7	N,2N
	34-SE-76	12	1.405+1	1.475+1	66 1874	2	N,2N
	34-SE-76	12	1.440+1	1.440+1	67 1844	1	N,2N
	34-SE-76	12	1.470+1	1.470+1	67 1876	1	N,2N
	34-SE-76	26	1.440+1	1.440+1	67 1844	1	N,P
	34-SE-76	26	1.470+1	1.470+1	67 1876	1	N,P
N	34-SE-76	26	1.470+1	1.470+1	67 2004	1	N,P
	34-SE-76	26	1.470+1	1.470+1	69 4077	1	N,P
	34-SE-76	26	1.490+1	1.480+1	67 2006	1	N,P
	34-SE-76	73	2.500-8	2.500-8	52 342	1	N,GAMMA
	34-SE-76	73	2.500-8	2.500-8	60 1808	1	N,GAMMA
	34-SE-76	73	2.500-8	2.500-8	62 2695	1	N,GAMMA
	34-SE-76	73	2.500-8	2.500-8	63 2581	1	N,GAMMA
	34-SE-76	73	2.500-8	2.500-8	65 910	1	N,GAMMA
N	34-SE-76	76	1.000+0	1.000+0	67 3721	1	N,P
N	34-SE-76	102	6.000+0	1.000+1	75 3903	58	ELASTIC
N	34-SE-76	111	6.000+0	8.000+0	75 3903	36	ANGULAR DISTRIBUTION
N	34-SE-76	111	7	2.000+0	4.100+0	310	ANGULAR DISTRIBUTION
C	34-SE-76		0.000+0	5.350-3	64 1015	2	AVERAGE RESONANCE PARAMETERS
C	34-SE-76		0.000+0	1.320-2	70 3047	2	AVERAGE RESONANCE PARAMETERS
C	34-SE-76		4.950-3	3.480-2	61 2475	1	AVERAGE RESONANCE PARAMETERS
	34-SE-76		3.790-4	8.550-4	62 681	2	RESONANCE PARAMETERS
	34-SE-76		3.760-4	3.760-4	69 1878	4	RESONANCE PARAMETERS
	34-SE-76		3.760-4	5.350-3	64 1015	16	RESONANCE PARAMETERS
	34-SE-76		3.780-4	1.328-2	70 3047	32	RESONANCE PARAMETERS
	34-SE-76		8.600-4	2.600-3	59 1774	4	RESONANCE PARAMETERS
	34-SE-76		4.960-3	2.420-2	66 2475	7	RESONANCE PARAMETERS
	34-SE-77	11	2.800+0	2.800+0	67 2602	1	N,N'
N	34-SE-77	11	1.450+1	1.450+1	70 2987	1	N,N'
	34-SE-77	26	1.450+1	1.450+1	53 27	1	N,P
	34-SE-77	26	1.480+1	1.480+1	67 2006	1	N,P
N	34-SE-77	28	1.470+1	1.470+1	69 4077	1	N,D
	34-SE-77	36	1.470+1	1.470+1	67 2004	1	ACTIVATION
	34-SE-77	61	2.000+0	2.000+0	65 910	1	N,N'
	34-SE-77	73	2.500-8	2.500-8	52 342	1	N,GAMMA
N	34-SE-77	76	1.000+0	1.000+0	67 3721	1	N,P
N	34-SE-77	224 80	2.500-8	2.500-8	73 4064	123	N,X GAMMA
	34-SE-77		0.000+0	9.910-4	64 1015	3	AVERAGE RESONANCE PARAMETERS
C	34-SE-77		0.000+0	2.000-3	66 1872	2	AVERAGE RESONANCE PARAMETERS
C	34-SE-77		0.000+0	3.900-3	70 3047	2	AVERAGE RESONANCE PARAMETERS
	34-SE-77		1.120-4	1.480-3	62 2119	46	RESONANCE PARAMETERS
	34-SE-77		1.120-4	2.250-3	64 1015	48	RESONANCE PARAMETERS
	34-SE-77		1.120-4	3.919-3	70 3047	78	RESONANCE PARAMETERS
	34-SE-77		2.110-4	6.880-4	69 1878	12	RESONANCE PARAMETERS
	34-SE-78	2	6.900+0	9.980-4	59 1774	3	RESONANCE PARAMETERS
N	34-SE-78	11	8.000+0	8.000+0	75 3903	1	ELASTIC
N	34-SE-78	11	6.170-1	1.545+0	72 4034	167	N,N'

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-140 ***

ZA = 34078

07/04/78

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 34078

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	34-SE-78	11	1	8.000+ 0	8.000+ 0	75 3903	1	N,N'
N	34-SE-78	12		1.091+ 1	1.476+ 1	75 3807	9	N,2N
N	34-SE-78	12	2	1.450+ 1	1.450+ 1	70 2987	1	N,2N
	34-SE-78	12	2	1.470+ 1	1.470+ 1	67 1876	1	N,2N
	34-SE-78	26		1.440+ 1	1.440+ 1	67 1844	1	N,P
N	34-SE-78	26		1.470+ 1	1.470+ 1	69 4077	1	N,P
	34-SE-78	26	3	1.470+ 1	1.470+ 1	67 1876	2	N,P
	34-SE-78	26	3	1.480+ 1	1.480+ 1	67 2006	1	N,P
	34-SE-78	34		1.440+ 1	1.440+ 1	67 1844	1	N,ALPHA
	34-SE-78	34	2	1.470+ 1	1.470+ 1	67 1876	1	N,ALPHA
	34-SE-78	34	3	1.470+ 1	1.470+ 1	67 1876	1	N,ALPHA
	34-SE-78	34	3	1.480+ 1	1.480+ 1	67 2006	1	N,ALPHA
	34-SE-78	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA
	34-SE-78	73	3	2.500- 8	2.500- 8	60 1808	1	N,GAMMA
	34-SE-78	73	3	2.500- 8	2.500- 8	62 2696	1	N,GAMMA
	34-SE-78	73	3	2.500- 8	2.500- 8	65 810	1	N,GAMMA
N	34-SE-78	102		8.000+ 0	8.000+ 0	75 3903	24	ELASTIC
N	34-SE-78	111	1	8.000+ 0	8.000+ 0	75 3903	17	N,N'
N	34-SE-78	111	7	2.500+ 0	4.100+ 0	75 3911	251	N,N'
N	34-SE-78	224	80	2.500- 8	2.500- 8	70 4032	7	N,X GAMMA
C	34-SE-78	523		8.000+ 0	1.500+ 1	68 2426	1	N,GAMMA
C	34-SE-78			0.000+ 0	2.000- 2	70 3047	2	AVERAGE RESONANCE PARAMETERS
	34-SE-78			3.800- 4	3.820- 4	62 881	1	RESONANCE PARAMETERS
	34-SE-78			3.810- 4	3.190- 3	64 1015	5	RESONANCE PARAMETERS
	34-SE-78			3.817- 4	3.817- 4	69 1878	4	RESONANCE PARAMETERS
	34-SE-78			3.820- 4	3.820- 4	59 1774	3	RESONANCE PARAMETERS
	34-SE-78			3.840- 4	2.015- 2	70 3047	23	RESONANCE PARAMETERS
	34-SE-78			5.730- 3	4.050- 2	66 2475	9	RESONANCE PARAMETERS
	34-SE-80	1		4.000+ 0	4.000+ 0	67 1643	1	TOTAL
	34-SE-80	2		4.000+ 0	4.000+ 0	64 1643	1	ELASTIC
N	34-SE-80	2		8.000+ 0	8.000+ 0	75 3903	1	ELASTIC
N	34-SE-80	11	1	6.730- 1	1.535+ 0	72 4031	155	N,N'
N	34-SE-80	11	1	8.000+ 0	8.000+ 0	75 3903	1	N,N'
N	34-SE-80	12		1.042+ 1	1.476+ 1	75 3807	10	N,2N
	34-SE-80	12	3	1.300+ 1	1.675+ 1	67 2888	13	N,2N
N	34-SE-80	12	3	1.320+ 1	1.780+ 1	75 3818	10	N,2N
	34-SE-80	12	3	1.440+ 1	1.440+ 1	67 1844	1	N,2N
	34-SE-80	12	3	1.470+ 1	1.470+ 1	67 1876	1	N,2N
	34-SE-80	12	3	1.480+ 1	1.480+ 1	65 1957	1	N,2N
N	34-SE-80	14		1.336+ 1	1.778+ 1	71 3818	8	N,N'P
	34-SE-80	23		1.100- 2	3.380- 1	69 2994	6	N,GAMMA
	34-SE-80	23		2.000- 1	3.128+ 0	68 3014	17	N,GAMMA
	34-SE-80	23	3	1.100- 2	3.380- 1	69 2994	14	N,GAMMA
	34-SE-80	23	3	2.400- 2	2.400- 2	66 1788	2	N,GAMMA
	34-SE-80	23	3	3.000+ 0	3.000+ 0	68 2345	2	N,GAMMA
N	34-SE-80	23	11	2.500- 2	2.500- 2	72 3955	2	N,GAMMA
	34-SE-80	26		1.470+ 1	1.470+ 1	67 1876	1	N,P
	34-SE-80	34		1.470+ 1	1.470+ 1	67 2004	1	N,ALPHA
N	34-SE-80	34		1.470+ 1	1.470+ 1	69 4077	1	N,ALPHA
	34-SE-80	34	2	1.450+ 1	1.450+ 1	53 27	1	N,ALPHA
	34-SE-80	34	2	1.470+ 1	1.470+ 1	67 1876	1	N,ALPHA
	34-SE-80	34	4	1.470+ 1	1.470+ 1	67 1876	1	N,ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-141 ***

ZA = 34080

07/04/76

CSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 34080

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
34-SE-80	34	4	1.480+ 1	1.480+ 1	67 2006	1	N, ALPHA
34-SE-80	73		2.500- 8	2.500- 8	52 342	1	N, GAMMA
34-SE-80	73	3	2.500- 8	2.500- 8	57 2700	2	N, GAMMA
34-SE-80	102		4.000+ 0	4.000+ 0	64 1643	17	ELASTIC
N 34-SE-80	102		8.000+ 0	8.000+ 0	75 3903	22	ELASTIC
N 34-SE-80	111	1	8.000+ 0	8.000+ 0	75 3903	15	N, N'
N 34-SE-80	111	7	2.000+ 0	4.100+ 0	75 3911	240	N, N'
N 34-SE-80	224	80	2.500- 8	2.500- 8	70 4032	7	N, X GAMMA
C 34-SE-80	523		6.000- 7	1.500+ 1	68 2426	1	N, GAMMA
N 34-SE-80	873		2.500- 2	2.500- 2	72 3865	1	N, GAMMA
C 34-SE-80			0.000+ 0	6.000+ 3	64 1015	1	AVERAGE RESONANCE PARAMETERS
N 34-SE-80			0.000+ 0	1.500+ 2	59 1774	1	AVERAGE RESONANCE PARAMETERS
N 34-SE-80			0.000+ 0	2.300- 2	70 3047	2	AVERAGE RESONANCE PARAMETERS
34-SE-80			1.740- 3	2.312- 2	70 3047	15	RESONANCE PARAMETERS
34-SE-80			1.963- 3	1.963- 3	62 881	1	RESONANCE PARAMETERS
34-SE-80			1.980- 3	5.080- 3	64 1015	3	RESONANCE PARAMETERS
34-SE-80			2.000- 3	5.300- 3	59 1774	5	RESONANCE PARAMETERS
34-SE-80			3.950- 3	3.990- 2	66 2475	8	RESONANCE PARAMETERS
34-SE-80			4.250- 3	4.950- 3	58 15	2	RESONANCE PARAMETERS
N 34-SE-82	2		6.000+ 0	1.000+ 1	75 3903	3	ELASTIC
N 34-SE-82	11	1	6.570- 1	1.535+ 0	72 4034	158	N, N'
N 34-SE-82	11	1	6.000+ 0	8.000+ 0	75 3903	2	N, N'
N 34-SE-82	12		9.930+ 0	1.476+ 1	75 3807	11	N, 2N
34-SE-82	12		1.230+ 1	1.230+ 1	67 2009	1	N, 2N
N 34-SE-82	12		1.510+ 1	1.510+ 1	75 3567	1	N, 2N
N 34-SE-82	12	3	1.300+ 1	1.780+ 1	75 3818	10	N, 2N
34-SE-82	12	3	1.440+ 1	1.440+ 1	67 1844	2	N, 2N
34-SE-82	12	3	1.450+ 1	1.450+ 1	53 27	1	N, 2N
34-SE-82	12	3	1.470+ 1	1.470+ 1	67 1876	2	N, 2N
34-SE-82	12	3	1.480+ 1	1.480+ 1	65 1957	1	N, 2N
N 34-SE-82	12	3	1.480+ 1	1.480+ 1	72 3868	2	N, 2N
N 34-SE-82	12	3	1.510+ 1	1.510+ 1	75 3567	2	N, 2N
34-SE-82	23		1.450+ 1	1.450+ 1	57 521	1	N, GAMMA
34-SE-82	23	2	2.400- 2	2.400- 2	56 1788	1	N, GAMMA
34-SE-82	23	3	2.530- 8	2.530- 6	47 688	1	N, GAMMA
34-SE-82	73		2.500- 8	2.500- 8	52 342	1	N, GAMMA
N 34-SE-82	102		6.000+ 0	1.000+ 1	75 3903	58	ELASTIC
N 34-SE-82	111	1	6.000+ 0	8.000+ 0	75 3903	32	N, N'
N 34-SE-82	111	7	2.500+ 0	4.100+ 0	75 3911	154	N, N'
N 34-SE-82	862	3	1.300+ 1	1.780+ 1	75 3818	10	N, 2N
34-SE-82	873	3	2.500- 8	2.500- 8	67 2390	1	N, GAMMA
34-SE-82			6.580- 3	2.655- 2	66 2475	4	RESONANCE PARAMETERS
35-BR-NAT	1		5.800- 9	1.080- 5	50 1939	54	TOTAL
35-BR-NAT	1		2.850- 5	1.684- 3	55 1774	225	TOTAL
C 35-BR-NAT	1		8.189- 5	4.003- 3	65 814	5873	TOTAL
35-BR-NAT	1		1.150- 4	3.000- 4	49 844	2	TOTAL
35-BR-NAT	1		1.000- 3	1.000- 1	51 70	4	TOTAL
35-BR-NAT	1		5.800- 2	3.037+ 0	56 150	54	TOTAL
35-BR-NAT	1		2.210+ 0	2.765+ 0	53 94	14	TOTAL
35-BR-NAT	1		2.262+ 0	1.456+ 1	67 750	245	TOTAL
35-BR-NAT	1		2.800+ 0	1.230+ 1	54 504	27	TOTAL
35-BR-NAT	1		3.060+ 0	3.660+ 0	61 637	1	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-142 ***

ZA = 35000

07/04/76

EL51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 35079

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
35-BR-79	23	4	2.400-	2.400-	2	66 1788	1 N GAMMA
35-BR-79	23	4	1.600-	1.500+	0	64 2069	16 N.GAMMA
35-BR-79	23	4	1.800-	1.700+	0	59 663	13 N.GAMMA
N 35-BR-79	23	11	2.500-	2.500-	2	72 3965	2 N.GAMMA
35-BR-79	26	3	1.480+	1.480+	1	66 3380	1 N.P
35-BR-79	34	1	1.320+	1.870+	1	63 417	10 N.ALPHA
N 35-BR-79	34	1	1.360+	1.480+	1	71 3765	3 N.ALPHA
35-BR-79	34	1	1.405+	1.405+	1	58 401	1 N.ALPHA
35-BR-79	34	1	1.440+	1.440+	1	68 2002	1 N.ALPHA
N 35-BR-79	34	1	1.480+	1.480+	1	65 3379	1 N.ALPHA
N 35-BR-79	34	1	1.480+	1.480+	1	66 3380	1 N.ALPHA
35-BR-79	34	1	1.480+	1.480+	1	67 2006	1 N.ALPHA
35-BR-79	34	4	1.440+	1.440+	1	71 3184	1 N.ALPHA
N 35-BR-79	34	4	1.480+	1.480+	1	63 756	1 N.ALPHA
N 35-BR-79	61	2	4.500+	4.500+	0	73 3989	1 N.N'
35-BR-79	73	3	2.500-	2.500-	8	49 2742	1 N.GAMMA
N 35-BR-79	73	3	4.500+	4.500+	0	73 3989	1 N.GAMMA
35-BR-79	74	4	2.500-	2.500-	8	49 2742	1 N.GAMMA
N 35-BR-79	73	4	4.500+	4.500+	0	73 3989	1 N.GAMMA
35-BR-79	871	1	2.500-	2.500-	8	50 2701	1 ABSORPTION
N 35-BR-79	873	1	2.500-	2.500-	2	72 3965	1 N.GAMMA
35-BR-79	873	3	2.500-	3.100+	0	65 3293	8 N.GAMMA
C 35-BR-79	0.000+	0	4.000+	4.000+	4	63 2068	1 AVERAGE RESONANCE PARAMETERS
C 35-BR-79	3.000-	5	1.500-	1.500-	4	59 1774	1 AVERAGE RESONANCE PARAMETERS
35-BR-79	3.560-	5	3.170-	3.170-	4	59 1774	28 RESONANCE PARAMETERS
35-BR-79	3.578-	5	3.946-	3.946-	4	65 1813	24 RESONANCE PARAMETERS
35-BR-79	3.580-	5	3.945-	3.945-	4	59 2476	23 RESONANCE PARAMETERS
35-BR-79	3.590-	5	3.196-	3.196-	4	65 2474	20 RESONANCE PARAMETERS
35-BR-79	3.590-	5	3.948-	3.948-	4	63 2058	33 RESONANCE PARAMETERS
35-BR-79	1.895-	4	3.945-	3.945-	4	64 814	14 RESONANCE PARAMETERS
35-BR-81	12	1	1.339+	1.496+	1	67 1871	10 N.2N
35-BR-81	12	1	1.460+	1.460+	1	62 702	1 N.2N
N 35-BR-81	12	1	1.510+	1.510+	1	75 3567	1 N.2N
35-BR-81	12	3	1.410+	1.410+	1	61 704	1 N.2N
35-BR-81	12	3	1.440+	1.440+	1	68 2002	1 N.2N
35-BR-81	12	3	1.440+	1.440+	1	71 3184	1 N.2N
35-BR-81	12	3	1.450+	1.450+	1	53 27	1 N.2N
35-BR-81	12	3	1.460+	1.460+	1	62 702	1 N.2N
N 35-BR-81	12	3	1.480+	1.480+	1	65 3779	2 N.2N
N 35-BR-81	12	3	1.510+	1.510+	1	75 3567	1 N.2N
35-BR-81	12	4	1.254+	1.960+	1	62 562	10 N.2N
35-BR-81	12	4	1.339+	1.496+	1	67 1871	10 N.2N
35-BR-81	12	4	1.410+	1.410+	1	61 704	1 N.2N
35-BR-81	12	4	1.440+	1.440+	1	61 676	1 N.2N
35-BR-81	12	4	1.440+	1.440+	1	68 2002	1 N.2N
35-BR-81	12	4	1.440+	1.440+	1	71 3184	1 N.2N
35-BR-81	12	4	1.460+	1.460+	1	62 702	1 N.2N
N 35-BR-81	12	4	1.480+	1.480+	1	65 3379	1 N.2N
N 35-BR-81	12	4	1.510+	1.510+	1	75 3567	1 N.2N
35-BR-81	23	2	2.530-	2.530-	9	47 888	1 N.GAMMA
35-BR-81	23	2	2.400-	2.400-	2	57 305	1 N.GAMMA
35-BR-81	23	1	1.650-	1.500+	0	64 2069	17 N.GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-144 ***

ZA = 35081

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 35081

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
35-BR-B1	23		1.800-1	2.500+0	59 663	3	N, GAMMA
35-BR-B1	23		1.950-1	1.950+1	59 626	1	N, GAMMA
35-BR-B1	23		1.450+1	1.450+1	57 521	1	N, GAMMA
35-BR-B1	23	3	3.000+0	3.000+0	68 2345	1	N, GAMMA
35-BR-B1	23	4	2.400-2	2.400-2	66 1788	1	N, GAMMA
35-BR-B1	26		1.460+1	1.460+1	62 702	1	N, F
35-BR-B1	26	3	1.440+1	1.440+1	71 3184	1	N, P
35-BR-B1	26	3	1.460+1	1.460+1	62 702	2	N, P
35-BR-B1	26	3	1.430+1	1.480+1	66 3380	2	N, P
35-BR-B1	26	3	1.480+1	1.480+1	67 2006	2	N, P
35-BR-B1	34		1.350+1	1.480+1	71 3765	3	N, ALPHA
35-BR-B1	34		1.440+1	1.440+1	68 2002	1	N, ALPHA
35-BR-B1	34		1.460+1	1.460+1	62 702	1	N, ALPHA
35-BR-B1	34		1.480+1	1.480+1	63 756	1	N, ALPHA
35-BR-B1	34		1.480+1	1.480+1	65 3379	2	N, ALPHA
35-BR-B1	34		1.480+1	1.480+1	66 3380	1	N, ALPHA
35-BR-B1	34	3	1.440+1	1.440+1	71 3184	1	N, ALPHA
35-BR-B1	34	3	1.450+1	1.450+1	53 27	1	N, ALPHA
35-BR-B1	34	3	1.480+1	1.480+1	67 2006	1	N, ALPHA
35-BR-B1	73		2.500-8	2.500-8	60 909	1	N, GAMMA
35-BR-B1	73		2.500-8	2.500-8	65 2070	1	N, GAMMA
35-BR-B1	73	3	2.500-8	2.500-8	65 2070	1	N, GAMMA
35-BR-B1	73	4	2.500-8	2.500-8	49 2742	1	N, GAMMA
35-BR-B1	73	4	2.500-8	2.500-8	65 2070	1	N, GAMMA
35-BR-B1	76	3	2.000+0	2.000+0	67 3354	2	N, P
35-BR-B1	523		5.000-7	1.500+1	65 2070	1	N, GAMMA
35-BR-B1	523		6.000-7	1.500+1	58 2426	1	N, GAMMA
35-BR-B1	523	3	5.000-7	1.500+1	65 2070	1	N, GAMMA
35-BR-B1	523	4	5.000-7	1.500+1	65 2070	1	N, GAMMA
35-BR-B1			1.010-4	2.050-4	64 814	6	RESONANCE PARAMETERS
35-BR-B1			1.011-4	1.355-4	65 1813	14	RESONANCE PARAMETERS
35-BR-B1			1.012-4	2.049-4	59 2476	11	RESONANCE PARAMETERS
35-BR-B1			1.013-4	1.359-4	65 2474	8	RESONANCE PARAMETERS
35-BR-B1			1.013-4	1.045-4	63 2658	15	RESONANCE PARAMETERS
35-BR-B1			1.020-4	2.050-4	59 1774	14	RESONANCE PARAMETERS
35-KR-NAT	1		3.100-9	2.510-8	63 777	23	TOTAL
36-KR-NAT	1		1.200-8	1.130-1	57 2349	83	TOTAL
36-KR-NAT	1		7.470-8	6.195-6	69 2998	14	TOTAL
36-KR-NAT	1		1.000-3	1.280-1	57 434	8	TOTAL
36-KR-NAT	1		1.190-1	1.977+1	60 570	135	TOTAL
36-KR-NAT	1		2.150+0	2.850+0	61 753	5	TOTAL
36-KR-NAT	5		2.530-8	2.530-8	69 2998	1	TOTAL SCATTERING
36-KR-NAT	21		2.530-8	2.530-8	57 434	1	ABSORPTION
36-KR-NAT	21		2.530-8	2.530-8	66 2680	1	ABSORPTION
36-KR-NAT	23		2.530-8	2.530-8	69 2998	1	N, GAMMA
36-KR-NAT	23		3.000-2	6.500-2	63 1	2	N, GAMMA
36-KR-NAT	25		6.350+0	1.195+1	62 2071	12	N, X CHARGED PARTICLE
36-KR-NAT	42		2.530-8	2.530-8	66 2680	1	FREE ATOM
36-KR-NAT	71		2.500-8	2.500-8	50 2681	1	ABSORPTION
36-KR-NAT	92		2.500-8	2.500-8	66 1691	1	FREE ATOM
36-KR-NAT			0.000+0	6.400-4	59 2072	1	AVERAGE RESONANCE PARAMETERS
36-KR-NAT			6.400-4	6.400-4	59 2072	1	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-145 ***

ZA = 36000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 36076

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
36-KR-78	12		1.440+	1.440+	1.66 2842	1	N,2N
36-KR-78	73		2.500-	2.500-	68 2843	1	N,GAMMA
36-KR-78	73	2	2.500-	2.500-	68 2843	1	N,GAMMA
36-KR-80	12		1.440+	1.440+	1.66 2842	1	N,2N
36-KR-80	12	2	1.440+	1.440+	1.66 2842	1	N,2N
36-KR-80	26	4	1.440+	1.440+	1.66 2842	1	N,P
36-KR-80	73		2.500-	2.500-	50 2581	1	N,GAMMA
36-KR-80	73		2.500-	2.500-	50 2703	1	N,GAMMA
36-KR-80	73		2.500-	2.500-	63 1010	1	N,GAMMA
36-KR-80	73	2	2.500-	2.500-	68 2843	1	N,GAMMA
36-KR-80						3	RESONANCE PARAMETERS
36-KR-82	12	2	1.440+	1.440+	1.66 2842	1	N,2N
36-KR-82	26		1.440+	1.440+	1.66 2842	1	N,P
36-KR-82	3	4	2.500-	2.500-	65 2073	1	N,GAMMA
36-KR-82	3	4	2.500-	2.500-	68 2843	1	N,GAMMA
36-KR-82			3.980-	3.980-	59 2072	2	RESONANCE PARAMETERS
36-KR-82			4.110-	4.110-	57 434	2	RESONANCE PARAMETERS
36-KR-83			2.790-	2.790-	59 2072	5	RESONANCE PARAMETERS
36-KR-83			2.830-	2.830-	57 434	2	RESONANCE PARAMETERS
36-KR-84	26		1.440+	1.440+	1.66 2842	1	N,P
36-KR-84	73	4	2.500-	2.500-	68 2843	1	N,GAMMA
36-KR-84	73	6	2.500-	2.500-	51 2704	1	N,GAMMA
36-KR-84	73	6	2.500-	2.500-	63 1010	1	N,GAMMA
36-KR-84			5.190-	5.800-	59 2072	4	RESONANCE PARAMETERS
36-KR-85	73		2.500-	2.500-	72 3250	1	N,GAMMA
36-KR-85	523		5.400-	7.150+	72 3250	1	N,GAMMA
36-KR-86	12	4	1.440+	1.440+	1.66 2842	1	N,2N
36-KR-86	23		1.000+	1.000+	49 185	1	N,GAMMA
36-KR-86	34		1.440+	1.440+	1.66 2842	1	N,ALPHA
37-RB-NAT	1		1.986-	4.960-	55 228	459	TOTAL
37-RB-NAT	1		1.000-	3.1500-	61 737	52	TOTAL
37-RB-NAT	1		4.600-	3.6070-	3 56 142	9	TOTAL
37-RB-NAT	1		4.750-	3.2480-	2 57 154	51	TOTAL
37-RB-NAT	1		3.505-	1.1108+	0 73 3990	353	TOTAL
37-RB-NAT	1		2.250+	0.1491+	1 67 750	242	TOTAL
37-RB-NAT	1		1.469+	1.1496+	1 66 2074	2	TOTAL
37-RB-NAT	2		1.300-	1.1100+	0 73 3991	18	ELASTIC
37-RB-NAT	23		1.280-	4.4200-	2 62 2067	53	N,GAMMA
37-RB-NAT	23		3.000-	2.6500-	2 63 1	4	N,GAMMA
37-RB-NAT	23		4.000-	2.4000-	2 60 674	1	N,GAMMA
37-RB-NAT	26		1.280+	1.1680+	1 65 1857	5	N,P
37-RB-NAT	34		1.280+	1.1680+	1 65 1857	5	N,ALPHA
37-RB-NAT	41		7.300-	8.7300-	8 51 1584	1	BOUND ATOM
37-RB-NAT	43		2.530-	8.2530-	8 63 2877	1	COHERENT SCATTERING
37-RB-NAT	43		2.530-	8.2530-	8 70 1006	1	COHERENT SCATTERING
37-RB-NAT	43		7.300-	8.7300-	8 51 1584	1	COHERENT SCATTERING
37-RB-NAT	71		2.500-	8.2500-	8 51 882	1	ABSORPTION
37-RB-NAT	73		2.500-	8.2500-	8 55 2938	1	N,GAMMA
37-RB-NAT	73	7	2.530-	8.2530-	8 70 2415	201	N,GAMMA
37-RB-NAT	73	10	2.530-	8.2530-	8 70 2415	20	N,GAMMA
37-RB-NAT	74		2.530-	8.2530-	8 70 2415	1	N,X GAMMA
37-RB-NAT	102		1.300-	1.1100+	0 73 3991	159	ELASTIC

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-146 ***

ZA = 37000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 37000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	RESONANCE INTEGRAL
C	37-RB-NAT	521	4.900-7	1.500+1	57 1054	1	ABSORPTION	
C	37-RB-NAT		0.000+0	5.000-2	66 1894	1	AVERAGE RESONANCE PARAMETERS	
	37-RB-NAT		1.960+3	3.050-3	65 2075	5	RESONANCE PARAMETERS	
	37-RB-05	1	2.500-3	1.340-2	61 737	47	TOTAL	
N	37-RB-05	11	1.470+1	1.470+1	72 3957	1	N,N'	
	37-RB-05	12	1.035+1	1.450+1	60 590	6	N,2N	
	37-RB-05	12	1.050+1	1.975+1	60 588	9	N,2N	
	37-RB-05	12	1.294+1	1.958+1	67 2888	10	N,2N	
	37-RB-05	12	1.360+1	1.360+1	67 2009	1	N,2N	
	37-RB-05	12	1.405+1	1.405+1	65 1873	1	N,2N	
	37-RB-05	12	1.460+1	1.460+1	62 702	1	N,2N	
	37-RB-05	12	1.470+1	1.470+1	66 1873	1	N,2N	
	37-RB-05	12	1.480+1	1.480+1	70 3150	1	N,2N	
N	37-RB-05	12	1.500+1	1.700+1	73 3508	3	N,2N	
	37-RB-05	12	1.294+1	1.958+1	67 2888	10	N,2N	
N	37-RB-05	12	1.300+1	1.780+1	72 3854	10	N,2N	
	37-RB-05	12	1.440+1	1.440+1	68 2002	1	N,2N	
	37-RB-05	12	1.440+1	1.440+1	71 3184	1	N,2N	
	37-RB-05	12	1.480+1	1.480+1	70 3150	1	N,2N	
N	37-RB-05	12	1.480+1	1.480+1	71 3819	1	N,2N	
N	37-RB-05	12	1.500+1	1.700+1	73 3508	3	N,2N	
N	37-RB-05	12	1.300+1	1.660+1	72 3854	8	N,2N	
	37-RB-05	12	1.440+1	1.440+1	68 2002	1	N,2N	
	37-RB-05	12	1.440+1	1.440+1	71 3184	1	N,2N	
N	37-RB-05	12	1.460+1	1.460+1	73 3988	1	N,2N	
	37-RB-05	12	1.480+1	1.480+1	70 3150	1	N,2N	
	37-RB-05	23	1.580-4	1.750-2	62 2067	39	N,GAMMA	
N	37-RB-05	23	2.500-2	2.500-2	70 3969	2	N,GAMMA	
	37-RB-05	23	1.400-1	2.602+0	68 2694	13	N,GAMMA	
	37-RB-05	23	1.560-1	1.484+0	69 2533	28	N,GAMMA	
	37-RB-05	23	2.800+0	2.800+0	67 2602	1	N,GAMMA	
	37-RB-05	23	2.530-8	2.530-8	47 888	1	N,GAMMA	
	37-RB-05	23	2.400-2	2.400-2	57 305	1	N,GAMMA	
N	37-RB-05	23	2.500-2	2.500-2	72 3865	2	N,GAMMA	
	37-RB-05	26	1.294+1	1.958+1	66 1882	10	N,P	
N	37-RB-05	26	1.330+1	1.560+1	74 4010	5	N,P	
	37-RB-05	26	1.440+1	1.440+1	68 2002	1	N,P	
	37-RB-05	26	1.440+1	1.440+1	71 3184	1	N,P	
	37-RB-05	26	1.480+1	1.480+1	70 3150	1	N,P	
N	37-RB-05	26	1.480+1	1.480+1	72 3832	1	N,P	
	37-RB-05	34	1.294+1	1.958+1	66 1882	10	N,ALPHA	
	37-RB-05	34	1.440+1	1.440+1	68 2002	1	N,ALPHA	
	37-RB-05	34	1.460+1	1.460+1	62 702	1	N,ALPHA	
N	37-RB-05	34	1.480+1	1.480+1	68 4071	1	N,ALPHA	
	37-RB-05	34	1.330+1	1.550+1	74 4010	5	N,ALPHA	
	37-RB-05	43	1.440+1	1.440+1	71 3184	1	N,ALPHA	
	37-RB-05	73	2.530-8	2.530-8	63 2877	1	COHERENT SCATTERING	
	37-RB-05	73	2.500-8	2.500-8	67 2001	1	N,GAMMA	
	37-RB-05	73	2.500-8	2.500-8	60 1808	1	N,GAMMA	
	37-RB-05	73	2.500-8	2.500-8	63 2556	1	N,GAMMA	
	37-RB-05	73	2.500-8	2.500-8	56 2702	1	N,GAMMA	
	37-RB-05	73	2.500-8	2.500-8	60 909	1	N,GAMMA	

SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-147 ***

ZA = 37085

07/04/76

ECSIL 7600 REACTION INDEX (ZA ORDERED)

ZA = 37085

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
37-RB-85	73	5	2.500-8	2.500-8	63 2556	1	N,GAMMA
37-RB-85	111	1	2.800-1	1.250+0	73 3931	98	N,N'
37-RB-85	523		4.400-7	1.500+1	67 2001	1	N,GAMMA
37-RB-85	523		5.000-7	1.500+1	69 3680	1	N,GAMMA
37-RB-85	523 80		6.000-7	1.500+1	72 3870	1	N,GAMMA
37-RB-85	873		2.500-2	2.500-2	70 3969	1	N,GAMMA
37-RB-85	873		2.500-2	2.500-2	72 3965	1	N,GAMMA
37-RB-85			0.000+0	1.300-3	65 2075	2	AVERAGE RESONANCE PARAMETERS
37-RB-85			0.000+0	7.000-3	61 727	2	AVERAGE RESONANCE PARAMETERS
37-RB-85			0.000+0	1.700-2	70 3049	1	AVERAGE RESONANCE PARAMETERS
37-RB-85			1.760-4	1.690-3	65 2075	23	RESONANCE PARAMETERS
37-RB-85			1.766-4	1.717-2	70 3049	64	RESONANCE PARAMETERS
37-RB-85			3.300-3	6.900-3	58 15	9	RESONANCE PARAMETERS
37-RB-86	41		2.500-2	2.500-2	70 3969	1	BOUND ATOM
37-RB-87	1		4.400-3	1.000-2	57 272	55	TOTAL
37-RB-87	1		4.600-3	1.360-2	58 15	55	TOTAL
37-RB-87	12		1.035+1	1.450+1	60 590	6	N,2N
37-RB-87	12		1.050+1	1.976+1	60 588	10	N,2N
37-RB-87	12		1.300+1	1.300+1	67 2009	1	N,2N
37-RB-87	12		1.405+1	1.470+1	66 1873	2	N,2N
37-RB-87	12		1.440+1	1.440+1	68 2002	1	N,2N
37-RB-87	12		1.460+1	1.460+1	62 702	1	N,2N
37-RB-87	12		1.480+1	1.480+1	70 3150	1	N,2N
37-RB-87	12		1.480+1	1.480+1	72 3832	2	N,2N
37-RB-87	12		1.500+1	1.620+1	73 3506	2	N,2N
37-RB-87	12 3		1.300+1	1.880+1	72 3854	10	N,2N
37-RB-87	12 3		1.480+1	1.480+1	70 3150	1	N,2N
37-RB-87	12 3		1.480+1	1.480+1	71 3819	1	N,2N
37-RB-87	12 3		1.480+1	1.480+1	72 3832	1	N,2N
37-RB-87	12 5		1.330+1	1.540+1	72 3854	5	N,2N
37-RB-87	12 5		1.440+1	1.440+1	71 3184	1	N,2N
37-RB-87	12 5		1.460+1	1.460+1	73 3968	1	N,2N
37-RB-87	12 5		1.470+1	1.470+1	74 3624	1	N,2N
37-RB-87	12 5		1.480+1	1.480+1	70 3150	1	N,2N
37-RB-87	23		2.530-8	2.530-8	47 888	1	N,GAMMA
37-RB-87	23		1.100-2	2.645+0	67 3388	19	N,GAMMA
37-RB-87	23		2.100-2	2.100-2	58 43	1	N,GAMMA
37-RB-87	23		2.400-2	2.400-2	57 305	1	N,GAMMA
37-RB-87	23		1.560+1	1.561+0	69 2533	23	N,GAMMA
37-RB-87	23		1.000+0	1.000+0	49 165	1	N,GAMMA
37-RB-87	23		2.500+0	4.000+0	58 1044	3	N,GAMMA
37-RB-87	23 3		2.400-2	2.400-2	68 2856	1	N,GAMMA
37-RB-87	26		1.440+1	1.440+1	58 2002	1	N,P
37-RB-87	26		1.480+1	1.480+1	70 3150	1	N,P
37-RB-87	26 3		1.440+1	1.440+1	71 3184	1	N,P
37-RB-87	34		1.440+1	1.440+1	68 2002	1	N,ALPHA
37-RB-87	34		1.460+1	1.460+1	62 702	1	N,ALPHA
37-RB-87	34		1.480+1	1.480+1	68 4071	2	N,ALPHA
37-RB-87	34 3		1.440+1	1.440+1	71 3184	1	N,ALPHA
37-RB-87	34 3		1.450+1	1.450+1	53 27	1	N,ALPHA
37-RB-87	111	1	5.600-1	1.250+0	73 3991	40	N,N'
37-RB-87	884		1.400+1	1.400+1	57 930	1	N,ALPHA

ANGULAR DISTRIBUTION
CROSS SECTION RATIO

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-148 ***

ZA = 37087

07/04/76

ECSIL-7600 REACTION INDEX (2A ORDERED)

2A = 37087

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	37-RB-87		0.000+ 0	2.350- 2	70 3049	1	AVERAGE RESONANCE PARAMETERS
	37-RB-87		2.670- 4	3.780- 4	65 2075	6	RESONANCE PARAMETERS
	37-RB-87		2.695- 4	2.347- 2	70 3049	17	RESONANCE PARAMETERS
	37-RB-87		5.000- 3	8.550- 3	58 15	8	RESONANCE PARAMETERS
	37-RB-88	73	2.500- 8	2.500- 8	58 1163	1	N,GAMMA
	37-RB-88	73	2.500- 8	2.500- 8	58 2851	1	N,GAMMA
	38-SR-NAT	1	7.250- 3	1.043- 1	56 143	73	TOTAL
	38-SR-NAT	1	1.000- 2	2.170- 1	61 728	406	TOTAL
	38-SR-NAT	1	5.000- 2	3.210+ 0	52 80	75	TOTAL
	38-SR-NAT	1	2.267+ 0	1.476+ 1	67 750	241	TOTAL
	38-SR-NAT	1	3.660+ 0	3.660+ 0	61 637	1	TOTAL
	38-SR-NAT	1	1.400+ 1	1.400+ 1	52 81	1	TOTAL
	38-SR-NAT	1	1.476+ 1	1.476+ 1	65 3697	1	TOTAL
	38-SR-NAT	1	1.620+ 1	1.620+ 1	58 975	1	TOTAL
	38-SR-NAT	1	1.620+ 1	1.620+ 1	55 133	1	TOTAL
	38-SR-NAT	1	4.200+ 1	4.200+ 1	50 281	1	TOTAL
	38-SR-NAT	2	6.600- 2	9.700- 2	58 325	5	ELASTIC
	38-SR-NAT	2	8.860- 1	8.860- 1	72 3546	1	ELASTIC
	38-SR-NAT	2	1.000+ 0	1.000+ 0	54 103	1	ELASTIC
	38-SR-NAT	2	2.000+ 0	2.000+ 0	65 1509	1	ELASTIC
	38-SR-NAT	2	3.660+ 0	3.660+ 0	61 637	1	ELASTIC
	38-SR-NAT	3	1.000+ 0	1.000+ 0	54 103	1	NONELASTIC
	38-SR-NAT	3	2.500+ 0	2.500+ 0	61 848	1	NONELASTIC
	38-SR-NAT	11	7.000+ 0	7.000+ 0	63 836	1	N,N'
	38-SR-NAT	21	2.400- 2	2.400- 2	65 1364	1	ABSORPTION
	38-SR-NAT	23	2.500- 2	8.300- 1	60 633	3	N,GAMMA
	38-SR-NAT	23	3.000- 2	6.500- 2	61 677	2	N,GAMMA
	38-SR-NAT	23	3.000- 2	6.500- 2	63 1	2	N,GAMMA
	38-SR-NAT	23	1.410+ 1	1.410+ 1	69 2220	1	N,GAMMA
	38-SR-NAT	26	1.400+ 1	1.400+ 1	61 361	1	N,P
	38-SR-NAT	41	7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
	38-SR-NAT	43	7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING
	38-SR-NAT	71	2.500- 8	2.500- 8	50 1623	1	ABSORPTION
	38-SR-NAT	71	2.500- 8	2.500- 8	50 1794	1	ABSORPTION
	38-SR-NAT	71	2.500- 8	2.500- 8	51 882	1	ABSORPTION
	38-SR-NAT	73	2.530- 8	2.530- 8	70 2415	188	N,GAMMA
	38-SR-NAT	73	2.530- 8	2.530- 8	70 2415	33	N,GAMMA
	38-SR-NAT	74	2.530- 8	2.530- 8	70 2415	1	N,X GAMMA
	38-SR-NAT	86	4.500+ 0	4.500+ 0	73 3989	1	ACTIVATION
	38-SR-NAT	102	5.600- 2	9.700- 2	58 325	12	ELASTIC
	38-SR-NAT	102	8.860- 1	8.860- 1	72 3546	8	ELASTIC
	38-SR-NAT	102	1.000+ 0	1.000+ 0	54 103	9	ELASTIC
	38-SR-NAT	102	3.200+ 0	3.200+ 0	66 2950	14	ELASTIC
	38-SR-NAT	102	3.660+ 0	3.660+ 0	62 637	21	ELASTIC
	38-SR-NAT	102	4.370+ 0	4.370+ 0	71 4022	15	ELASTIC
	38-SR-NAT	102	7.000+ 0	7.000+ 0	63 836	1	ELASTIC
	38-SR-NAT	102	1.476+ 1	1.476+ 1	65 3697	8	ELASTIC
	38-SR-NAT	111	1.476+ 1	1.476+ 1	65 3697	16	N,N'
	38-SR-NAT	224	1.410+ 1	1.410+ 1	69 2220	24	N,X GAMMA
	38-SR-NAT	311	1.410+ 1	1.410+ 1	65 1932	54	N,N'
C	38-SR-NAT	521	4.900- 7	1.500+ 1	57 1054	1	ABSORPTION
	38-SR-NAT		1.410- 1	1.410+ 1	65 1932	1	NUCLEAR TEMPERATURE

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-149 ***

2A = 38000

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 38000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
38-SR-NAT			1.320- 1	1.320- 1	61 728	1	RESONANCE PARAMETERS
38-SR-84	12		1.205+ 1	1.976+ 1	60 588	13	N,2N
38-SR-84	12		1.295+ 1	1.955+ 1	66 1768	10	N,2N
38-SR-84	12		1.460+ 1	1.460+ 1	62 702	1	N,2N
38-SR-84	12		1.480+ 1	1.480+ 1	61 703	1	N,2N
38-SR-84	12		1.480+ 1	1.480+ 1	70 3150	1	N,2N
38-SR-84	12	4	1.440+ 1	1.440+ 1	71 3184	1	N,2N
N 38-SR-84	23		2.500- 2	2.500- 2	70 3971	1	N,GAMMA
38-SR-84	73	3	2.500- 8	2.500- 8	60 1808	1	N,GAMMA
38-SR-84	73	3	2.500- 8	2.500- 8	65 910	1	N,GAMMA
38-SR-84	73	5	2.500- 8	2.500- 8	56 2857	1	N,GAMMA
38-SR-84	73	5	2.500- 8	2.500- 8	60 1808	1	N,GAMMA
N 38-SR-84	523		5.000- 7	1.500+ 1	69 3680	1	N,GAMMA
N 38-SR-84	523 80		5.000- 7	1.500+ 1	72 3873	1	N,GAMMA
38-SR-84	873	5	2.500- 8	2.500- 8	64 2632	1	N,GAMMA
38-SR-84			3.646- 4	3.350- 3	65 2112	11	RESONANCE PARAMETERS
38-SR-86	12		1.410+ 1	1.410+ 1	59 615	1	N,2N
38-SR-86	12		1.460+ 1	1.460+ 1	62 702	1	N,2N
38-SR-86	12		1.460+ 1	1.460+ 1	67 2009	1	N,2N
38-SR-86	12		1.470+ 1	1.470+ 1	71 1873	1	N,2N
38-SR-86	12		1.480+ 1	1.480+ 1	70 3150	1	N,2N
38-SR-86	12	3	1.440+ 1	1.440+ 1	71 3184	1	N,2N
38-SR-86	12	3	1.460+ 1	1.460+ 1	62 702	1	N,2N
38-SR-86	12	3	1.470+ 1	1.470+ 1	66 1873	1	N,2N
38-SR-86	12	3	1.480+ 1	1.480+ 1	70 3150	1	N,2N
N 38-SR-86	12	3	1.480+ 1	1.480+ 1	72 3832	1	N,2N
N 38-SR-86	12	3	1.480+ 1	1.480+ 1	75 3577	1	N,2N
38-SR-86	12	5	1.460+ 1	1.460+ 1	62 702	1	N,2N
N 38-SR-86	12	5	1.460+ 1	1.460+ 1	73 3988	1	N,2N
38-SR-86	12	5	1.480+ 1	1.480+ 1	70 3150	1	N,2N
N 38-SR-86	12	5	1.480+ 1	1.480+ 1	75 3577	1	N,2N
38-SR-86	22		2.530- 8	2.530- 8	64 2632	1	N,GAMMA
38-SR-86	23		3.000- 2	1.250- 1	67 1807	3	N,GAMMA
38-SR-86	23	4	2.530- 8	2.530- 8	47 888	1	N,GAMMA
38-SR-86	23	4	1.800- 1	3.200- 1	59 663	4	N,GAMMA
N 38-SR-86	23 87		2.500- 8	2.500- 8	72 3418	31	N,GAMMA
38-SR-86	26		1.340+ 1	1.493+ 1	60 588	6	N,P
38-SR-86	26		1.400+ 1	1.400+ 1	63 323	1	N,P
38-SR-86	26		1.460+ 1	1.460+ 1	62 702	1	N,P
N 38-SR-86	26		1.480+ 1	1.480+ 1	68 4071	1	N,P
38-SR-86	26	3	1.480+ 1	1.480+ 1	70 3150	1	N,P
N 38-SR-86	26	3	1.480+ 1	1.480+ 1	72 3832	1	N,P
38-SR-86	73	4	2.500- 8	2.500- 8	60 909	1	N,GAMMA
38-SR-86	73	4	2.500- 8	2.500- 8	60 1808	1	N,GAMMA
38-SR-86	73	4	2.500- 8	2.500- 8	65 910	1	N,GAMMA
38-SR-86	102 80		8.000- 2	8.000- 2	55 1258	4	ELASTIC
N 38-SR-86	862	3	1.480+ 1	1.480+ 1	75 3577	1	N,2N
38-SR-86			0.000+ 0	2.240- 1	61 737	1	AVERAGE RESONANCE PARAMETERS
38-SR-86			5.900- 4	1.880- 2	65 2112	10	RESONANCE PARAMETERS
38-SR-86			3.000- 3	1.130- 2	58 15	3	RESONANCE PARAMETERS
38-SR-86			1.275- 2	1.275- 2	61 728	1	RESONANCE PARAMETERS
38-SR-87	11	4	2.200+ 0	1.478+ 1	68 1999	15	N,N'

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
RESONANCE INTEGRAL
RESONANCE INTEGRAL
CROSS SECTION RATIO

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-150 ***

ZA = 38087

D7/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 38087

TARGET	CODE	S	E-M	N-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
38-SR-87	23		3.000-	2	1.250-	1	67 1807	3 N,GAMMA
38-SR-87	61	4	2.000+	0	2.000+	0	65 910	1 N,N'
38-SR-87			3.560-	6	6.200-	4	57 1967	5 RESONANCE PARAMETERS
38-SR-87			3.560-	6	3.700-	3	65 2112	25 RESONANCE PARAMETERS
38-SR-88	1		6.800-	3	1.850-	2	58 15	42 TOTAL
38-SR-88	12		1.460+	1	1.460+	1	62 702	1 N,2N
38-SR-88	12	4	1.260+	1	1.960+	1	64 843	10 N,2N
38-SR-88	12	4	1.480+	1	1.480+	1	61 701	1 N,2N
38-SR-88	12	4	1.480+	1	1.480+	1	70 3150	1 N,2N
38-SR-88	12	4	1.480+	1	1.480+	1	72 3832	1 N,2N
38-SR-88	23		2.530-	8	2.530-	8	47 889	1 N,GAMMA
38-SR-88	23		1.000+	0	1.000+	0	49 165	1 N,GAMMA
38-SR-88	26		1.300+	1	1.750+	1	56 36	17 N,P
38-SR-88	26		1.400+	1	1.400+	1	63 323	1 N,P
38-SR-88	26		1.450+	1	1.450+	1	53 27	1 N,P
38-SR-88	26		1.460+	1	1.460+	1	62 702	1 N,P
38-SR-88	26		1.480+	1	1.480+	1	61 701	1 N,P
38-SR-88	26		1.480+	1	1.480+	1	68 4071	1 N,P
38-SR-88	26		1.480+	1	1.480+	1	70 3150	1 N,P
38-SR-88	26	1	1.460+	1	1.460+	1	73 3987	1 N,P
38-SR-88	26	3	1.440+	1	1.440+	1	71 3184	1 N,P
38-SR-88	34	4	1.450+	1	1.450+	1	53 27	1 N,ALPHA
38-SR-88	34	4	1.460+	1	1.460+	1	62 702	1 N,ALPHA
38-SR-88	73		2.500-	8	2.500-	8	53 1163	1 N,GAMMA
38-SR-88	73		2.500-	8	2.500-	8	58 2851	1 N,GAMMA
38-SR-88	876		1.400+	1	1.400+	1	57 929	1 N,P
38-SR-88			0.000+	0	2.200-	1	61 728	3 AVERAGE RESONANCE PARAMETERS
38-SR-88			0.000+	0	2.240-	1	61 737	4 AVERAGE RESONANCE PARAMETERS
38-SR-88			2.780-	3	2.380-	2	65 2112	4 RESONANCE PARAMETERS
38-SR-88			1.360-	2	1.360-	2	58 15	2 RESONANCE PARAMETERS
38-SR-88			1.450-	2	2.125-	1	61 728	58 RESONANCE PARAMETERS
38-SR-89	73		2.500-	8	2.500-	8	58 1163	1 N,GAMMA
38-SR-89	124	7	3.460-	0	1.490+	1	59 579	25 N,X GAMMA
38-SR-90	73		2.500+	0	2.500+	0	66 3366	1 N,GAMMA
39-Y -89	1		6.240-	10	8.240-	6	65 2119	10 TOTAL
39-Y -89	1		2.020-	9	2.878-	7	60 1798	93 TOTAL
39-Y -89	1		5.570-	7	4.222-	3	68 903	41 TOTAL
39-Y -89	1		1.000-	3	4.830-	3	74 4009	34 TOTAL
39-Y -89	1		2.000-	3	3.200-	2	61 737	119 TOTAL
39-Y -89	1		2.220-	3	1.800-	2	58 15	118 TOTAL
39-Y -89	1		5.000-	3	6.400-	1	65 922	97 TOTAL
39-Y -89	1		6.500-	3	2.050-	2	56 2343	25 TOTAL
39-Y -89	1		1.020-	2	7.420-	2	57 154	107 TOTAL
39-Y -89	1		8.000-	2	3.230+	0	52 80	78 TOTAL
39-Y -89	1		1.007-	1	6.469-	1	67 2121	542 TOTAL
39-Y -89	1		1.006+	0	2.006+	0	69 3310	101 TOTAL
39-Y -89	1		2.200+	0	2.200+	0	58 487	1 TOTAL
39-Y -89	1		2.396+	0	1.496+	1	67 750	235 TOTAL
39-Y -89	1		3.660+	0	3.680+	0	61 637	1 TOTAL
39-Y -89	1		4.531+	0	7.514+	0	67 1747	60 TOTAL
39-Y -89	1		1.400+	1	1.400+	1	52 81	1 TOTAL
39-Y -89	2		8.892-	1	8.892-	1	72 3546	1 ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-151 ***

ZA = 39089

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	39-Y	-89	2	1.450+ 0	4.700+ 0	59 579	4	ELASTIC
	39-Y	-89	2	2.200+ 0	2.200+ 0	58 497	1	ELASTIC
	39-Y	-89	2	3.770+ 0	3.770+ 0	65 1809	1	ELASTIC
N	39-Y	-89	2	5.500+ 0	8.560+ 0	70 3553	4	ELASTIC
	39-Y	-89	2	6.040+ 0	6.040+ 0	65 889	1	ELASTIC
	39-Y	-89	11	9.800- 1	3.360+ 0	62 599	14	N,N'
	39-Y	-89	11	6.040+ 0	6.040+ 0	65 885	1	N,N'
	39-Y	-89	11 1	8.300- 1	1.740+ 0	55 300	18	N,N'
	39-Y	-89	11 1	9.800- 1	3.360+ 0	62 599	48	N,N'
	39-Y	-89	11 1	3.770+ 0	3.770+ 0	65 1809	4	N,N'
N	39-Y	-89	11 1	4.190+ 0	8.560+ 0	70 3553	51	N,N'
	39-Y	-89	11 2	2.690+ 0	1.607+ 1	69 3053	20	N,N'
	39-Y	-89	11 2	2.800+ 0	2.800+ 0	67 2602	1	N,N'
	39-Y	-89	11 2	1.460+ 1	1.460+ 1	65 2120	1	N,N'
	39-Y	-89	11 2	1.470+ 1	1.470+ 1	68 3368	1	N,N'
N	39-Y	-89	11 2	1.480+ 1	1.480+ 1	71 3819	1	N,N'
	39-Y	-89	11 2	1.500+ 1	1.500+ 1	67 1776	1	N,N'
	39-Y	-89	11 2	1.500+ 1	1.500+ 1	68 2836	1	N,N'
	39-Y	-89	11 8	3.770+ 0	3.770+ 0	65 1809	2	N,N'
N	39-Y	-89	12	1.188+ 1	1.476+ 1	75 3807	7	N,2N
	39-Y	-89	12	1.210+ 1	1.510+ 1	60 590	8	N,2N
N	39-Y	-89	12	1.250+ 1	1.780+ 1	75 3598	7	N,2N
	39-Y	-89	12	1.329+ 1	1.758+ 1	69 3053	7	N,2N
N	39-Y	-89	12	1.374+ 1	1.496+ 1	72 3437	16	N,2N
	39-Y	-89	12	1.377+ 1	1.491+ 1	2 69 2913	5	N,2N
	39-Y	-89	12	1.400+ 1	1.400+ 1	63 377	1	N,2N
	39-Y	-89	12	1.405+ 1	1.470+ 1	66 1873	2	N,2N
	39-Y	-89	12	1.406+ 1	1.406+ 1	2 69 2519	1	N,2N
	39-Y	-89	12	1.410+ 1	1.410+ 1	59 615	1	N,2N
	39-Y	-89	12	1.460+ 1	1.460+ 1	62 702	1	N,2N
N	39-Y	-89	12	1.460+ 1	1.460+ 1	73 3988	1	N,2N
	39-Y	-89	12	1.500+ 1	1.500+ 1	67 2009	1	N,2N
	39-Y	-89	12	1.600+ 1	1.600+ 1	61 2116	1	N,2N
N	39-Y	-89	12 2	1.480+ 1	1.480+ 1	75 3577	2	N,2N
N	39-Y	-89	12 5	1.410+ 1	2.806+ 1	75 3890	12	N,2N
N	39-Y	-89	12 5	1.460+ 1	1.480+ 1	75 3577	1	N,2N
	39-Y	-89	12 80	1.229+ 1	1.976+ 1	60 588	16	N,2N
	39-Y	-89	23	2.570- 8	2.530- 8	65 2118	1	N,GAMMA
N	39-Y	-89	23	7.000- 5	4.800- 2	66 3401	41	N,GAMMA
	39-Y	-89	23	1.100- 2	6.500- 2	63 799	16	N,GAMMA
	39-Y	-89	23	1.460- 2	2.450+ 0	67 2794	22	N,GAMMA
	39-Y	-89	23	3.000- 2	6.500- 2	61 677	2	N,GAMMA
	39-Y	-89	23	3.000- 2	6.500- 2	63 1	2	N,GAMMA
	39-Y	-89	23	7.000- 2	2.200- 1	67 1807	7	N,GAMMA
	39-Y	-89	23	1.280- 1	6.800- 1	59 579	6	N,GAMMA
	39-Y	-89	23	1.430- 1	1.223+ 0	67 2117	12	N,GAMMA
C	39-Y	-89	23	1.660- 1	3.620+ 0	66 2000	21	N,GAMMA
	39-Y	-89	23	4.000- 1	4.000- 1	60 674	1	N,GAMMA
	39-Y	-89	23	1.000+ 0	1.000+ 0	49 165	1	N,GAMMA
	39-Y	-89	23	3.000+ 0	3.000+ 0	67 1991	1	N,GAMMA
	39-Y	-89	23	1.450+ 1	1.450+ 1	57 521	1	N,GAMMA
	39-Y	-89	23	1.470+ 1	1.470+ 1	67 1695	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-152 ***

ZA = 39089

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 39089

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
39-Y -89	23	4	2.530- 8	2.530- 8	47 988	1	N, GAMMA
39-Y -89	23	4	4.510- 3	1.480+ 1	67 2117	26	N, GAMMA
39-Y -89	23	4	2.100- 2	2.100- 2	57 23	1	N, GAMMA
N 39-Y -89	23	4	2.400- 2	2.400- 2	56 2856	1	N, GAMMA
39-Y -89	23	4	1.620- 1	1.449+ 0	69 2533	24	N, GAMMA
N 39-Y -89	23	4	1.480+ 1	1.480+ 1	63 755	1	N, GAMMA
N 39-Y -89	24	7	1.410+ 1	1.410+ 1	74 3548	19	N, X GAMMA
39-Y -89	26		7.000+ 0	1.976+ 1	60 588	18	N, P
39-Y -89	26		9.350+ 0	1.400+ 1	60 590	5	N, P
39-Y -89	26		1.470+ 1	1.470+ 1	66 1675	1	N, P
N 39-Y -89	26		1.480+ 1	1.480+ 1	68 4071	1	N, P
N 39-Y -89	30	4	1.460+ 1	1.460+ 1	74 3823	1	N, T
39-Y -89	34		9.350+ 0	1.400+ 1	60 590	5	N, ALPHA
39-Y -89	34		1.340+ 1	1.481+ 1	60 588	6	N, ALPHA
39-Y -89	34		1.460+ 1	1.460+ 1	62 702	1	N, ALPHA
N 39-Y -89	34		1.480+ 1	1.480+ 1	68 4071	1	N, ALPHA
39-Y -89	34	3	1.480+ 1	1.480+ 1	63 755	1	N, ALPHA
39-Y -89	34	5	1.450+ 1	1.450+ 1	53 27	1	N, ALPHA
39-Y -89	41		2.530- 8	2.530- 8	65 2118	1	BOUND ATOM
39-Y -89	42		2.530- 8	2.530- 8	65 2118	1	FREE ATOM
39-Y -89	43		0.000+ 0	0.000+ 0	61 1408	1	COHERENT SCATTERING
39-Y -89	43		2.530- 8	2.530- 8	65 2118	1	COHERENT SCATTERING
39-Y -89	44		2.530- 8	2.530- 8	65 2118	1	INCOHERENT SCATTER.
N 39-Y -89	61	2	4.500+ 0	4.500+ 0	73 3989	1	N, N'
39-Y -89	62		2.000+ 0	2.000+ 0	70 3382	1	N, 2N
39-Y -89	71		2.500- 8	2.500- 8	51 882	1	ABSORPTION
39-Y -89	73		2.500- 8	2.500- 8	56 2858	1	N, GAMMA
39-Y -89	73	4	2.500- 8	2.500- 8	61 2859	1	N, GAMMA
39-Y -89	73	7	2.530- 8	2.530- 8	70 2415	76	N, GAMMA
39-Y -89	74		2.530- 8	2.530- 8	70 2415	1	N, X GAMMA
39-Y -89	93		2.500- 8	2.500- 8	65 2115	1	COHERENT SCATTERING
N 39-Y -89	102		6.892- 1	6.892- 1	72 3546	8	ELASTIC
39-Y -89	102		1.450+ 0	4.700+ 0	59 579	50	ELASTIC
39-Y -89	102		2.200+ 0	2.200+ 0	58 497	14	ELASTIC
39-Y -89	102		3.200+ 0	3.200+ 0	66 2950	13	ELASTIC
39-Y -89	102		3.770+ 0	3.770+ 0	65 1809	13	ELASTIC
N 39-Y -89	102		5.500+ 0	8.560+ 0	70 3553	91	ELASTIC
39-Y -89	102		6.000+ 0	6.000+ 0	61 1049	14	ELASTIC
39-Y -89	102		6.040+ 0	6.040+ 0	65 889	14	ELASTIC
39-Y -89	102		7.600+ 0	7.600+ 0	68 2011	16	ELASTIC
N 39-Y -89	102		1.400+ 1	1.400+ 1	71 3406	12	ELASTIC
N 39-Y -89	104	10	1.436+ 1	1.436+ 1	72 4072	5	NEUTRON EMISSION
39-Y -89	111	1	2.200+ 0	2.200+ 0	58 497	13	N, N'
39-Y -89	111	1	3.770+ 0	3.770+ 0	65 1809	39	N, N'
N 39-Y -89	111	1	4.190+ 0	8.560+ 0	70 3553	74	N, N'
N 39-Y -89	111	1	1.400+ 1	1.400+ 1	72 3406	4	N, N'
39-Y -89	111	8	3.770+ 0	3.770+ 0	65 1809	26	N, N'
N 39-Y -89	111	10	1.436+ 1	1.436+ 1	72 4072	20	N, N'
39-Y -89	124	7	1.180+ 1	3.360+ 0	63 599	53	N, X GAMMA
39-Y -89	124	7	1.000+ 0	4.100+ 0	63 1728	8	N, X GAMMA
N 39-Y -89	124	7	3.000+ 0	4.500+ 0	67 1732	66	N, X GAMMA
39-Y -89	124	7	4.040+ 0	4.040+ 0	62 1725	7	N, X GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-153 ***

ZA = 39089

07/04/78

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 39089

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
39-Y	-89	124	7	7.600+ 0	7.600+ 0	68 2011	1 N,X GAMMA ANGULAR DISTRIBUTION
39-Y	-89	124	10	4.100+ 0	1.480+ 1	63 1728	19 N,X GAMMA ANGULAR DISTRIBUTION
39-Y	-89	124	80	3.670+ 0	4.210+ 0	59 579	17 N,X GAMMA ANGULAR DISTRIBUTION
39-Y	-89	124	87	3.250+ 0	4.000+ 0	67 1732	74 N,X GAMMA ANGULAR DISTRIBUTION
39-Y	-89	124	89	4.000+ 0	4.000+ 0	67 1732	4 N,X GAMMA ANGULAR DISTRIBUTION
N	39-Y	-89	204	1.436+ 1	1.436+ 1	72 4072	51 NEUTRON EMISSION ENERGY DISTRIBUTION
N	39-Y	-89	304	1.436+ 1	1.436+ 1	72 4072	255 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	39-Y	-89	606	1.480+ 1	1.480+ 1	66 1042	12 NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N	39-Y	-89	606	1.520+ 1	1.520+ 1	60 1029	6 NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N	39-Y	-89	606	4.210+ 0	4.210+ 0	60 1029	5 NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N	39-Y	-89	606	1.520+ 1	1.520+ 1	59 579	6 NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N	39-Y	-89	611	6.040+ 0	6.040+ 0	65 889	11 N,N' ANGULAR DIST.-INTEGRAL E1-E2
N	39-Y	-89	611	3.670+ 0	4.210+ 0	59 579	17 N,N' ANGULAR DIST.-INTEGRAL E1-E2
N	39-Y	-89	862	1.480+ 1	1.480+ 1	75 3577	1 N,2N CROSS SECTION RATIO
N	39-Y	-89		6.000+ 0	6.000+ 0	62 1043	1 NUCLEAR TEMPERATURE
N	39-Y	-89		1.480+ 1	1.480+ 1	67 2897	2 NUCLEAR TEMPERATURE
C	39-Y	-89		0.000+ 0	1.100- 2	61 737	1 AVERAGE RESONANCE PARAMETERS
C	39-Y	-89		0.000+ 0	3.000- 2	59 2537	2 AVERAGE RESONANCE PARAMETERS
N	39-Y	-89		0.000+ 0	5.000- 2	56 1894	1 AVERAGE RESONANCE PARAMETERS
C	39-Y	-89		3.000+ 3	6.500- 1	64 1226	2 AVERAGE RESONANCE PARAMETERS
N	39-Y	-89		-3.000- 4	-3.000- 4	58 903	1 RESONANCE PARAMETERS
N	39-Y	-89		6.800- 4	7.600- 2	62 2114	40 RESONANCE PARAMETERS
N	39-Y	-89		2.500- 3	1.300- 2	61 728	9 RESONANCE PARAMETERS
N	39-Y	-89		2.500- 3	1.700- 2	58 15	5 RESONANCE PARAMETERS
N	39-Y	-89		2.598- 3	3.005- 2	69 2537	51 RESONANCE PARAMETERS
N	40-ZR-NAT	1		1.986- 8	7.846- 5	61 887	106 TOTAL
N	40-ZR-NAT	1		3.300- 8	2.700- 7	70 3627	4 TOTAL
N	40-ZR-NAT	1		1.500- 7	8.030- 6	50 1004	16 TOTAL
N	40-ZR-NAT	1		5.770- 5	5.712- 4	58 903	39 TOTAL
N	40-ZR-NAT	1		1.740- 4	5.640- 4	55 981	27 TOTAL
N	40-ZR-NAT	1		8.500- 4	9.600- 3	54 789	22 TOTAL
N	40-ZR-NAT	1		8.500- 4	9.600- 3	54 970	22 TOTAL
N	40-ZR-NAT	1		1.375- 3	4.185- 3	62 989	331 TOTAL
N	40-ZR-NAT	1		4.200- 3	8.000- 2	56 143	69 TOTAL
N	40-ZR-NAT	1		6.000- 3	6.400- 1	65 922	70 TOTAL
N	40-ZR-NAT	1		1.200- 2	2.500- 1	58 546	49 TOTAL
N	40-ZR-NAT	1		1.800- 2	1.567+ 0	49 50	43 TOTAL
N	40-ZR-NAT	1		7.000- 2	4.500- 1	66 4017	9 TOTAL
N	40-ZR-NAT	1		4.500- 1	2.550+ 0	61 1000	8 TOTAL
N	40-ZR-NAT	1		4.981- 1	9.842+ 0	71 3341	1010 TOTAL
N	40-ZR-NAT	1		6.830- 1	1.210+ 0	56 136	170 TOTAL
N	40-ZR-NAT	1		1.004+ 0	2.004+ 0	89 3310	101 TOTAL
N	40-ZR-NAT	1		1.360+ 0	3.210+ 0	52 80	12 TOTAL
N	40-ZR-NAT	1		2.340+ 0	1.493+ 1	67 750	239 TOTAL
N	40-ZR-NAT	1		2.900+ 0	1.410+ 1	54 504	22 TOTAL
N	40-ZR-NAT	1		3.660+ 0	3.660+ 0	57 320	1 TOTAL
N	40-ZR-NAT	1		3.660+ 0	3.660+ 0	62 637	1 TOTAL
N	40-ZR-NAT	1		4.100+ 0	4.100+ 0	55 296	1 TOTAL
N	40-ZR-NAT	1		4.531+ 0	7.514+ 0	67 1747	60 TOTAL
N	40-ZR-NAT	1		7.050+ 0	1.450+ 1	57 22	5 TOTAL
N	40-ZR-NAT	1		1.400+ 1	1.400+ 1	52 81	1 TOTAL
N	40-ZR-NAT	1		1.400+ 1	1.400+ 1	52 207	1 TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-154 ***

ZA = 40000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 40000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
40-ZR-NAT	1		1.620+	1	1.620+	58 975	1 TOTAL
N 40-ZR-NAT	1		1.620+	1	1.620+	55 133	1 TOTAL
40-ZR-NAT	1		1.740+	1	2.890+	60 673	4 TOTAL
40-ZR-NAT	1		1.900+	1	1.900+	53 274	1 TOTAL
40-ZR-NAT	1	9	3.810-10	3.110-	9 55 2057	45	1 TOTAL
40-ZR-NAT	2		5.600-	2	1.110-	1 58 325	8 ELASTIC
40-ZR-NAT	2		3.000-	1	5.000-	1 64 2338	2 ELASTIC
40-ZR-NAT	2		6.500-	1	6.500-	1 63 1750	1 ELASTIC
40-ZR-NAT	2		8.000-	1	8.000-	1 64 870	1 ELASTIC
N 40-ZR-NAT	2		9.021-	1	9.021-	1 72 3546	1 ELASTIC
40-ZR-NAT	2		1.000+	0	1.000+	0 54 103	1 ELASTIC
40-ZR-NAT	2		1.430+	0	4.700+	0 59 579	1 ELASTIC
40-ZR-NAT	2		3.660+	0	3.660+	0 62 837	1 ELASTIC
40-ZR-NAT	3		1.000+	0	7.000+	0 56 151	1 ELASTIC
40-ZR-NAT	3		4.000+	0	4.500+	0 55 122	5 NONELASTIC
40-ZR-NAT	3		4.100+	0	4.100+	0 55 296	1 NONELASTIC
40-ZR-NAT	3		8.400+	0	1.280+	1 57 24	1 NONELASTIC
40-ZR-NAT	3		1.420+	1	1.420+	1 57 319	4 NONELASTIC
40-ZR-NAT	3		2.550+	1	2.550+	1 58 356	1 NONELASTIC
40-ZR-NAT	5		5.390-10	5.390-10	69 2508	1	1 TOTAL SCATTERING
40-ZR-NAT	5		6.000-	2	1.450+	0 56 231	19 TOTAL SCATTERING
40-ZR-NAT	5		9.800-	1	9.800-	1 63 879	1 TOTAL SCATTERING
40-ZR-NAT	11		1.410+	1	1.410+	1 57 317	1 N,N'
40-ZR-NAT	12		1.410+	1	1.410+	1 57 317	1 N,2N
40-ZR-NAT	12		1.410+	1	1.410+	1 58 1821	1 N,2N
40-ZR-NAT	21		5.360-10	5.360-10	69 2508	1	1 ABSORPTION
40-ZR-NAT	21		2.530-	8	2.530-	8 58 1162	1 ABSORPTION
40-ZR-NAT	21		2.530-	8	2.530-	8 66 1491	1 ABSORPTION
40-ZR-NAT	21		2.400-	2	2.400-	2 65 1384	1 ABSORPTION
N 40-ZR-NAT	23		2.530-	8	2.530-	8 68 2855	1 ABSORPTION
40-ZR-NAT	23		2.530-	8	2.700-	7 70 3627	5 N,GAMMA
40-ZR-NAT	23		1.300+	4	3.500-	2 65 1802	47 N,GAMMA
40-ZR-NAT	23		1.800-	2	9.500-	1 61 890	15 N,GAMMA
40-ZR-NAT	23		3.000-	2	6.500-	2 61 877	2 N,GAMMA
40-ZR-NAT	23		3.000-	2	6.500-	2 63 1	2 N,GAMMA
40-ZR-NAT	23		1.750-	1	1.000+	0 60 674	7 N,GAMMA
40-ZR-NAT	24	7	9.000-	1	3.200+	0 54 113	10 N,X GAMMA
40-ZR-NAT	24	7	9.980-	1	1.590+	0 56 136	167 N,X GAMMA
40-ZR-NAT	24	7	1.150+	0	3.950+	0 61 11	71 N,X GAMMA
40-ZR-NAT	25		1.450+	1	1.450+	1 60 861	1 N,X CHARGED PARTICLE
40-ZR-NAT	26		1.400+	1	1.400+	1 61 361	1 N,P
40-ZR-NAT	41		1.410+	1	1.410+	1 55 125	1 N,P
40-ZR-NAT	42		7.300-	8	7.300-	8 51 1594	1 BOUND ATOM
40-ZR-NAT	43		1.400-	5	1.400-	5 61 887	1 FREE ATOM
40-ZR-NAT	43		2.530-	8	2.530-	8 51 2818	1 COHERENT SCATTERING
40-ZR-NAT	43		2.530-	8	2.530-	8 63 2877	1 COHERENT SCATTERING
40-ZR-NAT	43		7.300-	8	7.300-	8 51 1594	1 COHERENT SCATTERING
N 40-ZR-NAT	61	7	1.000+	0	1.000+	0 70 3425	4 N,N'
40-ZR-NAT	71		2.500-	8	2.500-	8 50 1623	1 ABSORPTION
40-ZR-NAT	71		2.500-	8	2.500-	8 50 1794	1 ABSORPTION
40-ZR-NAT	71		2.500-	8	2.500-	8 51 882	1 ABSORPTION
40-ZR-NAT	71		2.500-	8	2.500-	8 56 906	1 ABSORPTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	SPECTRUM AVERAGED CROSS SECTION	
40-ZR-NAT	1		1.620+	1	1.620+	58 975	SPECTRUM AVERAGED CROSS SECTION
N 40-ZR-NAT	1		1.620+	1	1.620+	55 133	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	1		1.740+	1	2.890+	60 673	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	1		1.900+	1	1.900+	53 274	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	1	9	3.810-10	3.110-	9 55 2057	45	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	2		5.600-	2	1.110-	1 58 325	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	2		3.000-	1	5.000-	1 64 2338	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	2		6.500-	1	6.500-	1 63 1750	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	2		8.000-	1	8.000-	1 64 870	SPECTRUM AVERAGED CROSS SECTION
N 40-ZR-NAT	2		9.021-	1	9.021-	1 72 3546	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	2		1.000+	0	1.000+	0 54 103	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	2		1.430+	0	4.700+	0 59 579	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	2		3.660+	0	3.660+	0 62 837	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	3		1.000+	0	7.000+	0 56 151	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	3		4.000+	0	4.500+	0 55 122	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	3		4.100+	0	4.100+	0 55 296	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	3		8.400+	0	1.280+	1 57 24	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	3		1.420+	1	1.420+	1 57 319	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	3		2.550+	1	2.550+	1 58 356	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	5		5.390-10	5.390-10	69 2508	1	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	5		6.000-	2	1.450+	0 56 231	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	5		9.800-	1	9.800-	1 63 879	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	11		1.410+	1	1.410+	1 57 317	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	12		1.410+	1	1.410+	1 57 317	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	12		1.410+	1	1.410+	1 58 1821	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	21		5.360-10	5.360-10	69 2508	1	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	21		2.530-	8	2.530-	8 58 1162	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	21		2.530-	8	2.530-	8 66 1491	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	21		2.400-	2	2.400-	2 65 1384	SPECTRUM AVERAGED CROSS SECTION
N 40-ZR-NAT	23		2.530-	8	2.530-	8 68 2855	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	23		2.530-	8	2.700-	7 70 3627	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	23		1.300+	4	3.500-	2 65 1802	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	23		1.800-	2	9.500-	1 61 890	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	23		3.000-	2	6.500-	2 61 877	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	23		3.000-	2	6.500-	2 63 1	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	23		1.750-	1	1.000+	0 60 674	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	24	7	9.000-	1	3.200+	0 54 113	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	24	7	9.980-	1	1.590+	0 56 136	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	24	7	1.150+	0	3.950+	0 61 11	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	25		1.450+	1	1.450+	1 60 861	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	26		1.400+	1	1.400+	1 61 361	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	41		1.410+	1	1.410+	1 55 125	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	42		7.300-	8	7.300-	8 51 1594	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	43		1.400-	5	1.400-	5 61 887	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	43		2.530-	8	2.530-	8 51 2818	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	43		2.530-	8	2.530-	8 63 2877	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	43		7.300-	8	7.300-	8 51 1594	SPECTRUM AVERAGED CROSS SECTION
N 40-ZR-NAT	61	7	1.000+	0	1.000+	0 70 3425	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	71		2.500-	8	2.500-	8 50 1623	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	71		2.500-	8	2.500-	8 50 1794	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	71		2.500-	8	2.500-	8 51 882	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	71		2.500-	8	2.500-	8 56 906	SPECTRUM AVERAGED CROSS SECTION

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 SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-155 ***

ZA = 40000

07/04/76

ECIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 40000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
40-ZR-NAT	71		2.500-8	2.500-8	61 1959	1	ABSORPTION
40-ZR-NAT	73	7	2.530-8	2.530-8	70 2415	94	N,GAMMA
40-ZR-NAT	73	10	2.530-8	2.530-8	70 2415	28	N,GAMMA
40-ZR-NAT	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA
40-ZR-NAT	102		5.600-2	1.110-1	58 325	16	ELASTIC
40-ZR-NAT	102		1.330-1	8.800-1	56 231	50	ELASTIC
40-ZR-NAT	102		3.000-1	5.000-1	64 2338	16	ELASTIC
40-ZR-NAT	102		3.400-1	1.190-0	62 1031	168	ELASTIC
40-ZR-NAT	102		5.000-1	1.550-0	55 1495	3	ELASTIC
40-ZR-NAT	102		6.500-1	6.500-1	63 1750	8	ELASTIC
40-ZR-NAT	102		6.710-1	1.109-0	66 1706	424	ELASTIC
40-ZR-NAT	102		8.000-1	8.000-1	64 870	8	ELASTIC
40-ZR-NAT	102		9.021-1	9.021-1	72 3546	8	ELASTIC
40-ZR-NAT	102		9.800-1	9.800-1	63 879	9	ELASTIC
40-ZR-NAT	102		1.000-0	1.000-0	54 103	9	ELASTIC
40-ZR-NAT	102		1.000-0	1.000-0	54 1032	5	ELASTIC
40-ZR-NAT	102		1.450-0	4.700-0	59 579	63	ELASTIC
40-ZR-NAT	102		1.541-0	1.997-0	63 748	38	ELASTIC
40-ZR-NAT	102		2.500-0	7.000-0	56 151	29	ELASTIC
40-ZR-NAT	102		2.900-0	2.900-0	60 920	11	ELASTIC
40-ZR-NAT	102		3.200-0	3.200-0	66 2950	13	ELASTIC
40-ZR-NAT	102		3.660-0	3.660-0	57 320	18	ELASTIC
40-ZR-NAT	102		4.100-0	4.100-0	55 296	14	ELASTIC
40-ZR-NAT	102		4.400-0	4.400-0	55 1033	1	ELASTIC
40-ZR-NAT	102		5.000-0	5.000-0	66 1254	13	ELASTIC
40-ZR-NAT	102		1.400-1	1.400-1	71 3406	11	ELASTIC
40-ZR-NAT	102		1.410-1	1.410-1	57 317	11	ELASTIC
40-ZR-NAT	102		1.410-1	1.410-1	67 2341	12	ELASTIC
40-ZR-NAT	102		1.460-1	1.460-1	59 566	15	ELASTIC
40-ZR-NAT	102		2.520-1	2.520-1	71 3703	11	ELASTIC
40-ZR-NAT	104	10	1.436-1	1.436-1	72 4072	20	NEUTRON EMISSION
40-ZR-NAT	105		9.600-1	1.440-0	55 231	35	TOTAL SCATTERING
40-ZR-NAT	111	1	2.450-0	2.450-0	56 476	1	N,N'
40-ZR-NAT	111	1	4.400-0	4.400-0	55 1033	1	N,N'
40-ZR-NAT	111	1	1.400-1	1.400-1	71 3406	20	N,N'
40-ZR-NAT	111	1	1.410-1	1.410-1	67 2341	15	N,N'
40-ZR-NAT	111	10	1.436-1	1.436-1	72 4072	5	N,N'
40-ZR-NAT	124	7	1.010-0	3.800-0	59 579	6	N,X GAMMA
40-ZR-NAT	124	7	1.630-0	1.493-0	69 1019	49	N,X GAMMA
40-ZR-NAT	124	7	4.040-0	1.494-0	62 1724	4	N,X GAMMA
40-ZR-NAT	124	7	4.100-0	4.100-0	63 1728	4	N,X GAMMA
40-ZR-NAT	124	7	1.500-1	1.500-1	80 1720	2	N,X GAMMA
40-ZR-NAT	124	10	1.630-0	1.480-1	69 1019	30	N,X GAMMA
40-ZR-NAT	124	10	4.040-0	1.484-1	62 1724	14	N,X GAMMA
40-ZR-NAT	124	10	4.100-0	4.100-0	63 1728	7	N,X GAMMA
40-ZR-NAT	124	80	3.670-0	4.210-0	59 579	27	N,X GAMMA
40-ZR-NAT	204		1.410-1	1.410-1	57 317	14	NEUTRON EMISSION
40-ZR-NAT	204		1.436-1	1.436-1	72 4072	51	NEUTRON EMISSION
40-ZR-NAT	304		1.436-1	1.436-1	72 4072	255	NEUTRON EMISSION
40-ZR-NAT	304		1.455-1	1.455-1	74 4002	373	NEUTRON EMISSION
40-ZR-NAT	311	80	1.410-1	1.410-1	65 1508	39	N,N'
40-ZR-NAT	384		1.410-1	1.410-1	55 2122	1	N,ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-156 ***

ZA = 40000

07/04/76

CSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 40000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
40-ZR-NAT	406		1.420+ 1	1.420+ 1	58 905	1	NONELASTIC EMISSION INTEGRAL E1-E2
C 40-ZR-NAT	521		4.900- 7	1.500+ 1	57 1054	1	ABSORPTION RESONANCE INTEGRAL
C 40-ZR-NAT	521		5.000- 7	1.500+ 1	58 1162	1	ABSORPTION RESONANCE INTEGRAL
C 40-ZR-NAT	521		5.000- 7	1.500+ 1	68 1959	1	ABSORPTION RESONANCE INTEGRAL
C 40-ZR-NAT	521		5.500- 7	1.500+ 1	66 1491	1	ABSORPTION RESONANCE INTEGRAL
N 40-ZR-NAT	523		1.000- 6	5.000- 2	65 1802	1	N,GAMMA RESONANCE INTEGRAL
40-ZR-NAT	604		1.410+ 1	1.410+ 1	57 317	17	NEUTRON EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N 40-ZR-NAT	606		1.410+ 1	1.410+ 1	57 317	17	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N 40-ZR-NAT	606		1.520+ 1	1.520+ 1	60 1029	6	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N 40-ZR-NAT	606 80		4.210+ 0	4.210+ 0	60 1029	5	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N 40-ZR-NAT	606 80		1.520+ 1	1.520+ 1	59 579	6	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
40-ZR-NAT	611 80		3.670+ 0	4.210+ 0	59 579	19	N,N' ANGULAR DIST.-INTEGRAL E1-E2
40-ZR-NAT			1.410+ 1	1.410+ 1	57 317	1	NUCLEAR TEMPERATURE
40-ZR-NAT			1.410+ 1	1.410+ 1	85 1508	2	NUCLEAR TEMPERATURE
C 40-ZR-NAT			0.000+ 0	0.000+ 0	69 2508	503	THERMAL SCATTERING LAW-S(ALPHA,BETA)
40-ZR-NAT			1.993- 3	1.993- 3	59 2537	1	RESONANCE PARAMETERS
40-ZR-90	1		1.000- 3	1.400- 1	59 534	176	TOTAL
N 40-ZR-90			4.330- 1	2.370+ 0	73 3505	18	TOTAL
40-ZR-90	1		5.011- 1	8.121+ 0	71 3341	714	TOTAL
N 40-ZR-90	1		9.330- 1	5.513+ 0	74 3572	129	TOTAL
N 40-ZR-90	2		1.500+ 0	1.500+ 0	74 3586	1	ELASTIC
40-ZR-90	11 1		1.775+ 0	2.178+ 0	62 591	37	N,N'
40-ZR-90	11 1		2.300+ 0	5.000+ 0	63 765	28	N,N'
N 40-ZR-90	11 1		2.600+ 0	4.000+ 0	74 3572	34	N,N'
40-ZR-90	11 2		2.020+ 0	4.250+ 0	55 2124	58	N,N'
40-ZR-90	11 2		2.270+ 0	4.240+ 0	55 267	85	N,N'
N 40-ZR-90	11 7		2.850+ 0	5.970+ 0	71 3203	98	N,N'
40-ZR-90	12		1.195+ 1	1.976+ 1	60 598	15	N,2N
N 40-ZR-90	12		1.344+ 1	1.487+ 1	72 3774	6	N,2N
40-ZR-90	12		1.357+ 1	1.818+ 1	69 2368	13	N,2N
N 40-ZR-90	12		1.367+ 1	1.492+ 1	72 3437	12	N,2N
40-ZR-90	12		1.410+ 1	1.410+ 1	60 644	1	N,2N
40-ZR-90	12		1.440+ 1	1.440+ 1	61 676	1	N,2N
40-ZR-90	12		1.460+ 1	1.460+ 1	62 702	1	N,2N
40-ZR-90	12		1.460+ 1	1.460+ 1	69 2354	1	N,2N
40-ZR-90	12		1.480+ 1	1.480+ 1	70 3150	1	N,2N
N 40-ZR-90	12		1.480+ 1	1.480+ 1	72 3832	1	N,2N
40-ZR-90	12		1.510+ 1	1.510+ 1	67 2009	1	N,2N
N 40-ZR-90	12 3		1.344+ 1	1.487+ 1	72 3774	6	N,2N
40-ZR-90	12 3		1.410+ 1	1.410+ 1	60 644	1	N,2N
40-ZR-90	12 3		1.450+ 1	1.450+ 1	53 27	1	N,2N
40-ZR-90	12 3		1.470+ 1	1.470+ 1	66 1873	2	N,2N
C 40-ZR-90	12 3		1.470+ 1	1.470+ 1	71 1873	1	N,2N
40-ZR-90	12 3		1.480+ 1	1.480+ 1	63 756	1	N,2N
40-ZR-90	12 3		1.480+ 1	1.480+ 1	63 884	1	N,2N
40-ZR-90	12 3		1.480+ 1	1.480+ 1	70 3150	1	N,2N
N 40-ZR-90	12 3		1.480+ 1	1.480+ 1	72 3832	2	N,2N
N 40-ZR-90	12 3		1.480+ 1	1.480+ 1	75 3562	1	N,2N
N 40-ZR-90	12 3		1.480+ 1	1.480+ 1	75 3577	1	N,2N
N 40-ZR-90	12 4		1.344+ 1	1.487+ 1	72 3774	6	N,2N
40-ZR-90	12 4		1.405+ 1	1.405+ 1	66 1873	1	N,2N
40-ZR-90	12 4		1.410+ 1	1.410+ 1	60 644	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-157 ***

ZA = 40090

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 40090

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	40-ZR-90	12	4	1.410+ 1	2.799+ 1	75 3890	11	N,2N
N	40-ZR-90	12	4	1.460+ 1	1.460+ 1	73 3988	1	N,2N
N	40-ZR-90	12	4	1.480+ 1	1.480+ 1	70 3150	1	N,2N
N	40-ZR-90	12	4	1.460+ 1	1.480+ 1	75 3562	1	N,2N
N	40-ZR-90	12	4	1.480+ 1	1.480+ 1	75 3577	1	N,2N
N	40-ZR-90	21		3.000- 2	3.000- 2	63 904	1	ABSORPTION
C	40-ZR-90	23		1.200- 3	5.000- 2	65 1802	17	N,GAMMA
C	40-ZR-90	24	7	1.750+ 0	4.000+ 0	61 11	133	N,X GAMMA
C	40-ZR-90	26		3.550+ 0	5.513+ 1	54 978	4	N,P
N	40-ZR-90	26		7.600+ 0	9.300+ 0	73 4068	4	N,P
N	40-ZR-90	26		8.000+ 0	1.975+ 1	60 588	17	N,P
N	40-ZR-90	26		1.400+ 1	1.400+ 1	63 323	1	N,P
N	40-ZR-90	26		1.410+ 1	1.410+ 1	60 744	1	N,P
N	40-ZR-90	26		1.460+ 1	1.460+ 1	62 702	1	N,P
N	40-ZR-90	26	4	1.440+ 1	1.440+ 1	70 3433	1	N,P
N	40-ZR-90	26	4	1.450+ 1	1.450+ 1	53 27	1	N,P
N	40-ZR-90	26	4	1.450+ 1	1.450+ 1	63 860	1	N,P
N	40-ZR-90	26	4	1.470+ 1	1.470+ 1	62 770	1	N,P
N	40-ZR-90	26	4	1.480+ 1	1.480+ 1	69 4083	1	N,P
N	40-ZR-90	26	4	1.480+ 1	1.480+ 1	70 3150	1	N,P
N	40-ZR-90	26	4	1.480+ 1	1.480+ 1	72 3832	1	N,P
N	40-ZR-90	26	4	1.480+ 1	1.480+ 1	75 3562	1	N,P
N	40-ZR-90	26	5	1.480+ 1	1.480+ 1	69 4083	1	N,P
N	40-ZR-90	34		1.400+ 1	1.400+ 1	55 131	1	N,ALPHA
N	40-ZR-90	34	3	1.450+ 1	1.450+ 1	53 27	1	N,ALPHA
N	40-ZR-90	34	4	1.405+ 1	1.405+ 1	58 401	1	N,ALPHA
N	40-ZR-90	34	4	1.410+ 1	1.410+ 1	55 124	1	N,ALPHA
N	40-ZR-90	34	4	1.410+ 1	1.410+ 1	60 644	1	N,ALPHA
N	40-ZR-90	34	4	1.450+ 1	1.450+ 1	63 860	1	N,ALPHA
N	40-ZR-90	34	4	1.480+ 1	1.480+ 1	63 756	1	N,ALPHA
N	40-ZR-90	34	4	1.480+ 1	1.480+ 1	70 3150	1	N,ALPHA
N	40-ZR-90	34	4	1.480+ 1	1.480+ 1	72 3832	1	N,ALPHA
N	40-ZR-90	34	4	1.480+ 1	1.480+ 1	75 3562	1	N,ALPHA
N	40-ZR-90	71		2.500- 8	2.500- 8	55 267	1	ABSORPTION
N	40-ZR-90	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA
N	40-ZR-90	73		3.750- 3	1.250- 1	75 4005	13	N,GAMMA
N	40-ZR-90	102		1.500+ 0	1.500+ 0	74 3586	14	ELASTIC
N	40-ZR-90	102		1.800+ 0	4.000+ 0	74 3572	279	ELASTIC
N	40-ZR-90	134	1	1.440+ 1	1.440+ 1	67 2125	1	N,ALPHA
N	40-ZR-90	523		1.000+ 0	5.000- 2	65 1802	1	N,GAMMA
N	40-ZR-90	862	3	1.344+ 1	1.487+ 1	72 3774	13	N,2N
N	40-ZR-90	862	3	1.480+ 1	1.480+ 1	75 3577	1	N,2N
N	40-ZR-90	962	4	1.357+ 1	1.818+ 1	69 2366	13	N,2N
C	40-ZR-90			0.000+ 0	2.000- 2	64 894	2	AVERAGE RESONANCE PARAMETERS
C	40-ZR-90			0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	40-ZR-90			0.000+ 0	7.000- 2	68 925	3	AVERAGE RESONANCE PARAMETERS
C	40-ZR-90			2.500- 3	1.500- 1	75 4005	5	AVERAGE RESONANCE PARAMETERS
C	40-ZR-90			3.000- 3	6.500- 1	64 1226	2	AVERAGE RESONANCE PARAMETERS
C	40-ZR-90			3.848- 3	1.727- 2	69 3092	2	AVERAGE RESONANCE PARAMETERS
C	40-ZR-90			3.800- 3	6.800- 2	68 925	13	RESONANCE PARAMETERS
C	40-ZR-90			3.812- 3	1.310- 2	62 881	2	RESONANCE PARAMETERS
C	40-ZR-90			3.848- 3	4.453- 2	69 3092	32	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-158 ***

ZA = 40090

07/04/78

ECSIL-7500 REACTION INDEX (ZA ORDERED)

ZA = 40090

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
40-ZR-90			3.880-3	1.780-2	63 931	6	RESONANCE PARAMETERS
40-ZR-90			3.905-3	1.801-2	61 2477	3	RESONANCE PARAMETERS
40-ZR-90			3.912-3	1.785-2	64 894	8	RESONANCE PARAMETERS
N 40-ZR-91	11	7	1.270+0	6.190+0	74 3515	231	N,N'
40-ZR-91	21		3.000-2	3.000-2	63 904	1	ABSORPTION
C 40-ZR-91	23		2.700-5	5.600-2	65 1802	55	N,GAMMA
40-ZR-91	24	7	1.250+0	3.650+0	61 11	66	N,X GAMMA
40-ZR-91	26		4.320+0	6.020+0	64 978	4	N,P
40-ZR-91	26		1.400+1	1.400+1	63 323	1	N,P
40-ZR-91	26		1.410+1	1.410+1	60 644	1	N,P
40-ZR-91	26		1.460+1	1.460+1	62 702	1	N,P
40-ZR-91	26		1.480+1	1.480+1	61 701	1	N,P
40-ZR-91	26	3	1.410+1	1.410+1	60 644	1	N,P
N 40-ZR-91	26	3	1.440+1	1.440+1	70 3433	1	N,P
40-ZR-91	26	5	1.410+1	1.410+1	60 644	1	N,P
N 40-ZR-91	26	5	1.480+1	1.480+1	69 4083	1	N,P
40-ZR-91	71		2.500-8	2.500-8	55 267	1	ABSORPTION
40-ZR-91	73		2.500-8	2.500-8	52 342	1	N,GAMMA
40-ZR-91	134	1	1.440+1	1.440+1	67 2125	1	N,ALPHA
N 40-ZR-91	523		1.000-6	5.000-2	65 1802	1	N,GAMMA
40-ZR-91	876		1.400+1	1.400+1	57 930	1	N,P
C 40-ZR-91			0.000+0	2.000-3	69 2537	2	AVERAGE RESONANCE PARAMETERS
N 40-ZR-91			0.000+0	2.000-2	64 894	2	AVERAGE RESONANCE PARAMETERS
N 40-ZR-91			0.000+0	5.000-2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C 40-ZR-91			1.810-4	4.266-3	69 3022	2	AVERAGE RESONANCE PARAMETERS
C 40-ZR-91			3.000-3	6.500-1	54 1226	2	AVERAGE RESONANCE PARAMETERS
40-ZR-91			1.590-4	3.890-3	68 2855	26	RESONANCE PARAMETERS
40-ZR-91			1.800-4	2.448-3	62 881	32	RESONANCE PARAMETERS
40-ZR-91			1.810-4	1.105-2	69 3042	70	RESONANCE PARAMETERS
40-ZR-91			1.817-4	2.008-3	69 2537	28	RESONANCE PARAMETERS
40-ZR-91			1.820-4	2.930-4	85 2507	3	RESONANCE PARAMETERS
40-ZR-91			1.820-4	2.480-3	61 2477	6	RESONANCE PARAMETERS
40-ZR-91			1.822-4	5.600-3	63 931	20	RESONANCE PARAMETERS
40-ZR-91			1.825-4	5.600-3	64 894	23	RESONANCE PARAMETERS
40-ZR-91			2.960-4	2.960-4	57 1967	1	RESONANCE PARAMETERS
40-ZR-91			2.960-4	2.960-4	59 974	1	RESONANCE PARAMETERS
C 40-ZR-92	1		1.000-3	1.400-1	59 534	147	TOTAL
40-ZR-92	1		5.044-1	6.202-0	71 3341	358	TOTAL
N 40-ZR-92	1		9.330-1	5.513-0	74 3572	129	TOTAL
N 40-ZR-92	2		1.500+0	1.500+0	74 3565	1	ELASTIC
N 40-ZR-92	11	1	1.500+0	1.500+0	74 3566	1	N,N'
N 40-ZR-92	11	1	1.550+0	2.684+0	70 3421	49	N,N'
N 40-ZR-92	11	1	1.800+0	4.000+0	74 3572	87	N,N'
N 40-ZR-92	11	7	1.008+0	2.412+0	70 3461	16	N,N'
N 40-ZR-92	11	7	3.430+0	5.423+0	75 3566	99	N,N'
40-ZR-92	21		3.000-2	3.000-2	63 904	1	ABSORPTION
N 40-ZR-92	23	87	2.500-8	2.500-8	72 3418	14	N,GAMMA
40-ZR-92	24	7	9.500-1	3.055+0	61 11	109	N,X GAMMA
40-ZR-92	26		1.400+1	1.400+1	63 323	1	N,P
40-ZR-92	26		1.410+1	1.410+1	60 644	1	N,P
40-ZR-92	26		1.450+1	1.450+1	63 860	1	N,P
40-ZR-92	26		1.460+1	1.460+1	62 702	1	N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-159 ***

ZA = 40092

07/04/76

ECSIL-7663 REACTION INDEX (ZA ORDERED)

ZA = 40092

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
40-ZR-92	26		1.480+	1.480+	1.480+	61 701	1 N,P
40-ZR-92	26		1.480+	1.480+	1.480+	63 756	1 N,P
N 40-ZR-92	26	4	1.440+	1.440+	1.440+	70 3433	1 N,P
N 40-ZR-92	26	4	1.480+	1.480+	1.480+	69 4083	1 N,P
40-ZR-92	34		1.340+	1.976+	1.976+	60 588	9 N,ALPHA
40-ZR-92	34		1.410+	1.410+	1.410+	60 644	1 N,ALPHA
N 40-ZR-92	34	5	1.480+	1.480+	1.480+	69 4083	1 N,ALPHA
40-ZR-92	71		2.500-	2.500-	2.500-	55 267	1 ABSORPTION
40-ZR-92	73		2.500-	2.500-	2.500-	52 342	1 N,GAMMA
N 40-ZR-92	102		1.500+	1.500+	1.500+	74 3586	14 ELASTIC
N 40-ZR-92	102		1.800+	4.000+	4.000+	74 3572	259 ELASTIC
N 40-ZR-92	111	1	1.500+	1.500+	1.500+	74 3586	14 N,N'
40-ZR-92	134	1	1.440+	1.440+	1.440+	67 2125	1 N,ALPHA
40-ZR-92	876		1.400+	1.400+	1.400+	57 930	1 N,P
C 40-ZR-92			0.003+	2.000-	2.000-	64 894	2 AVERAGE RESONANCE PARAMETERS
C 40-ZR-92			0.000+	5.000-	5.000-	66 1894	1 AVERAGE RESONANCE PARAMETERS
C 40-ZR-92			0.000+	5.200-	5.200-	68 925	3 AVERAGE RESONANCE PARAMETERS
C 40-ZR-92			2.004-	3.979-	3.979-	69 3092	2 AVERAGE RESONANCE PARAMETERS
C 40-ZR-92			3.000-	6.500-	6.500-	64 1226	2 AVERAGE RESONANCE PARAMETERS
40-ZR-92			1.850-	6.890-	6.890-	64 894	10 RESONANCE PARAMETERS
40-ZR-92			2.004-	3.939-	3.939-	69 3092	37 RESONANCE PARAMETERS
40-ZR-92			2.651-	3.260-	3.260-	62 881	6 RESONANCE PARAMETERS
40-ZR-92			2.700-	6.890-	6.890-	63 931	8 RESONANCE PARAMETERS
40-ZR-92			2.700-	5.200-	5.200-	68 925	15 RESONANCE PARAMETERS
40-ZR-92			6.942-	6.942-	6.942-	61 2477	1 RESONANCE PARAMETERS
40-ZR-93	71		2.500-	2.500-	2.500-	55 267	1 ABSORPTION
40-ZR-93			1.100+	1.100+	1.100+	59 974	2 RESONANCE PARAMETERS
40-ZR-94	1		1.000-	1.400-	1.400-	59 534	162 TOTAL
N 40-ZR-94	12		1.500+	1.500+	1.500+	74 3586	1 ELASTIC
N 40-ZR-94	11	1	1.328+	2.577+	2.577+	70 3461	47 N,N'
N 40-ZR-94	11	1	1.500+	1.500+	1.500+	74 3586	1 N,N'
N 40-ZR-94	11	7	9.360+	2.369+	2.369+	70 3461	31 N,N'
N 40-ZR-94	11	7	3.430+	5.423+	5.423+	75 3565	57 N,N'
40-ZR-94	21		3.000-	3.000-	3.000-	63 904	1 ABSORPTION
N 40-ZR-94	23		2.530-	2.530-	2.530-	71 3434	1 N,GAMMA
C 40-ZR-94	23		1.500-	5.700-	5.700-	65 1802	15 N,GAMMA
40-ZR-94	23		2.400-	2.400-	2.400-	57 305	1 N,GAMMA
40-ZR-94	23		2.500-	2.950-	2.950-	59 526	2 N,GAMMA
N 40-ZR-94	23		7.500+	7.500+	7.500+	72 3871	1 N,GAMMA
40-ZR-94	24	7	9.400+	3.060+	3.060+	61 11	123 N,X GAMMA
40-ZR-94	26		1.400+	1.400+	1.400+	63 323	1 N,P
40-ZR-94	26		1.410+	1.410+	1.410+	60 644	1 N,P
40-ZR-94	26		1.450+	1.450+	1.450+	53 27	1 N,P
40-ZR-94	26		1.450+	1.450+	1.450+	63 850	1 N,P
40-ZR-94	26		1.450+	1.460+	1.460+	62 702	1 N,P
40-ZR-94	26		1.480+	1.480+	1.480+	61 701	1 N,P
40-ZR-94	26		1.480+	1.480+	1.480+	63 756	1 N,P
N 40-ZR-94	26	3	1.480+	1.480+	1.480+	69 4083	1 N,P
40-ZR-94	34		1.214+	1.976+	1.976+	60 588	14 N,ALPHA
40-ZR-94	34		1.400+	1.400+	1.400+	55 131	1 N,ALPHA
40-ZR-94	34		1.400+	1.400+	1.400+	63 323	1 N,ALPHA
40-ZR-94	34		1.410+	1.410+	1.410+	60 644	1 N,ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-160 ***

ZA = 40094

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 40094

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 40-ZR-94	34		1.440+ 1	1.440+ 1	70 3433	1	N,ALPHA
40-ZR-94	34		1.450+ 1	1.450+ 1	63 860	1	N,ALPHA
40-ZR-94	34		1.480+ 1	1.480+ 1	61 701	1	N,ALPHA
40-ZR-94	34		1.480+ 1	1.480+ 1	63 756	1	N,ALPHA
N 40-ZR-94	34	4	1.480+ 1	1.480+ 1	59 4083	1	N,ALPHA
40-ZR-94	71		2.500- 8	2.500- 8	55 267	1	ABSORPTION
40-ZR-94	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA
40-ZR-94	73		2.500- 8	2.500- 8	55 2938	1	N,GAMMA
40-ZP-94	73		2.500- 8	2.500- 8	60 909	1	N,GAMMA
N 40-ZR-94	73		2.530- 8	2.530- 8	73 3479	1	N,GAMMA
N 40-ZR-94	102		1.500+ 0	1.500+ 0	74 3586	14	ELASTIC
N 40-ZR-94	111	1	1.500+ 0	1.500+ 0	74 3586	14	N,N'
N 40-ZR-94	523		5.300- 7	1.500+ 1	73 3479	1	N,GAMMA
N 40-ZR-94	523		5.500- 7	1.500+ 1	71 3434	1	N,GAMMA
N 40-ZR-94	523		6.000- 7	1.500+ 1	72 3871	1	N,GAMMA
N 40-ZR-94	523		1.000- 6	5.000- 2	65 1802	1	N,GAMMA
N 40-ZR-94	523	80	6.000- 7	1.500+ 1	72 3871	1	N,GAMMA
40-ZR-94	876		1.400+ 1	1.400+ 1	57 930	1	N,P
C 40-ZR-94			0.000+ 0	2.000- 2	64 854	2	AVERAGE RESONANCE PARAMETERS
40-ZR-94			0.000+ 0	4.400- 2	68 925	3	AVERAGE RESONANCE PARAMETERS
N 40-ZR-94			0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C 40-ZR-94			2.263- 3	1.423- 2	69 3092	2	AVERAGE RESONANCE PARAMETERS
C 40-ZR-94			3.000- 3	6.500- 1	84 1226	2	AVERAGE RESONANCE PARAMETERS
40-ZR-94			2.250- 3	2.400- 2	63 931	12	RESONANCE PARAMETERS
40-ZR-94			2.263- 3	2.777- 2	69 3092	34	RESONANCE PARAMETERS
40-ZR-94			2.273- 3	1.986- 2	64 894	10	RESONANCE PARAMETERS
40-ZR-94			5.700- 3	4.370- 2	68 925	22	RESONANCE PARAMETERS
40-ZR-94			5.710- 3	7.160- 3	62 881	2	RESONANCE PARAMETERS
N 40-ZR-96	12	5	1.460+ 1	1.460+ 1	73 3988	1	N,ZN
40-ZR-96	21		3.000- 2	3.000- 2	63 904	1	ABSORPTION
N 40-ZR-96	23		2.530- 8	2.530- 8	71 3434	1	N,GAMMA
40-ZR-96	23		2.400- 2	2.400- 2	57 305	1	N,GAMMA
40-ZR-96	23		1.950- 1	1.950- 1	59 526	1	N,GAMMA
N 40-ZR-96	23		7.500+ 0	7.500+ 0	72 3871	1	N,GAMMA
40-ZR-96	23		1.450+ 1	1.450+ 1	57 521	1	N,GAMMA
40-ZR-96	26		1.450+ 1	1.450+ 1	61 2181	1	N,P
40-ZR-96	28		1.480+ 1	1.480+ 1	63 859	1	N,O
N 40-ZR-96	32		1.400+ 1	1.400+ 1	71 3816	1	N,HE-3
40-ZR-96	34		1.400+ 1	1.400+ 1	60 844	1	N,ALPHA
40-ZR-96	34		1.400+ 1	1.400+ 1	63 323	1	N,ALPHA
40-ZR-96	34		1.450+ 1	1.450+ 1	63 860	1	N,ALPHA
40-ZR-96	34		1.480+ 1	1.480+ 1	61 701	1	N,ALPHA
40-ZR-96	34		1.480+ 1	1.480+ 1	63 756	1	N,ALPHA
N 40-ZR-96	34	3	1.480+ 1	1.480+ 1	59 4083	1	N,ALPHA
40-ZR-96	71		2.500- 8	2.500- 8	55 267	1	ABSORPTION
40-ZR-96	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA
40-ZR-96	73		2.500- 8	2.500- 8	55 2938	1	N,GAMMA
N 40-ZR-96	73		2.530- 8	2.530- 8	73 3479	1	N,GAMMA
40-ZR-96	73		2.000+ 0	2.000+ 0	58 363	1	N,GAMMA
N 40-ZR-96	523		5.000- 7	1.500+ 1	73 3479	1	N,GAMMA
N 40-ZR-96	523		5.500- 7	1.500+ 1	71 3434	1	N,GAMMA
N 40-ZR-96	523		6.000- 7	1.500+ 1	72 3871	1	N,GAMMA

TARGET; CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-161 ***

ZA = 40096

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 40096

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	40-ZR-96	523	80	6.000- 7	1.500+ 1	72 3871	1 N,GAMMA
	40-ZR-96	884		1.400+ 1	1.400+ 1	57 930	1 N,ALPHA
C	40-ZR-96			0.000+ 0	2.000- 2	64 894	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-96			0.000+ 0	5.800- 2	68 925	3 AVERAGE RESONANCE PARAMETERS
	40-ZR-96			3.000- 4	3.000- 4	62 881	4 RESONANCE PARAMETERS
	40-ZR-96			3.009- 4	3.009- 4	69 2537	5 RESONANCE PARAMETERS
	40-ZR-96			3.010- 4	1.540- 2	63 931	14 RESONANCE PARAMETERS
	40-ZR-96			3.027- 4	5.510- 3	64 894	10 RESONANCE PARAMETERS
	40-ZR-96			2.680- 3	5.830- 2	68 925	22 RESONANCE PARAMETERS
	ZRH.61	5		5.390-10	5.390-10	69 2508	1 TOTAL SCATTERING
	ZRH.63	21		5.390-10	5.390-10	69 2508	1 ABSORPTION
C	ZRH.63			0.000+ 0	0.000+ 0	69 2508	649 THERMAL SCATTERING LAW-S(ALPHA,BETA)
	ZRH.98	5		5.440-10	5.440-10	69 2508	1 TOTAL SCATTERING
	ZRH.98	21		5.440-10	5.440-10	69 2508	1 ABSORPTION
C	ZRH.98			0.000+ 0	0.000+ 0	69 2508	666 THERMAL SCATTERING LAW-S(ALPHA,BETA)
C	ZRH1.5	11	7	9.500- 1	5.500+ 0	56 2126	14 N,N'
	ZRH1.98	5		5.440-10	5.440-10	69 2508	1 TOTAL SCATTERING
	ZRH1.98	21		5.440-10	5.440-10	69 2508	1 ABSORPTION
	ZRH1.98			0.000+ 0	0.000+ 0	69 2508	652 THERMAL SCATTERING LAW-S(ALPHA,BETA)
N	ZIRCALOY-2	1		4.330- 1	2.370+ 0	73 3505	10 TOTAL
N	ZIRCALOY-2	21		2.530- 8	2.530- 8	68 3468	1 ABSORPTION
	ZR02	1		1.500- 7	8.000- 6	50 1004	16 TOTAL
N	41-NB-93	1		1.190- 9	2.192- 6	70 3843	220 TOTAL
	41-NB-93	1		3.030- 6	3.187- 4	55 520	98 TOTAL
	41-NB-93	1		2.900- 5	1.977- 2	58 2133	634 TOTAL
	41-NB-93	1		3.270- 5	9.610- 3	55 1987	188 TOTAL
	41-NB-93	1		4.710- 5	1.669- 4	58 903	50 TOTAL
C	41-NB-93	1		8.171- 5	1.008- 2	65 814	9874 TOTAL
	41-NB-93	1		4.500- 4	1.025- 2	57 154	30 TOTAL
	41-NB-93	1		1.100- 3	9.500- 1	66 1328	50 TOTAL
	41-NB-93	1		4.000- 3	6.400- 1	65 922	102 TOTAL
	41-NB-93	1		1.100- 2	1.010- 1	65 880	10 TOTAL
N	41-NB-93	1		2.500- 2	5.000- 1	66 4017	12 TOTAL
	41-NB-93	1		1.000- 1	3.210+ 0	52 80	28 TOTAL
N	41-NB-93	1		2.720- 1	5.000+ 0	73 3504	146 TOTAL
	41-NB-93	1		4.500- 1	2.550+ 0	61 1000	8 TOTAL
	41-NB-93	1		4.931- 1	1.062+ 1	71 3341	712 TOTAL
N	41-NB-93	1		1.500+ 0	5.000+ 0	71 3926	8 TOTAL
	41-NB-93	1		2.393+ 0	1.483+ 1	67 750	234 TOTAL
N	41-NB-93	1		3.320+ 0	5.100+ 0	65 3665	62 TOTAL
	41-NB-93	1		3.660+ 0	3.680+ 0	61 637	1 TOTAL
	41-NB-93	1		4.000+ 0	4.000+ 0	67 1843	1 TOTAL
	41-NB-93	1		4.531+ 0	7.514+ 0	67 1747	60 TOTAL
	41-NB-93	1		1.400+ 1	1.400+ 1	52 81	1 TOTAL
	41-NB-93	1		1.470+ 1	1.470+ 1	66 2127	1 TOTAL
	41-NB-93	2		3.200- 1	1.450+ 0	66 885	33 ELASTIC
N	41-NB-93	2		8.754- 1	1.754- 1	72 3546	1 ELASTIC
	41-NB-93	2		1.000+ 0	1.000+ 0	54 103	1 ELASTIC
	41-NB-93	2		1.500+ 0	5.000+ 0	71 3926	2 ELASTIC
	41-NB			2.000+ 0	2.000+ 0	65 1509	1 ELASTIC
	41-NB			4.000+ 0	4.000+ 0	64	1 ELASTIC
N	41-NB-93	1		2.050+ 0	8.050+ 0	61	1 ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-162 ***

ZA = 41093

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 41093

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
41-NB-93	2		1.470+ 1	1.470+ 1	66 2127	1	ELASTIC
41-NB-93	3		6.000- 1	2.600+ 0	62 707	10	NONELASTIC
41-NB-93	3		1.000+ 0	1.000+ 0	54 103	1	NONELASTIC
41-NB-93	4		1.43F+ 1	1.435+ 1	72 4072	1	NEUTRON EMISSION
41-NB-93	5		6.000- 2	1.800+ 0	56 231	23	TOTAL SCATTERING
41-NB-93	11		4.000- 1	1.200+ 0	63 773	5	N,N'
41-NB-93	11		1.000+ 0	3.500+ 0	61 865	9	N,N'
41-NB-93	11		1.500+ 0	5.000+ 0	71 3926	8	N,N'
41-NB-93	11		4.000+ 0	7.000+ 0	63 836	4	N,N'
41-NB-93	11	1	7.900- 1	1.790+ 0	71 3243	84	N,N'
41-NB-93	11	1	8.000- 1	1.200+ 0	63 773	5	N,N'
41-NB-93	11	1	8.000- 1	1.200+ 0	63 828	4	N,N'
41-NB-93	11	1	1.200+ 0	5.000+ 0	71 3926	138	N,N'
41-NB-93	11	1	1.800+ 0	4.000+ 0	73 3504	165	N,N'
41-NB-93	11	7	1.000+ 0	3.500+ 0	63 865	32	N,N'
41-NB-93	11	8	3.500+ 0	5.000+ 0	71 3926	4	N,N'
41-NB-93	12		9.440+ 0	1.476+ 1	75 3807	12	N,2N
41-NB-93	12		1.360+ 1	1.494+ 1	72 3437	11	N,2N
41-NB-93	12		1.660+ 1	1.680+ 1	70 3787	1	N,2N
41-NB-93	12	4	1.450+ 1	1.450+ 1	62 3169	1	N,2N
41-NB-93	12	5	9.350+ 0	1.510+ 1	60 590	12	N,2N
41-NB-93	12	5	1.026+ 1	1.959+ 1	70 3787	32	N,2N
41-NB-93	12	5	1.405+ 1	1.470+ 1	66 1873	2	N,2N
41-NB-93	12	5	1.410+ 1	1.410+ 1	59 615	1	N,2N
41-NB-93	12	5	1.450+ 1	1.450+ 1	62 3169	1	N,2N
41-NB-93	12	5	1.460+ 1	1.460+ 1	62 702	1	N,2N
41-NB-93	12	5	1.470+ 1	1.470+ 1	61 657	1	N,2N
41-NB-93	12	5	1.470+ 1	1.470+ 1	62 770	1	N,2N
41-NB-93	12	5	1.480+ 1	1.480+ 1	63 756	1	N,2N
41-NB-93	12	5	1.480+ 1	1.480+ 1	70 3150	1	N,2N
41-NB-93	12	5	1.480+ 1	1.480+ 1	72 3832	1	N,2N
41-NB-93	12	85	1.220+ 1	1.976+ 1	60 588	10	N,2N
41-NB-93	13	4	1.950+ 1	1.950+ 1	67 1893	1	N,2N
41-NB-93	18	2	1.450+ 1	1.450+ 1	62 3169	1	N,N'ALPHA
41-NB-93	18	2	1.480+ 1	1.480+ 1	63 756	1	N,N'ALPHA
41-NB-93	21		2.530- 8	2.530- 8	58 1162	1	ABSORPTION
41-NB-93	21		2.400- 2	2.400- 2	65 1364	1	ABSORPTION
41-NB-93	23		2.530- 8	2.530- 8	1 67 3532	1	N,GAMMA
41-NB-93	23		1.550- 5	5.600- 2	62 2067	83	N,GAMMA
41-NB-93	23		7.500- 3	1.700- 1	61 677	49	N,GAMMA
41-NB-93	23		1.080- 2	1.980- 1	67 1547	71	N,GAMMA
41-NB-93	23		2.000- 2	7.300- 1	61 716	12	N,GAMMA
41-NB-93	23		2.100- 2	2.100- 2	58 43	1	N,GAMMA
41-NB-93	23		2.370- 2	2.370- 2	75 3909	1	N,GAMMA
41-NB-93	23		3.000- 2	6.500- 2	63 1	2	N,GAMMA
41-NB-93	23		4.000- 2	1.250+ 0	60 738	12	N,GAMMA
41-NB-93	23		7.000- 2	1.820- 1	67 1807	5	N,GAMMA
41-NB-93	23		1.750- 1	1.700+ 0	60 674	7	N,GAMMA
41-NB-93	23		3.000- 1	2.500+ 0	74 3542	16	N,GAMMA
41-NB-93	23	3	2.530- 8	2.530- 8	47 888	1	N,GAMMA
41-NB-93	23	3	1.450+ 1	1.450+ 1	62 3169	1	N,GAMMA
41-NB-93	23	3	1.480+ 1	1.480+ 1	63 756	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-163 ***

ZA = 41093

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
41-NB-93	24	7	7.790	1	1.940+ 0	57 151	32 N,X GAMMA
41-NB-93	24	7	7.900	1	1.790+ 0	71 3243	92 N,X GAMMA
41-NB-93	24	7	9.330	1	2.120+ 0	59 547	48 N,X GAMMA
41-NB-93	24	7	1.000	0	4.200+ 0	68 1019	51 N,X GAMMA
C 41-NB-93	24	7	6.000	0	7.500+ 0	70 1497	8 N,X GAMMA
N 41-NB-93	32	1	1.400	1	1.400+ 1	71 3816	1 N,HE-3
41-NB-93	34	7	7.000	0	1.976+ 1	60 588	12 N,ALPHA
41-NB-93	34	8	4.000	0	1.510+ 1	60 590	14 N,ALPHA
N 41-NB-93	34	1	1.304	1	1.785+ 1	75 4016	10 N,ALPHA
N 41-NB-93	34	1	1.420	1	1.420+ 1	72 3939	1 N,ALPHA
41-NB-93	34	1	1.470	1	1.470+ 1	64 2036	1 N,ALPHA
41-NB-93	34	4	1.405	1	1.405+ 1	58 401	1 N,ALPHA
N 41-NB-93	34	4	1.440	1	1.440+ 1	70 3433	1 N,ALPHA
41-NB-93	34	4	1.450	1	1.450+ 1	62 3169	2 N,ALPHA
41-NB-93	34	4	1.470	1	1.470+ 1	62 770	1 N,ALPHA
C 41-NB-93	34	4	1.480	1	1.480+ 1	63 756	3 N,ALPHA
N 41-NB-93	34	4	1.480	1	1.480+ 1	69 4083	1 N,ALPHA
41-NB-93	34	4	1.480	1	1.480+ 1	70 3150	1 N,ALPHA
N 41-NB-93	34	4	1.480	1	1.480+ 1	72 3832	1 N,ALPHA
N 41-NB-93	34	5	1.480	1	1.480+ 1	69 4083	1 N,ALPHA
41-NB-93	41	7	7.300	8	7.300- 8	51 1584	1 BOUND ATOM
41-NB-93	43	7	7.300	8	7.300- 8	51 1584	1 COHERENT SCATTERING
N 41-NB-93	62	1	1.000	0	1.000+ 0	65 3671	1 N,2N
41-NB-93	62	2	2.000	0	2.000+ 0	68 2990	1 N,2N
41-NB-93	71	2	2.500	8	2.500- 8	47 2714	1 ABSORPTION
41-NB-93	71	2	2.500	8	2.500- 8	50 1623	1 ABSORPTION
41-NB-93	71	2	2.500	8	2.500- 8	50 1794	1 ABSORPTION
41-NB-93	71	2	2.500	8	2.500- 8	51 882	1 ABSORPTION
N 41-NB-93	72	5	1.000	0	1.000+ 0	71 3762	2 N,F
N 41-NB-93	72	5	1.000	0	1.000+ 0	72 3726	1 N,F
41-NB-93	73	2	2.500	8	2.500- 8	68 2098	1 N,GAMMA
41-NB-93	73	2	2.500	8	2.500- 8	61 2715	1 N,GAMMA
41-NB-93	73	3	2.500	8	2.500- 8	49 2742	1 N,GAMMA
41-NB-93	73	7	2.530	8	2.530- 8	70 2415	165 N,GAMMA
41-NB-93	73	10	2.530	8	2.530- 8	70 2415	26 N,GAMMA
41-NB-93	74	2	2.530	8	2.530- 8	70 2415	1 N,X GAMMA
N 41-NB-93	84	4	1.000	0	1.000+ 0	72 3726	2 N,ALPHA
41-NB-93	102	5	5.600	2	9.700- 2	58 325	12 ELASTIC
41-NB-93	102	6	6.000	2	8.100- 1	56 231	50 ELASTIC
N 41-NB-93	102	3	3.000	1	4.000+ 0	73 3504	756 ELASTIC
41-NB-93	102	6	7.710	1	1.109+ 0	66 1706	440 ELASTIC
N 41-NB-93	102	8	8.754	1	8.754- 1	72 3546	8 ELASTIC
41-NB-93	102	1	1.000	0	1.000+ 0	54 103	9 ELASTIC
N 41-NB-93	102	1	1.500	0	5.000+ 0	71 3926	60 ELASTIC
41-NB-93	102	4	4.000	0	4.000+ 0	64 1643	17 ELASTIC
N 41-NB-93	102	4	4.370	0	4.370+ 0	71 4022	15 ELASTIC
41-NB-93	102	5	5.000	0	5.000+ 0	60 2131	7 ELASTIC
41-NB-93	102	5	5.000	0	5.000+ 0	66 1254	13 ELASTIC
41-NB-93	102	5	5.950	0	7.470+ 0	69 2850	12 ELASTIC
41-NB-93	102	7	7.000	0	7.000+ 0	63 836	1 ELASTIC
N 41-NB-93	102	8	8.050	0	8.050+ 0	69 3660	19 ELASTIC
N 41-NB-93	102	9	9.200	0	9.200+ 0	71 4041	1 ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/76

ELSL-7500 REACTION INDEX (ZA ORDERED)

ZA = 41093

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 41-NB-93	104	10	1.436+ 1	1.436+ 1	72 4072	15	NEUTRON EMISSION ANGULAR DISTRIBUTION
41-NB-93	105		8.900- 1	1.780+ 0	96 231	60	TOTAL SCATTERING ANGULAR DISTRIBUTION
41-NB-93	111	7	1.700+ 0	3.500+ 0	66 2130	23	N,N' ANGULAR DISTRIBUTION
N 41-NB-93	111	10	1.436+ 1	1.436+ 1	72 4072	10	N,N' ANGULAR DISTRIBUTION
41-NB-93	124	7	8.500- 1	1.900+ 0	69 1019	200	N,X GAMMA ANGULAR DISTRIBUTION
C 41-NB-93	124	7	1.000+ 0	4.200+ 0	69 1019	51	N,X GAMMA ANGULAR DISTRIBUTION
41-NB-93	124	7	4.000+ 0	7.670+ 0	70 1497	11	N,X GAMMA ANGULAR DISTRIBUTION
N 41-NB-93	124	10	1.400+ 1	1.400+ 1	74 3544	47	N,X GAMMA ANGULAR DISTRIBUTION
41-NB-93	134		1.420+ 1	1.420+ 1	72 3939	6	N,ALPHA ANGULAR DISTRIBUTION
41-NB-93	134		1.470+ 1	1.470+ 1	64 2036	4	N,ALPHA ANGULAR DISTRIBUTION
N 41-NB-93	204		1.436+ 1	1.436+ 1	72 4072	50	NEUTRON EMISSION ENERGY DISTRIBUTION
41-NB-93	204		1.436+ 1	1.436+ 1	72 4072	255	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 41-NB-93	304		1.436+ 1	1.475+ 1	74 4095	495	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 41-NB-93	311		9.200+ 0	9.200+ 0	71 4041	1	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N 41-NB-93	311	80	9.200+ 0	9.200+ 0	71 4041	60	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N 41-NB-93	311	80	1.410+ 1	1.410+ 1	65 1908	39	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
C 41-NB-93	324		4.000+ 0	7.670+ 0	70 1497	202	N,X GAMMA DIFF. ENERGY-ANGLE DISTRIBUTION
41-NB-93	426		1.400+ 1	1.400+ 1	57 391	1	N,P INTEGRAL E1-E2
41-NB-93	452		3.200- 1	1.450+ 0	66 885	163	ELASTIC LEGENDRE EXPANSIONS OF ANGULAR DIS.
C 41-NB-93	521		5.000- 7	1.500+ 1	58 1162	1	ABSORPTION RESONANCE INTEGRAL
41-NB-93	521		5.000- 7	1.500+ 1	60 897	1	ABSORPTION RESONANCE INTEGRAL
C 41-NB-93	523		5.000- 7	1.500+ 1	69 2098	1	N,GAMMA RESONANCE INTEGRAL
C 41-NB-93	523		5.000- 7	1.500+ 1	61 2715	1	N,GAMMA RESONANCE INTEGRAL
N 41-NB-93	523		5.000- 7	1.500+ 1	67 3532	1	N,GAMMA RESONANCE INTEGRAL
N 41-NB-93			3.500+ 0	5.000+ 0	71 3926	4	NUCLEAR TEMPERATURE
N 41-NB-93			9.200+ 0	9.200+ 0	71 4041	1	NUCLEAR TEMPERATURE
41-NB-93			1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
41-NB-93			1.430+ 1	1.430+ 1	69 2360	2	NUCLEAR TEMPERATURE
C 41-NB-93			0.000+ 0	6.400- 3	65 814	8	AVERAGE RESONANCE PARAMETERS
N 41-NB-93			0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C 41-NB-93			1.000- 3	1.000+ 0	66 1328	5	AVERAGE RESONANCE PARAMETERS
C 41-NB-93			3.000- 3	6.500- 1	64 1226	2	AVERAGE RESONANCE PARAMETERS
C 41-NB-93			R.000- 3	3.000- 2	68 3301	1	AVERAGE RESONANCE PARAMETERS
41-NB-93			3.50- 5	1.938- 4	60 2476	17	RESONANCE PARAMETERS
41-NB-93			3.500- 5	1.190- 4	68 3083	9	RESONANCE PARAMETERS
41-NB-93			3.560- 5	3.355- 4	71 3131	25	RESONANCE PARAMETERS
41-NB-93			3.590- 5	5.030- 4	63 3030	29	RESONANCE PARAMETERS
41-NB-93			3.590- 5	7.440- 4	58 2133	41	RESONANCE PARAMETERS
41-NB-93			3.590- 5	4.066- 3	65 2129	313	RESONANCE PARAMETERS
41-F3-93			3.600- 5	1.395- 3	67 2128	57	RESONANCE PARAMETERS
41-NB-93			3.610- 5	2.460- 4	55 520	14	RESONANCE PARAMETERS
41-NB-93			4.230- 5	3.790- 4	65 2075	17	RESONANCE PARAMETERS
41-NB-93			9.550- 5	1.228- 3	65 587	23	RESONANCE PARAMETERS
41-NB-93			1.950- 4	1.950- 4	55 3031	3	RESONANCE PARAMETERS
41-NB-93			2.437- 4	7.322- 3	65 814	316	RESONANCE PARAMETERS
41-NB-93			2.444- 4	1.255- 3	59 2476	36	RESONANCE PARAMETERS
N 41-NB-94	1		1.190- 9	1.992- 4	70 3843	1029	TOTAL
N 41-NB-94	23		2.530- 8	2.530- 8	67 3532	1	N,GAMMA
41-NB-94	73		2.500- 8	2.500- 8	53 2716	1	N,GAMMA
41-NB-94	73		2.500- 8	2.500- 8	69 2098	1	N,GAMMA
41-NB-94	73	5	2.500- 8	2.500- 8	61 2715	1	N,GAMMA
C 41-NB-94	523		5.000- 7	1.500+ 1	69 2098	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 41094

07/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 41094

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	41-NB-94	523	5.000-	7	1.500+	1 61 2715	1 N.GAMMA RESONANCE INTEGRAL
N	41-NB-94	523	5.000-	7	1.500+	1 67 3532	1 N.GAMMA RESONANCE INTEGRAL
N	41-NB-94		1.158-	5	2.278-	5 70 3843	17 RESONANCE PARAMETERS
N	41-NB-94		1.158-	5	2.278-	5 70 3144	3 RESONANCE PARAMETERS
	42-MO-NAT	1	1.180-	9	5.670-	9 54 178	21 TOTAL
	42-MO-NAT	1	2.450-	9	5.000-	6 50 1939	78 TOTAL
	42-MO-NAT	1	1.400-	6	1.200-	2 52 803	80 TOTAL
	42-MO-NAT	1	4.410-	6	2.193-	3 62 2134	520 TOTAL
	42-MO-NAT	1	1.320-	5	3.030-	4 58 903	23 TOTAL
	42-MO-NAT	1	3.380-	5	7.340-	4 55 862	166 TOTAL
C	42-MO-NAT	1	5.454-	5	5.133-	3 65 814	7947 TOTAL
	42-MO-NAT	1	1.440-	4	2.060-	1 55 2042	49 TOTAL
	42-MO-NAT	1	2.758-	4	1.474-	3 62 999	801 TOTAL
	42-MO-NAT	1	2.000-	3	7.950-	2 56 143	68 TOTAL
	42-MO-NAT	1	5.000-	3	6.400-	1 65 922	85 TOTAL
	42-MO-NAT	1	1.100-	2	1.010-	1 65 880	10 TOTAL
	42-MO-NAT	1	2.000-	2	3.210+	0 52 80	43 TOTAL
N	42-MO-NAT	1	4.400-	2	3.400-	1 66 4017	5 TOTAL
	42-MO-NAT	1	7.500-	2	1.145+	0 51 74	86 TOTAL
N	42-MO-NAT	1	1.028-	1	1.498+	0 72 3439	462 TOTAL
	42-MO-NAT	1	4.500-	1	2.750+	0 61 1000	8 TOTAL
N	42-MO-NAT	1	1.500+	0	5.000+	0 70 3928	8 TOTAL
	42-MO-NAT	1	2.253+	0	1.490+	1 67 750	247 TOTAL
	42-MO-NAT	1	2.750+	0	1.310+	1 54 504	29 TOTAL
	42-MO-NAT	1	3.660+	0	3.660+	0 61 637	1 TOTAL
	42-MO-NAT	1	4.000+	0	8.050+	0 58 400	38 TOTAL
	42-MO-NAT	1	4.100+	0	4.100+	0 60 576	1 TOTAL
	42-MO-NAT	1	7.090+	0	1.450+	1 57 22	5 TOTAL
	42-MO-NAT	1	1.237+	1	2.028+	1 60 622	13 TOTAL
	42-MO-NAT	1	1.400+	1	1.400+	1 52 81	1 TOTAL
	42-MO-NAT	1	1.400+	1	1.400+	1 52 207	1 TOTAL
	42-MO-NAT	1	1.730+	1	2.880+	1 60 573	6 TOTAL
	42-MO-NAT	1	2.640+	1	2.840+	1 61 233	1 TOTAL
	42-MO-NAT	1	4.200+	1	4.200+	1 50 281	1 TOTAL
	42-MO-NAT	2	5.600-	2	1.030-	1 58 325	7 ELASTIC
	42-MO-NAT	2	3.000-	1	8.000-	1 64 1255	3 ELASTIC
	42-MO-NAT	2	3.250-	1	1.450+	0 66 885	58 ELASTIC
N	42-MO-NAT	2	8.754+	1	8.754+	1 72 3546	1 ELASTIC
	42-MO-NAT	2	1.000+	0	1.000+	0 54 103	1 ELASTIC
N	42-MO-NAT	2	1.500+	0	5.004+	0 70 3928	8 ELASTIC
	42-MO-NAT	2	2.000+	0	2.000+	0 65 1509	1 ELASTIC
	42-MO-NAT	2	3.650+	0	3.650+	0 57 320	1 ELASTIC
	42-MO-NAT	2	4.100+	0	4.100+	0 60 576	1 ELASTIC
	42-MO-NAT	2	5.040+	0	5.040+	0 65 889	1 ELASTIC
N	42-MO-NAT	2	8.050+	0	8.050+	0 59 3650	1 ELASTIC
	42-MO-NAT	3	4.000+	1	2.400+	0 62 707	10 NONELASTIC
	42-MO-NAT	3	1.000+	0	1.000+	0 54 103	1 NONELASTIC
	42-MO-NAT	3	2.500+	0	2.500+	0 55 790	1 NONELASTIC
	42-MO-NAT	3	2.500+	0	2.500+	0 56 34	1 NONELASTIC
	42-MO-NAT	3	2.500+	0	2.500+	0 61 848	1 NONELASTIC
	42-MO-NAT	3	3.650+	0	3.650+	0 57 320	1 NONELASTIC
	42-MO-NAT	3	4.100+	0	4.100+	0 60 576	1 NONELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/76

ELCIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 42000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION	OPTION
	42-MO-NAT	3	1.400+ 1	1.400+ 1	58 877	1	NONELASTIC	
	42-MO-NAT	5	3.000- 2	1.368+ 0	56 231	24	TOTAL SCATTERING	
C	42-MO-NAT	11	4.000- 1	1.000+ 0	63 773	4	N,N'	
N	42-MO-NAT	11	1.500+ 0	5.000+ 0	70 3928	8	N,N'	
	42-MO-NAT	11	4.100+ 0	4.100+ 0	60 576	1	N,N'	
	42-MO-NAT	11	6.040+ 0	6.040+ 0	85 889	1	N,N'	
	42-MO-NAT	11	4.000- 1	1.200+ 0	83 828	9	N,N'	
N	42-MO-NAT	11	1.000+ 0	5.000+ 0	70 3928	134	N,N'	
	42-MO-NAT	11	4.750- 1	1.500+ 0	66 885	51	N,N'	
	42-MO-NAT	12	1.410+ 1	1.410+ 1	58 1621	1	N,2N	
	42-MO-NAT	14	1.400+ 1	1.400+ 1	59 2053	1	N,N'P	
	42-MO-NAT	21	2.530- 8	2.530- 8	53 370	1	ABSORPTION	
	42-MO-NAT	21	2.530- 8	2.530- 8	58 1162	1	ABSORPTION	
	42-MO-NAT	21	2.530- 8	2.530- 8	66 1491	1	ABSORPTION	
	42-MO-NAT	21	2.400- 2	2.400- 2	65 1364	1	ABSORPTION	
	42-MO-NAT	21	2.400- 2	2.400- 2	66 1541	1	ABSORPTION	
	42-MO-NAT	23	1.000- 6	4.900- 2	63 896	136	N,GAMMA	
	42-MO-NAT	23	8.000- 6	2.860- 7	64 1829	47	N,GAMMA	
	42-MO-NAT	23	9.576- 4	1.107+ 0	70 3053	95	N,GAMMA	
	42-MO-NAT	23	1.200- 2	1.660- 1	67 1547	68	N,GAMMA	
	42-MO-NAT	23	2.500- 2	8.300- 1	60 633	3	N,GAMMA	
	42-MO-NAT	23	3.000- 2	3.000- 2	63 799	1	N,GAMMA	
	42-MO-NAT	23	3.000- 2	6.500- 2	61 677	2	N,GAMMA	
	42-MO-NAT	23	3.000- 2	6.500- 2	63 1	2	N,GAMMA	
	42-MO-NAT	23	5.000- 2	9.600- 1	61 2135	11	N,GAMMA	
	42-MO-NAT	23	5.000- 2	9.700- 1	59 645	12	N,GAMMA	
	42-MO-NAT	23	1.750- 1	1.000+ 0	60 674	7	N,GAMMA	
	42-MO-NAT	23	2.000- 1	2.000- 1	58 363	1	N,GAMMA	
	42-MO-NAT	23	4.000- 1	4.000- 1	56 9	1	N,GAMMA	
	42-MO-NAT	24	7.800- 1	1.500+ 0	85 1023	29	N,X GAMMA	
	42-MO-NAT	24	3.200+ 0	3.200+ 0	54 113	3	N,X GAMMA	
	42-MO-NAT	26	1.400+ 1	1.400+ 1	61 361	1	N,P	
	42-MO-NAT	41	0.000+ 0	0.000+ 0	53 370	1	BOUND ATOM	
	42-MO-NAT	41	7.300- 8	7.300- 8	51 1584	1	BOUND ATOM	
	42-MO-NAT	43	0.000+ 0	0.000+ 0	53 370	1	COHERENT SCATTERING	
	42-MO-NAT	43	7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING	
	42-MO-NAT	48	1.400+ 1	1.400+ 1	58 877	1	ETA	
	42-MO-NAT	71	2.500- 8	2.500- 8	50 1623	1	ABSORPTION	SPECTRUM AVERAGED CROSS SECTION
	42-MO-NAT	71	2.500- 8	2.500- 8	50 1794	1	ABSORPTION	SPECTRUM AVERAGED CROSS SECTION
	42-MO-NAT	71	2.500- 8	2.500- 8	51 882	1	ABSORPTION	SPECTRUM AVERAGED CROSS SECTION
	42-MO-NAT	73	2.530- 8	2.530- 8	70 2415	154	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
	42-MO-NAT	73	2.530- 8	2.530- 8	70 2415	33	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
	42-MO-NAT	74	2.530- 8	2.530- 8	70 2415	1	N,X GAMMA	SPECTRUM AVERAGED CROSS SECTION
	42-MO-NAT	102	5.500- 2	1.040+ 1	58 325	14	ELASTIC	ANGULAR DISTRIBUTION
	42-MO-NAT	102	3.000- 1	8.000+ 1	64 1255	24	ELASTIC	ANGULAR DISTRIBUTION
	42-MO-NAT	102	8.754- 1	8.754- 1	72 3546	8	ELASTIC	ANGULAR DISTRIBUTION
	42-MO-NAT	102	1.000+ 0	1.000+ 0	54 103	9	ELASTIC	ANGULAR DISTRIBUTION
N	42-MO-NAT	102	1.500+ 0	5.000+ 0	70 3928	80	ELASTIC	ANGULAR DISTRIBUTION
	42-MO-NAT	102	2.900+ 0	2.900+ 0	60 820	10	ELASTIC	ANGULAR DISTRIBUTION
	42-MO-NAT	102	3.200+ 0	3.200+ 0	66 2950	12	ELASTIC	ANGULAR DISTRIBUTION
	42-MO-NAT	102	3.660+ 0	3.660+ 0	57 320	15	ELASTIC	ANGULAR DISTRIBUTION
	42-MO-NAT	102	4.100+ 0	4.100+ 0	60 576	15	ELASTIC	ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-167 ***

ZA = 42000

07/04/76

EC5IL-7600 REACTION INDEX (ZA ORDERED)

ZA = 42000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
42-MO-NAT	102		4.400+ 0	4.400+ 0	56 1828	1	ELASTIC ANGULAR DISTRIBUTION
42-MO-NAT	102		5.000+ 0	5.000+ 0	58 398	13	ELASTIC ANGULAR DISTRIBUTION
42-MO-NAT	102		6.000+ 0	6.000+ 0	61 1049	14	ELASTIC ANGULAR DISTRIBUTION
42-MO-NAT	102		6.040+ 0	6.040+ 0	65 889	14	ELASTIC ANGULAR DISTRIBUTION
N 42-MO-NAT	102		8.050+ 0	8.050+ 0	69 3660	19	ELASTIC ANGULAR DISTRIBUTION
42-MO-NAT	102		1.400+ 1	1.400+ 1	61 1046	30	ELASTIC ANGULAR DISTRIBUTION
42-MO-NAT	105		3.900+ 1	1.360+ 0	56 231	45	TOTAL SCATTERING ANGULAR DISTRIBUTION
42-MO-NAT	111		4.400+ 0	4.400+ 0	56 1828	1	N,N' ANGULAR DISTRIBUTION
42-MO-NAT	111		2.450+ 0	2.450+ 0	56 476	2	N,N' ANGULAR DISTRIBUTION
42-MO-NAT	111		4.400+ 0	4.400+ 0	56 1828	1	N,N' ANGULAR DISTRIBUTION
N 42-MO-NAT	124	7	1.400+ 1	1.400+ 1	74 3544	92	N,N' GAMMA ANGULAR DISTRIBUTION
N 42-MO-NAT	211		1.400+ 1	1.400+ 1	74 4061	40	N,N' ENERGY DISTRIBUTION
N 42-MO-NAT	311		1.400+ 1	1.400+ 1	74 4061	159	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N 42-MO-NAT	311	80	1.410+ 1	1.410+ 1	65 1908	48	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
42-MO-NAT	452		3.250+ 1	1.450+ 0	66 885	289	ELASTIC LEGENDRE EXPANSIONS OF ANGULAR DIST.
C 42-MO-NAT	521		4.900+ 7	1.500+ 1	57 1054	1	ABSORPTION RESONANCE INTEGRAL
C 42-MO-NAT	521		5.000+ 7	1.500+ 1	58 1162	1	ABSORPTION RESONANCE INTEGRAL
C 42-MO-NAT	521		5.000+ 7	1.500+ 1	60 897	1	ABSORPTION RESONANCE INTEGRAL
C 42-MO-NAT	521		5.000+ 7	1.500+ 1	65 1819	1	ABSORPTION RESONANCE INTEGRAL
C 42-MO-NAT	521		5.500+ 7	1.500+ 1	66 1491	1	ABSORPTION RESONANCE INTEGRAL
42-MO-NAT	606		1.500+ 0	1.500+ 1	60 1720	10	NONELASTIC EM'SSION ANGULAR DIST.-INTEGRAL E1-E2
42-MO-NAT	606		1.480+ 1	1.480+ 1	66 1042	96	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
42-MO-NAT	611		6.000+ 0	6.000+ 0	62 1043	13	N,N' ANGULAR DIST.-INTEGRAL E1-E2
42-MO-NAT	611		6.040+ 0	6.040+ 0	65 889	11	N,N' ANGULAR DIST.-INTEGRAL E1-E2
N 42-MO-NAT			2.500+ 0	5.000+ 0	70 3928	6	NUCLEAR TEMPERATURE
42-MO-NAT			6.000+ 0	6.000+ 0	62 1043	1	NUCLEAR TEMPERATURE
42-MO-NAT			1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
42-MO-NAT			1.480+ 1	1.480+ 1	67 2897	2	NUCLEAR TEMPERATURE
C 42-MO-NAT			0.000+ 0	1.000+ 3	68 814	2	AVERAGE RESONANCE PARAMETERS
C 42-MO-NAT			3.000+ 3	6.500+ 1	64 1226	2	AVERAGE RESONANCE PARAMETERS
42-MO-NAT			1.200+ 5	1.200+ 5	64 1829	6	RESONANCE PARAMETERS
42-MO-NAT			7.093+ 5	3.123+ 2	68 814	226	RESONANCE PARAMETERS
42-MO-NAT			1.890+ 4	8.420+ 4	56 201	6	RESONANCE PARAMETERS
42-MO-NAT			2.850+ 4	2.162+ 3	62 2604	38	RESONANCE PARAMETERS
42-MO-NAT			4.950+ 4	5.100+ 4	55 862	6	RESONANCE PARAMETERS
42-MO-NAT			9.670+ 4	3.760+ 3	63 2633	5	RESONANCE PARAMETERS
N 42-MO-92	1		1.013+ 1	1.495+ 0	72 3439	594	TOTAL
N 42-MO-92	1		1.300+ 1	6.490+ 1	67 3638	103	TOTAL
N 42-MO-92	2		3.000+ 1	1.500+ 0	72 3439	129	ELASTIC
N 42-MO-92	2		1.500+ 0	1.500+ 0	74 3566	1	ELASTIC
N 42-MO-92	11	7	1.470+ 1	1.470+ 1	72 3957	1	N,N'
42-MO-92	12		1.271+ 1	1.754+ 1	69 2366	13	N,2N
42-MO-92	12		1.310+ 1	2.700+ 1	52 93	6	N,2N
N 42-MO-92	12		1.341+ 1	1.492+ 1	72 3774	21	N,2N
42-MO-92	12		1.410+ 1	1.410+ 1	67 1887	1	N,2N
N 42-MO-92	12		1.420+ 1	1.420+ 1	72 3427	1	N,2N
42-MO-92	12		1.460+ 1	1.460+ 1	62 702	1	N,2N
42-MO-92	12		1.460+ 1	1.460+ 1	65 1672	1	N,2N
42-MO-92	12		1.470+ 1	1.480+ 1	69 3351	2	N,2N
42-MO-92	12		1.630+ 1	1.630+ 1	67 2009	1	N,2N
N 42-MO-92	12	2	1.341+ 1	1.492+ 1	72 3774	19	N,2N
42-MO-92	12	2	1.450+ 1	1.450+ 1	53 27	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-168 ***

ZA = 42092

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 42092

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	42-MO-92	12	2	1.480+ 1	1.480+ 1	65 2136	1 N,2N
N	42-MO-92	12	2	1.480+ 1	1.480+ 1	67 1901	1 N,2N
N	42-MO-92	12	2	1.480+ 1	1.480+ 1	72 3868	1 N,2N
N	42-MO-92	12	2	1.480+ 1	1.480+ 1	75 3562	1 N,2N
N	42-MO-92	12	3	1.341+ 1	1.492+ 1	72 3774	21 N,2N
N	42-MO-92	12	3	1.351+ 1	1.480+ 1	67 535	4 N,3N
N	42-MO-92	12	3	1.413+ 1	1.413+ 1	62 108	1 N,2N
N	42-MO-92	12	3	1.460+ 1	1.460+ 1	73 3988	1 N,2N
N	42-MO-92	12	3	1.480+ 1	1.480+ 1	63 756	1 N,2N
C	42-MO-92	12	3	1.480+ 1	1.480+ 1	65 2136	1 N,2N
N	42-MO-92	12	3	1.480+ 1	1.480+ 1	67 1901	1 N,2N
N	42-MO-92	12	3	1.480+ 1	1.480+ 1	72 3868	1 N,2N
N	42-MO-92	12	3	1.480+ 1	1.480+ 1	75 3562	1 N,2N
N	42-MO-92	12	63	1.356+ 1	1.471+ 1	70 1672	24 N,2N
N	42-MO-92	14		1.400+ 1	1.400+ 1	59 2053	1 N,N,P
N	42-MO-92	26		1.341+ 1	1.492+ 1	72 3774	10 N,P
N	42-MO-92	26		1.460+ 1	1.460+ 1	62 702	1 N,P
N	42-MO-92	26	5	1.440+ 1	1.440+ 1	70 3433	1 N,P
N	42-MO-92	26	5	1.480+ 1	1.480+ 1	63 756	1 N,P
N	42-MO-92	26	5	1.480+ 1	1.480+ 1	75 3562	1 N,P
N	42-MO-92	34		1.341+ 1	1.492+ 1	72 3774	10 N,ALPHA
N	42-MO-92	34		1.351+ 1	1.492+ 1	72 3774	20 N,ALPHA
N	42-MO-92	34	3	1.440+ 1	1.440+ 1	70 3433	1 N,ALPHA
N	42-MO-92	34	3	1.480+ 1	1.480+ 1	72 3868	1 N,ALPHA
N	42-MO-92	34	3	1.480+ 1	1.480+ 1	75 3562	1 N,ALPHA
N	42-MO-92	34	4	1.341+ 1	1.492+ 1	72 3774	10 N,ALPHA
N	42-MO-92	34	4	1.440+ 1	1.440+ 1	70 3433	1 N,ALPHA
N	42-MO-92	34	4	1.480+ 1	1.480+ 1	63 756	1 N,ALPHA
N	42-MO-92	76		1.000+ 0	1.000+ 0	65 3672	1 N,P
N	42-MO-92	76		2.000+ 0	2.000+ 0	64 1711	1 N,P
N	42-MO-92	76		2.000+ 0	2.000+ 0	66 1815	1 N,P
N	42-MO-92	76		2.000+ 0	2.000+ 0	67 1895	1 N,P
N	42-MO-92	76		2.000+ 0	2.000+ 0	68 2990	1 N,P
N	42-MO-92	76	5	1.000+ 0	1.000+ 0	71 3762	2 N,P
N	42-MO-92	76	5	1.500+ 0	1.500+ 0	62 3984	1 N,P
N	42-MO-92	102		3.000+ 1	1.500+ 0	72 3439	1040 ELASTIC
N	42-MO-92	102		1.500+ 0	1.500+ 0	74 3586	14 ELASTIC
N	42-MO-92	862	2	1.341+ 1	1.492+ 1	72 3774	20 N,2N
N	42-MO-92	862	3	1.372+ 1	1.820+ 1	69 2366	12 N,2N
N	42-MO-92	884	3	1.341+ 1	1.492+ 1	72 3774	10 N,ALPHA
N	42-MO-92			3.450- 4	3.450- 4	62 2604	1 RESONANCE PARAMETERS
N	42-MO-92			3.465- 4	1.055- 2	63 2603	11 RESONANCE PARAMETERS
N	42-MO-92			3.468- 4	3.170- 3	68 814	2 RESONANCE PARAMETERS
N	42-MO-92			3.469- 4	3.469- 4	69 3016	1 RESONANCE PARAMETERS
N	42-MO-92			3.470- 4	5.400- 3	71 3113	6 RESONANCE PARAMETERS
N	42-MO-92			3.470- 4	1.149- 2	71 3124	17 RESONANCE PARAMETERS
N	42-MO-92			3.472- 4	3.472- 4	67 3038	1 RESONANCE PARAMETERS
N	42-MO-94	1		1.015- 1	1.494+ 0	72 3439	558 TOTAL
N	42-MO-94	1		1.100- 1	6.500- 1	67 3638	212 TOTAL
N	42-MO-94	2		3.000- 1	1.500+ 0	72 3439	117 ELASTIC
N	42-MO-94	2		1.500+ 0	1.500+ 0	74 3586	1 ELASTIC
N	42-MO-94	11		1.120+ 0	1.500+ 0	72 3439	27 N,N'

SPECTRUM AVERAGED CROSS SECTION
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 SPECTRUM AVERAGED CROSS SECTION
 ANGULAR DISTRIBUTION
 ANGULAR DISTRIBUTION
 CROSS SECTION RATIO
 CROSS SECTION RATIO
 CROSS SECTION RATIO

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-169 ***

ZA = 42094

07/04/76

CCSL-7600 REACTION INDEX (ZA ORDERED)

ZA = 42094

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 42-MO-94	11	1	1.500+	0	1.500+ 0	74 3586	1 N,N'
42-MO-94	11	7	9.373+	1	1.494+ 0	65 1023	7 N,N'
N 42-MO-94	26	3	1.480+	1	1.480+ 1	63 756	1 N,P
42-MO-94	102		3.000+	1	1.500+ 0	72 3439	944 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-94	102		1.500+	0	1.500+ 0	74 3586	14 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-94	111	1	1.120+	0	1.500+ 0	72 3439	195 N,N' ANGULAR DISTRIBUTION
N 42-MO-94	111	1	1.500+	0	1.500+ 0	74 3586	14 N,N' ANGULAR DISTRIBUTION
42-MO-94			1.088+	4	5.124+ 3	71 3124	13 RESONANCE PARAMETERS
42-MO-94			1.519+	3	5.380+ 3	63 2603	6 RESONANCE PARAMETERS
42-MO-94			1.521+	3	1.669+ 3	62 2604	2 RESONANCE PARAMETERS
42-MO-94			1.697+	3	1.951+ 3	68 814	2 RESONANCE PARAMETERS
N 42-MO-95	1		1.300+	1	6.400+ 1	67 3638	103 TOTAL
42-MO-95	21		2.530+	8	2.530+ 8	60 897	1 ABSORPTION
42-MO-95	23		3.250+	5	4.600+ 2	63 896	47 N, GAMMA
42-MO-95	73		2.500+	8	2.500+ 8	52 342	1 N, GAMMA
42-MO-95	76		2.000+	0	2.000+ 0	62 1815	1 N,P
N 42-MO-95	76	5	1.500+	0	1.500+ 0	62 3994	1 N,P
42-MO-95	76	5	2.000+	0	2.000+ 0	64 1711	1 N,P
N 42-MO-95	224	80	2.500+	8	2.500+ 2	72 4050	58 N,X GAMMA ENERGY DISTRIBUTION
N 42-MO-95	224	80	2.530+	8	2.530+ 8	69 3654	291 N,X GAMMA ENERGY DISTRIBUTION
C 42-MO-95	521		5.000+	7	1.500+ 1	60 897	1 ABSORPTION
C 42-MO-95			0.000+	0	7.500+ 4	55 862	2 AVERAGE RESONANCE PARAMETERS
C 42-MO-95			0.000+	0	1.200+ 3	69 3016	3 AVERAGE RESONANCE PARAMETERS
N 42-MO-95			0.000+	0	1.418+ 3	68 814	1 AVERAGE RESONANCE PARAMETERS
N 42-MO-95			0.000+	0	2.000+ 3	59 1191	1 AVERAGE RESONANCE PARAMETERS
N 42-MO-95			0.000+	0	5.000+ 2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C 42-MO-95			4.500+	5	1.150+ 3	71 3124	2 AVERAGE RESONANCE PARAMETERS
42-MO-95			4.460+	5	1.591+ 4	69 1878	8 RESONANCE PARAMETERS
N 42-MO-95			4.462+	5	4.462+ 5	70 3843	5 RESONANCE PARAMETERS
42-MO-95			4.470+	5	1.420+ 3	69 3016	39 RESONANCE PARAMETERS
42-MO-95			4.490+	5	1.145+ 3	67 3038	23 RESONANCE PARAMETERS
42-MO-95			4.490+	5	2.141+ 3	71 3124	55 RESONANCE PARAMETERS
42-MO-95			4.500+	5	2.150+ 4	62 2607	5 RESONANCE PARAMETERS
42-MO-95			4.500+	5	3.500+ 4	56 201	5 RESONANCE PARAMETERS
42-MO-95			4.500+	5	7.000+ 4	55 862	9 RESONANCE PARAMETERS
42-MO-95			4.500+	5	1.413+ 3	62 2604	12 RESONANCE PARAMETERS
42-MO-95			4.500+	5	7.400+ 3	63 2603	37 RESONANCE PARAMETERS
42-MO-95			4.510+	5	1.610+ 4	65 2077	5 RESONANCE PARAMETERS
42-MO-95			4.510+	5	1.145+ 3	68 3039	15 RESONANCE PARAMETERS
42-MO-95			4.510+	5	1.145+ 3	70 3046	9 RESONANCE PARAMETERS
N 42-MO-95			4.510+	5	5.543+ 4	70 2297	4 RESONANCE PARAMETERS
42-MO-95			1.070+	4	2.150+ 4	62 2605	2 RESONANCE PARAMETERS
42-MO-95			1.177+	4	1.419+ 3	68 814	16 RESONANCE PARAMETERS
N 42-MO-96	1		1.277+	1	1.497+ 0	72 3439	544 TOTAL
N 42-MO-96	1		1.300+	1	6.400+ 1	67 3638	103 TOTAL
N 42-MO-96	2		3.000+	1	1.498+ 0	72 3439	121 ELASTIC
N 42-MO-96	2		1.500+	0	1.500+ 0	74 3586	1 ELASTIC
N 42-MO-96	11	1	1.035+	0	1.500+ 0	72 3439	38 N,N'
N 42-MO-96	11	1	1.500+	0	1.500+ 0	74 3586	2 N,N'
42-MO-96	23		8.300+	5	5.000+ 2	63 896	43 N, GAMMA
42-MO-96	26		1.410+	1	1.410+ 1	67 1887	1 N,P
42-MO-96	26		1.460+	1	1.460+ 1	62 702	1 N,P

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-170 ***

ZA = 42096

TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
42-HO-96	26	4	1.480*	1.480*	63 756	1	N.P
42-HO-96	26	4	1.440*	1.440*	70 3433	1	N.P
42-HO-96	73	5	2.500-8	2.500-8	52 342	1	N.GAMMA
42-HO-96	75	5	1.500-0	1.500-0	62 3984	966	ELASTIC
42-HO-96	102	1	1.495*	1.495*	72 3439	14	ELASTIC
42-HO-96	111	1	1.035*0	1.500*0	74 3586	276	N.N'
42-HO-96	111	1	1.035*0	1.500*0	72 3439	28	N.N'
42-HO-96	224	80	1.500-0	1.500*0	74 3586	38	N.X GAMMA
42-HO-96	224	80	2.500-8	2.500-8	73 4065	1	AVERAGE RESONANCE PARAMETERS
42-HO-96			0.000*0	1.5*0-3	59 3016	1	AVERAGE RESONANCE PARAMETERS
42-HO-96			0.000*0	5.000-2	56 1894	1	RESONANCE PARAMETERS
42-HO-96			1.132-4	2.362-3	67 3030	2	RESONANCE PARAMETERS
42-HO-96			1.134-4	1.134-4	71 3113	4	RESONANCE PARAMETERS
42-HO-96			1.134-4	3.282-3	69 814	25	RESONANCE PARAMETERS
42-HO-96			1.134-4	7.051-3	71 3124	5	RESONANCE PARAMETERS
42-HO-96			1.145-4	3.313-4	69 3016	9	RESONANCE PARAMETERS
42-HO-96			1.145-4	3.660-3	63 2603	4	RESONANCE PARAMETERS
42-HO-96			1.320-4	1.310-4	69 1878	1	RESONANCE PARAMETERS
42-HO-96			1.320-4	1.320-4	62 2604	5	RESONANCE PARAMETERS
42-HO-96			1.326-4	1.326-4	65 2077	2	RESONANCE PARAMETERS
42-HO-96			1.330-4	1.330-4	55 862	3	RESONANCE PARAMETERS
42-HO-96			1.340-4	1.340-4	56 201	60	N.GAMMA
42-HO-96	23		2.800-5	6.100-2	63 896	1	N.P
42-HO-96	26		1.410*	1.410*	67 1887	1	N.P
42-HO-96	26		1.450*	1.450*	53 27	1	N.P
42-HO-96	26		1.460*	1.460*	62 702	1	N.P
42-HO-96	26	3	1.440*	1.440*	70 3433	2	N.P
42-HO-96	73		2.500-8	2.500-8	52 342	1	N.GAMMA
42-HO-96	224	80	2.500-8	2.500-2	72 4050	42	N.X GAMMA
42-HO-96	224	80	2.530-8	2.530-8	71 3655	229	N.X GAMMA
42-HO-96			0.000*0	2.500-4	55 862	2	AVERAGE RESONANCE PARAMETERS
42-HO-96			0.000*0	5.000-3	59 3016	1	AVERAGE RESONANCE PARAMETERS
42-HO-96			0.000*0	5.000-2	59 1191	1	AVERAGE RESONANCE PARAMETERS
42-HO-96			0.000*0	1.260-3	68 1694	1	AVERAGE RESONANCE PARAMETERS
42-HO-96			0.000*0	1.260-3	68 814	3	AVERAGE RESONANCE PARAMETERS
42-HO-96			0.000*0	1.260-3	70 3124	40	RESONANCE PARAMETERS
42-HO-96			1.630-5	1.535-5	69 3016	15	RESONANCE PARAMETERS
42-HO-96			1.630-5	1.250-3	63 2603	15	RESONANCE PARAMETERS
42-HO-96			7.080-5	1.261-3	67 3030	69	RESONANCE PARAMETERS
42-HO-96			7.080-5	2.000-3	63 2603	12	RESONANCE PARAMETERS
42-HO-96			7.082-5	1.941-3	71 3124	12	RESONANCE PARAMETERS
42-HO-96			7.093-5	1.261-3	68 814	3	RESONANCE PARAMETERS
42-HO-96			7.150-5	5.800-4	55 862	3	RESONANCE PARAMETERS
42-HO-96			7.160-5	7.160-5	65 2077	8	RESONANCE PARAMETERS
42-HO-96			7.180-5	1.519-3	62 2604	3	RESONANCE PARAMETERS
42-HO-96			7.190-5	7.190-5	56 201	3	RESONANCE PARAMETERS
42-HO-96			7.075-4	7.075-4	69 1878	549	TOTAL
42-HO-96			1.278-4	1.497*0	72 3439	103	TOTAL
42-HO-96	1		1.300-1	6.400-1	57 3638	1934	TOTAL
42-HO-96	1		1.300-1	1.208-2	66 1514	123	ELASTIC
42-HO-96	11		1.020*0	1.498*0	72 3439	59	N.N'
42-HO-96	11		1.020*0	1.500*0	72 3439		

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

... 1-171 ...

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
42-MO-98	23		2.500- 8	2.500- 8	61 2717	1	N, GAMMA
42-MO-98	23		2.530- 8	2.530- 8	47 899	1	N, GAMMA
42-MO-98	23		2.530- 8	2.530- 8	61 27 8	1	N, GAMMA
N 42-MO-98	23		2.530- 8	2.530- 8	69 3678	1	N, GAMMA
42-MO-98	23		5.000- 6	3.100- 2	63 896	53	N, GAMMA
42-MO-98	23		3.600- 3	2.644+ 0	57 2694	28	N, GAMMA
42-MO-98	23		2.100- 2	2.100- 2	57 23	1	N, GAMMA
42-MO-98	23		2.100- 2	2.100- 2	58 357	1	N, GAMMA
42-MO-98	23		2.400- 2	2.400- 2	57 305	1	N, GAMMA
42-MO-98	23		2.500- 2	2.500- 2	62 697	1	N, GAMMA
42-MO-98	23		1.950- 1	1.950- 1	59 526	1	N, GAMMA
42-MO-98	23		2.500- 1	2.725+ 0	69 3002	16	N, GAMMA
42-MO-98	23		3.000+ 0	3.000+ 0	67 1991	1	N, GAMMA
N 42-MO-98	23	4	2.400- 2	2.400- 2	68 2856	1	N, GAMMA
42-MO-98	26	3	1.410+ 1	1.410+ 1	67 1887	1	N, P
N 42-MO-98	26	3	1.440+ 1	1.440+ 1	70 3433	1	N, P
N 42-MO-98	26	3	1.480+ 1	1.480+ 1	63 756	1	N, P
42-MO-98	26	3	1.480+ 1	1.480+ 1	66 2137	2	N, P
N 42-MO-98	34		1.440+ 1	1.440+ 1	70 3433	1	N, ALPHA
42-MO-98	73		2.500- 8	2.500- 8	49 2742	1	N, GAMMA
42-MO-98	73		2.500- 8	2.500- 8	52 342	1	N, GAMMA
42-MO-98	73		2.500- 8	2.500- 8	53 2719	1	N, GAMMA
42-MO-98	73		2.500- 8	2.500- 8	60 909	1	N, GAMMA
42-MO-98	73		2.500- 8	2.500- 8	61 2717	1	N, GAMMA
42-MO-98	73		2.500- 8	2.500- 8	67 2001	1	N, GAMMA
N 42-MO-98	73		1.000+ 0	1.000+ 0	68 3730	1	N, GAMMA
42-MO-98	84		2.000+ 0	2.000+ 0	66 1815	1	N, ALPHA
N 42-MO-98	102		3.000- 1	1.498+ 0	72 3439	971	ELASTIC
N 42-MO-98	111	1	1.020+ 0	1.500+ 0	72 3439	413	N, N'
N 42-MO-98	224 80		2.500- 8	2.500- 8	73 4065	25	N, X GAMMA
C 42-MO-98	521		5.000- 7	1.500+ 1	61 2717	1	ABSORPTION
C 42-MO-98	523		4.400- 7	1.500+ 1	67 2001	1	N, GAMMA
C 42-MO-98	523		5.000- 7	1.400+ 1	63 1310	1	N, GAMMA
N 42-MO-98	523		5.000- 7	1.500+ 1	61 2718	1	N, GAMMA
N 42-MO-98	523		5.000- 7	1.500+ 1	69 3680	1	N, GAMMA
C 42-MO-98			0.000+ 0	1.540- 3	69 3016	1	AVERAGE RESONANCE PARAMETERS
N 42-MO-98			0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C 42-MO-98			1.000+ 5	1.000- 3	71 3124	1	AVERAGE RESONANCE PARAMETERS
C 42-MO-98			1.318- 3	1.610- 3	68 814	1	AVERAGE RESONANCE PARAMETERS
C 42-MO-98			1.000- 2	1.000+ 0	68 1328	3	AVERAGE RESONANCE PARAMETERS
42-MO-98			1.200- 5	1.200- 5	63 896	2	RESONANCE PARAMETERS
42-MO-98			1.200- 5	1.200- 5	66 2606	1	RESONANCE PARAMETERS
42-MO-98			1.200- 5	1.108- 3	71 3113	10	RESONANCE PARAMETERS
42-MO-98			1.200- 5	9.000- 3	63 2603	21	RESONANCE PARAMETERS
42-MO-98			1.208- 5	2.550- 3	67 3038	8	RESONANCE PARAMETERS
42-MO-98			1.208- 5	5.261- 3	71 3124	35	RESONANCE PARAMETERS
42-MO-98			1.210- 5	6.183- 4	70 3075	5	RESONANCE PARAMETERS
42-MO-98			1.210- 5	1.109- 3	69 3016	13	RESONANCE PARAMETERS
42-MO-98			1.215- 5	1.215- 5	65 2077	4	RESONANCE PARAMETERS
42-MO-98			4.270- 4	1.521- 3	62 2604	6	RESONANCE PARAMETERS
42-MO-98			4.290- 4	8.180- 4	70 3132	3	RESONANCE PARAMETERS
42-MO-98			4.290- 4	3.293- 3	68 814	8	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 42098

TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
42-HO-98			4.800- 4	4.800- 4	55 962	2	RESONANCE PARAMETERS
42-HO-100	1	1	1.497+ 1	1.497+ 1	72 3439	552	TOTAL
42-HO-100	1	1	1.305- 1	1.305- 1	67 3638	103	TOTAL
42-HO-100	2	2	1.495+ 0	1.495+ 0	72 3439	83	ELASTIC
42-HO-100	1	1	1.500+ 0	1.500+ 0	74 3565	89	ELASTIC
42-HO-100	11	11	1.500+ 0	1.500+ 0	72 3439	2	N,N'
42-HO-100	11	11	1.500+ 0	1.500+ 0	74 3566	2	N,N'
42-HO-100	12	12	1.410+ 1	1.410+ 1	67 1887	1	N,2N
42-HO-100	12	12	1.420+ 1	1.420+ 1	72 3427	1	N,2N
42-HO-100	12	12	1.440+ 1	1.440+ 1	69 2937	1	N,2N
42-HO-100	12	12	1.450+ 1	1.450+ 1	53 27	1	N,2N
42-HO-100	12	12	1.460+ 1	1.460+ 1	62 702	1	N,2N
42-HO-100	12	12	1.470+ 1	1.470+ 1	61 2009	1	N,2N
42-HO-100	12	12	1.480+ 1	1.480+ 1	61 703	1	N,2N
42-HO-100	12	12	1.460+ 1	1.460+ 1	73 3988	1	N,2N
42-HO-100	23	23	2.530- 8	2.530- 8	47 888	1	N,GAMMA
42-HO-100	23	23	1.950- 2	1.950- 2	63 896	39	N,GAMMA
42-HO-100	23	23	1.000- 1	1.000- 1	60 725	9	N,GAMMA
42-HO-100	23	23	2.100- 2	2.100- 2	58 43	1	N,GAMMA
42-HO-100	23	23	2.100- 2	2.100- 2	59 357	1	N,GAMMA
42-HO-100	23	23	2.500- 2	2.500- 2	62 207	1	N,GAMMA
42-HO-100	23	23	3.000- 2	3.000- 2	62 752	17	N,GAMMA
42-HO-100	23	23	5.200- 2	5.200- 2	61 2138	23	N,GAMMA
42-HO-100	23	23	1.500- 1	1.500- 1	59 623	24	N,GAMMA
42-HO-100	23	23	1.950- 1	1.950- 1	59 586	1	N,GAMMA
42-HO-100	23	23	2.000- 1	2.000- 1	58 363	3	N,GAMMA
42-HO-100	23	23	2.500+ 0	2.500+ 0	59 1044	3	N,GAMMA
42-HO-100	34	34	1.410+ 1	1.410+ 1	67 1887	1	N,ALPHA
42-HO-100	34	34	1.461+ 1	1.461+ 1	62 702	1	N,ALPHA
42-HO-100	73	73	2.500- 8	2.500- 8	49 2742	1	N,GAMMA
42-HO-100	73	73	2.500- 8	2.500- 8	52 342	1	N,GAMMA
42-HO-100	73	73	2.000+ 0	2.000+ 0	58 363	1	N,GAMMA
42-HO-100	102	102	3.400- 1	3.400- 1	72 3439	664	ELASTIC
42-HO-100	102	102	1.500+ 0	1.500+ 0	74 3586	14	ELASTIC
42-HO-100	111	111	1.000+ 0	1.000+ 0	72 3439	343	N,N'
42-HO-100	111	111	1.500+ 0	1.500+ 0	74 3586	28	N,N'
42-HO-100	224	80	5.000- 8	2.500- 8	73 4065	52	N,X GAMMA
42-HO-100	224	80	5.000- 7	1.400- 1	63 1310	1	N,GAMMA
42-HO-100	224	80	6.000- 7	1.500+ 1	72 3870	1	N,GAMMA
42-HO-100			0.000+ 0	1.250- 3	68 814	1	AVERAGE RESONANCE PARAMETERS
42-HO-100			0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
42-HO-100			1.000- 2	1.000+ 0	66 1328	1	AVERAGE RESONANCE PARAMETERS
42-HO-100			9.700- 5	9.940- 3	62 2604	6	RESONANCE PARAMETERS
42-HO-100			9.730- 5	9.730- 3	71 3113	2	RESONANCE PARAMETERS
42-HO-100			9.730- 5	9.730- 3	67 3368	4	RESONANCE PARAMETERS
42-HO-100			9.740- 5	1.550- 3	67 814	4	RESONANCE PARAMETERS
42-HO-100			9.740- 5	9.740- 3	69 2016	2	RESONANCE PARAMETERS
42-HO-100			9.741- 5	9.728- 3	71 3124	25	RESONANCE PARAMETERS
42-HO-100			9.950- 5	1.938- 3	63 2603	12	RESONANCE PARAMETERS
42-HO-100			3.670- 4	3.670- 4	55 862	2	RESONANCE PARAMETERS
42-HO-100			3.670- 4	3.670- 4	53 896	1	RESONANCE PARAMETERS

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
ANGULAR DISTRIBUTION
ANGULAR DISTRIBUTION
ANGULAR DISTRIBUTION
ANGULAR DISTRIBUTION
ENERGY DISTRIBUTION
RESONANCE INTEGRAL
RESONANCE INTEGRAL

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 43098

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
43-TC-98	73	4	2.500-8	2.500-8	58 399	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
43-TC-99	1		1.000-8	1.000-5	58 2139	35	TOTAL
43-TC-99	1		2.530-8	2.530-8	58 2720	1	TOTAL
43-TC-99	1		2.530-8	2.530-8	70 3530	1	TOTAL
43-TC-99	1		2.040-6	1.307-1	59 974	110	TOTAL
43-TC-99	1		2.259+0	1.498+1	67 750	237	TOTAL
43-TC-99	5		2.530-8	2.530-8	58 2720	1	TOTAL SCATTERING
43-TC-99	11	4	1.410+1	1.410+1	65 2140	1	N,N'
43-TC-99	21		2.530-8	2.530-8	58 2720	1	ABSORPTION
43-TC-99	21		2.530-8	2.530-8	60 897	1	ABSORPTION
43-TC-99	21		2.530-8	2.530-8	70 3530	1	ABSORPTION
43-TC-99	26		1.410+1	1.410+1	65 2140	1	N,P
43-TC-99	34		1.410+1	1.410+1	65 2140	1	N,ALPHA
43-TC-99	43		2.530-8	2.530-8	63 2877	1	COHERENT SCATTERING
43-TC-99	71		2.500-8	2.500-8	55 2721	1	ABSORPTION
43-TC-99	521		5.000-7	1.500+1	60 897	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
43-TC-99	873		1.000+0	1.000+0	71 3225	1	N,GAMMA RESONANCE INTEGRAL
43-TC-99			0.000+0	5.000+4	70 3095	2	AVERAGE RESONANCE PARAMETERS CROSS SECTION RATIO
43-TC-99			-6.400-6	2.800-4	70 3530	21	RESONANCE PARAMETERS
43-TC-99			-6.400-6	3.250+4	70 3095	26	RESONANCE PARAMETERS
44-RU-NAT	1		1.300-8	7.400-3	52 981	76	TOTAL
44-RU-NAT	1		1.000-2	1.000-1	53 181	2	TOTAL
44-RU-NAT	1		3.000-2	6.500-1	65 921	102	TOTAL
44-RU-NAT	1		1.200-1	6.400-1	67 3638	30	TOTAL
44-RU-NAT	1		2.273+0	1.492+1	67 750	242	TOTAL
44-RU-NAT	23		2.400-4	8.600-3	61 718	37	N,GAMMA
44-RU-NAT	23		1.750-1	1.000+0	60 674	7	N,GAMMA
44-RU-NAT	71		2.500-8	2.500-8	50 1794	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
44-RU-NAT	71		2.500-8	2.500-8	51 882	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
44-RU-NAT	73	7	2.530-8	2.530-8	70 2415	87	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
44-RU-NAT	73	10	2.530-8	2.530-8	70 2415	33	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
44-RU-NAT	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA SPECTRUM AVERAGED CROSS SECTION
44-RU-NAT	521		5.000-7	1.500+1	68 2770	1	ABSORPTION RESONANCE INTEGRAL
44-RU-NAT			3.000-3	6.500+1	64 1226	2	AVERAGE RESONANCE PARAMETERS
44-RU-NAT			9.800-6	9.800-6	53 100	1	RESONANCE PARAMETERS
44-RU-NAT			1.000-5	3.500-4	63 2439	8	RESONANCE PARAMETERS
44-RU-NAT			1.005-5	1.416-4	65 2474	10	RESONANCE PARAMETERS
44-RU-NAT			1.010-5	1.461-3	71 3069	12	RESONANCE PARAMETERS
44-RU-96	12		1.410+1	1.410+1	70 3340	1	N,2N
44-RU-96	12		1.440+1	1.440+1	61 676	1	N,2N
44-RU-96	12		1.450+1	1.450+1	53 27	1	N,2N
44-RU-96	12		1.470+1	1.470+1	66 1873	1	N,2N
44-RU-96	12		1.470+1	1.470+1	66 2141	1	N,2N
44-RU-96	12		1.510+1	1.510+1	74 3593	1	N,2N
44-RU-96	23		2.400-2	2.400-2	57 305	1	N,GAMMA
44-RU-96	23		1.950-1	1.950-1	59 526	1	N,GAMMA
44-RU-96	26		1.470+1	1.470+1	66 141	1	N,P
44-RU-96	26	5	1.410+1	1.410+1	70 3340	1	N,P
44-RU-96	26	5	1.440+1	1.440+1	76 7433	1	N,P
44-RU-96	28	4	1.410+1	1.410+1	70 3340	1	N,D
44-RU-96	28	5	1.410+1	1.410+1	70 3340	1	N,D
44-RU-96	36		1.400+1	1.400+1	65 1873	1	ACTIVATION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 44096

ZA = 44095

EUSIL-7600 REACTION INDEX (ZA ORDERED)

07/04/76

TARGET	CODE	S	E-MIN-KEV	E-MAX-KEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	44-RU-95	35	4	1.440	1	70 3433	1 ACTIVATION
N	44-RU-96	36	4	1.510	1	70 3533	1 ACTIVATION
N	44-RU-97	37	5	1.510	1	70 3633	1 ACTIVATION
N	44-RU-98	38	5	2.500	0	58 431	1 N.GAMMA
N	44-RU-99	39	5	2.500	0	58 431	1 N.GAMMA
N	44-RU-100	40	5	2.500	0	72 3873	1 N.GAMMA
N	44-RU-101	41	5	2.500	0	70 3340	1 N.GAMMA
N	44-RU-102	42	5	2.500	0	64 2724	1 N.GAMMA
N	44-RU-103	43	5	2.500	0	71 3069	1 N.GAMMA
N	44-RU-104	44	5	2.500	0	53 100	1 N.GAMMA
N	44-RU-105	45	5	2.500	0	68 3039	1 N.GAMMA
N	44-RU-106	46	5	2.500	0	65 2474	1 N.GAMMA
N	44-RU-107	47	5	2.500	0	63 2439	1 N.GAMMA
N	44-RU-108	48	5	2.500	0	71 3069	1 N.GAMMA
N	44-RU-109	49	5	2.500	0	66 2142	1 N.GAMMA
N	44-RU-110	50	5	2.500	0	64 2724	1 N.GAMMA
N	44-RU-111	51	5	2.500	0	74 4092	1 N.GAMMA
N	44-RU-112	52	5	2.500	0	71 3069	1 N.GAMMA
N	44-RU-113	53	5	2.500	0	71 3069	1 N.GAMMA
N	44-RU-114	54	5	2.500	0	53 27	1 N.GAMMA
N	44-RU-115	55	5	2.500	0	64 2724	1 N.GAMMA
N	44-RU-116	56	5	2.500	0	71 3069	1 N.GAMMA
N	44-RU-117	57	5	2.500	0	53 100	1 N.GAMMA
N	44-RU-118	58	5	2.500	0	68 3039	1 N.GAMMA
N	44-RU-119	59	5	2.500	0	65 2474	1 N.GAMMA
N	44-RU-120	60	5	2.500	0	63 2439	1 N.GAMMA
N	44-RU-121	61	5	2.500	0	71 3069	1 N.GAMMA
N	44-RU-122	62	5	2.500	0	66 2142	1 N.GAMMA
N	44-RU-123	63	5	2.500	0	64 2724	1 N.GAMMA
N	44-RU-124	64	5	2.500	0	74 4092	1 N.GAMMA
N	44-RU-125	65	5	2.500	0	71 3069	1 N.GAMMA
N	44-RU-126	66	5	2.500	0	71 3069	1 N.GAMMA
N	44-RU-127	67	5	2.500	0	53 27	1 N.GAMMA
N	44-RU-128	68	5	2.500	0	64 2724	1 N.GAMMA
N	44-RU-129	69	5	2.500	0	71 3069	1 N.GAMMA
N	44-RU-130	70	5	2.500	0	53 100	1 N.GAMMA
N	44-RU-131	71	5	2.500	0	68 3039	1 N.GAMMA
N	44-RU-132	72	5	2.500	0	65 2474	1 N.GAMMA
 					

07/04/76

ELSL-7600 REACTION INDEX (2A ORDERED)

2A = 44104

TARGET	CODE	5 E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	44-RU-104	523	80	5.000-7	1.500-1	72 3873
C	44-RU-104			0.000-0	1.300-3	71 3069
	44-RU-104			2.265-4	1.055-3	71 3069
	44-RU-105	73		2.500-8	2.500-8	60 2726
	44-RU-106	23		2.500-8	2.500-8	65 2727
	44-RU-106	73		2.500-8	2.500-8	65 2727
C	44-RU-106	523		5.400-7	1.500-1	65 2727
	45-RH-103			1.453-5	1.334-2	59 2007
	45-RH-103			1.869-5	5.028-4	157 TOTAL
	45-RH-103			2.311-5	2.956-4	1994 TOTAL
	45-RH-103			2.954-5	2.906-4	634 TOTAL
	45-RH-103			1.779-4	7.575-4	95 TOTAL
	45-RH-103			4.000-3	6.400-1	2988 TOTAL
	45-RH-103			1.100-2	1.010-1	122 TOTAL
	45-RH-103			1.100-1	6.400-1	10 TOTAL
N	45-RH-103			2.250-0	1.493-1	106 TOTAL
	45-RH-103			6.275-4	4.218-3	242 TOTAL
	45-RH-103	2		1.500-7	1.500-7	3675 TOTAL
N	45-RH-103	2		6.000-1	1.300-0	53 874
	45-RH-103	2		6.040-0	6.040-0	75 4013
	45-RH-103	11		8.040-0	6.040-0	65 889
N	45-RH-103	11		5.500-1	1.500-0	1 N,N'
	45-RH-103	11	3	1.220-1	1.474-1	99 N,N'
	45-RH-103	11	3	1.750-1	1.476-1	79 N,N'
N	45-RH-103	11	3	1.800-1	4.600-0	60 2800
	45-RH-103	11	3	5.500-1	1.500-0	3757
N	45-RH-103	11	3	2.700-0	1.480-1	75 4013
	45-RH-103	11	3	1.420-1	1.420-1	73 3993
C	45-RH-103	11	3	1.470-1	1.470-1	64 3685
N	45-RH-103	12		9.930-0	1.476-1	72 3302
	45-RH-103	12		1.035-1	1.510-1	75 3807
N	45-RH-103	12		1.063-1	1.959-1	60 590
N	45-RH-103	12	5	1.063-1	1.959-1	70 3787
N	45-RH-103	12	6	1.063-1	1.959-1	70 3787
	45-RH-103	13	4	1.950-1	1.950-1	70 3787
N	45-RH-103	13	5	1.805-1	1.959-1	67 1893
	45-RH-103	13	5	1.950-1	1.950-1	70 3787
	45-RH-103	18	4	1.470-1	1.470-1	68 2892
	45-RH-103	18	4	1.480-1	1.480-1	66 2141
	45-RH-103	21		2.530-8	2.530-8	68 2707
	45-RH-103	23		2.530-8	2.530-8	58 1162
	45-RH-103	23		3.900-7	3.400-2	47 888
	45-RH-103	23		4.585-5	9.913-5	1 N,GAMMA
C	45-RH-103	23		1.295-4	6.117-2	95 N,GAMMA
	45-RH-103	23		1.100-4	0.500-3	59 N,GAMMA
	45-RH-103	23		9.576-4	1.107-0	64 2153
	45-RH-103	23		3.500-3	2.900-1	55 N,GAMMA
	45-RH-103	23		6.314-3	2.973-1	61 718
N	45-RH-103	23		2.500-2	2.500-2	71 1137
	45-RH-103	23		3.000-2	5.500-2	90 726
	45-RH-103	23		6.500-2	6.500-2	74 3552
	45-RH-103	23		7.000-2	1.320-1	62 697
	45-RH-103	23				63 1
	45-RH-103	23				61 677
	45-RH-103	23				67 1807

TARGET CODE 5 E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** :17J ***

2A = 45103

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 45103

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	45-RH-103	521	5.000-7	1.500+1	68 2770	1	ABSORPTION
	45-RH-103	611	6.000+0	6.000+0	62 1043	1	N.N
	45-RH-103	611	6.040+0	6.040+0	65 889	11	N.N
	45-RH-103	626	1.400+1	1.400+1	57 351	8	N.P
	45-RH-103	627	1.320+1	1.320+1	57 847	27	N.X P
N	45-RH-103	873	2.500-2	2.500-2	72 3965	1	N.GAMMA
	45-RH-103		6.000+0	6.000+0	62 1043	1	NUCLEAR TEMPERATURE
C	45-RH-103		0.000+0	1.600+4	63 2149	2	AVERAGE RESONANCE PARAMETERS
N	45-RH-103		0.000+0	3.500+4	62 2143	1	AVERAGE RESONANCE PARAMETERS
N	45-RH-103		0.000+0	3.500+4	63 2160	3	AVERAGE RESONANCE PARAMETERS
N	45-RH-103		0.000+0	4.000+4	62 2145	1	AVERAGE RESONANCE PARAMETERS
N	45-RH-103		0.000+0	8.000+4	63 2145	2	AVERAGE RESONANCE PARAMETERS
N	45-RH-103		0.000+0	1.400+3	70 2480	4	AVERAGE RESONANCE PARAMETERS
N	45-RH-103		0.000+0	5.000+2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	45-RH-103		1.259-6	1.000+0	71 3137	3	AVERAGE RESONANCE PARAMETERS
C	45-RH-103		1.000-3	1.000+0	66 1328	3	AVERAGE RESONANCE PARAMETERS
C	45-RH-103		3.000-3	6.500+1	64 1226	2	AVERAGE RESONANCE PARAMETERS
N	45-RH-103		6.314+3	2.973-1	75 3552	4	AVERAGE RESONANCE PARAMETERS
C	45-RH-103		7.800-3	6.400-2	66 3019	1	AVERAGE RESONANCE PARAMETERS
	45-RH-103		0.000+0	1.253+0	68 3297	3	RESONANCE PARAMETERS
	45-RH-103		1.255-6	1.255-6	58 2147	3	RESONANCE PARAMETERS
	45-RH-103		1.257-4	7.574+4	65 2149	169	RESONANCE PARAMETERS
	45-RH-103		1.257-6	7.950+4	63 2145	109	RESONANCE PARAMETERS
	45-RH-103		1.259-6	9.889+4	71 3137	146	RESONANCE PARAMETERS
	45-RH-103		1.260-6	1.260-6	53 874	1	RESONANCE PARAMETERS
	45-RH-103		1.260-6	1.260-6	53 2157	4	RESONANCE PARAMETERS
	45-RH-103		3.438-5	1.270-3	61 2152	39	RESONANCE PARAMETERS
	45-RH-103		3.439-5	1.625+4	62 2148	5	RESONANCE PARAMETERS
	45-RH-103		3.440-5	2.900+4	64 2616	28	RESONANCE PARAMETERS
	45-RH-103		3.440-5	6.480+4	62 2143	38	RESONANCE PARAMETERS
	45-RH-103		3.440-5	8.430+4	63 2160	69	RESONANCE PARAMETERS
C	45-RH-103		3.441-5	4.140+3	70 2480	505	RESONANCE PARAMETERS
	45-RH-103		4.380-5	3.260+4	59 2007	12	RESONANCE PARAMETERS
	45-RH-103		4.650-5	1.860+4	58 1820	10	RESONANCE PARAMETERS
	45-RH-103		9.470-5	6.330+4	61 2158	21	RESONANCE PARAMETERS
	45-RH-103		9.500-5	7.610+4	66 2434	13	RESONANCE PARAMETERS
	45-RH-103		9.560-5	9.560+5	70 3086	1	RESONANCE PARAMETERS
	45-R-103		1.543+4	2.900+4	62 2144	10	RESONANCE PARAMETERS
	45-RH-103		1.544+4	5.550+4	69 2854	21	RESONANCE PARAMETERS
	45-RH-103		3.279+4	1.816+3	60 2617	53	RESONANCE PARAMETERS
	45-RH-105	73	2.500-8	2.500-8	64 2725	1	N.GAMMA
	45-RH-105	73	2.500-8	2.500-8	64 2729	1	N.GAMMA
	45-RH-105	73	2.500-8	2.500-8	63 2729	1	N.GAMMA
	46-PD-NAT	1	1.970-3	6.350-8	62 2161	47	TOTAL
	46-PD-NAT	1	4.850-9	9.300-6	67 2162	177	TOTAL
	46-PD-NAT	1	1.200-6	1.000-5	63 2348	25	TOTAL
	46-PD-NAT	1	8.190-6	7.614-2	55 2027	303	TOTAL
	46-PD-NAT	1	5.000-3	2.950-1	59 2342	61	TOTAL
	46-PD-NAT	1	5.000-3	8.400-1	65 922	95	TOTAL
	46-PD-NAT	1	1.000-1	1.497+0	72 3154	670	TOTAL
	46-PD-NAT	1	2.265+0	1.491+1	67 750	252	TOTAL
	46-PD-NAT	1	6.830+0	1.450+1	57 22	6	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-178 ***

ZA = 46000

07/04/76

ELSL-7600 REACTION INDEX (ZA ORDERED)

ZA = 46000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
46-PD-NAT	1	1	1.400	1	56	232	1 TOTAL
46-PD-NAT	1	1	1.480	1	57	358	1 TOTAL
46-PD-NAT	1	1	1.750	1	60	673	4 TOTAL
46-PD-NAT	2	3	3.000	1	71	3154	121 ELASTIC
46-PD-NAT	5	6	6.000	2	56	231	23 TOTAL SCATTERING
C 46-PD-NAT	11	1	6.000	1	72	3154	191 N,N'
46-PD-NAT	23	2	2.000	4	61	718	40 N,GAMMA
46-PD-NAT	23	1	1.010	2	61	577	36 N,GAMMA
46-PD-NAT	23	1	1.170	2	67	1547	71 N,GAMMA
46-PD-NAT	23	3	3.000	2	63	1	2 N,GAMMA
46-PD-NAT	41	7	7.300	8	51	1584	1 BOUND ATOM
46-PD-NAT	43	2	2.530	8	50	2564	1 COHERENT SCATTERING
46-PD-NAT	43	7	7.300	8	51	1584	1 COHERENT SCATTERING
46-PD-NAT	71	2	2.500	8	50	1623	1 ABSORPTION
46-PD-NAT	71	2	2.500	8	50	1794	1 ABSORPTION
46-PD-NAT	71	2	2.500	8	51	882	1 ABSORPTION
46-PD-NAT	73	7	2.530	8	70	2415	111 N,GAMMA
46-PD-NAT	73	10	2.530	8	70	2415	33 N,GAMMA
46-PD-NAT	74	2	2.530	8	70	2415	1 N,X GAMMA
46-PD-NAT	102	6	6.000	2	56	231	25 ELASTIC
46-PD-NAT	105	4	4.900	1	56	231	85 TOTAL SCATTERING
46-PD-NAT	426	1	1.400	1	57	351	1 N,P
46-PD-NAT	452	3	3.000	1	71	3154	480 ELASTIC
C 46-PD-NAT	521	5	5.000	7	68	2770	1 ABSORPTION
C 46-PD-NAT	626	1	1.400	1	57	351	5 N,P
46-PD-NAT	3	3	3.000	3	64	1226	2 AVERAGE RESONANCE PARAMETERS
46-PD-NAT	2	2	2.780	5	65	2618	4 RESONANCE PARAMETERS
46-PD-NAT	1	1	1.140	4	59	2007	14 RESONANCE PARAMETERS
46-PD-NAT	1	1	1.480	4	56	201	4 RESONANCE PARAMETERS
46-PD-102	12	1	1.410	1	70	3340	1 N,2N
46-PD-102	12	1	1.440	1	68	2853	1 N,2N
N 46-PD-102	12	4	1.450	1	73	3988	1 N,2N
46-PD-102	26	5	1.410	1	70	3340	1 N,D
46-PD-104	26	2	1.450	1	53	27	1 N,P
N 46-PD-104	26	80	2.500	8	74	4093	5 N,X GAMMA
46-PD-105	23	6	6.314	3	74	3552	562 N,GAMMA
46-PD-105	26	1	1.440	1	68	2853	1 N,P
N 46-PD-105	26	4	1.440	1	70	3433	1 N,P
46-PD-105	26	4	1.450	1	53	27	1 N,P
N 46-PD-105	26	3	6.314	3	75	3552	4 AVERAGE RESONANCE PARAMETERS
46-PD-105	2	2	2.950	6	63	2619	4 RESONANCE PARAMETERS
46-PD-105	1	1	1.168	5	56	201	8 RESONANCE PARAMETERS
46-PD-105	1	1	1.178	5	65	2618	35 RESONANCE PARAMETERS
46-PD-105	1	1	1.180	5	64	2546	26 RESONANCE PARAMETERS
46-PD-105	1	1	1.190	5	59	2007	27 RESONANCE PARAMETERS
46-PD-105	1	1	1.320	5	70	3046	3 RESONANCE PARAMETERS
46-PD-105	1	5	5.523	5	68	3039	50 RESONANCE PARAMETERS
N 46-PD-106	26	2	1.440	1	70	3433	1 N,P
N 46-PD-106	26	3	1.440	1	70	3433	1 N,P
46-PD-106	34	1	1.440	1	68	2853	1 N,ALPHA
N 46-PD-106	34	1	1.440	1	70	3433	1 N,ALPHA
46-PD-106	73	2	2.500	8	64	2722	1 N,GAMMA

SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-179 ***

ZA = 46108

07/04/76

EUSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 46106

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	46-PD-106	73	2	2.500- 8	2.500- 8	68 1962	1 N,GAMMA
	46-PD-106	521		5.000- 7	1.500- 1	64 2722	1 ABSORPTION
	46-PD-108	12	2	1.440- 1	1.440- 1	68 2853	1 N,2N
N	46-PD-108	12	2	1.480- 1	1.480- 1	71 3819	1 N,2N
	46-PD-108	14		1.450- 1	1.450- 1	59 626	1 N,N'P
	46-PD-108	23		3.000- 3	7.000- 1	60 726	12 N,GAMMA
	46-PD-108	23		2.400- 2	2.400- 2	66 1788	1 N,GAMMA
	46-PD-108	23		1.950- 1	1.950- 1	57 526	1 N,GAMMA
	46-PD-108	23	3	2.400- 2	2.400- 2	68 2392	1 N,GAMMA
	46-PD-108	23	4	2.530- 8	2.530- 8	47 888	1 N,GAMMA
	46-PD-108	23	4	2.100- 2	2.100- 2	57 23	1 N,GAMMA
	46-PD-108	23	4	2.400- 2	2.400- 2	57 305	1 N,GAMMA
	46-PD-108	23	4	2.400- 2	2.400- 2	68 2392	1 N,GAMMA
N	46-PD-108	26	2	1.440- 1	1.440- 1	70 3433	1 N,P
	46-PD-108	28		1.480- 1	1.480- 1	63 859	1 N,N
	46-PD-108	34		1.405- 1	1.405- 1	58 401	1 N,ALPHA
	46-PD-108	34		1.440- 1	1.440- 1	68 2853	1 N,ALPHA
N	46-PD-108	34		1.440- 1	1.440- 1	70 3433	1 N,ALPHA
	46-PD-108	34		1.450- 1	1.450- 1	63 880	1 N,ALPHA
	46-PD-108	73	3	2.500- 8	2.500- 8	59 2655	1 N,GAMMA
	46-PD-108	73	3	2.500- 8	2.500- 8	68 1962	1 N,GAMMA
	46-PD-108	73	4	2.500- 8	2.500- 8	58 2705	1 N,GAMMA
	46-PD-108	73	4	2.500- 8	2.500- 8	59 2655	1 N,GAMMA
	46-PD-108	73	4	2.500- 8	2.500- 8	60 909	1 N,GAMMA
N	46-PD-108	224	80	2.500- 8	2.500- 8	74 4093	29 N,X GAMMA
	46-PD-108			2.960- 6	9.160- 5	65 2618	8 RESONANCE PARAMETERS
	46-PD-108			2.970- 6	2.970- 6	67 2162	2 RESONANCE PARAMETERS
	46-PD-108			3.250- 5	8.950- 5	56 201	3 RESONANCE PARAMETERS
	46-PD-108			3.310- 5	9.080- 5	59 2007	3 RESONANCE PARAMETERS
	46-PD-108			9.094- 5	9.094- 5	68 3039	1 RESONANCE PARAMETERS
	46-PD-110	12		1.440- 1	1.440- 1	68 2853	1 N,2N
	46-PD-110	12	3	1.440- 1	1.440- 1	68 2853	1 N,2N
	46-PD-110	12	3	1.480- 1	1.480- 1	63 884	1 N,2N
N	46-PD-110	12	3	1.480- 1	1.480- 1	71 3819	1 N,2N
N	46-PD-110	12	4	1.410- 1	1.410- 1	70 3340	1 N,2N
N	46-PD-110	12	4	1.450- 1	1.450- 1	53 27	1 N,2N
	46-PD-110	12	4	1.470- 1	1.470- 1	64 1848	1 N,2N
N	46-PD-110	23		2.500- 2	2.500- 2	70 3969	2 N,GAMMA
	46-PD-110	23		2.000- 1	9.000- 1	49 212	2 N,GAMMA
	46-PD-110	23		1.450- 1	1.450- 1	57 521	1 N,GAMMA
	46-PD-110	23	3	2.530- 8	2.530- 8	47 888	1 N,GAMMA
	46-PD-110	23	3	2.400- 2	2.400- 2	66 1788	1 N,GAMMA
	46-PD-110	23	3	2.500- 0	4.000- 0	58 1044	3 N,GAMMA
	46-PD-110	28	2	1.480- 1	1.480- 1	63 859	1 N,D
	46-PD-110	34		1.450- 1	1.450- 1	53 27	1 N,ALPHA
	46-PD-110	73	4	2.500- 8	2.500- 8	63 1961	1 N,GAMMA
N	46-PD-110	873		2.500- 2	2.500- 2	70 3969	1 N,GAMMA
	46-PD-111	41		2.500- 2	2.500- 2	70 3969	1 BOUND ATOM
	47-AG-NAT	1		5.110- 9	8.180- 8	54 873	20 TOTAL
	47-AG-NAT	1		1.482- 8	9.809- 5	46 961	58 TOTAL
N	47-AG-NAT	1		7.000- 8	8.350- 7	70 3627	4 TOTAL
	47-AG-NAT	1		1.440- 6	1.440- 6	65 949	1 TOTAL

SPECTRUM AVERAGED CROSS SECTION
RESONANCE INTEGRALSPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
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SPECTRUM AVERAGED CROSS SECTION
ENERGY DISTRIBUTIONRESONANCE PARAMETERS
RESONANCE PARAMETERS
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RESONANCE PARAMETERS
RESONANCE PARAMETERSSPECTRUM AVERAGED CROSS SECTION
CROSS SECTION RATIO

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-180 ***

ZA = 47000

07/04/76

EC5IL-7600 REACTION 17-JEX (ZA ORDERED)

ZA = 47000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
47-AG-NAT	1		3.450-5	1.450-2	47 261	38	TOTAL
47-AG-NAT	1		5.078-5	5.000-4	54 459	154	TOTAL
47-AG-NAT	1		9.630-5	1.270-4	58 903	35	TOTAL
47-AG-NAT	1		4.020-5	6.750-4	56 1237	123	TOTAL
47-AG-NAT	1		9.108-5	1.184-3	65 814	3972	TOTAL
47-AG-NAT	1		1.150-4	3.000-4	49 844	2	TOTAL
47-AG-NAT	1		2.350-3	1.100-2	57 154	21	TOTAL
47-AG-NAT	1		5.000-3	1.950-1	59 2342	39	TOTAL
47-AG-NAT	1		5.000-3	6.400-1	65 922	95	TOTAL
47-AG-NAT	1		1.100-2	1.010-1	65 880	9	TOTAL
47-AG-NAT	1		2.400-2	1.570-0	49 50	35	TOTAL
47-AG-NAT	1		1.000-1	6.600-1	67 3638	61	TOTAL
47-AG-NAT	1		1.017-1	6.487-1	66 1062	14	TOTAL
47-AG-NAT	1		1.000+0	3.210+0	52 80	268	TOTAL
47-AG-NAT	1		2.256+0	1.481+1	67 750	14	TOTAL
47-AG-NAT	1		2.700+0	1.330+1	54 504	245	TOTAL
47-AG-NAT	1		4.531+0	7.089+0	67 1747	22	TOTAL
47-AG-NAT	1		6.700+0	6.700+0	62 2165	59	TOTAL
47-AG-NAT	1		6.830+0	1.411+1	57 22	1	TOTAL
47-AG-NAT	1		1.290+1	1.820+1	55 18	5	TOTAL
47-AG-NAT	1		1.300+1	1.820+1	55 133	10	TOTAL
47-AG-NAT	1		1.400+1	1.400+1	52 81	1	TOTAL
47-AG-NAT	1		1.740+1	2.880+1	60 673	4	TOTAL
47-AG-NAT	1		2.540+1	2.540+1	45 307	1	TOTAL
47-AG-NAT	1		3.000+1	1.390+2	53 355	11	TOTAL
47-AG-NAT	1		4.200+1	4.200+1	50 281	1	TOTAL
47-AG-NAT	2		3.790+2	1.731+3	71 3264	15	TOTAL
47-AG-NAT	2		3.600+2	1.030+1	58 325	7	ELASTIC
47-AG-NAT	2		6.500+1	1.450+0	66 885	24	ELASTIC
47-AG-NAT	2		8.733+1	6.500+1	63 1730	1	ELASTIC
47-AG-NAT	2		1.000+0	1.000+0	72 3546	1	ELASTIC
47-AG-NAT	2		2.000+0	2.000+0	54 103	1	ELASTIC
47-AG-NAT	2		6.700+0	6.700+0	65 1509	1	ELASTIC
47-AG-NAT	3		6.500+1	6.500+1	62 2165	1	ELASTIC
47-AG-NAT	3		1.000+0	7.000+0	63 1750	1	NONELASTIC
47-AG-NAT	3		2.500+0	2.500+0	58 151	3	NONELASTIC
47-AG-NAT	3		2.500+0	2.500+0	55 790	1	NONELASTIC
47-AG-NAT	3		3.500+0	1.410+1	55 34	1	NONELASTIC
47-AG-NAT	3		4.000+0	4.500+0	55 130	5	NONELASTIC
47-AG-NAT	3		8.200+0	2.000+1	50 510	2	NONELASTIC
47-AG-NAT	3		1.410+1	1.410+1	55 117	6	NONELASTIC
47-AG-NAT	3		1.420+1	1.420+1	57 319	1	NONELASTIC
47-AG-NAT	3		3.790+2	1.731+3	71 3264	15	NONELASTIC
47-AG-NAT	11		3.000+2	1.450+0	56 231	32	TOTAL SCATTERING
47-AG-NAT	12		2.800+0	2.800+0	67 2602	1	N,N'
47-AG-NAT	21		1.410+1	1.410+1	58 7	1	N,2N
47-AG-NAT	21		2.530-8	2.530-8	54 873	1	ABSORPTION
47-AG-NAT	21		2.530-8	2.530-8	54 2728	1	ABSORPTION
47-AG-NAT	21		2.530-8	2.530-8	54 2730	1	ABSORPTION
47-AG-NAT	21		2.530-8	2.530-8	60 891	1	ABSORPTION
47-AG-NAT	21		2.530-8	2.530-8	60 897	1	ABSORPTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-181 ***

ZA = 47000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 47000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
47-AG-NAT	21		2.400-2	2.400-2	65 1364	1	ABSORPTION
47-AG-NAT	23		1.000-8	2.700-2	1 63 2164	275	N, GAMMA
N 47-AG-NAT	27		2.530-8	8.350-7	70 3627	5	N, GAMMA
47-AG-NAT	23		2.500-5	2.000-2	64 1829	54	N, GAMMA
C 47-AG-NAT	23		2.807-5	8.940-5	64 2153	236	N, GAMMA
C 47-AG-NAT	23		2.813-5	1.253-2	63 2153	614	N, GAMMA
47-AG-NAT	23		3.700-5	1.700-2	60 616	38	N, GAMMA
47-AG-NAT	23		1.900-4	8.200-3	61 718	42	N, GAMMA
N 47-AG-NAT	23		2.000-4	3.460-2	70 3315	26	N, GAMMA
47-AG-NAT	23		9.800-3	1.600-1	61 677	50	N, GAMMA
47-AG-NAT	23		9.900-3	9.400-2	68 3301	47	N, GAMMA
47-AG-NAT	23		1.290-2	1.520-1	67 1547	65	N, GAMMA
47-AG-NAT	23		1.800-2	3.000-1	62 1407	8	N, GAMMA
N 47-AG-NAT	23		2.370-2	2.370-2	75 3909	1	N, GAMMA
47-AG-NAT	23		2.500-2	2.500-2	60 639	1	N, GAMMA
47-AG-NAT	23		2.500-2	2.500-2	62 697	1	N, GAMMA
47-AG-NAT	23		2.500-2	8.300-1	60 633	3	N, GAMMA
C 47-AG-NAT	23		2.900-2	1.380-1	65 2388	18	N, GAMMA
47-AG-NAT	23		3.000-2	6.550-2	63 1	2	N, GAMMA
N 47-AG-NAT	23		4.000-2	1.500-0	73 3682	13	N, GAMMA
47-AG-NAT	23		1.040-1	1.620-1	67 1807	4	N, GAMMA
47-AG-NAT	23		1.750-1	1.000-0	60 674	7	N, GAMMA
47-AG-NAT	23		2.000-1	2.000-1	38 367	1	N, GAMMA
47-AG-NAT	24		2.250-0	2.900-0	41 194	7	N, X GAMMA
47-AG-NAT	24	7	3.210-1	9.930-1	65 1023	63	N, X GAMMA
47-AG-NAT	41		7.300-8	7.300-8	51 1584	1	BOUND ATOM
47-AG-NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
47-AG-NAT	71		2.500-8	2.500-8	50 1794	1	ABSORPTION
47-AG-NAT	71		2.500-8	2.500-8	51 882	1	ABSORPTION
47-AG-NAT	71		2.500-8	2.500-8	56 906	1	ABSORPTION
47-AG-NAT	71		2.500-8	2.500-8	60 2578	1	ABSORPTION
47-AG-NAT	71		2.500-8	2.500-8	63 1670	1	ABSORPTION
47-AG-NAT	73	7	2.530-8	2.530-8	70 2415	97	N, GAMMA
47-AG-NAT	73	10	2.530-8	2.530-8	70 2415	26	N, GAMMA
47-AG-NAT	74		2.530-8	2.530-8	70 2415	1	N, X GAMMA
N 47-AG-NAT	86	2	8.300-1	8.300-1	73 3994	1	ACTIVATION
47-AG-NAT	102		5.600-2	1.040-1	58 325	14	ELASTIC
47-AG-NAT	102		5.000-1	1.550-0	55 1495	4	ELASTIC
47-AG-NAT	102		6.500-1	6.500-1	63 1750	8	ELASTIC
N 47-AG-NAT	102		8.733-1	8.733-1	72 3546	8	ELASTIC
47-AG-NAT	102		1.000-0	1.000-0	54 103	9	ELASTIC
47-AG-NAT	102		3.200-0	3.200-0	68 2950	13	ELASTIC
47-AG-NAT	102		5.000-0	5.000-0	66 1254	13	ELASTIC
47-AG-NAT	102		6.700-0	6.700-0	62 2165	39	ELASTIC
47-AG-NAT	102		1.450-1	1.450-1	61 1997	16	ELASTIC
47-AG-NAT	102		1.460-1	1.460-1	57 561	17	ELASTIC
47-AG-NAT	105		6.000-2	1.440-0	56 231	85	TOTAL SCATTERING
47-AG-NAT	106	1	1.490-1	1.490-1	62 2166	22	NONELASTIC EMISSION
47-AG-NAT	126		1.410-1	1.410-1	59 554	1	N, P
N 47-AG-NAT	324		9.150-1	1.845-1	73 3512	2973	N, X GAMMA
47-AG-NAT	403		1.4-0-1	1.410-1	53 2028	1	NONELASTIC
47-AG-NAT	406		1.420-1	1.420-1	58 905	1	NONELASTIC EMISSION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-182 ***

ZA = 47000

07/04/78

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 47000

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	47-AG-NAT	452		3.000- 1	1.450- 0	66 895	120	ELASTIC
C	47-AG-NAT	521		0.000- 0	2.000- 1	71 3311	1	ABSORPTION
C	47-AG-NAT	521		4.900- 7	1.500- 1	57 1054	1	ABSORPTION
C	47-AG-NAT	521		5.000- 7	1.500- 1	60 897	1	ABSORPTION
C	47-AG-NAT	521		5.000- 7	1.500- 1	67 2391	1	ABSORPTION
C	47-AG-NAT	521		5.500- 7	1.500- 1	66 1491	1	ABSORPTION
C	47-AG-NAT	523		5.000- 7	1.500- 1	64 287	1	N.GAMMA
C	47-AG-NAT	873		4.000- 2	1.500- 0	73 3682	13	N.GAMMA
C	47-AG-NAT			0.000- 0	6.000- 4	60 2472	2	AVERAGE RESONANCE PARAMETERS
C	47-AG-NAT			0.000- 0	7.000- 4	65 1872	2	AVERAGE RESONANCE PARAMETERS
C	47-AG-NAT			0.000- 0	2.000- 3	65 814	5	AVERAGE RESONANCE PARAMETERS
N	47-AG-NAT			0.000- 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
N	47-AG-NAT			4.000- 6	7.500- 4	69 2547	2	AVERAGE RESONANCE PARAMETERS
C	47-AG-NAT			3.000- 3	6.500- 1	64 1226	2	AVERAGE RESONANCE PARAMETERS
C	47-AG-NAT			8.000- 3	3.000- 2	68 3301	1	AVERAGE RESONANCE PARAMETERS
	47-AG-NAT			5.100- 6	4.300- 5	46 961	3	RESONANCE PARAMETERS
	47-AG-NAT			5.170- 6	5.170- 6	51 2044	1	RESONANCE PARAMETERS
	47-AG-NAT			1.600- 5	4.500- 5	47 261	2	RESONANCE PARAMETERS
	47-AG-NAT			1.470- 4	2.510- 4	56 1237	2	RESONANCE PARAMETERS
	47-AG-NAT			1.730- 4	2.500- 4	56 2612	3	RESONANCE PARAMETERS
	47-AG-NAT			1.731- 4	5.545- 4	65 814	3	RESONANCE PARAMETERS
	47-AG-NAT			1.734- 4	2.518- 4	61 2150	4	RESONANCE PARAMETERS
	47-AG-NAT			1.734- 4	6.850- 4	60 2472	28	RESONANCE PARAMETERS
	47-AG-NAT			1.740- 4	1.740- 4	63 2265	2	RESONANCE PARAMETERS
	47-AG-NAT			3.168- 4	7.530- 4	69 2547	17	RESONANCE PARAMETERS
	47-AG-107	1		1.420- 1	1.420- 1	67 1869	1	TOTAL
N	47-AG-107	11	2	1.300- 1	1.780- 1	73 3986	10	N,N'
	47-AG-107	12		1.410- 1	1.410- 1	63 373	1	N,2N
	47-AG-107	12		1.470- 1	1.470- 1	68 2526	1	N,2N
N	47-AG-107	12		1.480- 1	1.480- 1	68 2058	1	N,2N
	47-AG-107	12		1.480- 1	1.480- 1	67 2368	1	N,2N
	47-AG-107	12	3	1.205- 1	1.957- 1	63 2170	16	N,2N
	47-AG-107	12	3	1.220- 1	1.810- 1	62 770	7	N,2N
	47-AG-107	12	3	1.225- 1	1.820- 1	59 601	7	N,2N
N	47-AG-107	12	3	1.300- 1	1.780- 1	73 3986	9	N,2N
	47-AG-107	12	3	1.400- 1	1.400- 1	61 2168	1	N,2N
	47-AG-107	12	3	1.410- 1	1.410- 1	52 84	1	N,2N
	47-AG-107	12	3	1.410- 1	1.410- 1	61 830	1	N,2N
	47-AG-107	12	3	1.410- 1	1.410- 1	62 2167	1	N,2N
	47-AG-107	12	3	1.413- 1	1.413- 1	62 100	1	N,2N
	47-AG-107	12	3	1.414- 1	1.414- 1	57 535	1	N,2N
	47-AG-107	12	3	1.440- 1	1.440- 1	61 676	1	N,2N
	47-AG-107	12	3	1.450- 1	1.450- 1	53 27	1	N,2N
N	47-AG-107	12	3	1.460- 1	1.460- 1	73 3988	1	N,2N
	47-AG-107	12	3	1.480- 1	1.480- 1	61 660	1	N,2N
	47-AG-107	12	3	1.480- 1	1.480- 1	61 703	1	N,2N
	47-AG-107	12	5	1.035- 1	1.510- 1	60 590	10	N,2N
N	47-AG-107	12	5	1.341- 1	2.805- 1	75 3890	14	N,2N
	47-AG-107	12	5	1.400- 1	1.400- 1	61 2168	1	N,2N
	47-AG-107	12	80	1.360- 1	1.460- 1	68 2596	6	N,2N
	47-AG-107	12	85	1.220- 1	1.976- 1	60 588	15	N,2N
	47-AG-107	13		1.894- 1	1.950- 1	68 2892	4	N,3N

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-183 ***

ZA = 47107

07/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 47107

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
47-AG-107	13	4	1.894	1 1.950	1 67 1893	4	N,3N
47-AG-107	23		3.508	5 9.901	4 66 2387	1455	N,GAMMA
47-AG-107	23		3.000	3 2.500	1 60 726	23	N,GAMMA
47-AG-107	23		3.500	3 5.900	0 46 313	8	N,GAMMA
47-AG-107	23		2.100	2 2.100	2 58 43	1	N,GAMMA
47-AG-107	23		2.100	2 2.100	2 58 357	1	N,GAMMA
47-AG-107	23		2.400	2 2.400	2 57 305	1	N,GAMMA
47-AG-107	23		2.500	2 2.500	2 62 697	1	N,GAMMA
47-AG-107	23		2.900	2 1.460	1 65 2388	19	N,GAMMA
47-AG-107	23		1.060	1 2.600	0 59 653	20	N,GAMMA
47-AG-107	23		1.950	1 1.950	1 59 526	1	N,GAMMA
47-AG-107	23		2.000	1 4.000	0 58 363	3	N,GAMMA
47-AG-107	23	3	2.400	2 2.400	2 67 867	1	N,GAMMA
47-AG-107	23	3	3.000	1 3.000	0 67 1991	1	N,GAMMA
47-AG-107	34		1.420	1 1.420	1 72 3939	1	N,ALPHA
47-AG-107	41		7.300	8 7.300	8 51 1584	1	BOUND ATOM
47-AG-107	43		7.300	8 7.300	8 51 1584	1	COHERENT SCATTERING
47-AG-107	62	5	2.000	0 2.000	0 68 2990	1	N,2N
47-AG-107	73		2.500	8 2.500	8 52 342	1	N,GAMMA
47-AG-107	73	3	2.500	8 2.500	8 49 2742	1	N,GAMMA
47-AG-107	73	87	2.530	8 2.530	8 68 3735	47	N,GAMMA
47-AG-107	134		1.420	1 1.420	1 72 3939	6	N,ALPHA
47-AG-107	134		1.480	1 1.480	1 63 2169	1	N,ALPHA
47-AG-107	224	80	1.660	5 1.660	5 65 3741	7	N,X GAMMA
47-AG-107	873		1.000	0 1.000	0 71 3225	1	N,GAMMA
47-AG-107			0.000	0 1.000	4 54 459	1	AVERAGE RESONANCE PARAMETERS
47-AG-107			0.000	0 6.500	4 68 4018	3	AVERAGE RESONANCE PARAMETERS
47-AG-107			0.000	0 9.000	4 69 2387	2	AVERAGE RESONANCE PARAMETERS
47-AG-107			0.000	0 2.000	3 58 1191	1	AVERAGE RESONANCE PARAMETERS
47-AG-107			0.000	0 2.500	3 69 3050	6	AVERAGE RESONANCE PARAMETERS
47-AG-107			4.000	5 7.500	4 69 2547	1	AVERAGE RESONANCE PARAMETERS
47-AG-107			1.600	5 5.200	5 63 2265	5	RESONANCE PARAMETERS
47-AG-107			1.630	5 2.030	4 56 2612	9	RESONANCE PARAMETERS
47-AG-107			1.630	5 3.620	4 65 1949	24	RESONANCE PARAMETERS
47-AG-107			1.630	5 7.050	4 60 2472	88	RESONANCE PARAMETERS
47-AG-107			1.630	5 5.200	5 58 2471	21	RESONANCE PARAMETERS
47-AG-107			1.630	5 9.149	4 69 2387	59	RESONANCE PARAMETERS
47-AG-107			1.630	5 1.178	3 65 814	59	RESONANCE PARAMETERS
47-AG-107			1.650	5 3.116	4 61 2158	14	RESONANCE PARAMETERS
47-AG-107			1.650	5 1.660	5 55 2610	5	RESONANCE PARAMETERS
47-AG-107			1.660	5 5.220	5 54 459	12	RESONANCE PARAMETERS
47-AG-107			1.660	5 2.060	4 56 1237	14	RESONANCE PARAMETERS
47-AG-107			4.158	5 2.665	3 69 3050	44	RESONANCE PARAMETERS
47-AG-107			5.130	5 5.130	5 66 2173	1	RESONANCE PARAMETERS
47-AG-107			1.076	4 8.490	4 68 4018	26	RESONANCE PARAMETERS
47-AG-107			1.443	4 1.700	4 62 2473	3	RESONANCE PARAMETERS
47-AG-107			3.112	4 7.220	4 69 2547	42	RESONANCE PARAMETERS
47-AG-109	1		4.100	6 6.620	6 52 969	24	TOTAL
47-AG-109	1		2.374	5 3.479	4 66 2173	647	TOTAL
47-AG-109	1		1.420	1 1.420	1 67 1869	1	TOTAL
47-AG-109	11	2	1.300	1 1.780	1 73 3986	9	N,N'
47-AG-109	12		1.410	1 1.410	1 52 84	1	N,2N

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-184 ***

ZA = 47109

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
47-AG-109	12	1	1.410+	1.410+	52 2167	1	N,2N
47-AG-109	12	1	1.410+	1.414+	57 535	1	N,2N
47-AG-109	12	1	1.480+	1.480+	61 660	1	N,2N
47-AG-109	12	1	1.480+	1.480+	61 703	1	N,2N
47-AG-109	12	3	1.300+	1.780+	73 3985	10	N,2N
47-AG-109	12	3	1.400+	1.780+	59 519	1	N,2N
47-AG-109	12	3	1.450+	1.450+	53 27	1	N,2N
47-AG-109	12	85	1.356+	1.471+	70 1572	24	N,2N
47-AG-109	21	2	2.530-8	2.530-9	60 897	1	ABSORPTION
47-AG-109	23	2	2.530-8	2.530-8	47 868	1	N,GAMMA
47-AG-109	23	3	3.008-3	3.501-4	66 2387	1456	N,GAMMA
47-AG-109	23	3	3.500-3	3.900+0	60 725	10	N,GAMMA
47-AG-109	23	3	3.500-2	3.900+0	68 313	8	N,GAMMA
47-AG-109	23	2	2.500-2	2.500+2	52 597	1	N,GAMMA
47-AG-109	23	2	2.500-2	2.500+2	60 3771	8	N,GAMMA
47-AG-109	23	2	2.500-2	2.500+2	66 386	16	N,GAMMA
47-AG-109	23	2	2.500-2	2.500+2	72 3727	3	N,GAMMA
47-AG-109	23	7	7.000-0	1.975+	60 588	15	N,P
47-AG-109	26	1	1.400+	1.400+	57 350	1	N,P
47-AG-109	26	1	1.400+	1.400+	63 2174	1	N,P
47-AG-109	26	1	1.450+	1.450+	59 550	1	N,P
47-AG-109	26	3	1.350+	1.650+	73 3986	8	N,P
47-AG-109	26	4	1.360+	1.360+	69 4083	3	N,P
47-AG-109	32	1	1.480+	1.480+	61 660	1	N,P
47-AG-109	32	1	1.480+	1.480+	71 3816	1	N,HE-3
47-AG-109	34	1	1.480+	1.480+	61 660	1	N,ALPHA
47-AG-109	41	1	1.420+	1.420+	59 519	1	N,ALPHA
47-AG-109	43	7	7.300-8	7.300-8	51 1584	1	BOUND ATOM
47-AG-109	73	2	2.000+0	2.500-8	58 342	1	N,GAMMA
47-AG-109	73	2	2.000+0	2.500-8	58 363	1	N,GAMMA
47-AG-109	73	1	2.530-8	2.530-8	72 3704	2	N,GAMMA
47-AG-109	73	2	2.500-8	2.500-8	49 2742	1	N,GAMMA
47-AG-109	73	2	2.500-8	2.500-8	57 2731	1	N,GAMMA
47-AG-109	73	2	2.500-8	2.500-8	63 2556	1	N,GAMMA
47-AG-109	73	2	2.500-8	2.500-8	56 2574	1	N,GAMMA
47-AG-109	73	2	2.500-8	2.500-8	60 509	1	N,GAMMA
47-AG-109	73	2	2.500-8	2.500-8	69 364	1	N,GAMMA
47-AG-109	254	91	5.200-6	5.200-6	53 387	8	N,X,GAMMA
47-AG-109	524	1	5.000+0	1.500+	67 607	1	ABSORPTION
47-AG-109	523	1	5.000+0	1.500+	72 3704	2	N,GAMMA
47-AG-109	523	1	5.000+0	1.500+	68 1964	1	N,GAMMA
47-AG-109	523	5	5.500+0	1.500+	65 2172	1	N,GAMMA
47-AG-109	523	5	6.000+0	1.500+	62 3355	1	N,GAMMA
47-AG-109	523	5	6.000+0	1.500+	72 3727	2	N,GAMMA
47-AG-109	873	1	1.000+0	1.000+0	71 3255	1	CROSS SECTION RATIO
47-AG-109			0.000+0	1.000+4	54 459	3	AVERAGE RESONANCE PARAMETERS
47-AG-109			0.000+0	6.500+4	68 4018	3	AVERAGE RESONANCE PARAMETERS
47-AG-109			0.000+0	9.000+0	65 2387	2	AVERAGE RESONANCE PARAMETERS
47-AG-109			0.000+0	2.000+3	58 1191	1	AVERAGE RESONANCE PARAMETERS

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 47109

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	47-AG-109		0.000+ 0	2.500- 3	69 3050	6	AVERAGE RESONANCE PARAMETERS
C	47-AG-109		4.000- 6	7.500- 4	69 2547	1	AVERAGE RESONANCE PARAMETERS
C	47-AG-109		7.600- 3	6.400- 2	66 3019	1	AVERAGE RESONANCE PARAMETERS
	47-AG-109		5.170- 6	5.170- 6	51 2044	4	RESONANCE PARAMETERS
	47-AG-109		5.193- 6	5.193- 6	55 2610	5	RESONANCE PARAMETERS
	47-AG-109		5.194- 6	5.194- 6	56 2440	6	RESONANCE PARAMETERS
	47-AG-109		5.200- 6	5.200- 6	54 2611	1	RESONANCE PARAMETERS
	47-AG-109		5.200- 6	5.200- 6	68 2742	2	RESONANCE PARAMETERS
	47-AG-109		5.200- 6	1.340- 4	58 2471	41	RESONANCE PARAMETERS
	47-AG-109		5.200- 6	4.041- 4	25 1949	29	RESONANCE PARAMETERS
	47-AG-109		5.200- 6	9.028- 4	69 2387	64	RESONANCE PARAMETERS
	47-AG-109		5.200- 6	1.236- 3	65 814	67	RESONANCE PARAMETERS
	47-AG-109		5.220- 6	8.850- 5	54 459	19	RESONANCE PARAMETERS
	47-AG-109		3.035 5	3.170- 4	56 2173	13	RESONANCE PARAMETERS
	47-AG-109		3.050- 5	2.090- 4	56 2612	11	RESONANCE PARAMETERS
	47-AG-109		3.050- 5	3.173- 4	61 2158	21	RESONANCE PARAMETERS
	47-AG-109		3.050- 5	7.280- 4	60 2472	92	RESONANCE PARAMETERS
	47-AG-109		3.090- 5	3.160- 4	56 1237	22	RESONANCE PARAMETERS
	47-AG-109		3.100- 5	1.320- 4	13 2265	8	RESONANCE PARAMETERS
N	47-AG-109		3.263- 5	8.490- 4	68 4018	28	RESONANCE PARAMETERS
	47-AG-109		3.584- 5	2.587- 3	69 3050	56	RESONANCE PARAMETERS
	47-AG-109		6.220- 5	6.300- 4	65 2171	30	RESONANCE PARAMETERS
	47-AG-109		1.399- 4	1.734- 4	62 2473	2	RESONANCE PARAMETERS
	47-AG-109		2.911- 4	7.478- 4	69 2547	58	RESONANCE PARAMETERS
	48-CD-NAT	1	7.600-12	1.080-11	68 3378	3	TOTAL
C	48-CD-NAT	1	5.050- 9	3.600- 7	61 1026	142	TOTAL
	48-CD-NAT	1	8.000- 9	3.630- 3	47 261	85	TOTAL
	48-CD-NAT	1	2.400- 8	2.800- 7	52 369	29	TOTAL
	48-CD-NAT	1	2.500- 8	1.000- 6	67 2178	43	TOTAL
	48-CD-NAT	1	2.530- 8	2.530- 8	67 1875	1	TOTAL
N	48-CD-NAT	1	3.101- 8	5.505- 6	74 3894	848	TOTAL
	48-CD-NAT	1	6.000- 2	3.500- 7	53 874	12	TOTAL
	48-CD-NAT	1	1.447- 5	4.985- 4	57 863	321	TOTAL
	48-CD-NAT	1	1.150- 4	3.000- 4	49 844	2	TOTAL
	48-CD-NAT	1	1.000- 3	1.000- 3	46 261	1	TOTAL
	48-CD-NAT	1	1.000- 3	2.000- 3	55 138	2	TOTAL
	48-CD-NAT	1	6.000- 3	6.400- 1	65 922	88	TOTAL
	48-CD-NAT	1	1.100- 2	1.010- 1	65 880	10	TOTAL
	48-CD-NAT	1	2.400- 2	2.400- 2	47 46	1	TOTAL
N	48-CD-NAT	1	4.000- 2	2.400- 1	66 4017	5	TOTAL
	48-CD-NAT	1	6.000- 2	2.975+ 0	53 90	23	TOTAL
	48-CD-NAT	1	1.000- 1	6.487- 1	66 1062	534	TOTAL
	48-CD-NAT	1	3.400- 1	3.310+ 0	53 264	32	TOTAL
	48-CD-NAT	1	4.864- 1	9.175+ 0	71 3341	700	TOTAL
	48-CD-NAT	1	2.348+ 0	1.498+ 1	67 750	235	TOTAL
	48-CD-NAT	1	2.700+ 0	1.320+ 1	54 504	19	TOTAL
	48-CD-NAT	1	4.100+ 0	4.100+ 0	55 296	1	TOTAL
	48-CD-NAT	1	6.870+ 0	1.450+ 1	57 22	10	TOTAL
	48-CD-NAT	1	1.279+ 1	2.080+ 1	60 622	11	TOTAL
	48-CD-NAT	1	1.400+ 1	1.400+ 1	52 81	1	TOTAL
	48-CD-NAT	1	1.480+ 1	1.480+ 1	57 368	1	TOTAL
	48-CD-NAT	1	1.580+ 1	1.175+ 2	61 789	60	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-186 ***

ZA = 48000

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 48000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
48-CD-NAT	1		1.730+	1 2.680+	1 60 673	4	TOTAL
48-CD-NAT	1		3.000+	1 1.390+	2 53 355	11	TOTAL
48-CD-NAT	1		9.940+	1 1.519+	2 66 2189	6	TOTAL
48-CD-NAT	1		5.700+	3 5.700+	3 69 3160	1	TOTAL
48-CD-NAT	1		2.650+	4 2.650+	4 71 3180	1	TOTAL
N 48-CD-NAT	1		3.400+	4 2.730+	5 74 3618	7	TOTAL
48-CD-NAT	2		2.000-	8 3.970-	7 53 874	19	ELASTIC
48-CD-NAT	2		1.760-	7 1.760-	7 47 261	1	ELASTIC
48-CD-NAT	2		5.600-	2 1.030-	1 59 325	7	ELASTIC
48-CD-NAT	2		3.000-	1 3.000-	1 63 1699	1	ELASTIC
48-CD-NAT	2		3.000-	1 1.500+	0 66 885	25	ELASTIC
48-CD-NAT	2		5.000-	1 8.000-	1 64 870	2	ELASTIC
N 48-CD-NAT	2		8.700-	1 8.700-	1 72 3545	1	ELASTIC
48-CD-NAT	2		1.000+	0 1.000+	0 54 103	1	ELASTIC
48-CD-NAT	2		2.000+	0 2.000+	0 65 1509	1	ELASTIC
48-CD-NAT	2		6.040+	0 6.040+	0 65 889	1	ELASTIC
N 48-CD-NAT	2		8.050+	0 8.050+	0 69 3660	1	ELASTIC
48-CD-NAT	2		1.460+	1 1.460+	1 60 631	1	ELASTIC
48-CD-NAT	3		7.700-	1 1.020+	0 56 353	2	NONELASTIC
N 48-CD-NAT	3		0.600-	1 9.600-	1 68 3863	1	NONELASTIC
48-CD-NAT	3		1.000+	0 7.000+	0 56 151	5	NONELASTIC
48-CD-NAT	3		1.200+	0 2.000+	0 56 164	3	NONELASTIC
48-CD-NAT	3		2.500+	0 2.500+	0 56 34	1	NONELASTIC
48-CD-NAT	3		2.500+	0 1.400+	1 55 790	4	NONELASTIC
48-CD-NAT	3		4.000+	0 4.500+	0 55 122	2	NONELASTIC
48-CD-NAT	3		4.100+	0 4.100+	0 55 296	1	NONELASTIC
48-CD-NAT	3		1.400+	1 1.400+	1 56 877	1	NONELASTIC
48-CD-NAT	3		1.410+	1 1.410+	1 55 117	1	NONELASTIC
48-CD-NAT	3		1.410+	1 1.410+	1 57 199	1	NONELASTIC
48-CD-NAT	3		1.415+	1 1.415+	1 52 82	1	NONELASTIC
48-CD-NAT	3		1.420+	1 1.420+	1 57 319	1	NONELASTIC
48-CD-NAT	3		1.450+	1 1.450+	1 56 200	1	NONELASTIC
48-CD-NAT	3		1.480+	1 1.480+	1 67 1656	1	NONELASTIC
48-CD-NAT	3		5.500+	1 1.400+	2 56 312	4	NONELASTIC
N 48-CD-NAT	5		4.850-	6 4.650-	6 68 3420	1	TOTAL SCATTERING
48-CD-NAT	5		3.000-	2 1.368+	1 56 231	22	TOTAL SCATTERING
48-CD-NAT	5		9.800-	1 9.800-	1 63 879	1	TOTAL SCATTERING
48-CD-NAT	11		4.000-	1 1.000+	0 63 773	4	N,N'
48-CD-NAT	11		5.000-	1 2.100+	0 57 236	13	N,N'
N 48-CD-NAT	11		9.600-	1 9.600-	1 56 3853	1	N,N'
48-CD-NAT	11		5.040+	0 6.040+	0 65 889	1	N,N'
N 48-CD-NAT	11	1	9.500-	1 9.600-	1 66 3863	3	N,N'
48-CD-NAT	11	1	1.200+	0 1.200+	0 63 828	1	N,N'
48-CD-NAT	12		1.410+	1 1.410+	1 58 7	1	N,2N
48-CD-NAT	21		2.530-	8 2.530-	8 58 1162	1	ABSORPTION
48-CD-NAT	21		2.530-	8 2.530-	8 60 891	1	ABSORPTION
48-CD-NAT	21		2.530-	8 2.530-	8 64 976	1	ABSORPTION
48-CD-NAT	21		6.000-	8 3.500-	7 53 874	11	ABSORPTION
48-CD-NAT	21		2.400-	2 2.400-	2 65 1364	1	ABSORPTION
48-CD-NAT	21		2.400-	2 8.300-	1 58 354	3	ABSORPTION
48-CD-NAT	23		2.530-	8 2.530-	8 68 2175	1	N,GAMMA
N 48-CD-NAT	23		2.530-	8 2.530-	8 64 895	3	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-187 ***

ZA = 48000

07/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 48000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
48-CD-NAT	23		2.000-4	7.500-3	61 718	29	N, GAMMA
48-CD-NAT	23		8.000-3	1.600-1	61 677	40	N, GAMMA
48-CD-NAT	23		1.190-2	1.580-1	67 1547	70	N, GAMMA
48-CD-NAT	23		2.400-2	2.400-2	60 639	1	N, GAMMA
48-CD-NAT	23		3.000-2	3.000-2	63 799	1	N, GAMMA
48-CD-NAT	23		3.000-2	6.500-2	63 1	2	N, GAMMA
48-CD-NAT	23		2.000-1	2.000-1	58 363	1	N, GAMMA
48-CD-NAT	23		4.000-1	4.000-1	60 674	1	N, GAMMA
N 48-CD-NAT	23		9.600-1	9.600-1	66 3853	1	N, GAMMA
48-CD-NAT	24		2.250+0	2.900+0	41 194	7	N, X GAMMA
48-CD-NAT	24		1.420+1	1.420+1	53 284	1	N, X GAMMA
48-CD-NAT	24	7	5.440+0	9.950+0	65 023	22	N, X GAMMA
48-CD-NAT	24	7	3.200+0	3.200+0	54 113	2	N, X GAMMA
48-CD-NAT	26		1.400+1	1.400+1	61 361	1	N, P
48-CD-NAT	43		4.230-8	4.230-8	62 928	1	COHERENT SCATTERING
48-CD-NAT	43		6.070-8	6.070-8	62 915	1	COHERENT SCATTERING
48-CD-NAT	48		1.400+1	1.400+1	58 877	1	ETA
48-CD-NAT	73	7	2.530-8	2.530-8	70 2415	181	N, GAMMA
48-CD-NAT	73	10	2.530-8	2.530-8	70 2415	33	N, GAMMA
48-CD-NAT	74		2.530-8	2.530-8	70 2415	1	N, X GAMMA
N 48-CD-NAT	86	3	4.500+0	4.500+0	73 3989	2	ACTIVATION
48-CD-NAT	102		5.600-2	1.040-1	58 325	14	ELASTIC
48-CD-NAT	102		3.000-1	3.000-1	63 1899	8	ELASTIC
48-CD-NAT	102		5.000-1	8.000-1	64 870	16	ELASTIC
48-CD-NAT	102		5.000-1	1.550+0	65 1495	3	ELASTIC
N 48-CD-NAT	102		8.700-1	8.700-1	72 3546	8	ELASTIC
48-CD-NAT	102		9.800-1	9.800-1	63 879	9	ELASTIC
48-CD-NAT	102		1.000+0	1.000+0	54 103	9	ELASTIC
48-CD-NAT	102		1.000+0	1.000+0	54 1032	5	ELASTIC
48-CD-NAT	102		1.000+0	1.000+0	68 2351	6	ELASTIC
48-CD-NAT	102		2.800+0	2.800+0	58 1044	8	ELASTIC
48-CD-NAT	102		3.200+0	3.200+0	66 2950	13	ELASTIC
48-CD-NAT	102		3.700+0	3.700+0	54 303	19	ELASTIC
48-CD-NAT	102		4.100+0	4.100+0	55 296	11	ELASTIC
48-CD-NAT	102		6.000+0	6.000+0	61 1049	14	ELASTIC
48-CD-NAT	102		6.040+0	6.040+0	65 889	14	ELASTIC
N 48-CD-NAT	102		8.050+0	8.050+0	69 3660	19	ELASTIC
48-CD-NAT	102		1.400+1	1.400+1	61 1946	25	ELASTIC
48-CD-NAT	102		1.400+1	1.400+1	61 1253	4	ELASTIC
48-CD-NAT	102		1.400+1	1.400+1	65 97	11	ELASTIC
48-CD-NAT	102		1.460+1	1.460+1	57 561	17	ELASTIC
48-CD-NAT	102		1.460+1	1.460+1	60 631	25	ELASTIC
48-CD-NAT	102		9.600+1	9.600+1	60 1045	6	ELASTIC
48-CD-NAT	102		1.360+2	1.360+2	56 1047	13	ELASTIC
48-CD-NAT	105		3.000-2	1.360+0	56 231	65	TOTAL SCATTERING
48-CD-NAT	106		1.490+1	1.490+1	62 2105	21	NONELASTIC EMISSION
48-CD-NAT	111		2.450+0	2.450+0	56 476	3	N, N'
48-CD-NAT	111		1.400+1	1.400+1	65 97	11	N, N'
48-CD-NAT	126		1.410+1	1.410+1	59 554	1	N, P
N 48-CD-NAT	211		1.400+1	1.400+1	74 4081	40	N, N'
N 48-CD-NAT	304		1.455+1	1.455+1	74 4002	470	NEUTRON EMISSION
N 48-CD-NAT	311		1.400+1	1.400+1	74 4081	64	N, N'

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-188 ***

ZA = 48000

07/04/78

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 48000

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
N	48-CD-NAT	311	80	1.410-1	1.410-1	65 1908	41	N,N'	DIFF. ENERGY-ANGLE DISTRIBUTION
	48-CD-NAT	403		1.410-1	1.410-1	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	48-CD-NAT	406		1.420-1	1.420-1	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	48-CD-NAT	452		3.000-1	1.500-0	66 885	125	ELASTIC	LEGENDRE EXPANSIONS OF ANGULAR DIST.
	48-CD-NAT	606		1.480-1	1.480-1	66 1042	66	NONELASTIC EMISSION	ANGULAR DIST.-INTEGRAL E1-E2
	48-CD-NAT	606		1.500-1	1.500-1	60 1720	5	NONELASTIC EMISSION	ANGULAR DIST.-INTEGRAL E1-E2
	48-CD-NAT	611		6.000-0	6.000-0	62 1043	13	N,N'	ANGULAR DIST.-INTEGRAL E1-E2
	48-CD-NAT	611		6.040-0	6.040-0	65 889	11	N,N'	ANGULAR DIST.-INTEGRAL E1-E2
	48-CD-NAT			6.000-0	6.000-0	62 1043	1	NUCLEAR TEMPERATURE	
	48-CD-NAT			1.400-1	1.400-1	65 985	3	NUCLEAR TEMPERATURE	
	48-CD-NAT			1.410-1	1.410-1	65 1908	2	NUCLEAR TEMPERATURE	
	48-CD-NAT			1.480-1	1.480-1	67 2497	2	NUCLEAR TEMPERATURE	
C	48-CD-NAT			3.000-3	6.500-1	64 1226	2	AVERAGE RESONANCE PARAMETERS	
	48-CD-NAT			1.760-7	1.760-7	52 969	2	RESONANCE PARAMETERS	
	48-CD-NAT			1.760-7	1.760-7	61 878	2	RESONANCE PARAMETERS	
N	48-CD-NAT			1.760-7	1.760-7	47 261	2	RESONANCE PARAMETERS	
	48-CD-NAT			1.776-7	1.776-7	67 1875	1	RESONANCE PARAMETERS	
	48-CD-NAT			1.780-7	1.780-7	64 895	1	RESONANCE PARAMETERS	
	48-CD-NAT			1.800-7	1.800-7	53 874	3	RESONANCE PARAMETERS	
	48-CD-NAT			1.810-7	1.810-7	67 2178	3	RESONANCE PARAMETERS	
	48-CD-NAT			2.210-5	2.210-5	61 960	1	RESONANCE PARAMETERS	
	48-CD-NAT			2.900-5	6.950-5	69 1878	2	RESONANCE PARAMETERS	
	48-CD-NAT			2.920-5	5.155-4	68 2893	6	RESONANCE PARAMETERS	
	48-CD-NAT			2.930-5	2.330-4	57 853	5	RESONANCE PARAMETERS	
	48-CD-NAT			8.340-5	8.130-4	59 2513	57	RESONANCE PARAMETERS	
	48-CD-NAT			3.107-4	1.491-3	69 2854	10	RESONANCE PARAMETERS	
	48-CD-106		1	1.420-1	1.420-1	67 1869	1	TOTAL	
	48-CD-106	12		1.230-1	1.780-1	63 2176	14	N,2N	
	48-CD-106	12		1.278-1	1.942-1	68 2891	10	N,2N	
	48-CD-106	12		1.440-1	1.440-1	61 676	1	N,2N	
	48-CD-106	12		1.440-1	1.440-1	68 2853	2	N,2N	
	48-CD-106	14		1.440-1	1.440-1	68 2853	1	N,N,P	
	48-CD-106	26		1.400-1	1.400-1	57 351	1	N,P	
	48-CD-106	26	3	1.278-1	1.942-1	68 2891	10	N,P	
	48-CD-106	26	3	1.440-1	1.440-1	70 3834	1	N,P	
N	48-CD-106	26	5	1.440-1	1.440-1	70 3834	1	N,P	
	48-CD-106	34		1.410-1	1.410-1	67 1780	1	N,ALPHA	
	48-CD-106	76	3	2.000-0	2.000-0	67 3354	1	N,P	
	48-CD-106	876		1.400-1	1.400-1	57 930	1	N,P	SPECTRUM AVERAGED CROSS SECTION
	48-CD-108			1.420-1	1.420-1	67 1869	1	TOTAL	CROSS SECTION RATIO
	48-CD-108	12		1.410-1	1.410-1	67 1700	1	N,2N	
	48-CD-108	12		1.440-1	1.440-1	68 2853	1	N,2N	
	48-CD-108	73		2.500-8	2.500-8	64 866	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
	48-CD-108	73	5	2.500-8	2.500-8	62 908	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
	48-CD-108	73	6	2.500-8	2.500-8	64 864	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
	48-CD-110			1.420-1	1.420-1	67 1869	1	TOTAL	
	48-CD-110	11	1	6.610-1	1.130-0	72 4059	52	N,N'	
	48-CD-110	12		1.440-1	1.440-1	68 2853	1	N,2N	
	48-CD-110	23		2.530-8	2.530-8	48 2688	1	N,GAMMA	
	48-CD-110	26		1.410-1	1.410-1	67 1780	1	N,P	
	48-CD-110	73	3	2.500-8	2.500-8	62 908	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
	48-CD-110	73	3	2.500-8	2.500-8	65 910	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-189 ***

ZA = 48110

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 48110

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
48-CD-110			8.800- 5	8.800- 5	56 138	4	RESONANCE PARAMETERS
48-CD-110			8.950- 5	8.950- 5	68 2893	1	RESONANCE PARAMETERS
48-CD-110			8.960- 5	8.960- 5	59 2613	4	RESONANCE PARAMETERS
48-CD-110			8.960- 5	8.960- 5	61 960	1	RESONANCE PARAMETERS
48-CD-110			8.980- 5	8.980- 5	69 1878	2	RESONANCE PARAMETERS
48-CD-110			9.000- 5	9.000- 5	56 2614	3	RESONANCE PARAMETERS
48-CD-110			9.000- 5	9.000- 5	57 863	3	RESONANCE PARAMETERS
N 48-CD-111	1		2.000- 8	2.500- 7	68 3420	20	TOTAL
48-CD-111	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
N 48-CD-111	5		2.530- 8	4.650- 6	68 3420	3	TOTAL SCATTERING
48-CD-111	11 3		6.000- 1	7.200- 1	53 291	2	N,N'
48-CD-111	11 3		2.200+ 0	1.478+ 1	67 2177	24	N,N'
48-CD-111	11 3		2.200+ 0	1.478+ 1	68 1999	18	N,N'
48-CD-111	11 3		2.800+ 0	2.800+ 0	67 2602	1	N,N'
N 48-CD-111	11 3		3.400+ 0	1.660+ 1	75 4012	11	N,N'
48-CD-111	11 3		1.440+ 1	1.440+ 1	68 2853	1	N,N'
N 48-CD-111	11 3		1.420+ 1	1.480+ 1	71 3819	1	N,N'
N 48-CD-111	23		2.530- 8	2.530- 8	68 3420	1	N,GAMMA
48-CD-111	26		7.000+ 0	1.976+ 1	60 588	16	N,P
48-CD-111	26		1.400+ 1	1.400+ 1	63 323	1	N,P
48-CD-111	26		1.410+ 1	1.410+ 1	67 1780	1	N,P
N 48-CD-111	61 3		8.300- 1	8.300- 1	73 3894	1	N,N'
48-CD-111	61 3		2.000+ 0	2.000+ 0	65 910	1	N,N'
C 48-CD-111			0.000+ 0	2.000+ 4	57 863	1	AVERAGE RESONANCE PARAMETERS
C 48-CD-111			0.000+ 0	2.000+ 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C 48-CD-111			2.770- 5	2.335- 4	61 960	1	AVERAGE RESONANCE PARAMETERS
48-CD-111			2.720- 5	2.720- 5	56 138	2	RESONANCE PARAMETERS
48-CD-111			2.740- 5	9.980- 5	69 1878	7	RESONANCE PARAMETERS
48-CD-111			2.750- 5	1.638- 4	68 2893	9	RESONANCE PARAMETERS
48-CD-111			2.770- 5	1.650- 4	56 2614	7	RESONANCE PARAMETERS
48-CD-111			2.770- 5	2.335- 4	61 960	8	RESONANCE PARAMETERS
48-CD-111			2.800- 5	2.800- 5	63 2437	1	RESONANCE PARAMETERS
48-CD-111			2.800- 5	1.640- 4	64 2546	4	RESONANCE PARAMETERS
48-CD-111			2.810- 5	2.330- 4	57 863	13	RESONANCE PARAMETERS
48-CD-111			8.630- 5	2.335- 4	59 2613	11	RESONANCE PARAMETERS
48-CD-111			1.630- 4	1.630- 4	69 2854	3	RESONANCE PARAMETERS
N 48-CD-112	1		2.000- 8	2.500- 7	68 3420	20	TOTAL
48-CD-112	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
N 48-CD-112	5		2.530- 8	4.650- 6	68 3420	3	TOTAL SCATTERING
N 48-CD-112	11 1		6.260- 1	1.130+ 0	73 4059	56	N,N'
N 48-CD-112	12 3		1.290+ 1	1.790+ 1	75 4012	11	N,2N
48-CD-112	12 3		1.372+ 1	1.478+ 1	67 2177	3	N,2N
48-CD-112	12 3		1.372+ 1	1.478+ 1	68 1999	3	N,2N
48-CD-112	12 3		1.440+ 1	1.440+ 1	68 2853	1	N,2N
N 48-CD-112	12 3		1.470+ 1	1.470+ 1	74 3624	1	N,2N
N 48-CD-112	12 3		1.480+ 1	1.480+ 1	71 3819	1	N,2N
N 48-CD-112	23		2.530- 8	2.530- 8	68 3420	1	N,GAMMA
N 48-CD-112	26		1.300+ 1	1.660+ 1	75 4012	8	N,P
48-CD-112	26		1.400+ 1	1.400+ 1	57 351	1	N,P
48-CD-112	26		1.400+ 1	1.400+ 1	63 323	1	N,P
48-CD-112	26		1.410+ 1	1.410+ 1	67 1780	1	N,P
48-CD-112	26		1.440+ 1	1.440+ 1	68 2853	1	N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-19] ***

ZA = 48112

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 48112

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	48-CD-112	26	4	1.440+ 1	1.440+ 1	70 3433	1 N,P
	48-CD-112	34		1.000+ 0	1.976+ 1	60 588	16 N,ALPHA
	48-CD-112	34		1.400+ 1	1.400+ 1	57 330	1 N,ALPHA
	48-CD-112	34		1.400+ 1	1.400+ 1	63 323	1 N,ALPHA
	48-CD-112	34		1.410+ 1	1.410+ 1	67 1780	1 N,ALPHA
	9-CD-112	62	3	2.000+ 0	2.000+ 0	65 910	1 N,2N
	4-CD-112	876		1.400+ 1	1.400+ 1	57 930	1 N,P
							SPECTRUM AVERAGED CROSS SECTION
							CROSS SECTION RATIO
N	48-CD-112			6.691- 5	3.020- 3	71 3424	4 AVERAGE RESONANCE PARAMETERS
N	48-CD-112			6.691- 5	3.020- 3	72 3424	1 AVERAGE RESONANCE PARAMETERS
C	48-CD-112			6.780- 5	2.268- 4	61 960	1 AVERAGE RESONANCE PARAMETERS
	48-CD-112			6.670- 5	8.320- 5	68 2893	3 RESONANCE PARAMETERS
	48-CD-112			6.670- 5	8.330- 5	69 1878	5 RESONANCE PARAMETERS
	48-CD-112			6.690- 5	6.680- 5	56 2614	3 RESONANCE PARAMETERS
	48-CD-112			6.680- 5	6.680- 5	57 863	3 RESONANCE PARAMETERS
N	48-CD-112			6.691- 5	3.975- 3	71 3424	66 RESONANCE PARAMETERS
	48-CD-112			6.780- 5	2.268- 4	61 960	3 RESONANCE PARAMETERS
	48-CD-112			2.268- 4	2.268- 4	59 2613	1 RESONANCE PARAMETERS
	48-CD-113	1		1.420+ 1	1.420+ 1	67 1869	1 TOTAL
	48-CD-113	21		2.530- 8	2.530- 8	58 1162	1 ABSORPTION
	48-CD-113	26		1.400+ 1	1.400+ 1	57 351	1 N,P
	48-CD-113	26		1.400+ 1	1.400+ 1	63 323	1 N,P
	48-CD-113	26		1.410+ 1	1.410+ 1	67 1780	1 N,P
	48-CD-113	73	6	2.500- 8	2.500- 8	59 869	1 N,GAMMA
							SPECTRUM AVERAGED CROSS SECTION
	48-CD-113	224	80	2.530- 8	2.530- 8	61 1887	119 N,X GAMMA
N	48-CD-113	224	91	1.750- 7	1.750- 7	65 3741	4 N,X GAMMA
	48-CD-113	876		1.400+ 1	1.400+ 1	57 930	1 N,P
							CROSS SECTION RATIO
C	48-CD-113			0.000+ 0	2.000- 4	57 863	1 AVERAGE RESONANCE PARAMETERS
C	48-CD-113			0.000+ 0	2.000- 3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	48-CD-113			2.000- 7	2.154- 4	61 960	1 AVERAGE RESONANCE PARAMETERS
	48-CD-113			1.760- 7	1.760- 7	47 261	2 RESONANCE PARAMETERS
	48-CD-113			1.760- 7	1.760- 7	47 2615	1 RESONANCE PARAMETERS
	48-CD-113			1.760- 7	1.760- 7	61 878	1 RESONANCE PARAMETERS
	48-CD-113			1.776- 7	1.776- 7	67 1875	4 RESONANCE PARAMETERS
N	48-CD-113			1.793- 7	1.793- 7	74 3094	4 RESONANCE PARAMETERS
	48-CD-113			1.800- 7	1.800- 7	53 874	6 RESONANCE PARAMETERS
	48-CD-113			1.810- 7	1.810- 7	67 2178	3 RESONANCE PARAMETERS
	48-CD-113			2.000- 7	2.310- 4	61 960	10 RESONANCE PARAMETERS
N	48-CD-113			2.000- 7	2.150- 4	64 2546	6 RESONANCE PARAMETERS
	48-CD-113			1.834- 5	2.143- 4	68 2893	10 RESONANCE PARAMETERS
	48-CD-113			1.840- 5	1.090- 4	56 2614	6 RESONANCE PARAMETERS
	48-CD-113			1.860- 5	2.150- 4	57 863	15 RESONANCE PARAMETERS
	48-CD-113			6.370- 5	8.500- 5	59 1878	6 RESONANCE PARAMETERS
	48-CD-113			8.490- 5	2.154- 4	59 2613	13 RESONANCE PARAMETERS
	48-CD-113			1.930- 4	2.320- 4	69 2854	9 RESONANCE PARAMETERS
N	48-CD-114	1		2.000- 8	2.500- 7	68 3420	20 TOTAL
	48-CD-114	1		4.000+ 0	4.000+ 0	67 1643	1 TOTAL
	48-CD-114	1		1.420+ 1	1.420+ 1	67 1869	1 TOTAL
	48-CD-114	2		4.000+ 0	4.000+ 0	64 1643	1 ELASTIC
N	48-CD-114	5		2.530- 8	4.650- 6	68 3420	3 TOTAL SCATTERING
N	48-CD-114	11	1	5.650- 1	1.130+ 0	73 4059	63 N,N'
N	48-CD-114	11	1	1.134+ 0	2.968+ 0	74 3825	115 N,N'
	48-CD-114	23		2.530- 8	2.530- 8	47 888	1 N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1. 91 ***

ZA = 48114

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 49114

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	48-CD-114	23	2.530- 8	2.530- 8	68 3420	1	N,GAMMA
N	48-CD-114	23	1.210- 1	2.820- 0	74 3498	16	N,GAMMA
	48-CD-114	23	2.400- 2	2.400- 2	65 067	1	N,GAMMA
	48-CD-114	23	2.530- 8	2.530- 8	66 2622	2	N,GAMMA
	48-CD-114	34	1.400+ 1	1.400+ 1	63 323	1	N,ALPHA
	48-CD-114	34	1.400+ 1	1.400+ 1	57 350	1	N,ALPHA
	48-CD-114	34	1.410+ 1	1.410+ 1	67 1780	1	N,ALPHA
	48-CD-114	34	1.400+ 1	1.400+ 1	57 350	1	N,ALPHA
	48-CD-114	34	1.410+ 1	1.410+ 1	67 1780	1	N,ALPHA
N	48-CD-114	73	8.300- 1	8.300- 1	73 3994	1	N,GAMMA
	48-CD-114	102	4.000+ 0	4.000+ 0	64 1643	17	ELASTIC
C	48-CD-114	523	5.500- 7	1.500+ 1	66 2622	1	N,GAMMA
N	48-CD-114	873	1.210- 1	2.820+ 0	71 3498	16	N,GAMMA
	48-CD-114	884	1.400+ 1	1.400+ 1	57 930	1	N,ALPHA
	48-CD-114		5.870- 5	1.202- 4	61 960	2	RESONANCE PARAMETERS
	48-CD-114		1.200- 4	1.200- 4	69 2854	3	RESONANCE PARAMETERS
	48-CD-114		1.200- 4	1.200- 4	68 2893	1	RESONANCE PARAMETERS
	48-CD-114		1.202- 4	1.202- 4	59 2613	1	RESONANCE PARAMETERS
	48-CD-114		1.210- 4	1.210- 4	56 2614	3	RESONANCE PARAMETERS
	48-CD-114		1.210- 4	1.210- 4	57 863	3	RESONANCE PARAMETERS
N	48-CD-116	1	2.000- 8	2.500- 7	68 3420	20	TOTAL
	48-CD-116	1	1.420+ 1	1.420+ 1	67 1869	1	TOTAL
N	48-CD-116	5	2.530- 8	4.850- 6	68 3420	3	TOTAL SCATTERING
N	48-CD-116	11	1.392+ 0	2.924+ 0	74 3825	79	N,N'
	48-CD-116	12	8.700+ 0	1.976+ 1	60 588	14	N,2N
	48-CD-116	12	1.206+ 1	1.976+ 1	60 588	13	N,2N
	48-CD-116	12	1.410+ 1	1.410+ 1	67 1780	1	N,2N
	48-CD-116	12	1.480+ 1	1.480+ 1	61 703	1	N,2N
	48-CD-116	12	1.206+ 1	1.976+ 1	60 588	13	N,2N
	48-CD-116	12	1.410+ 1	1.410+ 1	67 1780	1	N,2N
	48-CD-116	12	1.440+ 1	1.440+ 1	68 2853	2	N,2N
	48-CD-116	12	1.480+ 1	1.480+ 1	61 703	1	N,2N
	48-CD-116	23	2.530- 8	2.530- 8	47 888	1	N,GAMMA
N	48-CD-116	23	2.530- 8	2.530- 8	68 3420	1	N,GAMMA
N	48-CD-116	23	2.500- 2	2.500- 2	70 3969	2	N,GAMMA
	48-CD-116	23	2.400- 2	2.400- 2	66 1788	1	N,GAMMA
	48-CD-116	26	1.410+ 1	1.410+ 1	67 1780	1	N,P
	48-CD-116	26	1.470+ 1	1.470+ 1	73 3898	1	N,P
	48-CD-116	34	1.410+ 1	1.410+ 1	67 1780	1	N,ALPHA
N	48-CD-116	73	8.300- 1	8.300- 1	73 3994	1	N,GAMMA
N	48-CD-116	73	2.530- 8	2.530- 8	68 3720	2	N,GAMMA
N	48-CD-116	862	1.480+ 1	1.480+ 1	72 3525	1	N,2N
N	48-CD-116	873	2.500- 2	2.500- 2	70 3969	1	N,GAMMA
N	48-CD-117	41	2.500- 2	2.500- 2	70 3969	1	BOUND ATOM
	49-IN-NAT	1	6.000- 9	8.200- 8	54 873	12	TOTAL
	49-IN-NAT	1	2.510- 8	1.209- 6	54 2179	311	TOTAL
	49-IN-NAT	1	5.100- 8	7.200- 7	46 961	14	TOTAL
	49-IN-NAT	1	4.550- 6	7.042- 3	55 2027	231	TOTAL
	49-IN-NAT	1	1.150- 4	1.000- 4	49 844	2	TOTAL
	49-IN-NAT	1	1.440- 4	2.860- 1	55 2042	49	TOTAL
	49-IN-NAT	1	1.000- 3	1.000- 3	47 444	1	TOTAL
	49-IN-NAT	1	1.100- 2	1.910- 1	65 880	10	TOTAL

SPECTRUM AVERAGED CROSS SECTION
ANGULAR DISTRIBUTION
RESONANCE INTEGRAL
CROSS SECTION RATIO
CROSS SECTION RATIO

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
CROSS SECTION RATIO
CROSS SECTION RATIO

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-192 ***

ZA = 49000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 49000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
49-IN-NAT	1		2.000-2	1.580+0	49 50	27	TOTAL
49-IN-NAT	1		3.000-2	6.500-1	65 921	101	TOTAL
N 49-IN-NAT	1		1.200-1	6.600-1	67 3638	32	TOTAL
49-IN-NAT	1		1.000+0	3.210+0	52 80	17	TOTAL
49-IN-NAT	1		2.251+0	1.499+1	67 750	244	TOTAL
49-IN-NAT	1		3.350+0	5.250+0	65 1804	33	TOTAL
49-IN-NAT	1		3.660+0	3.660+0	61 637	1	TOTAL
49-IN-NAT	1		6.700+0	6.700+0	62 2165	1	TOTAL
49-IN-NAT	1		6.830+0	1.445+1	57 22	6	TOTAL
49-IN-NAT	1		1.400+1	1.400+1	52 81	1	TOTAL
49-IN-NAT	1		1.750+1	2.890+1	60 673	5	TOTAL
49-IN-NAT	2		3.000-1	1.500+0	56 885	25	ELASTIC
N 49-IN-NAT	2		8.704-1	8.704-1	72 3546	1	ELASTIC
49-IN-NAT	2		1.000+0	1.000+0	54 103	1	ELASTIC
49-IN-NAT	2		3.000+0	8.050+0	69 2890	6	ELASTIC
49-IN-NAT	2		6.700+0	6.700+0	62 2165	1	ELASTIC
49-IN-NAT	3		1.000+0	1.000+0	54 103	1	NONELASTIC
49-IN-NAT	5		6.000-2	1.800+0	56 231	24	TOTAL SCATTERING
49-IN-NAT	11		4.000+0	7.000+0	63 936	4	N,N'
49-IN-NAT	11	1	2.500+0	2.500+0	54 301	2	N,N'
49-IN-NAT	12		1.410+1	1.410+1	58 1821	1	N,EN
49-IN-NAT	12	2	1.450+1	1.450+1	59 829	1	N,EN
49-IN-NAT	21		2.530-8	2.530-8	54 273	1	ABSORPTION
49-IN-NAT	21		2.530-8	2.530-8	58 1162	1	ABSORPTION
49-IN-NAT	21		2.530-8	2.530-8	60 891	1	ABSORPTION
49-IN-NAT	21		2.400-2	2.400-2	65 1364	1	ABSORPTION
49-IN-NAT	21		2.400-2	2.400-2	66 1541	1	ABSORPTION
49-IN-NAT	23		1.480-8	2.130-2	1 63 2164	258	N,GAMMA
49-IN-NAT	23		1.100-6	5.400-2	62 2067	137	N,GAMMA
49-IN-NAT	23		2.000-4	8.200-3	51 718	44	N,GAMMA
N 49-IN-NAT	23		5.500-3	8.200-2	74 4060	32	N,GAMMA
49-IN-NAT	23		7.300-3	4.000-1	61 677	70	N,GAMMA
49-IN-NAT	23		1.250-2	1.580-1	67 1547	68	N,GAMMA
49-IN-NAT	23		2.400-2	2.400-2	60 639	1	N,GAMMA
49-IN-NAT	23		2.500-2	2.500-2	62 697	1	N,GAMMA
49-IN-NAT	23		3.000-2	3.000-2	66 3019	1	N,GAMMA
N 49-IN-NAT	23		3.000-2	1.500+0	73 3682	14	N,GAMMA
49-IN-NAT	23		1.750-1	1.000+0	60 674	7	N,GAMMA
C 49-IN-NAT	23		1.410+1	1.410+1	59 2220	1	N,GAMMA
N 49-IN-NAT	23		1.410+1	1.410+1	70 2232	1	N,GAMMA
49-IN-NAT	24	10	1.410+1	1.410+1	63 1723	1	N,X GAMMA
49-IN-NAT	26		1.400+1	1.400+1	61 351	1	N,P
49-IN-NAT	34		1.400+1	1.400+1	62 2180	1	N,ALPHA
49-IN-NAT	71		2.500-8	2.500-8	51 882	1	ABSORPTION
49-IN-NAT	71		2.500-8	2.500-8	56 906	1	ABSORPTION
49-IN-NAT	71		2.500-8	2.500-8	60 2578	1	ABSORPTION
49-IN-NAT	71		2.500-8	2.500-8	63 1670	1	ABSORPTION
49-IN-NAT	73	7	2.530-8	2.530-8	70 2415	158	N,GAMMA
49-IN-NAT	73	10	2.530-8	2.530-8	70 2415	23	N,GAMMA
49-IN-NAT	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA
N 49-IN-NAT	102		8.704-1	8.704-1	72 3546	8	ELASTIC
49-IN-NAT	102		1.000+0	1.000+0	54 103	5	ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-193 ***

ZA = 49000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 49000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
49-IN-NAT	102		3.000+ 0	8.050+ 0	69 2890	96	ELASTIC ANGULAR DISTRIBUTION
49-IN-NAT	102		3.200+ 0	3.200+ 0	66 2950	13	ELASTIC ANGULAR DISTRIBUTION
49-IN-NAT	102		4.000+ 0	5.000+ 0	60 2131	18	ELASTIC ANGULAR DISTRIBUTION
49-IN-NAT	102		6.700+ 0	6.700+ 0	62 2165	40	ELASTIC ANGULAR DISTRIBUTION
49-IN-NAT	102		7.000+ 0	7.000+ 0	63 836	1	ELASTIC ANGULAR DISTRIBUTION
49-IN-NAT	102		1.400+ 1	1.400+ 1	56 483	11	ELASTIC ANGULAR DISTRIBUTION
49-IN-NAT	124	7	1.500+ 0	1.500+ 0	68 1019	12	N,X GAMMA ANGULAR DISTRIBUTION
49-IN-NAT	124	7	3.200+ 0	3.200+ 0	54 113	4	N,X GAMMA ANGULAR DISTRIBUTION
N 49-IN-NAT	211		1.400+ 1	1.400+ 1	74 4081	50	N,N' ENERGY DISTRIBUTION
N 49-IN-NAT	224		1.410+ 1	1.410+ 1	69 2220	25	N,X GAMMA ENERGY DISTRIBUTION
N 49-IN-NAT	224		1.410+ 1	1.410+ 1	69 2232	26	N,X GAMMA ENERGY DISTRIBUTION
N 49-IN-NAT	304		1.455+ 1	1.455+ 1	74 4002	467	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 49-IN-NAT	311		1.400+ 1	1.400+ 1	74 4081	200	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N 49-IN-NAT	311 80		1.410+ 1	1.410+ 1	65 1932	50	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
49-IN-NAT	426		1.400+ 1	1.400+ 1	57 391	1	N,P INTEGRAL EI-E2
49-IN-NAT	452		3.000+ 1	1.500+ 0	66 885	120	ELASTIC LEGENDRE EXPANSIONS OF ANGULAR DIST.
C 49-IN-NAT	521		0.000+ 0	2.000+ 1	71 3311	1	ABSORPTION RESONANCE INTEGRAL
C 49-IN-NAT	521		4.900+ 7	1.500+ 1	57 1054	1	ABSORPTION RESONANCE INTEGRAL
C 49-IN-NAT	521		5.000+ 7	1.500+ 1	58 1162	1	ABSORPTION RESONANCE INTEGRAL
C 49-IN-NAT	521		5.000+ 7	1.500+ 1	60 897	1	ABSORPTION RESONANCE INTEGRAL
C 49-IN-NAT	521		5.500+ 7	1.500+ 1	66 1491	1	ABSORPTION RESONANCE INTEGRAL
C 49-IN-NAT	523		5.000+ 7	1.500+ 1	64 287	1	N,GAMMA RESONANCE INTEGRAL
N 49-IN-NAT	873		3.000+ 2	1.500+ 0	73 3682	14	N,GAMMA CROSS SECTION RATIO
49-IN-NAT			1.410+ 1	1.410+ 1	66 1932	1	NUCLEAR TEMPERATURE
C 49-IN-NAT			0.000+ 0	2.000+ 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C 49-IN-NAT			3.000+ 3	6.500+ 1	64 1226	2	AVERAGE RESONANCE PARAMETERS
C 49-IN-NAT			8.000+ 3	3.000+ 2	68 3301	1	AVERAGE RESONANCE PARAMETERS
C 49-IN-NAT			3.000+ 2	6.500+ 1	68 1992	2	AVERAGE RESONANCE PARAMETERS
49-IN-NAT			1.440+ 6	1.440+ 6	46 961	3	RESONANCE PARAMETERS
N 49-IN-113	11 3		7.549+ 1	1.003+ 1	75 3636	52	N,N'
49-IN-113	11 3		2.800+ 6	1.470+ 1	70 3302	2	N,N'
N 49-IN-113	11 3		1.298+ 1	1.783+ 1	73 3814	10	N,N'
49-IN-113	11 4		4.480+ 1	1.017+ 0	68 1096	10	N,N'
49-IN-113	11 4		1.410+ 1	1.410+ 1	70 3340	1	N,N'
N 49-IN-113	12		1.298+ 1	1.783+ 1	70 3813	11	N,2N
49-IN-113	12 2		1.470+ 1	1.470+ 1	67 2712	2	N,2N
49-IN-113	12 3		1.410+ 1	1.410+ 1	70 3340	2	N,2N
N 49-IN-113	12 3		1.460+ 1	1.460+ 1	73 3988	1	N,2N
49-IN-113	12 3		1.470+ 1	1.470+ 1	68 3357	2	N,2N
49-IN-113	13		1.860+ 1	1.950+ 1	68 2892	5	N,3N
49-IN-113	13 4		1.860+ 1	1.950+ 1	67 1893	5	N,3N
49-IN-113	23 2		2.400+ 2	2.400+ 2	66 1788	1	N,GAMMA
49-IN-113	23 2		3.680+ 1	1.022+ 0	68 1096	11	N,GAMMA
49-IN-113	23 5		2.530+ 8	2.530+ 8	47 888	1	N,GAMMA
49-IN-113	23 5		7.800+ 3	6.700+ 2	66 3019	3	N,GAMMA
49-IN-113	23 5		2.100+ 2	2.100+ 2	57 23	1	N,GAMMA
49-IN-113	23 5		3.610+ 1	1.017+ 0	68 1096	11	N,GAMMA
49-IN-113	73 2		2.500+ 8	2.500+ 8	48 2733	1	N,GAMMA
49-IN-113	73 2		2.500+ 8	2.500+ 8	63 2556	1	N,GAMMA
49-IN-113	73 5		2.500+ 8	2.500+ 8	63 2556	1	N,GAMMA
N 49-IN-113	224 80		1.470+ 5	1.470+ 5	65 3741	8	N,X GAMMA ENERGY DISTRIBUTION
N 49-IN-113	523 80		6.000+ 7	1.500+ 1	72 3870	1	N,GAMMA RESONANCE INTEGRAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-194 ***

ZA = 49113

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 49113

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 49-IN-113	861	5	7.549-1	1.003+1	75 3636	52	N,N' CROSS SECTION RATIO
C 49-IN-113			0.000-0	4.200-5	55 862	2	AVERAGE RESONANCE PARAMETERS
C 49-IN-113			0.000-0	2.000-3	59 1191	1	AVERAGE RESONANCE PARAMETERS
49-IN-113			1.800-6	1.480-5	52 2467	3	RESONANCE PARAMETERS
49-IN-113			4.710-5	1.050-4	55 862	24	RESONANCE PARAMETERS
49-IN-113			1.467-5	7.000-5	56 201	11	RESONANCE PARAMETERS
49-IN-113			2.155-5	2.004-3	71 3116	42	RESONANCE PARAMETERS
49-IN-115	1		4.000-0	4.000-0	67 1643	.	TOTAL
49-IN-115	1		1.420+1	1.420+1	67 1659	1	TOTAL
49-IN-115	2		4.000-0	4.000-0	64 1643	1	ELASTIC
49-IN-115	11	1	1.470+1	1.470+1	69 3357	1	N,N'
N 49-IN-115	11	3	1.470+1	1.470+1	72 3302	1	N,N'
N 49-IN-115	11	4	3.480-1	1.474+1	75 3637	78	N,N'
49-IN-115	11	4	3.500-1	5.300-0	54 299	21	N,N'
49-IN-115	11	4	3.630-1	1.939+1	66 1096	31	N,N'
N 49-IN-115	11	4	4.437-1	1.003+1	75 3636	55	N,N'
N 49-IN-115	11	4	5.000-1	4.600-0	71 3757	8	N,N'
49-IN-115	11	4	6.000-1	1.800-0	54 298	31	N,N'
49-IN-115	11	4	9.700-1	1.939+1	67 1806	20	N,N'
N 49-IN-115	11	4	3.370-0	4.890-0	73 3743	10	N,N'
49-IN-115	11	4	1.410+1	1.410+1	70 3340	1	N,N'
N 49-IN-115	11	4	1.460+1	1.460+1	64 3685	1	N,N'
49-IN-115	11	4	1.460+1	1.460+1	65 1777	1	N,N'
49-IN-115	11	4	1.460+1	1.480+1	69 2354	3	N,N'
49-IN-115	11	4	1.480+1	1.480+1	68 2711	1	N,N'
49-IN-115	11	7	1.800-0	3.800-0	48 35	6	N,N'
N 49-IN-115	12		1.298+1	1.782+1	70 3811	11	N,2N
49-IN-115	12	2	1.350+1	1.675+1	67 2888	23	N,2N
N 49-IN-115	12	2	1.420+1	1.420+1	64 3685	1	N,2N
49-IN-115	12	2	1.470+1	1.470+1	69 3357	1	N,2N
49-IN-115	12	2	1.480+1	1.480+1	67 1901	1	N,2N
N 49-IN-115	12	2	1.480+1	1.480+1	73 3457	1	N,2N
49-IN-115	12	3	1.470+1	1.470+1	67 2712	2	N,2N
49-IN-115	12	5	9.300-0	1.976+1	60 568	15	N,2N
49-IN-115	12	5	1.270+1	1.939+1	67 1686	10	N,2N
49-IN-115	12	5	1.410+1	1.410+1	70 3340	1	N,2N
49-IN-115	12	5	1.460+1	1.479+1	69 2354	2	N,2N
49-IN-115	12	5	1.470+1	1.470+1	69 3357	1	N,2N
49-IN-115	12	5	1.480+1	1.480+1	68 2711	1	N,2N
49-IN-115	12	80	1.350+1	1.460+1	69 2596	6	N,2N
49-IN-115	23		3.500-3	5.900-0	46 313	8	N,GAMMA
49-IN-115	23		5.000-3	2.500-1	60 726	9	N,GAMMA
49-IN-115	23		2.100-2	2.100-2	58 43	1	N,GAMMA
49-IN-115	23		2.400-2	2.400-2	57 305	1	N,GAMMA
49-IN-115	23		2.400-2	3.100-0	63 749	2	N,GAMMA
N 49-IN-115	23		3.230-2	1.335-0	71 3821	10	N,GAMMA
49-IN-115	23		2.000-1	4.000-0	58 363	3	N,GAMMA
49-IN-115	23		4.000-1	4.000-1	56 9	1	N,GAMMA
49-IN-115	23	2	2.530-8	2.530-8	65 2738	1	N,GAMMA
49-IN-115	23	2	2.400-2	2.400-2	65 887	1	N,GAMMA
49-IN-115	23	2	2.400-2	3.100-0	63 749	2	N,GAMMA
49-IN-115	23	2	1.500-1	1.400-0	64 2069	14	N,GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-195 ***

ZA = 49115

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

2A = 49115

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	49-IN-115 102		1.800+ 0	1.800+ 0	72 4026	17	ELASTIC ANGULAR DISTRIBUTION
	49-IN-115 102		4.000+ 0	4.000+ 0	64 1643	17	ELASTIC ANGULAR DISTRIBUTION
	49-IN-115 105		6.600- 1	1.780+ 0	56 231	75	TOTAL SCATTERING ANGULAR DISTRIBUTION
	49-IN-115 126		1.410+ 1	1.410+ 1	59 554	1	N,P ANGULAR DISTRIBUTION
N	49-IN-115 224 91		1.460- 6	9.100- 6	65 3741	27	N,X GAMMA ENERGY DISTRIBUTION
	49-IN-115 327		1.480+ 1	1.480+ 1	63 3305	60	N,X P DIFF. ENERGY-ANGLE DISTRIBUTION
C	49-IN-115 334		1.440+ 1	1.440+ 1	68 3308	15	N,ALPHA DIFF. ENERGY-ANGLE DISTRIBUTION
C	49-IN-115 523		1.250- 7	1.460+ 1	60 1171	1	N,GAMMA RESONANCE INTEGRAL
C	49-IN-115 523		5.500- 7	1.500+ 1	83 2734	1	N,GAMMA RESONANCE INTEGRAL
C	49-IN-115 523		6.220- 1	1.400+ 1	63 1310	1	N,GAMMA RESONANCE INTEGRAL
C	49-IN-115 523	2	1.300- 6	1.500+ 1	63 2734	1	N,GAMMA RESONANCE INTEGRAL
C	49-IN-115 523	2	6.220- 1	1.400+ 1	63 1310	1	N,GAMMA RESONANCE INTEGRAL
C	49-IN-115 523	3	5.000- 7	1.500+ 1	57 339	1	N,GAMMA RESONANCE INTEGRAL
C	49-IN-115 523	3	1.300- 6	1.500+ 1	63 2734	1	N,GAMMA RESONANCE INTEGRAL
C	49-IN-115 523	3	6.220- 1	1.400+ 1	63 1310	1	N,GAMMA RESONANCE INTEGRAL
	49-IN-115 627		1.480+ 1	1.480+ 1	63 3305	12	N,X P ANGULAR DIST.-INTEGRAL E1-E2
N	49-IN-115 861	4	4.437- 1	1.003+ 1	75 3636	55	N,N' CROSS SECTION RATIO
	49-IN-115 873		4.000- 1	4.000- 1	71 3821	1	N,GAMMA CROSS SECTION RATIO
	49-IN-115 873		1.000+ 0	1.000+ 0	71 3225	1	N,GAMMA CROSS SECTION RATIO
	49-IN-115 876	4	1.000+ 1	2.500+ 1	59 3349	4	N,P CROSS SECTION RATIO
C	49-IN-115		0.000+ 0	5.600- 5	55 862	2	AVERAGE RESONANCE PARAMETERS
C	49-IN-115		0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	49-IN-115		0.000+ 0	2.000- 3	71 3116	2	AVERAGE RESONANCE PARAMETERS
N	49-IN-115		0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	49-IN-115		3.000- 2	2.000- 1	60 727	2	AVERAGE RESONANCE PARAMETERS
	49-IN-115		1.440- 6	1.440- 6	46 961	2	RESONANCE PARAMETERS
	49-IN-115		1.456- 6	1.456- 6	61 2468	1	RESONANCE PARAMETERS
	49-IN-115		1.456- 6	1.456- 6	61 2470	1	RESONANCE PARAMETERS
	49-IN-115		1.456- 6	3.850- 6	55 2396	6	RESONANCE PARAMETERS
	49-IN-115		1.456- 6	9.010- 6	58 393	8	RESONANCE PARAMETERS
	49-IN-115		1.457- 6	1.457- 6	68 3297	3	RESONANCE PARAMETERS
	49-IN-115		1.458- 6	1.458- 6	55 2466	1	RESONANCE PARAMETERS
	49-IN-115		1.458- 3	2.350- 5	52 2467	5	RESONANCE PARAMETERS
N	49-IN-115		1.458- 6	1.458- 6	69 3365	2	RESONANCE PARAMETERS
	49-IN-115		1.467- 6	9.100- 6	60 2489	3	RESONANCE PARAMETERS
	49-IN-115		1.467- 3	9.200- 6	84 2455	9	RESONANCE PARAMETERS
	49-IN-115		3.850- 6	9.500- 5	55 862	23	RESONANCE PARAMETERS
	49-IN-115		9.070- 8	1.290- 4	56 201	13	RESONANCE PARAMETERS
	49-IN-115		2.270- 9	1.981- 3	71 3116	312	RESONANCE PARAMETERS
50-SI-NAT	1		3.270- 9	1.200- 8	55 2057	10	TOTAL
50-SI-NAT	1		1.700- 5	8.160- 5	58 903	33	TOTAL
50-SI-NAT	1		2.740- 5	6.950- 4	55 862	253	TOTAL
50-SI-NAT	1		1.150- 4	3.000- 4	49 844	2	TOTAL
50-SI-NAT	1		1.030- 3	1.600- 2	48 189	3	TOTAL
50-SI-NAT	1		1.500- 2	6.400- 1	65 922	78	TOTAL
50-SI-NAT	1		2.400- 2	8.300- 1	47 46	6	TOTAL
50-SI-NAT	1		3.200- 2	1.401+ 0	50 2055	16	TOTAL
50-SI-NAT	1		1.001- 1	6.489- 1	65 1062	541	TOTAL
50-SI-NAT	1		1.000+ 0	3.210+ 0	52 80	16	TOTAL
50-SI-NAT	1		2.273+ 0	1.479+ 1	67 750	241	TOTAL
50-SI-NAT	1		2.800+ 0	1.320+ 1	51 504	21	TOTAL
50-SI-NAT	1		4.100+ 0	4.100+ 0	55 296	1	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-197 ***

2A = 50000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 50000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
50-SN-NAT	1		4.531+ 0	7.564+ 0	67 1747	61	TOTAL
50-SN-NAT	1		6.630+ 0	1.403+ 1	57 22	7	TOTAL
50-SN-NAT	1		8.940+ 0	8.940+ 0	69 2025	1	TOTAL
50-SN-NAT	1		1.237+ 1	2.028+ 1	60 622	13	TOTAL
50-SN-NAT	1		1.300+ 1	1.620+ 1	55 133	7	TOTAL
50-SN-NAT	1		1.400+ 1	1.400+ 1	52 81	1	TOTAL
50-SN-NAT	1		1.400+ 1	1.400+ 1	52 207	1	TOTAL
50-SN-NAT	1		1.480+ 1	1.480+ 1	57 368	1	TOTAL
50-SN-NAT	1		1.730+ 1	2.880+ 1	60 673	4	TOTAL
50-SN-NAT	1		4.200+ 1	4.200+ 1	50 281	1	TOTAL
50-SN-NAT	1		9.000+ 1	9.000+ 1	49 286	1	TOTAL
50-SN-NAT	1		9.500+ 1	9.500+ 1	50 12	1	TOTAL
50-SN-NAT	1		3.790+ 2	1.731+ 3	71 3264	15	TOTAL
50-SN-NAT	1		1.400+ 3	1.400+ 3	55 2056	1	TOTAL
50-SN-NAT	1		5.000+ 3	5.000+ 3	61 1566	1	TOTAL
50-SN-NAT	1	9	3.430-10	3.080-9	55 2057	29	TOTAL
50-SN-NAT	2		2.200- 1	2.200- 1	60 596	1	ELASTIC
50-SN-NAT	2		3.000- 1	3.000- 1	63 1699	1	ELASTIC
50-SN-NAT	2		3.250- 1	1.450+ 0	66 885	62	ELASTIC
50-SN-NAT	2		5.000- 1	6.000- 1	64 870	2	ELASTIC
50-SN-NAT	2		6.500- 1	6.500- 1	63 1750	1	ELASTIC
50-SN-NAT	2		8.816- 1	8.816- 1	72 3545	1	ELASTIC
50-SN-NAT	2		1.000+ 0	1.000+ 0	54 103	1	ELASTIC
50-SN-NAT	2		6.040+ 0	6.040+ 0	65 889	1	ELASTIC
50-SN-NAT	2		1.450+ 1	1.450+ 1	58 403	1	ELASTIC
50-SN-NAT	3		1.000+ 0	4.500+ 0	55 122	3	NONELASTIC
50-SN-NAT	3		1.020+ 0	1.020+ 0	56 353	1	NONELASTIC
50-SN-NAT	3		1.770+ 0	7.000+ 0	56 151	4	NONELASTIC
50-SN-NAT	3		2.500+ 0	2.500+ 0	56 34	1	NONELASTIC
50-SN-NAT	3		2.500+ 0	1.400+ 1	55 790	4	NONELASTIC
50-SN-NAT	3		3.500+ 0	1.410+ 1	55 130	5	NONELASTIC
50-SN-NAT	3		4.100+ 0	4.100+ 0	55 296	1	NONELASTIC
50-SN-NAT	3		7.400+ 0	1.450+ 1	57 24	6	NONELASTIC
50-SN-NAT	3		8.200+ 0	1.850+ 1	59 540	5	NONELASTIC
50-SN-NAT	3		1.400+ 1	1.400+ 1	58 877	1	NONELASTIC
50-SN-NAT	3		1.410+ 1	1.410+ 1	55 117	1	NONELASTIC
50-SN-NAT	3		1.420+ 1	1.420+ 1	57 319	1	NONELASTIC
50-SN-NAT	3		1.450+ 1	1.450+ 1	56 200	1	NONELASTIC
50-SN-NAT	3		1.480+ 1	1.480+ 1	67 1656	1	NONELASTIC
50-SN-NAT	3		2.100+ 1	2.920+ 1	58 355	3	NONELASTIC
50-SN-NAT	3		3.790+ 2	1.731+ 3	71 3264	15	NONELASTIC
50-SN-NAT	3		1.400+ 3	1.400+ 3	55 2056	1	NONELASTIC
50-SN-NAT	5		5.000+ 2	2.250+ 0	60 571	31	TOTAL SCATTERING
50-SN-NAT	5		6.000+ 2	1.450+ 0	56 231	19	TOTAL SCATTERING
50-SN-NAT	5		9.600- 1	9.600- 1	63 879	1	TOTAL SCATTERING
50-SN-NAT	11		9.600- 1	9.600- 1	66 3863	1	N,N'
50-SN-NAT	11		6.040+ 0	6.040+ 0	65 489	1	N,N'
50-SN-NAT	12		1.410+ 1	1.410+ 1	58 1621	1	N,2N
50-SN-NAT	21		2.530- 8	2.530- 8	58 1162	1	ABSORPTION
50-SN-NAT	21		2.530- 8	2.530- 8	61 2569	1	ABSORPTION
50-SN-NAT	21		2.400- 2	2.400- 2	65 1364	1	ABSORPTION
50-SN-NAT	21		2.500- 2	8.300- 1	58 364	3	ABSORPTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-19B ***

ZA = 50000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 50000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
50-SN-NAT	23		3.000-2	3.000-2	63 799	1	N,GAMMA
50-SN-NAT	23		3.000-2	6.500-2	61 677	2	N,GAMMA
50-SN-NAT	23		3.000-2	6.500-2	63 1	1	N,GAMMA
50-SN-NAT	23		1.750-1	1.000+0	60 674	7	N,GAMMA
50-SN-NAT	23		2.000-1	2.000-1	58 363	1	N,GAMMA
50-SN-NAT	24	7	1.090+0	2.000+0	65 1023	17	N,X GAMMA
50-SN-NAT	24	7	3.200+0	3.200+0	54 113	3	N,X GAMMA
50-SN-NAT	26		1.400+1	1.400+1	61 361	1	N,P
50-SN-NAT	41		7.370-8	7.300-8	51 1584	1	BOUND ATOM
50-SN-NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
50-SN-NAT	48		1.400+1	1.400+1	58 877	1	ETA
50-SN-NAT	71		2.500-8	2.500-8	50 1623	1	ABSORPTION
50-SN-NAT	71		2.500-8	2.500-8	50 1794	1	ABSORPTION
50-SN-NAT	71		2.500-8	2.500-8	51 882	1	ABSORPTION
50-SN-NAT	73	7	2.530-8	2.530-8	70 2415	231	N,GAMMA
50-SN-NAT	73	10	2.530-8	2.530-8	70 2415	32	N,GAMMA
50-SN-NAT	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA
50-SN-NAT	102		2.200-1	2.200-1	60 596	5	ELASTIC
50-SN-NAT	102		3.000-1	3.000-1	63 1699	8	ELASTIC
50-SN-NAT	102		5.000-1	6.000-1	64 870	16	ELASTIC
50-SN-NAT	102		5.000-1	1.750+0	55 1495	4	ELASTIC
50-SN-NAT	102		6.500-1	6.500-1	63 1750	8	ELASTIC
50-SN-NAT	102		8.816-1	8.816-1	72 3546	8	ELASTIC
50-SN-NAT	102		9.000-1	9.000-1	57 411	5	ELASTIC
50-SN-NAT	102		9.800-1	9.800-1	63 879	8	ELASTIC
50-SN-NAT	102		1.000+0	1.000+0	54 103	18	ELASTIC
50-SN-NAT	102		2.500+0	7.000+0	56 151	28	ELASTIC
50-SN-NAT	102		2.800+0	2.800+0	58 1044	8	ELASTIC
50-SN-NAT	102		3.200+0	3.200+0	66 2950	13	ELASTIC
50-SN-NAT	102		3.650+0	3.650+0	71 3465	2	ELASTIC
50-SN-NAT	102		3.700+0	3.700+0	54 303	19	ELASTIC
50-SN-NAT	102		4.100+0	4.100+0	55 296	11	ELASTIC
50-SN-NAT	102		6.000+0	6.000+0	61 1049	14	ELASTIC
50-SN-NAT	102		6.040+0	6.040+0	65 889	14	ELASTIC
50-SN-NAT	102		7.550+0	7.550+0	73 3614	6	ELASTIC
50-SN-NAT	102		1.400+1	1.400+1	57 501	13	ELASTIC
50-SN-NAT	102		1.400+1	1.400+1	59 573	15	ELASTIC
50-SN-NAT	102		1.400+1	1.400+1	61 1253	3	ELASTIC
50-SN-NAT	102		1.400+1	1.400+1	65 97	9	ELASTIC
50-SN-NAT	102		1.410+1	1.450+1	98 403	43	ELASTIC
50-SN-NAT	102		1.450+1	1.450+1	59 556	42	ELASTIC
50-SN-NAT	102		1.460+1	1.460+1	57 561	17	ELASTIC
50-SN-NAT	102		1.480+1	1.480+1	57 367	19	ELASTIC
50-SN-NAT	102		1.480+1	1.480+1	73 3547	8	ELASTIC
50-SN-NAT	102		2.400+1	2.400+1	62 1746	29	ELASTIC
50-SN-NAT	102		2.840+1	2.840+1	61 233	1	ELASTIC
50-SN-NAT	102		3.515+2	3.515+2	58 1655	7	ELASTIC
50-SN-NAT	105		5.000-2	2.250+0	60 571	248	TOTAL SCATTERING
50-SN-NAT	105		6.000-2	1.440+0	56 231	90	TOTAL SCATTERING
50-SN-NAT	111		1.450+1	1.450+1	58 403	28	N,N'
50-SN-NAT	111	1	2.450+0	2.450+0	56 476	1	N,N'
50-SN-NAT	111	1	1.400+1	1.400+1	65 97	18	N,N'

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-199 ***

ZA = 50000

07/04/76

ECSIL-7600 REACTION IND.X (ZA ORDERED)

ZA = 50000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	50-SN-NAT 211		1.400+	1.400+	1 74 4081	50	N,N' ENERGY DISTRIBUTION
N	50-SN-NAT 304		1.455+	1.455+	1 74 4002	466	NEUTRON EMISSION
N	50-SN-NAT 311		1.400+	1.400+	1 74 4091	191	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N	50-SN-NAT 311 80		1.410+	1.410+	1 65 1908	39	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N	50-SN-NAT 324		8.700-	1.840+	1 73 3511	2643	N,N' GAMMA DIFF. ENERGY-ANGLE DISTRIBUTION
	50-SN-NAT 403		1.410+	1.410+	1 53 2028	1	NONELASTIC INTEGRAL E1-E2
	50-SN-NAT 406		1.420+	1.420+	1 58 905	1	NONELASTIC EMISSION INTEGRAL E1-E2
	50-SN-NAT 452		3.250-	1.450+ C	66 885	310	ELASTIC LEGENDRE EXPANSIONS OF ANGULAR DIST.
C	50-SN-NAT 521		4.900-	7 1.500+	1 57 1054	1	ABSORPTION RESONANCE INTEGRAL
C	50-SN-NAT 521		5.000-	7 1.500+	1 58 1162	1	ABSORPTION RESONANCE INTEGRAL
C	50-SN-NAT 521		5.000-	7 1.500+	1 60 897	1	ABSORPTION RESONANCE INTEGRAL
	50-SN-NAT 611		6.000+	0 6.040+ 0	62 1043	13	N,N' ANGULAR DIST.-INTEGRAL E1-E2
	50-SN-NAT 611		6.040+	0 6.040+ 0	65 889	11	N,N' ANGULAR DIST.-INTEGRAL E1-E2
	50-SN-NAT		6.000+	0 6.000+ 0	62 1043	1	NUCLEAR TEMPERATURE
	50-SN-NAT		1.400+	1 1.400+	65 985	3	NUCLEAR TEMPERATURE
	50-SN-NAT		1.410+	1 1.410+	65 1908	2	NUCLEAR TEMPERATURE
C	50-SN-NAT		3.000-	3 6.500-	64 1226	3	AVERAGE RESONANCE PARAMETERS
	50-SN-112 1		1.420+	1 1.420+	67 1869	1	TOTAL
	50-SN-112 12		1.180+	1 1.280+	60 590	2	N,2N
	50-SN-112 12		1.230+	1 1.780+	63 2182	15	N,2N
	50-SN-112 12		1.278+	1 1.942+	68 2891	10	N,2N
	50-SN-112 12		1.410+	1 1.410+	64 2184	1	N,2N
	50-SN-112 12		1.410+	1 1.410+	70 3340	1	N,2N
	50-SN-112 12		1.420+	1 1.420+	67 2009	1	N,2N
	50-SN-112 12		1.440+	1 1.440+	61 676	1	N,2N
	50-SN-112 12		1.440+	1 1.440+	68 2427	1	N,2N
	50-SN-112 12		1.440+	1 1.440+	69 2837	1	N,2N
	50-SN-112 12		1.440+	1 1.440+	70 3834	1	N,2N
N	50-SN-112 12		1.450+	1 1.460+	73 3988	1	N,2N
N	50-SN-112 12		1.206+	1 1.376+	60 588	13	N,2N
	50-SN-112 23 5		2.530-	8 2.530- 8	47 888	1	N,GAMMA
	50-SN-112 26		1.410+	1 1.410+	64 2184	1	N,P
	50-SN-112 26		1.410+	1 1.410+	64 2184	1	N,P
C	50-SN-112 26		1.440+	1 1.440+	68 2427	2	N,P
N	50-SN-112 26		1.440+	1 1.440+	70 3834	2	N,P
	50-SN-112 26		1.450+	1 1.450+	63 2183	1	N,P
	50-SN-112 28		1.410+	1 1.410+	70 3340	1	N,D
N	50-SN-112 36		1.440+	1 1.440+	70 3834	1	ACTIVATION
	50-SN-112 73 3		2.500-	8 2.500- 8	61 2739	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-112 73 5		2.500-	8 2.500- 8	50 2740	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-112 73 5		2.500-	8 2.500- 8	61 2739	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-112 73 7		2.500-	8 2.500- 8	68 1862	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
C	50-SN-112		0.000+	0 3.000- 4	55 862	1	AVERAGE RESONANCE PARAMETERS
C	50-SN-112		0.000+	0 1.000- 3	63 934	2	AVERAGE RESONANCE PARAMETERS
	50-SN-112		2.102-	5 1.416- 3	63 934	25	RESONANCE PARAMETERS
	50-SN-112		9.500-	5 9.500- 5	69 1876	4	RESONANCE PARAMETERS
	50-SN-112		9.650-	5 2.800- 4	55 862	2	RESONANCE PARAMETERS
	50-SN-114 12		1.410+	1 1.410+	70 3340	1	N,2N
	50-SN-114 12		1.440+	1 1.440+	68 2427	1	N,2N
C	50-SN-114		0.000+	0 3.000- 4	55 862	1	AVERAGE RESONANCE PARAMETERS
C	50-SN-114		0.000+	0 1.000- 3	63 934	2	AVERAGE RESONANCE PARAMETERS
	50-SN-114		2.775-	4 1.980- 3	63 934	12	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-200 ***

ZA = 50114

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 50114

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
50-SN-114			2.800- 4	2.800- 4	55 862	2	RESONANCE PARAMETERS
50-SN-115	26	4	1.440+ 1	1.440+ 1	68 2427	1	N,P
50-SN-115			0.000+ 0	5.000- 4	63 934	2	AVERAGE RESONANCE PARAMETERS
50-SN-115			2.900- 4	2.900- 4	55 862	1	RESONANCE PARAMETERS
50-SN-115			2.920- 4	6.660- 4	63 934	8	RESONANCE PARAMETERS
50-SN-116	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
50-SN-116	11	1	1.303+ 0	1.725+ 0	73 4059	22	N,N'
50-SN-116	23		9.300- 3	5.170- 2	64 426	17	N,GAMMA
50-SN-116	23		3.000- 2	3.000- 2	66 938	1	N,GAMMA
50-SN-116	26		1.420+ 1	1.420+ 1	63 2185	1	N,P
50-SN-116	26		1.420+ 1	1.420+ 1	63 2185	1	N,P
50-SN-116	26		1.490+ 1	1.490+ 1	65 2186	1	N,P
50-SN-116	26		1.420+ 1	1.420+ 1	63 2185	1	N,P
50-SN-116	26		1.440+ 1	1.440+ 1	68 2427	1	N,P
50-SN-116	26		1.440+ 1	1.440+ 1	70 3433	1	N,P
50-SN-116	26		1.450+ 1	1.450+ 1	63 2183	1	N,P
50-SN-116	26		1.490+ 1	1.490+ 1	65 2186	1	N,P
50-SN-116			0.000+ 0	3.000- 4	55 362	1	AVERAGE RESONANCE PARAMETERS
50-SN-116			0.000+ 0	1.000- 3	63 934	2	AVERAGE RESONANCE PARAMETERS
50-SN-116			0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
50-SN-116			1.100- 4	1.810- 3	66 2187	3	AVERAGE RESONANCE PARAMETERS
50-SN-116			1.000- 3	1.000- 1	68 2090	3	AVERAGE RESONANCE PARAMETERS
50-SN-116			1.112- 4	3.400- 3	63 934	20	RESONANCE PARAMETERS
50-SN-116			1.113- 4	1.480- 4	69 1878	6	RESONANCE PARAMETERS
50-SN-116			1.120- 4	1.490- 4	55 862	4	RESONANCE PARAMETERS
50-SN-116			1.557- 3	4.640- 3	66 2187	10	RESONANCE PARAMETERS
50-SN-117	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
50-SN-117	11	5	1.300+ 1	1.590+ 1	75 3818	7	N,N'
50-SN-117	14	2	1.390+ 1	1.660+ 1	72 3854	6	N,N'
50-SN-117	23		8.700- 3	5.150- 2	64 426	18	N,GAMMA
50-SN-117	23		3.000- 2	3.000- 2	62 938	1	N,GAMMA
50-SN-117	26		1.410+ 1	1.410+ 1	64 2184	1	N,P
50-SN-117	26		1.420+ 1	1.420+ 1	63 2185	1	N,P
50-SN-117	26	3	1.300+ 1	1.730+ 1	75 3818	9	N,P
50-SN-117	26	3	1.440+ 1	1.440+ 1	68 2427	1	N,P
50-SN-117	26	3	1.440+ 1	1.440+ 1	70 3433	1	N,P
50-SN-117	26	3	1.480+ 1	1.480+ 1	72 3868	1	N,P
50-SN-117	26	3	1.490+ 1	1.490+ 1	65 2186	2	N,P
50-SN-117	26	4	1.420+ 1	1.420+ 1	63 2185	2	N,P
50-SN-117	26	4	1.440+ 1	1.440+ 1	68 2427	1	N,P
50-SN-117	26	4	1.440+ 1	1.440+ 1	70 3433	1	N,P
50-SN-117	26	4	1.480+ 1	1.480+ 1	72 3868	1	N,P
50-SN-117	45		0.000+ 0	0.000+ 0	68 2381	1	POTENTIAL SCATTERING
50-SN-117	876	3	1.300+ 1	1.650+ 1	75 3818	6	N,P
50-SN-117			0.000+ 0	3.000- 4	55 862	1	AVERAGE RESONANCE PARAMETERS
50-SN-117			0.000+ 0	5.000- 4	63 934	2	AVERAGE RESONANCE PARAMETERS
50-SN-117			0.000+ 0	1.000- 3	69 2381	1	AVERAGE RESONANCE PARAMETERS
50-SN-117			0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
50-SN-117			0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
50-SN-117			1.000- 3	1.000- 1	68 2090	3	AVERAGE RESONANCE PARAMETERS
50-SN-117			1.320- 6	1.383- 3	63 934	49	RESONANCE PARAMETERS
50-SN-117			1.320- 6	2.978- 3	69 2381	74	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-201 ***

ZA = 50117

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 50117

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
50-SN-117			3.880-5	3.880-5	68 2344	1	RESONANCE PARAMETERS
50-SN-117			3.890-5	1.970-4	69 1878	14	RESONANCE PARAMETERS
50-SN-117			3.940-5	4.600-4	55 862	16	RESONANCE PARAMETERS
50-SN-118	1		4.000-0	4.000-0	67 1643	1	TOTAL
50-SN-118	1		1.420-1	1.420-1	67 1869	1	TOTAL
50-SN-118	2		4.000-0	4.000-0	64 1643	1	ELASTIC
N 50-SN-118	11	1	1.234-0	1.725-0	73 4059	28	N,N'
N 50-SN-118	12	5	1.300-1	1.730-1	75 3810	9	N,2N
50-SN-118	12	5	1.440-1	1.440-1	68 2427	1	N,2N
50-SN-118	14	3	1.490-1	1.490-1	65 2186	2	N,N'P
50-SN-118	23		8.700-3	5.850-2	64 426	19	N,GAMMA
50-SN-118	23		3.000-2	3.000-2	62 938	1	N,GAMMA
50-SN-118	26	2	1.490-1	1.490-1	65 2186	1	N,P
50-SN-118	26	3	1.440-1	1.440-1	68 2427	1	N,P
50-SN-118	26	3	1.450-1	1.450-1	63 2183	1	N,P
50-SN-118	26	3	1.490-1	1.490-1	65 2186	1	N,P
50-SN-118	34	4	1.207-1	1.976-1	60 588	14	N,ALPHA
50-SN-118	34	5	1.480-1	1.480-1	69 4083	2	N,ALPHA
50-SN-118	102		4.000-0	4.000-0	64 1643	17	ELASTIC
50-SN-118	876	4	1.500-1	2.500-1	59 3349	3	N,P
N 50-SN-118	864	5	1.485-1	1.480-1	72 3525	1	N,ALPHA
50-SN-118			0.000-0	3.000-4	55 862	1	AVERAGE RESONANCE PARAMETERS
50-SN-118			0.000-0	1.000-3	63 934	2	AVERAGE RESONANCE PARAMETERS
50-SN-118			4.000-4	5.100-3	66 2187	3	AVERAGE RESONANCE PARAMETERS
50-SN-118			1.000-3	1.000-1	68 2090	3	AVERAGE RESONANCE PARAMETERS
50-SN-118			4.575-5	3.450-3	63 934	23	RESONANCE PARAMETERS
50-SN-118			4.580-5	4.580-5	68 2344	1	RESONANCE PARAMETERS
50-SN-118			4.580-5	7.400-3	65 2608	7	RESONANCE PARAMETERS
N 50-SN-118			4.580-5	4.580-5	69 1878	5	RESONANCE PARAMETERS
50-SN-118			4.630-5	3.680-4	55 862	4	RESONANCE PARAMETERS
50-SN-118			3.600-4	4.725-3	66 2187	14	RESONANCE PARAMETERS
50-SN-119	1		1.420-1	1.420-1	67 1869	1	TOTAL
50-SN-119	23		8.700-3	5.190-2	64 426	18	N,GAMMA
50-SN-119	23		3.000-2	3.000-2	62 938	1	N,GAMMA
50-SN-119	26	3	1.440-1	1.440-1	68 2427	2	N,P
50-SN-119	26	3	1.450-1	1.450-1	63 2183	1	N,P
50-SN-119	26	3	1.490-1	1.490-1	65 2186	2	N,P
50-SN-119	27	3	1.450-1	1.450-1	63 2183	1	N,X P
50-SN-119			0.000-0	3.000-4	55 862	1	AVERAGE RESONANCE PARAMETERS
50-SN-119			0.000-0	5.000-4	63 934	2	AVERAGE RESONANCE PARAMETERS
50-SN-119			0.000-0	5.000-2	66 1094	1	AVERAGE RESONANCE PARAMETERS
50-SN-119			1.000-3	1.000-1	68 2090	2	AVERAGE RESONANCE PARAMETERS
50-SN-119			6.220-6	9.480-4	63 934	27	RESONANCE PARAMETERS
50-SN-119			1.410-4	1.410-4	69 1878	2	RESONANCE PARAMETERS
50-SN-119			1.410-4	4.600-4	55 862	6	RESONANCE PARAMETERS
50-SN-120	1		1.420-1	1.420-1	67 1869	1	TOTAL
50-SN-120	11	1	1.184-0	1.725-0	73 4059	31	N,N'
50-SN-120	12		1.440-1	1.440-1	68 2427	1	N,2N
50-SN-120	23		9.300-3	5.150-2	64 426	17	N,GAMMA
50-SN-120	23		3.000-2	3.000-2	62 938	1	N,GAMMA
N 50-SN-120	23	4	2.400-2	2.400-2	68 2856	1	N,GAMMA
50-SN-120	26	2	1.450-1	1.450-1	63 2183	1	N,P

ANGULAR DISTRIBUTION
CROSS SECTION RATIO
CROSS SECTION RATIO

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-202 ***

ZA = 50120

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 50120

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	50-SN-120	26	2	1.480+ 1	1.480+ 1	60 2188	2 N.P.
	50-SN-120	102		1.520+ 0	3.600+ 0	72 3765	65 ELASTIC ANGULAR DISTRIBUTION
	50-SN-120	102	80	0.000- 2	0.000- 2	55 1258	4 ELASTIC ANGULAR DISTRIBUTION
N	50-SN-120	111	1	2.050+ 0	3.600+ 0	72 3765	104 N.N' ANGULAR DISTRIBUTION
C	50-SN-120			0.000+ 0	3.000+ 4	55 852	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-120			0.000+ 0	1.000+ 3	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-120			0.000+ 0	4.300+ 3	69 2435	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-120			3.600+ 4	3.860+ 3	66 2187	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-120			1.000+ 3	1.000+ 1	68 2090	3 AVERAGE RESONANCE PARAMETERS
	50-SN-120			6.732- 5	9.587- 3	69 2435	39 RESONANCE PARAMETERS
	50-SN-120			3.648- 4	1.714- 3	63 934	15 RESONANCE PARAMETERS
	50-SN-120			4.250- 4	4.250+ 4	55 852	2 RESONANCE PARAMETERS
	50-SN-120			4.260- 4	1.726- 3	65 2608	9 RESONANCE PARAMETERS
	50-SN-120			4.269- 4	4.269+ 4	68 2344	1 RESONANCE PARAMETERS
	50-SN-120			1.718- 3	1.267- 2	66 2187	18 RESONANCE PARAMETERS
	50-SN-122	1		1.420+ 1	1.420+ 1	67 1869	1 TOTAL
N	50-SN-122	11	1	1.144+ 0	1.725+ 0	73 4059	33 N.N'
	50-SN-122	12	6	1.440+ 1	1.440+ 1	68 2427	1 N.2N
	50-SN-122	23		3.000- 2	3.000- 2	62 938	1 N.GAMMA
N	50-SN-122	23	3	2.400- 2	2.400- 2	68 2856	1 N.GAMMA
N	50-SN-122	23	3	2.000+ 1	3.128+ 0	69 4031	22 N.GAMMA
	50-SN-122	23	3	2.500+ 0	4.000+ 0	58 1044	3 N.GAMMA
	50-SN-122	73	3	2.500- 8	2.500- 8	50 2740	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-122	73	3	2.500- 8	2.500- 8	53 2719	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-122	73	3	2.500- 8	2.500- 8	63 1961	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-122	73	3	2.500- 8	2.500- 8	68 1962	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-122	873	3	2.000- 1	1.860+ 0	69 4031	17 N.GAMMA CROSS SECTION RATIO
N	50-SN-122			0.000+ 0	1.000+ 3	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-122			0.000+ 0	5.000+ 2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-122			1.000+ 4	6.880+ 3	66 2187	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-122			1.000+ 3	1.000+ 1	68 2090	3 AVERAGE RESONANCE PARAMETERS
	50-SN-122			1.069+ 4	6.850+ 3	63 934	12 RESONANCE PARAMETERS
	50-SN-122			1.760+ 3	6.880+ 3	66 2187	6 RESONANCE PARAMETERS
	50-SN-124	1		1.420+ 1	1.420+ 1	67 1869	1 TOTAL
N	50-SN-124	11	1	1.144+ 0	1.725+ 0	73 4059	34 N.N'
	50-SN-124	12	3	1.410+ 1	1.410+ 1	64 2184	1 N.2N
N	50-SN-124	12	3	1.410+ 1	1.410+ 1	70 3340	1 N.2N
	50-SN-124	12	5	1.440+ 1	1.440+ 1	68 2427	1 N.2N
N	50-SN-124	23		2.500- 2	2.500- 2	70 3969	2 N.GAMMA
	50-SN-124	23		3.000- 2	3.000- 2	62 938	1 N.GAMMA
N	50-SN-124	23	3	0.000+ 3	2.130+ 0	69 4031	24 N.GAMMA
	50-SN-124	23	3	2.400- 2	2.400- 2	68 2856	1 N.GAMMA
	50-SN-124	23	5	0.000+ 3	3.380+ 1	69 2944	8 N.GAMMA
	50-SN-124	73	3	2.500- 8	2.500- 8	49 2741	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-124	73	3	2.500- 8	2.500- 8	50 2740	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-124	73	3	2.500- 8	2.500- 8	53 2719	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-124	73	3	2.500- 8	2.500- 8	63 1961	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-124	73	3	2.500- 8	2.500- 8	68 1962	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
N	50-SN-124	523	80	5.000+ 7	1.500+ 1	72 3873	1 N.GAMMA RESONANCE INTEGRAL
N	50-SN-124	873		0.000+ 3	1.925+ 0	69 4031	20 N.GAMMA CROSS SECTION RATIO
N	50-SN-124	873		2.500+ 2	2.500+ 2	70 3969	1 N.GAMMA CROSS SECTION RATIO
C	50-SN-124			0.000+ 0	3.000+ 4	55 852	1 AVERAGE RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-203 ***

ZA = 50124

07/04/76

EL51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 50124

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	50-SN-124		0.000+ 0	1.000- 3	63 934	2	AVERAGE RESONANCE PARAMETERS
C	50-SN-124		0.000+ 0	5.000- 2	86 1894	1	AVERAGE RESONANCE PARAMETERS
C	50-SN-124		6.000- 5	2.380- 3	86 2187	3	AVERAGE RESONANCE PARAMETERS
	50-SN-124		6.195- 5	6.195- 5	68 2344	1	RESONANCE PARAMETERS
	50-SN-124		5.195- 5	9.680- 3	63 934	10	RESONANCE PARAMETERS
	50-SN-124		6.200- 5	6.200- 5	65 2608	1	RESONANCE PARAMETERS
	50-SN-124		6.200- 5	6.200- 5	65 2609	1	RESONANCE PARAMETERS
	50-SN-124		6.200- 5	6.200- 5	69 1878	5	RESONANCE PARAMETERS
	50-SN-124		6.250- 5	6.250- 5	55 862	2	RESONANCE PARAMETERS
	50-SN-124		2.380- 3	9.960- 1	66 2187	6	RESONANCE PARAMETERS
	51-SB-NAT	1	2.470- 9	2.282- 7	68 2395	114	TOTAL
	51-SB-NAT	1	2.722- 9	9.468- 5	62 2198	23	TOTAL
	51-SB-NAT	1	1.477- 8	2.094- 5	46 951	57	TOTAL
	51-SB-NAT	1	5.010- 8	3.096- 6	70 3280	32	TOTAL
	51-SB-NAT	1	2.150- 6	9.103- 3	58 136	254	TOTAL
	51-SB-NAT	1	2.300- 6	5.800- 4	47 261	30	TOTAL
	51-SB-NAT	1	5.500- 6	3.090- 5	55 981	62	TOTAL
	51-SB-NAT	1	8.171- 5	1.368- 3	65 814	5803	TOTAL
	51-SB-NAT	1	3.000- 4	3.000- 4	49 844	1	TOTAL
	51-SB-NAT	1	2.000- 2	1.371+ 0	49 50	31	TOTAL
	51-SB-NAT	1	3.000- 2	6.500- 1	65 921	102	TOTAL
	51-SB-NAT	1	1.000+ 0	3.210+ 0	52 80	17	TOTAL
	51-SB-NAT	1	2.271+ 0	1.475+ 1	67 750	242	TOTAL
	51-SB-NAT	1	2.800+ 0	1.320+ 1	54 504	20	TOTAL
	51-SB-NAT	1	3.660+ 0	3.660+ 0	61 637	1	TOTAL
	51-SB-NAT	1	4.100+ 0	4.100+ 0	60 576	1	TOTAL
	51-SB-NAT	1	4.531+ 0	7.564+ 0	67 1747	61	TOTAL
	51-SB-NAT	1	7.010+ 0	1.437+ 1	57 22	5	TOTAL
	51-SB-NAT	1	1.400+ 1	1.400+ 1	52 81	1	TOTAL
	51-SB-NAT	1	1.400+ 1	1.400+ 1	52 207	1	TOTAL
	51-SB-NAT	1	1.750+ 1	2.080+ 1	60 673	4	TOTAL
	51-SB-NAT	1	3.480+ 1	1.940+ 2	53 310	30	TOTAL
	51-SB-NAT	2	3.000- 1	8.000- 1	64 1255	3	ELASTIC
	51-SB-NAT	2	3.250- 1	1.450+ 0	66 885	51	ELASTIC
N	51-SB-NAT	2	8.700- 1	8.700- 1	72 3546	1	ELASTIC
	51-SB-NAT	2	1.000+ 0	1.000+ 0	54 103	1	ELASTIC
	51-SB-NAT	2	2.000+ 0	2.000+ 0	65 1509	1	ELASTIC
	51-SB-NAT	2	4.100+ 0	4.100+ 0	60 576	1	ELASTIC
N	51-SB-NAT	2	8.050+ 0	8.050+ 0	69 3660	1	ELASTIC
	51-SB-NAT	3	7.700- 1	1.020+ 0	56 353	2	NONELASTIC
N	51-SB-NAT	3	9.600- 1	9.600- 1	66 3863	1	NONELASTIC
	51-SB-NAT	3	1.000+ 0	1.000+ 0	54 103	1	NONELASTIC
	51-SB-NAT	3	2.500+ 0	2.500+ 0	56 34	1	NONELASTIC
	51-SB-NAT	3	2.500+ 0	1.400+ 1	55 790	4	NONELASTIC
	51-SB-NAT	3	4.100+ 0	4.100+ 0	60 576	1	NONELASTIC
	51-SB-NAT	3	1.400+ 1	1.400+ 1	58 877	1	NONELASTIC
	51-SB-NAT	3	1.410+ 1	1.410+ 1	57 199	1	NONELASTIC
	51-SB-NAT	3	1.420+ 1	1.420+ 1	57 319	1	NONELASTIC
	51-SB-NAT	3	1.450+ 1	1.450+ 1	56 200	1	NONELASTIC
	51-SB-NAT	11	4.000- 1	1.000+ 0	63 773	4	N,N'
	51-SB-NAT	11	4.000- 1	1.200+ 0	63 828	5	N,N'
	51-SB-NAT	11	4.000+ 0	7.000+ 0	63 836	2	N,N'

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-204 ***

ZA = 51000

07/04/75

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 51000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	51-SB-NAT	11	1	4.000-1	1.000+0	63 773	4 N,N'
	51-SB-NAT	11	1	4.000-1	1.200+0	63 826	9 N,N'
N	51-SB-NAT	11	1	9.600-1	9.600-1	66 3663	1 N,N'
	51-SB-NAT	11	7	1.050+0	2.500+0	61 717	28 N,N'
	51-SB-NAT	11	8	5.000-1	1.500+0	66 885	34 N,N'
N	51-SB-NAT	11	8	9.600-1	9.600-1	66 3663	1 N,N'
	51-SB-NAT	12		1.410+1	1.410+1	58 1821	1 N,2N
	51-SB-NAT	21		2.400-2	2.400-2	65 1364	1 ABSORPTION
	51-SB-NAT	21		2.500-2	8.300-1	59 354	3 ABSORPTION
	51-SB-NAT	23		1.250-6	3.400-2	62 2067	101 N,GAMMA
	51-SB-NAT	23		2.100-4	8.500-3	61 718	36 N,GAMMA
	51-SB-NAT	23		7.600-3	1.800-1	61 677	48 N,GAMMA
	51-SB-NAT	23		1.100-2	7.300-2	68 3301	12 N,GAMMA
	51-SB-NAT	23		2.400-2	2.400-2	63 639	1 N,GAMMA
	51-SB-NAT	23		3.000-2	6.500-2	83 1	2 N,GAMMA
	51-SB-NAT	23		1.750-1	1.000+0	60 874	7 N,GAMMA
	51-SB-NAT	23		2.000-1	2.000-1	59 363	1 N,GAMMA
N	51-SB-NAT	23		2.000-1	2.723+0	69 4031	18 N,GAMMA
	51-SB-NAT	23		4.000-1	4.000-1	56 9	1 N,GAMMA
N	51-SB-NAT	23		4.000-1	4.000-1	71 3921	2 N,GAMMA
	51-SB-NAT	24	7	2.200-1	1.240+0	69 3386	27 N,X GAMMA
	51-SB-NAT	26		1.400+1	1.400+1	61 361	1 N,P
	51-SB-NAT	41		7.300-8	7.300-8	51 1584	1 BOUND ATOM
	51-SB-NAT	43		2.530-8	2.530-8	51 2584	1 COHERENT SCATTERING
	51-SB-NAT	43		7.300-8	7.300-8	51 1584	1 COHERENT SCATTERING
	51-SB-NAT	48		1.400+1	1.400+1	58 877	1 ETA
	51-SB-NAT	71		2.500-8	2.500-8	50 1623	1 ABSORPTION
	51-SB-NAT	71		2.500-8	2.500-8	50 1794	1 ABSORPTION
	51-SB-NAT	71		2.500-8	2.500-8	51 882	1 ABSORPTION
	51-SB-NAT	73	5	2.500-8	2.500-8	68 2764	1 N,GAMMA
	51-SB-NAT	73	7	2.530-8	2.530-8	70 2415	82 N,GAMMA
	51-SB-NAT	73	10	2.530-8	2.530-8	70 2415	25 N,GAMMA
	51-SB-NAT	74		2.530-8	2.530-8	70 2415	1 N,X GAMMA
	51-SB-NAT	102		3.000-1	6.000-1	64 1255	24 ELASTIC
	51-SB-NAT	102		5.000-1	1.550+0	55 1495	3 ELASTIC
N	51-SB-NAT	102		8.700-1	8.700-1	72 3546	8 ELASTIC
	51-SB-NAT	102		1.000+0	1.000+0	54 103	9 ELASTIC
	51-SB-NAT	102		2.800+0	2.800+0	38 1044	7 ELASTIC
	51-SB-NAT	102		3.200+0	3.200+0	86 2950	13 ELASTIC
	51-SB-NAT	102		4.100+0	4.100+0	80 576	15 ELASTIC
	51-SB-NAT	102		5.000+0	5.000+0	65 1254	13 ELASTIC
	51-SB-NAT	102		7.000+0	7.000+0	63 836	19 ELASTIC
N	51-SB-NAT	102		8.050+0	8.050+0	69 3660	1 ELASTIC
	51-SB-NAT	102		1.400+1	1.400+1	57 501	13 ELASTIC
	51-SB-NAT	102		1.400+1	1.400+1	59 573	28 ELASTIC
	51-SB-NAT	102		1.400+1	1.400+1	65 97	9 ELASTIC
	51-SB-NAT	111	1	1.400+1	1.400+1	65 97	17 N,N'
	51-SB-NAT	124	7	3.700+0	3.700+0	56 473	1 N,X GAMMA
	51-SB-NAT	126		1.410+1	1.410+1	59 554	1 N,P
N	51-SB-NAT	304		1.469+1	1.490+1	74 4022	554 NEUTRON EMISSION
N	51-SB-NAT	311	80	1.410+1	1.410+1	65 1932	53 N,N'
	51-SB-NAT	406		1.420+1	1.420+1	58 905	1 NONELASTIC EMISSION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-205 ***

ZA = 51000

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 51000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
C	51-SB-NAT	452	3.250-	1.450+ 0	66 895	255	ELASTIC	LEGENDRE EXPANSIONS OF ANGULAR DIST.
	51-SB-NAT	521	4.900-	1.500+ 1	57 1054	1	ABSORPTION	RESONANCE INTEGRAL
	51-SB-NAT	606	1.480+ 1	1.480+ 1	66 1042	15	NONELASTIC EMISSION	ANGULAR DIST.-INTEGRAL E1-E2
N	51-SB-NAT	873	4.000-	1.400+ 1	71 3821	1	N.GAMMA	CROSS SECTION RATIO
	51-SB-NAT		1.410+ 1	1.410+ 1	66 1932	1	NUCLEAR TEMPERATURE	
	51-SB-NAT		1.480+ 1	1.480+ 1	67 2897	2	NUCLEAR TEMPERATURE	
C	51-SB-NAT		0.000+ 0	1.200- 3	68 814	5	AVERAGE RESONANCE PARAMETERS	
N	51-SB-NAT		0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS	
C	51-SB-NAT		3.000- 3	6.500- 1	64 1226	3	AVERAGE RESONANCE PARAMETERS	
C	51-SB-NAT		8.000- 3	3.000- 2	68 3301	1	AVERAGE RESONANCE PARAMETERS	
C	51-SB-NAT		3.000- 2	6.500- 1	68 1992	2	AVERAGE RESONANCE PARAMETERS	
	51-SB-NAT		6.300- 6	1.920- 5	46 961	2	RESONANCE PARAMETERS	
	51-SB-NAT		1.541- 5	2.996- 3	68 814	325	RESONANCE PARAMETERS	
	51-SB-121	1	1.420+ 1	1.420+ 1	67 1869	1	TOTAL	
	51-SB-121	12	1.278+ 1	1.942+ 1	68 2891	10	N.2N	
N	51-SB-121	12	1.320+ 1	1.516+ 1	68 3745	6	N.2N	
	51-SB-121	12	1.320+ 1	1.534+ 1	60 1720	8	N.2N	
	51-SB-121	12	1.410+ 1	1.410+ 1	63 373	1	N.2N	
	51-SB-121	12	1.480+ 1	1.480+ 1	61 703	1	N.2N	
	51-SB-121	12 3	1.275+ 1	1.948+ 1	63 2063	13	N.2N	
	51-SB-121	12 3	1.220+ 1	1.820+ 1	62 770	8	N.2N	
	51-SB-121	12 3	1.278+ 1	1.942+ 1	68 2891	10	N.2N	
N	51-SB-121	12 3	1.320+ 1	1.516+ 1	68 3745	6	N.2N	
	51-SB-121	12 3	1.400+ 1	1.400+ 1	59 619	1	N.2N	
	51-SB-121	12 3	1.440+ 1	1.440+ 1	61 676	1	N.2N	
	51-SB-121	12 3	1.450+ 1	1.450+ 1	53 27	1	N.2N	
N	51-SB-121	12 3	1.460+ 1	1.460+ 1	73 3988	1	N.2N	
	51-SB-121	12 5	1.278+ 1	1.942+ 1	68 2891	10	N.2N	
N	51-SB-121	12 5	1.320+ 1	1.516+ 1	68 3745	6	N.2N	
	51-SB-121	12 65	1.197+ 1	1.976+ 1	60 588	15	N.2N	
	51-SB-121	23	2.530- 8	2.530- 8	64 2632	1	N.GAMMA	
	51-SB-121	23	1.100- 2	3.940+ 1	69 2994	7	N.GAMMA	
N	51-SB-121	23	2.500- 2	2.500- 2	70 3569	2	N.GAMMA	
	51-SB-121	23	3.000+ 0	3.000+ 0	67 1991	1	N.GAMMA	
	51-SB-121	23 5	7.800- 3	6.400- 2	66 3019	3	N.GAMMA	
N	51-SB-121	23 5	1.100- 2	3.130+ 0	69 4031	28	N.GAMMA	
	51-SB-121	23 5	2.100- 2	2.100- 2	57 23	1	N.GAMMA	
	51-SB-121	23 5	2.400- 2	2.400- 2	57 305	1	N.GAMMA	
N	51-SB-121	23 5	2.400- 2	2.400- 2	68 2056	1	N.GAMMA	
	51-SB-121	23 5	1.950- 1	1.950- 1	59 526	1	N.GAMMA	
N	51-SB-121	23 11	2.500- 2	2.500- 2	72 3965	2	N.GAMMA	
	51-SB-121	73	2.500- 8	2.500- 8	52 342	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
	51-SB-121	73	2.500- 8	2.500- 8	59 2655	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
	51-SB-121	73 3	2.500- 8	2.500- 8	62 2668	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
	51-SB-121	73 5	2.500- 8	2.500- 8	49 2742	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
	51-SB-121	73 5	2.500- 8	2.500- 8	60 909	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
	51-SB-121	73 5	2.500- 8	2.500- 8	62 2668	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
	51-SB-121	124 7	1.000+ 0	1.000+ 0	68 1019	2	N.X GAMMA	ANGULAR DISTRIBUTION
N	51-SB-121	224 80	6.250- 6	1.550- 5	65 3741	11	N.X GAMMA	ENERGY DISTRIBUTION
N	51-SB-121	523	5.000- 7	1.500+ 1	69 3680	1	N.GAMMA	RESONANCE INTEGRAL
N	51-SB-121	523 80	5.000- 7	1.500+ 1	72 3873	1	N.GAMMA	RESONANCE INTEGRAL
N	51-SB-121	862	1.320+ 1	1.516+ 1	68 3745	10	N.2N	CROSS SECTION RATIO

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-205 ***

ZA = 51121

07/04/75

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 51121

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	51-SB-121	873	2.500-2	2.500-2	70 3969	1	N,GAMMA CROSS SECTION RATIO
N	51-SB-121	873	2.500-2	2.500-2	72 3965	1	N,GAMMA CROSS SECTION RATIO
N	51-SB-121	873	2.500-8	2.500-8	64 2632	1	N,GAMMA CROSS SECTION RATIO
C	51-SB-121		0.000+0	1.500-4	70 3073	2	AVERAGE RESONANCE PARAMETERS
N	51-SB-121		0.000+0	7.000	69 3044	3	AVERAGE RESONANCE PARAMETERS
N	51-SB-121		0.000+0	2.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	51-SB-121		6.240-6	1.670-4	61 960	1	AVERAGE RESONANCE PARAMETERS
N	51-SB-121		6.230-6	2.970-5	63 2439	6	RESONANCE PARAMETERS
N	51-SB-121		6.233-6	1.671-4	68 2893	20	RESONANCE PARAMETERS
N	51-SB-121		6.240-6	6.240-6	70 3074	3	RESONANCE PARAMETERS
N	51-SB-121		6.240-6	1.550-5	67 2199	2	RESONANCE PARAMETERS
N	51-SB-121		6.240-6	2.970-5	57 1967	8	RESONANCE PARAMETERS
N	51-SB-121		6.240-6	1.670-4	61 960	12	RESONANCE PARAMETERS
N	51-SB-121		6.240-6	2.533-3	69 3044	130	RESONANCE PARAMETERS
N	51-SB-121		6.240-6	4.210-4	71 3135	28	RESONANCE PARAMETERS
N	51-SB-121		6.240-6	2.970-5	67 3280	6	RESONANCE PARAMETERS
N	51-SB-121		6.240-6	2.970-5	70 3580	3	RESONANCE PARAMETERS
N	51-SB-121		6.250-6	1.280-4	56 138	10	RESONANCE PARAMETERS
N	51-SB-121		1.541-5	6.308-4	68 814	62	RESONANCE PARAMETERS
N	51-SB-121		2.970-5	1.268-4	70 3077	5	RESONANCE PARAMETERS
N	51-SB-121		6.510-5	1.495-4	70 3073	8	RESONANCE PARAMETERS
N	51-SB-122	41	2.500-2	2.500-2	70 3969	1	BOUND ATOM
N	51-SB-123	1	1.420+1	1.420+1	67 1869	1	TOTAL
N	51-SB-123	12	9.100+0	1.976+1	60 598	16	N,2N
N	51-SB-123	12	1.278+1	1.956+1	68 2891	10	N,2N
N	51-SB-123	12	1.440+1	1.440+1	69 2837	1	N,2N
N	51-SB-123	12	1.450+1	1.450+1	70 2987	1	N,2N
N	51-SB-123	12	1.480+1	1.480+1	63 884	1	N,2N
N	51-SB-123	12	1.460+1	1.460+1	73 3888	1	N,2N
N	51-SB-123	12	1.400+1	1.400+1	59 619	1	N,2N
N	51-SB-123	12	1.450+1	1.450+1	53 27	1	N,2N
N	51-SB-123	12	1.480+1	1.480+1	61 703	1	N,2N
N	51-SB-123	23	2.400-2	2.400-2	57 305	1	N,GAMMA
N	51-SB-123	23	1.470+1	1.470+1	67 1695	1	N,GAMMA
N	51-SB-123	23	2.400-2	2.400-2	68 2856	3	N,GAMMA
N	51-SB-123	23	7.800-3	6.400-2	66 3019	3	N,GAMMA
N	51-SB-123	23	2.100-2	2.100-2	57 23	1	N,GAMMA
N	51-SB-123	23	1.950-1	1.950-1	59 526	1	N,GAMMA
N	51-SB-123	23	2.000-1	2.723+0	69 4031	18	N,GAMMA
N	51-SB-123	73	2.500-8	2.500-8	52 342	1	N,GAMMA
N	51-SB-123	73	2.500-8	2.500-8	62 2669	1	N,GAMMA
N	51-SB-123	73	2.500-8	2.500-8	47 2670	1	N,GAMMA
N	51-SB-123	73	2.500-8	2.500-8	62 2669	1	N,GAMMA
N	51-SB-123	73	2.500-8	2.500-8	67 2200	1	N,GAMMA
N	51-SB-123	73	2.500-8	2.500-8	68 1964	1	N,GAMMA
N	51-SB-123	73	2.500-8	2.500-8	68 2764	1	N,GAMMA
N	51-SB-123	124	7 1.000+0	1.000+0	68 1019	2	N,X GAMMA ANGULAR DISTRIBUTION
N	51-SB-123	224	80 2.160-5	2.160-5	65 3741	6	N,X GAMMA ENERGY DISTRIBUTION
C	51-SB-123	523	5 5.000-7	1.900+1	68 1964	1	N,GAMMA RESONANCE INTEGRAL
N	51-SB-123	523	80 6.000-7	1.900+1	72 3870	1	N,GAMMA RESONANCE INTEGRAL
C	51-SB-123		0.000+0	1.100-3	69 3044	3	AVERAGE RESONANCE PARAMETERS
N	51-SB-123		0.000+0	2.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-207 ***

ZA = 51123

07/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 51123

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	51-SB-123		2.160-	5	1.930-	4	61 960 1 AVERAGE RESONANCE PARAMETERS
	51-SB-123		2.130-	5	4.166-	3	69 3044 110 RESONANCE PARAMETERS
	51-SB-123		2.140-	5	1.919-	4	68 2893 10 RESONANCE PARAMETERS
	51-SB-123		2.140-	5	6.276-	4	68 814 28 RESONANCE PARAMETERS
N	51-SB-123		2.140-	5	2.990-	4	71 3135 14 RESONANCE PARAMETERS
	51-SB-123		2.160-	5	2.160-	5	57 1967 3 RESONANCE PARAMETERS
	51-SB-123		2.160-	5	2.160-	5	63 2439 2 RESONANCE PARAMETERS
	51-SB-123		2.160-	5	1.050-	4	70 3077 4 RESONANCE PARAMETERS
	51-SB-123		2.160-	5	1.900-	4	56 138 5 RESONANCE PARAMETERS
	51-SB-123		2.160-	5	1.930-	4	61 960 6 RESONANCE PARAMETERS
N	51-SB-123		2.160-	5	2.160-	5	70 3280 1 RESONANCE PARAMETERS
N	51-SB-123		2.160-	5	2.970-	5	67 3280 2 RESONANCE PARAMETERS
	51-SB-124	73	4.710-	5	1.060-	4	70 3073 4 RESONANCE PARAMETERS
	51-SB-124	73	2.500-	8	2.500-	8	57 2671 1 N,GAMMA
	52-TE-NAT	1	2.722-	9	9.468-	9	66 2389 1 N,GAMMA
	52-TE-NAT	1	1.060-	5	4.030-	4	56 2039 18 TOTAL
	52-TE-NAT	1	1.150-	4	3.000-	4	49 844 2 TOTAL
	52-TE-NAT	1	1.440-	4	2.860-	1	55 2042 49 TOTAL
N	52-TE-NAT	1	2.149-	4	6.204-	3	70 3608 13105 TOTAL
	52-TE-NAT	1	9.000-	2	2.975-	0	53 90 20 TOTAL
	52-TE-NAT	1	2.259-	0	1.500-	1	67 750 248 TOTAL
	52-TE-NAT	1	2.800-	0	1.320-	1	54 504 24 TOTAL
	52-TE-NAT	1	3.660-	0	3.660-	0	61 637 1 TOTAL
	52-TE-NAT	1	1.400-	1	1.400-	1	52 81 1 TOTAL
	52-TE-NAT	1	1.450-	1	1.450-	1	70 3300 1 TOTAL
	52-TE-NAT	2	3.000-	1	3.000-	1	63 1699 1 ELASTIC
	52-TE-NAT	2	3.250-	1	1.450-	0	66 885 53 ELASTIC
	52-TE-NAT	2	5.000-	1	8.000-	1	64 886 2 ELASTIC
	52-TE-NAT	2	6.500-	1	6.500-	1	63 1750 1 ELASTIC
	52-TE-NAT	2	1.000+	0	1.000+	0	54 103 1 ELASTIC
	52-TE-NAT	3	1.000+	0	1.000+	0	54 103 1 NONELASTIC
	52-TE-NAT	3	2.500+	0	2.500+	0	56 34 1 NONELASTIC
	52-TE-NAT	3	2.500+	0	1.400+	1	55 790 2 NONELASTIC
	52-TE-NAT	3	1.410+	1	1.410+	1	57 199 1 NONELASTIC
	52-TE-NAT	5	6.000-	2	1.800+	0	56 231 23 TOTAL SCATTERING
	52-TE-NAT	11	1.125+	0	1.500+	0	66 885 13 N,N'
	52-TE-NAT	21	2.530-	8	2.530-	8	58 1162 1 ABSORPTION
	52-TE-NAT	23	2.500-	8	2.500-	8	51 2398 1 N,GAMMA
	52-TE-NAT	23	2.500-	2	2.500-	2	60 633 1 N,GAMMA
	52-TE-NAT	23	3.000-	2	5.500-	2	63 1 2 N,GAMMA
	52-TE-NAT	23	2.500+	0	4.000+	0	58 1044 3 N,GAMMA
	52-TE-NAT	26	1.400+	1	1.400+	1	61 361 1 N,P
	52-TE-NAT	43	2.530-	8	2.530-	8	56 2555 1 COHERENT SCATTERING
	52-TE-NAT	44	2.500-	8	2.500-	8	51 2398 1 INCOHERENT SCATTER.
	52-TE-NAT	71	2.500-	8	2.500-	8	50 1794 1 ABSORPTION
	52-TE-NAT	71	2.500-	8	2.500-	8	51 882 1 ABSORPTION
	52-TE-NAT	73	2.530-	8	2.530-	8	70 2415 122 N,GAMMA
	52-TE-NAT	73	2.530-	8	2.530-	8	70 2415 33 N,GAMMA
	52-TE-NAT	74	2.530-	8	2.530-	8	70 2415 1 N,K GAMMA
	52-TE-NAT	102	6.000-	2	4.000-	1	56 231 25 ELASTIC
	52-TE-NAT	192	3.000-	1	3.000-	1	63 1699 8 ELASTIC

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTIONSPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
ANGULAR DISTRIBUTION
ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-208 ***

ZA = 52000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 52000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
52-TE-NAT	102		5.000-1	6.000-1	64 886	16	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		6.500-1	6.500-1	63 1750	8	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		6.710-1	1.109-0	66 1706	424	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		1.000+0	1.000+0	54 103	9	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		2.900+0	2.900+0	60 920	8	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		3.200+0	3.200+0	66 2950	13	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		1.400+1	1.400+1	61 1046	28	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	105		4.900-1	1.780+0	56 231	85	TOTAL SCATTERING ANGULAR DISTRIBUTION
52-TE-NAT	111	1	2.450+0	2.450+0	56 476	1	N,N' ANGULAR DISTRIBUTION
52-TE-NAT	224	80	2.530-0	2.530-0	67 1924	28	N,X GAMMA ENERGY DISTRIBUTION
N 52-TE-NAT	311	80	1.410+1	1.410+1	65 1908	40	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
52-TE-NAT	452		3.250-1	1.450+0	68 805	265	ELASTIC LEGENDRE EXPANSIONS OF ANGULAR DIST.
C 52-TE-NAT	521		4.900-7	1.500+1	57 094	1	ABSORPTION RESONANCE INTEGRAL
C 52-TE-NAT	521		5.000-7	1.500+1	60 897	1	ABSORPTION RESONANCE INTEGRAL
52-TE-NAT			1.410+1	1.410+1	65 1908	2	NUCLEAR TEMPERATURE
N 52-TE-NAT			0.000+0	4.000-3	70 3606	3	AVERAGE RESONANCE PARAMETERS
N 52-TE-NAT			0.000+0	4.600-3	68 814	3	AVERAGE RESONANCE PARAMETERS
52-TE-NAT			2.419-5	4.862-3	68 814	169	RESONANCE PARAMETERS
52-TE-NAT			1.820-4	1.820-4	64 2539	1	RESONANCE PARAMETERS
N 52-TE-NAT			3.203-4	2.663-3	70 3606	81	RESONANCE PARAMETERS
52-TE-120	12		1.480+1	1.480+1	68 2314	1	N,2N
52-TE-120	12	4	1.480+1	1.480+1	68 2314	1	N,2N
52-TE-120	12	5	1.480+1	1.480+1	68 2314	1	N,2N
52-TE-120	43		2.530-0	2.530-0	56 2555	1	COHERENT SCATTERING
52-TE-120	73		2.500-0	2.500-0	52 342	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-120	73	5	2.500-0	2.500-0	61 2637	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-120	73	5	2.500-0	2.500-0	62 2656	2	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-122	1		1.420+1	1.420+1	67 1869	1	TOTAL
52-TE-122	12		1.480+1	1.480+1	68 2314	1	N,2N
52-TE-122	12	5	1.480+1	1.480+1	68 2314	2	N,2N
N 52-TE-122	23		2.500-2	2.500-2	70 3971	1	N,GAMMA
52-TE-122	23		3.000-2	2.250-1	67 1807	7	N,GAMMA
52-TE-122	73		2.500-0	2.500-0	52 342	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-122			0.000+0	1.080-2	70 3606	2	AVERAGE RESONANCE PARAMETERS
52-TE-122			7.200-5	1.770-3	63 2201	9	RESONANCE PARAMETERS
N 52-TE-122			7.200-5	1.080-2	70 3606	149	RESONANCE PARAMETERS
52-TE-122			7.250-5	7.250-5	54 2539	1	RESONANCE PARAMETERS
52-TE-122			7.279-5	4.552-4	68 814	3	RESONANCE PARAMETERS
52-TE-122			7.280-5	7.280-5	60 2540	2	RESONANCE PARAMETERS
52-TE-123	23		3.000-2	2.250-1	67 1807	6	N,GAMMA
52-TE-123	43		2.530-0	2.530-0	56 2555	1	COHERENT SCATTERING
52-TE-123	73		2.500-0	2.500-0	52 342	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N 52-TE-123			0.000+0	6.600-4	70 3606	4	AVERAGE RESONANCE PARAMETERS
52-TE-123			2.330-6	2.750-4	70 3046	9	RESONANCE PARAMETERS
52-TE-123			2.334-6	2.470-5	54 2542	5	RESONANCE PARAMETERS
52-TE-123			2.334-6	3.660-4	64 2539	8	RESONANCE PARAMETERS
52-TE-123			2.390-5	3.580-5	56 2541	2	RESONANCE PARAMETERS
52-TE-123			2.390-5	3.650-4	63 2201	37	RESONANCE PARAMETERS
52-TE-123			2.410-5	1.590-4	60 2540	8	RESONANCE PARAMETERS
52-TE-123			2.410-5	6.632-4	71 3135	34	RESONANCE PARAMETERS
N 52-TE-123			2.410-5	1.998-3	70 3606	167	RESONANCE PARAMETERS
52-TE-123			2.419-5	3.635-4	68 814	11	RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-209 ***

ZA = 52123

[illegible]

07/04/76

EC5IL-7609 REACTION INDEX (ZA ORDERED)

TARGET	CODE	S	E-MIN-KEV	E-MAX-KEV	POINTS	REACTION DESCRIPTION
52-15-128	12	4	1.450-1	1.490-1	56	N,2N
52-15-128	12	4	1.450-1	1.450-1	53	N,2N
52-15-128	12	4	1.470-1	1.470-1	54	N,2N
52-15-128	12	4	1.480-1	1.480-1	53	N,2N
52-15-128	12	4	1.480-1	1.480-1	58	N,2N
52-15-128	12	4	1.480-1	1.480-1	72	N,2N
52-15-128	12	4	1.480-1	1.480-1	68	N,2N
52-15-128	12	4	1.480-1	1.480-1	68	N,2N
52-15-128	14	5	1.450-1	1.450-1	49	N,N,P
52-15-128	14	5	1.450-1	1.450-1	47	N,N,P
52-15-128	23	2	2.530-8	2.530-8	47	N,GAMMA
52-15-128	23	2	1.000-2	5.100-2	65	N,GAMMA
52-15-128	23	3	1.000-2	1.250-1	67	N,GAMMA
52-15-128	23	3	1.100-2	3.128-0	69	N,GAMMA
52-15-128	23	3	2.400-2	2.400-2	66	N,GAMMA
52-15-128	26	3	1.420-1	1.420-1	63	N,P
52-15-128	26	3	1.480-1	1.480-1	68	N,P
52-15-128	26	3	1.420-1	1.420-1	53	N,P
52-15-128	26	3	1.470-1	1.470-1	74	N,P
52-15-128	26	3	1.480-1	1.480-1	58	N,P
52-15-128	26	3	1.480-1	1.480-1	72	N,P
52-15-128	26	3	1.450-1	1.450-1	65	N,P
52-15-128	26	3	1.450-1	1.450-1	63	N,P
52-15-128	26	3	1.480-1	1.480-1	65	N,P
52-15-128	26	3	1.480-1	1.480-1	65	N,P
52-15-128	34	3	1.480-1	1.480-1	63	N,P
52-15-128	34	3	2.500-8	2.500-8	52	N,GAMMA
52-15-128	73	3	0.000-0	5.500-8	62	N,GAMMA
52-15-128	73	3	0.000-0	2.180-2	70	N,GAMMA
52-15-128	73	3	1.381-4	2.182-2	3605	N,GAMMA
52-15-128	73	3	4.280-4	1.050-2	63	N,GAMMA
52-15-128	73	3	4.370-4	4.370-4	64	N,GAMMA
52-15-128	73	3	1.000-3	1.202-1	61	N,GAMMA
52-15-128	73	3	1.420-1	1.420-1	67	N,GAMMA
52-15-128	73	3	1.420-1	1.259-0	73	N,GAMMA
52-15-128	73	3	1.480-1	1.480-1	68	N,GAMMA
52-15-128	73	3	1.420-1	1.420-1	65	N,GAMMA
52-15-128	73	3	1.450-1	1.450-1	53	N,GAMMA
52-15-128	73	3	1.460-1	1.460-1	73	N,GAMMA
52-15-128	73	3	1.470-1	1.470-1	64	N,GAMMA
52-15-128	73	3	1.480-1	1.480-1	63	N,GAMMA
52-15-128	73	3	1.480-1	1.480-1	72	N,GAMMA
52-15-128	73	3	1.420-1	1.420-1	63	N,GAMMA
52-15-128	73	3	1.460-1	1.460-1	63	N,GAMMA
52-15-128	73	3	1.450-1	1.450-1	68	N,GAMMA
52-15-128	73	3	2.530-8	2.530-8	49	N,GAMMA
52-15-128	73	3	1.000-3	5.100-2	65	N,GAMMA
52-15-128	73	3	1.000-2	1.250-1	67	N,GAMMA
52-15-128	73	3	2.000-1	9.000-1	49	N,GAMMA
52-15-128	73	3	1.100-2	3.128-0	69	N,GAMMA
52-15-128	73	3	2.400-2	2.400-2	66	N,GAMMA

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 52130

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
52-TE-130	23	3	3.000-0	3.000-0	68 2345	1	N, GAMMA
52-TE-130	23	5	2.400-2	2.400-2	68 2392	1	N, GAMMA
52-TE-130	26		1.420-1	1.420-1	63 2185	1	N, P
52-TE-130	26	3	1.420-1	1.420-1	63 2185	2	N, P
52-TE-130	26	3	1.490-1	1.490-1	65 2166	2	N, P
N 52-TE-130	32		1.400-1	1.400-1	71 3816	1	N, HE-3
52-TE-130	34		1.450-1	1.450-1	59 550	1	N, ALPHA
52-TE-130	34	4	1.480-1	1.480-1	63 2203	1	N, ALPHA
52-TE-130	43		2.530-8	2.530-8	56 2555	1	COHERENT SCATTERING
52-TE-130	73		2.500-8	2.500-8	52 342	1	N, GAMMA
52-TE-130	73	3	2.500-8	2.500-8	62 908	1	N, GAMMA
52-TE-130	73	3	2.500-8	2.500-8	62 2656	1	N, GAMMA
52-TE-130	73	5	2.500-8	2.500-8	62 2656	1	N, GAMMA
C 52-TE-130	523		6.000-7	1.500-1	68 2426	1	N, GAMMA
N 52-TE-130			0.000-0	3.010-2	70 3606	2	AVERAGE RESONANCE PARAMETERS
N 52-TE-130			0.000-0	1.190-1	61 737	1	AVERAGE RESONANCE PARAMETERS
C 52-TE-130			2.000-3	1.200-1	61 728	2	AVERAGE RESONANCE PARAMETERS
N 52-TE-130			1.140-3	3.017-2	70 3606	78	RESONANCE PARAMETERS
52-TE-130			1.500-3	1.175-1	61 728	84	RESONANCE PARAMETERS
N 52-TE-123M	23	7	2.500-8	2.500-8	75 3563	2	N, GAMMA
53-1-125	73		2.500-8	2.500-8	61 2676	1	N, GAMMA
53-1-125	73		2.500-8	2.500-8	64 2675	1	N, GAMMA
C 53-1-125	523		5.000-7	1.500-1	64 2675	1	N, GAMMA
N 53-1-126	21		2.530-8	2.530-8	75 3892	1	ABSORPTION
C 53-1-127	1		8.189-2	4.080-3	65 814	6995	TOTAL
53-1-127	1		1.150-4	3.000-4	49 844	2	TOTAL
53-1-127	1		1.000-2	1.000-2	47 45	1	TOTAL
53-1-127	1		2.390-2	1.370-0	49 50	31	TOTAL
53-1-127	1		3.000-2	6.500-1	65 921	102	TOTAL
53-1-127	1		1.000-0	3.210-0	52 80	14	TOTAL
53-1-127	1		2.262-0	1.499-1	67 750	243	TOTAL
53-1-127	1		3.350-0	5.710-0	65 1804	35	TOTAL
53-1-127	1		4.000-0	4.130-0	67 1843	1	TOTAL
N 53-1-127	1		1.336-1	1.348-1	70 3968	2	TOTAL
53-1-127	1		1.400-1	1.400-1	52 81	1	TOTAL
53-1-127	1		1.450-1	1.450-1	70 3300	1	TOTAL
N 53-1-127	1		1.470-1	1.470-1	71 3815	1	TOTAL
53-1-127	1		2.840-1	2.840-1	61 533	1	TOTAL
53-1-127	1		4.200-1	4.200-1	50 281	1	TOTAL
N 53-1-127	2		6.893-1	6.893-1	72 3545	1	ELASTIC
53-1-127	2		2.000-0	2.000-0	65 1509	1	ELASTIC
53-1-127	2		4.000-0	4.000-0	64 1643	1	ELASTIC
53-1-127	3		2.500-0	2.500-0	56 34	1	NONELASTIC
53-1-127	3		2.500-0	1.400-1	55 790	2	NONELASTIC
53-1-127	3		1.410-1	1.410-1	57 199	1	NONELASTIC
53-1-127	3		1.450-1	1.450-1	56 200	1	NONELASTIC
53-1-127	11		4.000-0	7.000-0	63 836	2	N, N'
N 53-1-127	11	1	4.600-2	5.060-1	69 3869	53	N, N'
53-1-127	11	1	4.000-1	1.000-0	63 828	14	N, N'
53-1-127	11	7	1.200-1	1.200-0	56 137	27	N, N'
53-1-127	12		1.230-1	1.825-1	53 91	6	N, 2N
53-1-127	12		1.316-1	1.870-1	62 562	5	N, 2N

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-212 ***

ZA = 53127

07/04/76

ZA = 53127

ECSIL-7500 REACTION INDEX (ZA ORDERED)

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	53-1-127 12	1	1.420+	1	1.420+	1	N, 2N
N	53-1-127 12	1	1.450+	1	51 27	1	N, 2N
N	53-1-127 12	1	1.480+	1	69 2354	2	N, 2N
N	53-1-127 12	1	1.470+	1	68 2483	1	N, 2N
N	53-1-127 12	1	1.480+	1	68 2711	1	N, 2N
N	53-1-127 12	1	1.460+	1	73 3988	1	N, 2N
N	53-1-127 12	1	1.470+	1	66 2483	1	N, 2N
N	53-1-127 12	1	1.470+	1	68 2092	1	N, 2N
N	53-1-127 12	1	1.950+	1	67 1893	1	N, 2N
N	53-1-127 12	1	1.410+	1	62 2208	5	N, N' ALPHA
N	53-1-127 12	1	2.530+	0	60 891	1	ABSORPTION
N	53-1-127 21	2	2.530+	0	60 897	1	ABSORPTION
N	53-1-127 21	2	2.500+	0	58 364	3	ABSORPTION
N	53-1-127 23	2	2.530+	0	67 888	1	N, GAMMA
N	53-1-127 23	1	1.400+	5	62 2087	73	N, GAMMA
N	53-1-127 23	2	2.000+	4	61 718	39	N, GAMMA
N	53-1-127 23	3	3.500+	3	46 313	8	N, GAMMA
N	53-1-127 23	4	4.500+	3	1.800+	14	N, GAMMA
N	53-1-127 23	9	9.500+	3	1.700+	47	N, GAMMA
N	53-1-127 23	1	1.890+	2	2.470+	61	N, GAMMA
N	53-1-127 23	2	2.000+	2	9.800+	57	N, GAMMA
N	53-1-127 23	2	2.370+	2	75 3909	34	N, GAMMA
N	53-1-127 23	2	2.400+	2	57 305	1	N, GAMMA
N	53-1-127 23	2	2.400+	2	63 639	1	N, GAMMA
N	53-1-127 23	2	2.400+	2	65 2206	1	N, GAMMA
N	53-1-127 23	2	2.430+	2	74 3565	1	N, GAMMA
N	53-1-127 23	2	2.500+	2	59 545	1	N, GAMMA
N	53-1-127 23	2	2.500+	2	62 697	2	N, GAMMA
N	53-1-127 23	3	3.000+	2	5.100+	9	N, GAMMA
N	53-1-127 23	1	1.250+	1	63 1	2	N, GAMMA
N	53-1-127 23	1	1.820+	1	57 1807	3	N, GAMMA
N	53-1-127 23	1	6.200+	0	59 663	30	N, GAMMA
N	53-1-127 23	1	1.700+	0	64 2089	31	N, GAMMA
N	53-1-127 23	1	1.950+	1	59 528	1	N, GAMMA
N	53-1-127 23	2	2.000+	1	61 649	30	N, GAMMA
N	53-1-127 23	4	4.000+	1	60 674	1	N, GAMMA
N	53-1-127 23	4	4.000+	1	71 3821	2	N, GAMMA
N	53-1-127 23	2	2.700+	0	58 383	2	N, GAMMA
N	53-1-127 23	2	2.500+	0	68 3375	1	N, GAMMA
N	53-1-127 23	3	3.000+	0	67 1991	1	N, GAMMA
N	53-1-127 23	1	1.410+	1	70 2232	1	N, GAMMA
N	53-1-127 23	1	1.450+	1	72 3983	1	N, GAMMA
N	53-1-127 23	1	1.450+	1	57 521	1	N, GAMMA
N	53-1-127 23	1	2.770+	0	68 2483	1	N, GAMMA
N	53-1-127 23	1	2.800+	0	53 3824	1	N, GAMMA
N	53-1-127 23	1	3.480+	0	72 4008	1	N, GAMMA
N	53-1-127 23	1	3.400+	0	66 135	55	N, X GAMMA
N	53-1-127 24	7	2.500+	0	61 366	184	N, X GAMMA
N	53-1-127 26	1	2.600+	0	61 366	1	N, P
N	53-1-127 26	1	1.400+	1	61 361	1	N, P
N	53-1-127 26	1	1.450+	1	53 27	1	N, P

*** 1-213 ***

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 53127

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	53-1	-127	26	1.450+	1.450+	59 550	1 N,P
	53-1	-127	26	1.470+	1.470+	68 2483	2 N,P
N	53-1	-127	26	4	1.480+	1.480+	69 4083 1 N,P
	53-1	-127	26	5	1.470+	1.470+	68 2483 1 N,P
N	53-1	-127	26	5	1.480+	1.480+	69 4083 1 N,P
	53-1	-127	34	1.210+	2.150+	62 2208	6 N,ALPHA
	53-1	-127	34	1.405+	1.405+	62 585	1 N,ALPHA
	53-1	-127	34	3	1.450+	1.450+	53 27 1 N,ALPHA
C	53-1	-127	34	3	1.470+	1.470+	68 2483 1 N,ALPHA
	53-1	-127	34	5	1.470+	1.470+	68 2483 1 N,ALPHA
N	53-1	-127	34	5	1.480+	1.480+	69 4083 1 N,ALPHA
	53-1	-127	41	7.300-	7.300-	51 1584	1 BOUND ATOM
N	53-1	-127	43	7.160-	7.160-	72 3444	1 COHERENT SCATTERING
	53-1	-127	43	7.300-	7.300-	51 1584	1 COHERENT SCATTERING
	53-1	-127	52	2.000+	2.000+	68 2990	1 ELASTIC
	53-1	-127	62	2.000+	2.000+	70 3382	1 N,2N
	53-1	-127	71	2.500-	2.500-	50 1623	1 ABSORPTION
	53-1	-127	71	2.500-	2.500-	50 1794	1 ABSORPTION
	53-1	-127	71	2.500-	2.500-	51 892	1 ABSORPTION
	53-1	-127	71	2.500-	2.500-	63 2557	3 ABSORPTION
	53-1	-127	73	2.500-	2.500-	44 1458	1 N,GAMMA
	53-1	-127	73	2.500-	2.500-	49 2742	1 N,GAMMA
	53-1	-127	73	2.500-	2.500-	58 2674	1 N,GAMMA
	53-1	-127	73	2.500-	2.500-	65 2206	1 N,GAMMA
N	53-1	-127	73	8	3.300-	1	1 N,GAMMA
N	53-1	-127	73	3	4.500+	4.500+	73 3969 1 N,GAMMA
	53-1	-127	73	7	2.530-	2.530-	70 2415 116 N,GAMMA
	53-1	-127	73	10	2.530-	2.530-	70 2415 25 N,GAMMA
N	53-1	-127	73	87	2.530-	2.530-	68 3862 13 N,GAMMA
	53-1	-127	74	2.530-	2.530-	70 2415	1 N,X GAMMA
N	53-1	-127	102	8.893-	1	72 3546	0 ELASTIC
	53-1	-127	102	4.000+	4.000+	64 1643	17 ELASTIC
	53-1	-127	102	7.000+	7.000+	63 836	1 ELASTIC
N	53-1	-127	224	1.410+	1.410+	69 2232	25 N,X GAMMA
N	53-1	-127	304	1.455+	1.455+	74 4095	482 NEUTRON EMISSION
N	53-1	-127	311	80	1.410+	1.410+	65 1932 50 N,N'
C	53-1	-127	521	4.900-	7	1.500+	1 ABSORPTION
C	53-1	-127	521	5.000-	7	1.500+	1 ABSORPTION
C	53-1	-127	523	4.000-	7	1.000+	1 N,GAMMA
C	53-1	-127	523	6.000-	7	1.500+	1 N,GAMMA
N	53-1	-127	873	4.000-	1	4.000-	1 N,GAMMA
	53-1	-127		1.410+	1.410+	66 1932	1 NUCLEAR TEMPERATURE
C	53-1	-127		0.000+	0.000+	54 459	1 AVERAGE RESONANCE PARAMETERS
C	53-1	-127		0.000+	0.1890+	63 2544	2 AVERAGE RESONANCE PARAMETERS
C	53-1	-127		0.000+	0.1960+	58 2545	3 AVERAGE RESONANCE PARAMETERS
N	53-1	-127		0.000+	0.2000+	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	53-1	-127		0.000+	0.3000+	65 814	6 AVERAGE RESONANCE PARAMETERS
N	53-1	-127		0.000+	0.5000+	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	53-1	-127		3.000+	3.6500+	64 1226	3 AVERAGE RESONANCE PARAMETERS
C	53-1	-127		3.000+	2.6500+	66 1992	2 AVERAGE RESONANCE PARAMETERS
	53-1	-127		1.070-	5	1.070-	61 1295 1 RESONANCE PARAMETERS
	53-1	-127		2.040-	5	1.457-	81 3012 9 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-214 ***

ZA = 53127

07/04/76

ECL-7600 REACTION INDEX (ZA ORDERED)

ZA = 53127

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
53-1	-127		2.050-5	9.100-5	54 459	21	RESONANCE PARAMETERS
53-1	-127		2.050-5	9.200-5	56 201	21	RESONANCE PARAMETERS
53-1	-127		2.050-5	1.690-4	63 2544	9	RESONANCE PARAMETERS
53-1	-127		2.050-5	1.957-4	58 2545	20	RESONANCE PARAMETERS
53-1	-127		2.050-5	2.370-4	71 3135	26	RESONANCE PARAMETERS
53-1	-127		4.550-5	1.680-4	58 944	5	RESONANCE PARAMETERS
53-1	-127		1.536-4	4.003-3	65 814	294	RESONANCE PARAMETERS
53-1	-129	1	2.050-8	4.530-8	59 948	22	TOTAL
53-1	-129	71	2.500-8	2.500-8	63 2544	1	ABSORPTION
53-1	-129	73	2.500-8	2.500-8	56 2626	1	N,GAMMA
53-1	-129	73 3	2.500-8	2.500-8	66 2677	1	N,GAMMA
53-1	-129	73 4	2.500-8	2.500-8	58 1163	1	N,GAMMA
53-1	-129	73 4	2.500-8	2.500-8	66 2677	1	N,GAMMA
C	53-1	-129 521	5.000-7	1.500+1	58 1163	1	ABSORPTION
C	53-1	-129	0.000+0	1.530-4	63 2544	2	AVERAGE RESONANCE PARAMETERS
C	53-1	-129	4.000+5	1.710-4	58 944	2	AVERAGE RESONANCE PARAMETERS
53-1	-129		6.620-5	1.540-4	58 944	12	RESONANCE PARAMETERS
53-1	-129		7.240-5	1.530-4	63 2544	5	RESONANCE PARAMETERS
53-1	-130	73	2.500-8	2.500-8	58 1163	1	N,GAMMA
53-1	-131	71	2.500-8	2.500-8	58 2754	1	ABSORPTION
53-1	-131	73	2.500-8	2.500-8	49 2679	1	N,GAMMA
53-1	-131	73	2.500-8	2.500-8	63 2678	1	N,GAMMA
54-XE-NAT	1		3.000-9	2.500-8	63 777	23	TOTAL
54-XE-NAT	1		5.240-7	1.435-4	58 2043	121	TOTAL
N	54-XE-NAT	1	2.133-6	4.099-3	64 3650	23768	TOTAL
54-XE-NAT	1		6.280-6	9.300-3	53 2045	55	TOTAL
54-XE-NAT	1		1.250-1	1.978+1	60 570	145	TOTAL
54-XE-NAT	5		2.530-8	2.530-8	63 777	1	TOTAL SCATTERING
54-XE-NAT	21		2.530-8	2.530-8	63 777	1	ABSORPTION
54-XE-NAT	21		2.530-8	2.530-8	66 2680	1	ABSORPTION
N	54-XE-NAT	45	3.250-4	3.250-4	64 3650	1	POTENTIAL SCATTERING
54-XE-NAT	71		2.500-8	2.500-8	50 2681	1	ABSORPTION
54-XE-NAT	92		2.500-8	2.500-8	66 1891	1	FREE ATOM
C	54-XE-NAT		0.000+0	1.260-4	59 2072	1	AVERAGE RESONANCE PARAMETERS
N	54-XE-NAT		9.880-6	3.971-3	64 3650	97	RESONANCE PARAMETERS
54-XE-124	12		1.440+1	1.440+1	68 2842	1	N,2N
54-XE-124	23		2.530-8	2.530-8	64 2210	1	N,GAMMA
54-XE-124	23		2.530-8	2.530-8	2 63 1010	2	N,GAMMA
54-XE-124	73		2.500-8	2.500-8	58 2682	1	N,GAMMA
54-XE-124	73		2.500-8	2.500-8	64 2210	1	N,GAMMA
54-XE-124	73		2.500-8	2.500-8	60 2843	1	N,GAMMA
54-XE-124	73 2		2.500-8	2.500-8	68 2843	2	N,GAMMA
C	54-XE-124 523		5.000-7	1.500+1	64 2210	1	N,GAMMA
C	54-XE-124 523		5.000-7	1.500+1	2 63 1010	2	N,GAMMA
54-XE-124			5.160-6	5.160-6	59 2072	2	RESONANCE PARAMETERS
54-XE-124			5.160-6	2.515-4	64 3650	4	RESONANCE PARAMETERS
N	54-XE-126 12		1.440+1	1.440+1	68 2842	1	N,2N
54-XE-126	12 2		1.440+1	1.440+1	68 2842	1	N,2N
54-XE-126	23		2.530-8	2.530-8	65 2211	1	N,GAMMA
54-XE-126	73		2.500-8	2.500-8	65 2211	1	N,GAMMA
54-XE-126	73		2.500-8	2.500-8	65 2685	1	N,GAMMA
54-XE-126	73		2.500-8	2.500-8	68 2843	1	N,GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-215 ***

ZA = 54126

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 54126

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
54-XE-126	73	2	2.500-	8 2.500-	8 68 2843	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-126	523		5.500-	7 1.500+	1 65 2211	1	N,GAMMA RESONANCE INTEGRAL
54-XE-126			4.596-	4 2.332-	3 64 3650	4	RESONANCE PARAMETERS
54-XE-128	12		1.440+	1 1.440+	1 68 2842	1	N,2N
54-XE-128	2	2	1.440+	1 1.440+	1 68 2842	1	N,2N
54-XE-128	73	5	2.500-	8 2.500-	8 68 1962	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-128	73	5	2.500-	8 2.500-	8 68 2843	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-128			2.300-	4 3.440-	3 54 3650	2	AVERAGE RESONANCE PARAMETERS
54-XE-128			2.377-	4 3.441-	3 54 3650	23	RESONANCE PARAMETERS
54-XE-129	71		2.500-	8 2.500-	8 50 2681	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
54-XE-129	71		2.500-	8 2.500-	8 63 1010	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
54-XE-129	224 80		2.500-	8 2.500-	8 71 4038	38	N,X GAMMA ENERGY DISTRIBUTION
54-XE-129			9.000-	6 1.860-	4 64 3650	3	AVERAGE RESONANCE PARAMETERS
54-XE-129			9.400-	6 9.400-	6 63 2437	1	RESONANCE PARAMETERS
54-XE-129			9.400-	6 1.258-	4 70 3046	3	RESONANCE PARAMETERS
54-XE-129			9.470-	6 1.260-	4 59 2072	6	RESONANCE PARAMETERS
54-XE-129			9.570-	6 4.082-	3 64 3650	218	RESONANCE PARAMETERS
54-XE-130	12	5	1.440+	1 1.440+	1 68 2842	1	N,2N
54-XE-130	26	4	1.440+	1 1.440+	1 68 2842	1	N,P
54-XE-130	73	5	2.500-	8 2.500-	8 68 1962	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-130	73	5	2.500-	8 2.500-	8 68 2843	2	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-130			4.300-	4 3.600-	3 64 3650	2	AVERAGE RESONANCE PARAMETERS
54-XE-130			4.302-	4 3.564-	3 64 3650	47	RESONANCE PARAMETERS
54-XE-131	26	5	1.440+	1 1.440+	1 68 2842	1	N,P
54-XE-131	71		2.500-	8 2.500-	8 50 2681	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
54-XE-131	71		2.500-	8 2.500-	8 63 1010	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
54-XE-131	224 80		2.500-	8 2.500-	8 71 4038	33	N,X GAMMA ENERGY DISTRIBUTION
54-XE-131			1.400-	5 1.740-	4 64 3650	3	AVERAGE RESONANCE PARAMETERS
54-XE-131			1.410-	5 7.600-	5 59 2072	6	RESONANCE PARAMETERS
54-XE-131			1.441-	5 3.945-	3 64 3650	87	RESONANCE PARAMETERS
54-XE-132	12	5	1.440+	1 1.440+	1 68 2842	1	N,2N
54-XE-132	23	5	2.530-	8 2.530-	8 2 63 1010	1	N,GAMMA
54-XE-132	26	4	1.440+	1 1.440+	1 68 2842	1	N,P
54-XE-132	73	5	2.500-	8 2.500-	8 63 1010	2	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-132	73	5	2.500-	8 2.500-	8 68 1962	2	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-132	73	5	2.500-	8 2.500-	8 68 2643	3	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-132	523	5	5.000-	7 1.500+	1 2 63 1010	1	N,GAMMA RESONANCE INTEGRAL
54-XE-132			6.430-	4 4.000-	3 64 3650	2	AVERAGE RESONANCE PARAMETERS
54-XE-132			6.433-	4 3.854-	3 64 3650	20	RESONANCE PARAMETERS
54-XE-134	12		1.440+	1 1.440+	1 68 2842	1	N,2N
54-XE-134	12	5	1.440+	1 1.440+	1 68 2842	1	N,2N
54-XE-134	23		2.530-	8 2.530-	8 2 63 1010	2	N,GAMMA
54-XE-134	26		1.440+	1 1.440+	1 68 2842	1	N,P
54-XE-134	73		2.500-	8 2.500-	8 63 1010	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-134	73		2.500-	8 2.500-	8 68 2843	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-134	73	3	2.500-	8 2.500-	8 68 2843	2	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-134	523		5.000-	7 1.500+	1 2 63 1010	2	N,GAMMA RESONANCE INTEGRAL
54-XE-134			1.001-	3 1.001-	3 64 3650	2	RESONANCE PARAMETERS
54-XE-135	1		1.050-	8 3.250-	7 59 2311	77	TOTAL
54-XE-135	51		2.500-	8 2.500-	8 56 2686	1	TOTAL SPECTRUM AVERAGED CROSS SECTION
54-XE-135	71		2.500-	8 2.500-	8 55 2755	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
54-XE-135	71		2.500-	8 2.500-	8 56 2687	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-216 ***

ZA = 54135

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 54135

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
54-XE-135	71		2.500- 8	2.500- 8	57 2684	1	ABSORPTION
54-XE-135	71		2.500- 8	2.500- 8	59 2683	2	ABSORPTION
N 54-XE-135	73		2.740- 8	2.740- 8	73 3435	1	N, GAMMA
54-XE-136	12		1.440+ 1	1.440+ 1	68 2842	1	N, 2N
54-XE-136	12	3	1.440+ 1	1.440+ 1	68 2842	1	N, 2N
54-XE-136	23		2.530- 8	2.530- 8	48 2688	1	N, GAMMA
54-XE-136	23		2.530- 8	2.530- 8	65 2211	1	N, GAMMA
54-XE-136	23		1.000+ 0	1.000+ 0	48 327	1	N, GAMMA
54-XE-136	73		2.500- 8	2.500- 8	68 2843	1	N, GAMMA
55-CS-133	1		1.500- 3	4.370- 6	65 1989	69	TOTAL
C 55-CS-133	1		2.158- 4	1.368- 3	65 814	5820	TOTAL
N 55-CS-133	1		2.503- 1	1.199+ 0	73 3990	482	TOTAL
55-CS-133	1		2.260+ 0	1.495+ 1	67 750	243	TOTAL
55-CS-133	1		1.408+ 1	1.408+ 1	66 2074	1	TOTAL
N 55-CS-133	1		1.470+ 1	1.470+ 1	71 3815	1	TOTAL
N 55-CS-133	2		1.200- 1	1.100+ 0	73 3991	19	ELASTIC
N 55-CS-133	2		8.772- 1	8.772- 1	72 3546	1	ELASTIC
N 55-CS-133	11	1	5.670- 1	9.670- 1	72 3753	187	N, N'
55-CS-133	12		1.410+ 1	1.410+ 1	59 615	1	N, 2N
55-CS-133	12		1.410+ 1	1.410+ 1	61 651	1	N, 2N
N 55-CS-133	12		1.420+ 1	1.420+ 1	72 3427	1	N, 2N
55-CS-133	12		1.420+ 1	1.460+ 1	65 1777	2	N, 2N
55-CS-133	12	5	1.316+ 1	1.941+ 1	62 562	5	N, 2N
N 55-CS-133	12	5	1.420+ 1	1.460+ 1	64 3685	4	N, 2N
N 55-CS-133	12	5	1.460+ 1	1.460+ 1	73 3988	1	N, 2N
55-CS-133	13		1.950+ 1	1.950+ 1	68 2892	1	N, 3N
55-CS-133	13	4	1.950+ 1	1.950+ 1	67 1893	1	N, 3N
55-CS-133	18		1.410+ 1	7.150+ 1	62 2208	5	N, N' ALPHA
55-CS-133	21		2.530- 8	2.530- 8	58 1162	1	ABSORPTION
55-CS-133	23		1.338- 8	4.893- 5	72 3147	269	N, GAMMA
55-CS-133	23		2.530- 8	2.530- 8	47 888	1	N, GAMMA
55-CS-133	23		8.750- 7	4.000- 2	62 2067	92	N, GAMMA
55-CS-133	23		1.270- 2	1.690- 1	67 1547	72	N, GAMMA
N 55-CS-133	23		4.000- 1	4.000- 1	71 3821	2	N, GAMMA
55-CS-133	23	4	2.100- 2	2.100- 2	57 23	1	N, GAMMA
55-CS-133	23	4	1.420- 1	1.230+ 0	67 2993	8	N, GAMMA
N 55-CS-133	23	4	2.600+ 0	2.600+ 0	63 3824	1	N, GAMMA
55-CS-133	23	6	2.100- 2	2.100- 2	57 23	1	N, GAMMA
55-CS-133	32		1.470+ 1	1.470+ 1	65 2212	1	N, HE-3
55-CS-133	34		1.210+ 1	2.150+ 1	62 2208	6	N, ALPHA
55-CS-133	34		1.405+ 1	1.405+ 1	58 401	1	N, ALPHA
N 55-CS-133	34		1.420+ 1	1.420+ 1	72 3939	1	N, ALPHA
N 55-CS-133	34		1.440+ 1	1.440+ 1	70 3433	1	N, ALPHA
55-CS-133	34		1.450+ 1	1.450+ 1	59 550	1	N, ALPHA
N 55-CS-133	34		1.480+ 1	1.480+ 1	68 4071	1	N, ALPHA
N 55-CS-133	34	4	1.480+ 1	1.480+ 1	63 756	1	N, ALPHA
55-CS-133	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
55-CS-133	43		7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING
55-CS-133	71		2.500- 8	2.500- 8	50 1794	1	ABSORPTION
55-CS-133	71		2.500- 8	2.500- 8	51 882	1	ABSORPTION
55-CS-133	71		2.500- 8	2.500- 8	57 2579	1	ABSORPTION
55-CS-133	71		2.500- 8	2.500- 8	58 2689	1	ABSORPTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-217 ***

ZA = 55133

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 55133

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
55-CS-133	71		2.500-8	2.500-8	60 2757	1	ABSORPTION
55-CS-133	73		2.500-8	2.500-8	58 428	1	N,GAMMA
55-CS-133	73		2.500-8	2.500-8	58 1163	1	N,GAMMA
55-CS-133	73		2.500-8	2.500-8	61 2756	1	N,GAMMA
N 55-CS-133	73		2.530-8	2.530-8	72 3704	1	N,GAMMA
55-CS-133	73	4	2.500-8	2.500-8	60 2627	2	N,GAMMA
55-CS-133	73	4	2.500-8	2.500-8	61 2947	1	N,GAMMA
55-CS-133	73	6	2.500-8	2.500-8	60 909	1	N,GAMMA
55-CS-133	73	6	2.500-8	2.500-8	60 2627	2	N,GAMMA
55-CS-133	73	6	2.500-8	2.500-8	68 1964	1	N,GAMMA
55-CS-133	73	7	2.530-8	2.530-8	70 2415	53	N,GAMMA
55-CS-133	73	10	2.530-8	2.530-8	70 2415	23	N,GAMMA
55-CS-133	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA
55-CS-133	84	4	2.000+0	2.000+0	67 3354	1	N,ALPHA
N 55-CS-133	102		1.200-1	1.100+0	73 3991	167	ELASTIC
N 55-CS-133	102		8.772-1	8.772-1	72 3546	8	ELASTIC
N 55-CS-133	111	1	2.400-1	1.250+0	73 3991	133	N,N'
N 55-CS-133	111	7	5.490-1	9.670-1	72 3753	306	N,N'
N 55-CS-133	111	87	8.300-1	1.160+0	72 3753	149	N,N'
55-CS-133	124	7	1.000+0	2.200+0	70 3148	78	N,X GAMMA
N 55-CS-133	134		1.420+1	1.420+1	72 3939	6	N,ALPHA
N 55-CS-133	224	80	1.160+0	1.160+0	72 3753	20	N,X GAMMA
N 55-CS-133	311	80	1.410+1	1.410+1	65 1932	51	N,N'
N 55-CS-133	452		1.100+0	1.100+0	73 3991	4	ELASTIC
C 55-CS-133	521		4.900-7	1.500+1	57 1054	1	ABSORPTION
C 55-CS-133	521		5.000-7	1.500+1	58 1162	1	ABSORPTION
C 55-CS-133	521		5.000-7	1.500+1	58 2689	1	ABSORPTION
C 55-CS-133	521		5.000-7	1.500+1	60 897	1	ABSORPTION
C 55-CS-133	521		5.000-7	1.500+1	60 2757	1	ABSORPTION
C 55-CS-133	521		5.000-7	1.500+1	66 1491	1	ABSORPTION
C 55-CS-133	521	4	5.000-7	1.500+1	60 2627	1	ABSORPTION
C 55-CS-133	521	6	5.000-7	1.500+1	60 2627	1	ABSORPTION
C 55-CS-133	523		5.000-7	1.500+1	61 2756	1	N,GAMMA
C 55-CS-133	523		5.000-7	1.500+1	64 287	1	N,GAMMA
N 55-CS-133	523		5.000-7	1.500+1	69 3680	1	N,GAMMA
C 55-CS-133	523	6	5.000-7	1.500+1	68 1964	1	N,GAMMA
N 55-CS-133	873		4.000-1	4.000-1	71 3921	1	N,GAMMA
55-CS-133	873	6	1.000+0	1.000+0	71 3925	1	N,GAMMA
55-CS-133			1.410+1	1.410+1	66 1932	1	NUCLEAR TEMPERATURE
C 55-CS-133			0.000+0	6.000+4	55 862	2	AVERAGE RESONANCE PARAMETERS
C 55-CS-133			0.000+0	2.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C 55-CS-133			0.000+0	3.000-3	65 814	5	AVERAGE RESONANCE PARAMETERS
C 55-CS-133			0.000+0	5.000-2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C 55-CS-133			5.900-6	4.070+4	69 3094	2	AVERAGE RESONANCE PARAMETERS
55-CS-133			5.300-6	5.900-6	54 2441	4	RESONANCE PARAMETERS
55-CS-133			5.900-6	4.070+4	69 3094	23	RESONANCE PARAMETERS
N 55-CS-132			5.900-6	3.590+4	72 3924	12	RESONANCE PARAMETERS
55-CS-133			2.260-5	5.300+4	55 862	34	RESONANCE PARAMETERS
55-CS-133			1.261-4	3.500-3	65 814	158	RESONANCE PARAMETERS
55-CS-134	73		2.500-8	2.500-8	58 428	1	N,GAMMA
55-CS-134	73		2.500-8	2.500-8	58 1163	1	N,GAMMA
55-CS-135	23		2.530-8	2.530-8	58 1163	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-218 ***

ZA = 55135

07/04/76

ECSIL-7600 REACTION INDEX (2A ORDERED)

ZA = 55135

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	55-C5-135	73	2.500-	8	2.500- 8	49 2948	1 N,GAMMA
	55-C5-135	523	6.000-	7	1.460+ 1	58 1163	1 N,GAMMA
	55-C5-137	73	2.500-	8	2.500- 8	60 2949	1 N,GAMMA
	56-BA-NAT	1	1.801-	5	1.247- 3	59 498	710 TOTAL
	56-BA-NAT	1	1.110-	4	2.440- 4	58 903	10 TOTAL
	56-BA-NAT	1	6.900-	3	2.000- 1	61 728	453 TOTAL
	56-BA-NAT	1	1.550-	2	1.015- 1	56 143	57 TOTAL
	56-BA-NAT	1	2.300-	1	3.210+ 0	52 80	60 TOTAL
	56-BA-NAT	1	1.209+	0	1.788+ 0	63 749	24 TOTAL
	56-BA-NAT	1	2.254+	0	1.483+ 1	67 750	253 TOTAL
	56-BA-NAT	1	2.300+	0	2.748+ 0	57 817	13 TOTAL
	56-BA-NAT	1	4.100+	0	4.100+ 0	60 576	1 TOTAL
	56-BA-NAT	1	1.314+	1	1.560+ 1	58 324	3 TOTAL
	56-BA-NAT	1	1.400+	1	1.400+ 1	52 81	1 TOTAL
	56-BA-NAT	1	2.840+	1	2.840+ 1	61 233	1 TOTAL
	56-BA-NAT	1	4.200+	1	4.200+ 1	50 281	1 TOTAL
	56-BA-NAT	2	5.000-	1	6.000- 1	64 870	2 ELASTIC
	56-BA-NAT	2	6.500-	1	6.500- 1	63 1750	1 ELASTIC
	56-BA-NAT	2	8.845-	1	8.845- 1	72 3546	1 ELASTIC
	56-BA-NAT	2	1.000+	0	1.000+ 0	54 103	1 ELASTIC
	56-BA-NAT	2	2.000+	0	2.000+ 0	65 1509	1 ELASTIC
N	56-BA-NAT	2	4.100+	0	4.100+ 0	60 576	1 ELASTIC
	56-BA-NAT	3	1.000+	0	1.000+ 0	54 103	1 NONELASTIC
	56-BA-NAT	3	2.500+	0	2.500+ 0	56 34	1 NONELASTIC
	56-BA-NAT	3	2.500+	0	2.500+ 0	61 848	1 NONELASTIC
	56-BA-NAT	3	2.500+	0	4.100+ 0	55 790	3 NONELASTIC
	56-BA-NAT	3	4.100+	0	4.100+ 0	60 576	1 NONELASTIC
	56-BA-NAT	3	1.410+	1	1.410+ 1	57 199	1 NONELASTIC
	56-BA-NAT	11	6.000-	1	1.200+ 0	63 828	6 N,N'
	56-BA-NAT	23	3.000-	2	6.500- 2	63 1	2 N,GAMMA
	56-BA-NAT	23	1.410+	1	1.410+ 1	69 2220	1 N,GAMMA
	56-BA-NAT	36	1.480+	1	1.480+ 1	72 3856	1 ACTIVATION
	56-BA-NAT	71	2.500-	8	2.500- 8	50 1623	1 ABSORPTION
	56-BA-NAT	71	2.500-	8	2.500- 8	50 1794	1 ABSORPTION
	56-BA-NAT	71	2.500-	8	2.500- 8	51 882	1 ABSORPTION
	56-BA-NAT	73	2.530-	8	2.530- 8	70 2415	94 N,GAMMA
	56-BA-NAT	73	2.530-	8	2.530- 8	70 2415	20 N,GAMMA
	56-BA-NAT	74	2.530-	8	2.530- 8	70 2415	1 N,X GAMMA
	56-BA-NAT	86	4.500+	0	4.500+ 0	73 3989	1 ACTIVATION
	56-BA-NAT	86	4.500+	0	4.500+ 0	73 3989	1 ACTIVATION
	56-BA-NAT	102	5.000-	1	6.000- 1	64 870	16 ELASTIC
	56-BA-NAT	102	6.500-	1	6.500- 1	63 1750	8 ELASTIC
N	56-BA-NAT	102	8.845-	1	8.845- 1	72 3546	9 ELASTIC
	56-BA-NAT	102	1.000+	0	1.000+ 0	54 103	9 ELASTIC
	56-BA-NAT	102	1.239+	0	1.682+ 0	63 748	90 ELASTIC
	56-BA-NAT	102	3.200+	0	3.200+ 0	66 2950	13 ELASTIC
	56-BA-NAT	102	4.100+	0	4.100+ 0	60 576	15 ELASTIC
	56-BA-NAT	102	5.000+	0	5.000+ 0	58 398	10 ELASTIC
	56-BA-NAT	224	1.410+	1	1.410+ 1	69 2220	25 N,X GAMMA
	56-BA-NAT	224	2.500-	8	2.500- 8	69 4080	10 N,X GAMMA
	56-BA-NAT	224	2.530-	8	2.530- 8	71 4056	72 N,X GAMMA
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION
	56-BA-NAT	521	4.300-	7	1.500+ 1	57 1054	1 ABSORPTION

SPECTRUM AVERAGED CROSS SECTION
 RESONANCE INTEGRAL
 SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-219 ***

ZA = 56000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	ANGULAR DIST.-INTEGRAL E1-E2
56-BA-NAT	524		5.500+ 0	8.500+ 0	64 1671	28	N,X GAMMA	
56-BA-NAT			4.640- 5	2.450- 4	65 2487	4	RESONANCE PARAMETERS	
56-BA-NAT			9.750- 4	2.066- 3	69 1817	24	RESONANCE PARAMETERS	
N 56-BA-130	23		2.006- 5	4.992- 3	72 3594	4369	N,GAMMA	
56-BA-132	73	3	2.500- 8	2.500- 8	68 1962	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
56-BA-130	73	5	2.500- 8	2.500- 8	60 909	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
56-BA-130	73	5	2.500- 8	2.500- 8	64 2645	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
N 56-BA-130	523		5.000- 7	1.500+ 1	69 3680	1	N,GAMMA	RESONANCE INTEGRAL
56-BA-130			4.620- 5	8.960- 4	69 1817	13	RESONANCE PARAMETERS	
56-BA-130			4.640- 5	1.860- 4	69 3041	4	RESONANCE PARAMETERS	
N 56-BA-130			4.640- 5	2.775- 3	72 3594	178	RESONANCE PARAMETERS	
N 56-BA-130			4.860- 5	5.790- 5	71 3925	2	RESONANCE PARAMETERS	
N 56-BA-132	12	3	1.480+ 1	1.480+ 1	72 3856	1	N,2N	
56-BA-132	73		2.500- 8	2.500- 8	47 2951	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
56-BA-132	73	4	2.500- 8	2.500- 8	60 1808	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
56-BA-132	73	6	2.500- 8	2.500- 8	56 2214	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
56-BA-132	73	6	2.500- 8	2.500- 8	63 2213	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
56-BA-132	76		2.000+ 0	2.000+ 0	56 911	1	N,P	SPECTRUM AVERAGED CROSS SECTION
N 56-BA-132			4.860- 5	5.790- 5	71 3925	2	RESONANCE PARAMETERS	
56-BA-132			5.720- 5	5.720- 5	69 1817	4	RESONANCE PARAMETERS	
N 56-BA-132			1.042- 4	2.054- 3	72 3594	17	RESONANCE PARAMETERS	
56-BA-134	12	4	1.480+ 1	1.480+ 1	60 672	1	N,2N	
N 56-BA-134	12	4	1.480+ 1	1.480+ 1	72 3856	1	N,2N	
56-BA-134	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
56-BA-134	73	4	2.500- 8	2.500- 8	63 1961	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
N 56-BA-134	224	80	2.500- 8	2.500- 8	69 4080	7	N,X GAMMA	ENERGY DISTRIBUTION
N 56-BA-134			4.000- 6	2.000- 3	71 3925	1	AVERAGE RESONANCE PARAMETERS	
56-BA-134			5.800- 5	5.800- 5	65 2487	1	RESONANCE PARAMETERS	
56-BA-134			1.018- 4	5.000- 4	69 1817	6	RESONANCE PARAMETERS	
N 56-BA-134			1.023- 4	1.998- 3	72 3594	11	RESONANCE PARAMETERS	
N 56-BA-134			1.023- 4	4.605- 3	71 3925	17	RESONANCE PARAMETERS	
N 56-BA-135	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
N 56-BA-135	73		3.500- 3	8.000- 2	74 3848	15	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION
N 56-BA-135	224	80	2.530- 8	2.530- 8	71 4056	19	N,X GAMMA	ENERGY DISTRIBUTION
C 56-BA-135			0.000+ 0	1.000- 3	66 1872	2	AVERAGE RESONANCE PARAMETERS	
N 56-BA-135			0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS	
N 56-BA-135			4.000- 6	2.000- 3	71 3925	1	AVERAGE RESONANCE PARAMETERS	
C 56-BA-135			2.400- 5	9.400- 4	69 1817	1	AVERAGE RESONANCE PARAMETERS	
N 56-BA-135			3.059- 3	5.978- 3	74 3848	3	AVERAGE RESONANCE PARAMETERS	
56-BA-135			2.400- 5	1.277- 3	69 1817	57	RESONANCE PARAMETERS	
56-BA-135			2.430- 5	2.860- 4	65 2487	18	RESONANCE PARAMETERS	
N 56-BA-135			2.440- 5	2.000- 3	71 3925	58	RESONANCE PARAMETERS	
N 56-BA-135			2.440- 5	2.256- 3	72 3594	20	RESONANCE PARAMETERS	
56-BA-135			2.450- 5	1.060- 4	57 1967	6	RESONANCE PARAMETERS	
56-BA-135			2.450- 5	3.180- 4	64 2546	7	RESONANCE PARAMETERS	
56-BA-135			8.200- 5	5.160- 4	56 2538	21	RESONANCE PARAMETERS	
N 56-BA-135			3.059- 3	5.978- 3	74 3848	326	RESONANCE PARAMETERS	
56-BA-136	12	4	1.480+ 1	1.480+ 1	60 672	1	N,2N	
56-BA-136	26		1.450+ 1	1.450+ 1	59 550	1	N,P	
56-BA-136	26		1.480+ 1	1.480+ 1	60 672	1	N,P	
N 56-BA-136	26		1.480+ 1	1.480+ 1	68 4071	1	N,P	
56-BA-136	73		2.530- 8	2.500- 8	52 342	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-220 ***

ZA = 56136

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 56136

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
56-BA-136	73	3	2.570-8	2.500-8	60 1803	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-136	73	3	2.500-8	2.500-8	65 910	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-136	76	3	2.000+0	2.000+0	56 911	1	N,P SPECTRUM AVERAGED CROSS SECTION
N 56-BA-136	224 80		2.500-8	2.500-8	89 4080	4	N,X GAMMA ENERGY DISTRIBUTION
N 56-BA-136			4.000-6	2.000-3	71 3925	1	AVERAGE RESONANCE PARAMETERS
56-BA-136			1.030-4	1.030-4	56 2538	2	RESONANCE PARAMETERS
56-BA-136			1.030-4	1.030-4	57 1957	1	RESONANCE PARAMETERS
N 56-BA-136			4.200-4	1.952-3	72 3594	4	RESONANCE PARAMETERS
N 56-BA-136			4.490-4	7.315-3	71 3925	11	RESONANCE PARAMETERS
56-BA-136			5.106-4	5.106-4	69 1817	2	RESONANCE PARAMETERS
56-BA-136			8.000-3	8.000-3	61 728	3	RESONANCE PARAMETERS
56-BA-137	11	3	6.600-1	1.020+0	55 300	7	N,N'
56-BA-137	11	3	2.800+0	2.800+0	67 2602	1	N,N'
N 56-BA-137	11	3	1.450+1	1.450+1	70 2987	1	N,N'
56-BA-137	61	3	2.000+0	2.000+0	65 910	1	N,N' SPECTRUM AVERAGED CROSS SECTION
56-BA-137	73		2.500-8	2.500-8	52 342	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N 56-BA-137	224 80		2.530-8	2.530-8	71 4056	25	N,X GAMMA ENERGY DISTRIBUTION
56-BA-137			4.000-6	2.000-3	71 3925	1	AVERAGE RESONANCE PARAMETERS
C 56-BA-137			2.400-5	9.400-4	69 1817	1	AVERAGE RESONANCE PARAMETERS
N 56-BA-137			1.269-4	4.986-3	71 3925	18	RESONANCE PARAMETERS
56-BA-137			4.188-4	1.346-3	69 1817	10	RESONANCE PARAMETERS
N 56-BA-137			4.200-4	1.952-3	72 3594	5	RESONANCE PARAMETERS
56-BA-137			4.240-4	5.910-4	56 2538	4	RESONANCE PARAMETERS
56-BA-138	11	1	1.443+0	2.145+0	62 597	55	N,N'
N 56-BA-138	12	3	1.450+1	1.450+1	69 2987	1	N,2N
N 56-BA-138	12	3	1.470+1	1.470+1	74 3624	1	N,2N
56-BA-138	12	3	1.480+1	1.480+1	60 672	1	N,2N
56-BA-138	23		2.530-8	2.530-8	47 888	1	N,GAMMA
56-BA-138	23		2.100-2	2.100-2	58 43	1	N,GAMMA
56-BA-138	23		2.400-2	2.400-2	57 305	1	N,GAMMA
56-BA-138	23		2.400-2	2.400-2	65 1788	1	N,GAMMA
56-BA-138	23		6.500-2	1.900+0	61 715	12	N,GAMMA
56-BA-138	23		1.500-1	2.200+0	59 663	17	N,GAMMA
56-BA-138	23		1.950-1	1.950-1	59 526	1	N,GAMMA
56-BA-138	23		2.000-1	4.000+0	58 363	3	N,GAMMA
56-BA-138	23		2.500+0	4.000+0	58 1044	3	N,GAMMA
56-BA-138	23		2.900+0	2.900+0	68 3375	1	N,GAMMA
56-BA-138	23		3.000+0	3.000+0	67 1991	1	N,GAMMA
N 56-BA-138	23		1.440+1	1.440+1	72 3963	1	N,GAMMA
56-BA-138	23		1.450+1	1.450+1	57 521	1	N,GAMMA
N 56-BA-138	23	3	1.480+1	1.480+1	70 4008	1	N,GAMMA
56-BA-138	26		1.400+1	1.400+1	63 323	1	N,P
56-BA-138	26		1.450+1	1.450+1	53 27	1	N,P
56-BA-138	26		1.450+1	1.450+1	59 550	1	N,P
56-BA-138	26		1.480+1	1.480+1	60 672	1	N,P
N 56-BA-138	26		1.480+1	1.480+1	68 4071	1	N,P
N 56-BA-138	26	3	1.440+1	1.440+1	70 3433	1	N,P
56-BA-138	34		1.500+1	1.500+1	67 1892	1	N,ALPHA
56-BA-138	34	3	1.410+1	1.410+1	61 704	1	N,ALPHA
N 56-BA-138	34	3	1.440+1	1.440+1	70 3433	1	N,ALPHA
56-BA-138	34	4	1.410+1	1.410+1	61 704	1	N,ALPHA
N 56-BA-138	34	4	1.440+1	1.440+1	70 3433	1	N,ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-221 ***

ZA = 56138

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 56138

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
56-BA-138	62	3	2.000+ 0	2.000+ 0	65 910	1	N,2N SPECTRUM AVERAGED CROSS SECTION
56-BA-138	73		2.500- 8	2.500- 8	49 2742	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-138	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-138	73		2.500- 8	2.500- 8	60 909	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-138	73		2.500- 8	2.500- 8	65 910	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N 56-BA-138	73		3.750+ 3	8.500- 2	75 4005	11	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-138	84		2.000+ 0	2.000+ 0	65 2034	1	N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N 56-BA-138	224	80	3.115- 1	2.050+ 0	69 4080	3	N,X GAMMA ENERGY DISTRIBUTION
C 56-BA-138	523		6.000- 7	1.500+ 1	68 2426	1	N,GAMMA RESONANCE INTEGRAL
C 56-BA-138			0.000+ 0	2.240- 1	61 737	1	AVERAGE RESONANCE PARAMETERS
N 56-BA-138			2.500+ 3	9.000- 2	75 4005	4	AVERAGE RESONANCE PARAMETERS
C 56-BA-138			3.000- 2	2.000- 1	61 728	2	AVERAGE RESONANCE PARAMETERS
56-BA-138			3.170- 2	1.920- 1	61 728	63	RESONANCE PARAMETERS
N 56-BA-140	23		2.530- 8	2.530- 8	67 3533	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-140	73		2.500- 8	2.500- 8	58 1163	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N 56-BA-140	523		5.400- 7	1.500+ 1	67 3533	1	N,GAMMA RESONANCE INTEGRAL
57-LA-NAT	1		1.000- 7	1.500- 3	67 2215	58	TOTAL
57-LA-NAT	1		3.939- 6	4.241- 5	59 2405	335	TOTAL
57-LA-NAT	1		6.410- 5	8.320- 5	57 1967	21	TOTAL
N 57-LA-NAT	1		1.510- 2	2.371- 1	71 3751	84	TOTAL
57-LA-NAT	1		3.000- 2	6.500- 1	65 921	101	TOTAL
N 57-LA-NAT	1		7.000- 1	9.034+ 0	74 3895	842	TOTAL
57-LA-NAT	1		2.700+ 0	1.320+ 1	54 504	18	TOTAL
N 57-LA-NAT	1		3.340+ 0	5.180+ 0	65 3666	65	TOTAL
57-LA-NAT	1		1.400+ 1	1.400+ 1	52 81	1	TOTAL
57-LA-NAT	1		1.459+ 1	1.560+ 1	58 324	3	TOTAL
57-LA-NAT	5		2.530- 8	2.530- 8	53 2766	1	TOTAL SCATTERING
57-LA-NAT	5		9.800- 1	9.800- 1	63 879	1	TOTAL SCATTERING
57-LA-NAT	11		4.000+ 0	7.000+ 0	63 836	3	N,N'
57-LA-NAT	23		3.000- 2	6.500- 2	63 1	2	N,GAMMA
57-LA-NAT	43		0.000+ 0	0.000+ 0	61 1408	1	COHERENT SCATTERING
57-LA-NAT	43		2.530- 8	2.530- 8	53 2766	1	COHERENT SCATTERING
57-LA-NAT	71		2.500- 8	2.500- 8	50 1794	1	ABSORPTION
57-LA-NAT	71		2.500- 8	2.500- 8	51 882	1	ABSORPTION
57-LA-NAT	71		2.500- 8	2.500- 8	57 2579	1	ABSORPTION
57-LA-NAT	73	7	2.530- 8	2.530- 8	70 2415	157	N,GAMMA
57-LA-NAT	73	10	2.530- 8	2.530- 8	70 2415	19	N,GAMMA
57-LA-NAT	74		2.530- 8	2.530- 8	70 2415	19	N,X GAMMA
57-LA-NAT	102		9.800- 1	9.800- 1	63 879	8	ELASTIC
N 57-LA-NAT	102		1.500+ 0	3.578+ 0	72 3773	64	ELASTIC
57-LA-NAT	102		3.200+ 0	3.200+ 0	66 2950	12	ELASTIC
57-LA-NAT	102		7.000+ 0	7.000+ 0	63 836	1	ELASTIC
57-LA-NAT	105		8.000+ 0	8.000+ 0	68 2113	18	TOTAL SCATTERING
C 57-LA-NAT	521		5.000- 7	1.500+ 1	68 2770	1	ABSORPTION
57-LA-NAT			-3.750- 5	3.955- 3	67 2215	7	RESONANCE PARAMETERS
57-LA-138			2.994- 6	3.580- 4	67 2215	10	RESONANCE PARAMETERS
57-LA-138			3.060- 6	2.130- 5	59 2405	2	RESONANCE PARAMETERS
57-LA-138			3.080- 6	3.560- 4	66 2488	11	RESONANCE PARAMETERS
57-LA-138			2.100- 5	3.570- 4	64 2405	9	RESONANCE PARAMETERS
57-LA-138	1		1.000- 3	1.000- 2	57 154	31	TOTAL
57-LA-138	1		3.000- 2	3.210+ 0	52 80	80	TOTAL
N 57-LA-138	1		1.200- 1	6.400- 1	67 3538	28	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-222 ***

ZA = 57139

07/04/76

ECSIL-76DD REACTION INDEX (REACTION NO. ORDERED)

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	95-AM-243	73	4	2.500-0	2.500-0	66 1977	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	95-AM-243	73	4	2.500-0	2.500-0	69 2099	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	95-ES-253	73	4	2.530-0	2.530-0	73 3522	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	32-GE-70	73	5	2.500-0	2.500-0	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	37-RB-85	73	5	2.500-0	2.500-0	56 2702	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	37-RB-85	73	5	2.500-0	2.500-0	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	37-RB-85	73	5	2.500-0	2.500-0	63 2556	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	38-SR-84	73	5	2.500-0	2.500-0	56 2857	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	38-SR-84	73	5	2.500-0	2.500-0	60 1808	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	41-NB-94	73	5	2.500-0	2.500-0	61 2715	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	47-AG-109	73	5	2.500-0	2.500-0	56 2574	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	47-AG-109	73	5	2.500-0	2.500-0	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	47-AG-109	73	5	2.500-0	2.500-0	68 1964	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	48-CD-108	73	5	2.500-0	2.500-0	62 908	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	49-IN-113	73	5	2.500-0	2.500-0	63 2556	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-112	73	5	2.500-0	2.500-0	50 2740	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-112	73	5	2.500-0	2.500-0	61 2739	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-112	73	5	2.500-0	2.500-0	68 1962	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	51-SB-NAT	73	5	2.500-0	2.500-0	68 2764	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	51-SB-121	73	5	2.500-0	2.500-0	49 2742	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	51-SB-121	73	5	2.500-0	2.500-0	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	51-SB-121	73	5	2.500-0	2.500-0	62 2668	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	51-SB-123	73	5	2.500-0	2.500-0	67 2200	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	51-SB-123	73	5	2.500-0	2.500-0	68 1964	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	51-SB-123	73	5	2.500-0	2.500-0	68 2764	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	52-TE-120	73	5	2.500-0	2.500-0	61 2637	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	52-TE-120	73	5	2.500-0	2.500-0	62 2656	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	52-TE-130	73	5	2.500-0	2.500-0	62 2656	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	54-XE-128	73	5	2.500-0	2.500-0	68 1962	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	54-XE-128	73	5	2.500-0	2.500-0	68 2843	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	54-XE-130	73	5	2.500-0	2.500-0	68 1962	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	54-XE-130	73	5	2.500-0	2.500-0	68 2843	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	54-XE-132	73	5	2.500-0	2.500-0	63 1010	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	54-XE-132	73	5	2.500-0	2.500-0	68 1962	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	54-XE-132	73	5	2.500-0	2.500-0	68 2843	3 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	56-BA-130	73	5	2.500-0	2.500-0	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	56-BA-130	73	5	2.500-0	2.500-0	64 2645	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	58-CE-138	73	5	2.500-0	2.500-0	50 2955	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	58-CE-138	73	5	2.500-0	2.500-0	56 2954	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	58-CE-138	73	5	2.500-0	2.500-0	62 2953	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	61-PH-147	73	5	2.500-0	2.500-0	60 1441	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	61-PH-147	73	5	2.500-0	2.500-0	62 2966	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	61-PH-147	73	5	2.500-0	2.500-0	66 7227	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
C	61-PH-147	73	5	2.530-0	2.530-0	71 3183	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	66-OY-158	73	5	2.500-0	2.500-0	59 2655	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	71-LU-176	73	5	2.500-0	2.500-0	67 2272	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	73-TA-181	73	5	2.500-0	2.500-0	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	74-W-184	73	5	2.500-0	2.500-0	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	76-OS-190	73	5	2.500-0	2.500-0	63 1961	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	77-IR-191	73	5	2.500-0	2.500-0	63 2556	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	77-IR-191	73	5	2.500-0	2.500-0	68 1964	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	78-PT-192	73	5	2.500-0	2.500-0	62 2656	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-223 ***

C = 73

07/04/76

ECL-7600 REACTION INDEX (ZA ORDERED)

ZA = 57139

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
57-LA-139		7.340-	7	1.035-	2	67 2215	52 RESONANCE PARAMETERS
57-LA-139		7.520-	7	7.520-	7	59 2405	3 RESONANCE PARAMETERS
57-LA-139		2.394-	5	1.022-	2	71 3116	125 RESONANCE PARAMETERS
57-LA-139		7.220-	5	9.007-	3	63 1853	16 RESONANCE PARAMETERS
57-LA-139		7.230-	5	3.108-	2	69 2537	171 RESONANCE PARAMETERS
57-LA-139		7.240-	5	3.696-	2	66 814	102 RESONANCE PARAMETERS
57-LA-139		7.350-	5	7.350-	5	57 1967	3 RESONANCE PARAMETERS
57-LA-140	73	2.500-	8	2.500-	8	49 2629	1 N, GAMMA
57-LA-140	73	2.530-	8	2.530-	8	67 3494	1 N, GAMMA
57-LA-140	523	5.400-	7	1.500+	1	67 3494	1 N, GAMMA
58-CE-NAT	1	2.880-	6	3.600-	2	56 511	192 TOTAL
58-CE-NAT	1	2.900-	6	3.410-	5	55 2042	50 TOTAL
58-CE-NAT	1	1.150-	4	3.000-	4	49 844	2 TOTAL
58-CE-NAT	1	5.000-	3	5.600-	2	56 143	59 TOTAL
58-CE-NAT	1	6.000-	2	3.210+	0	52 80	69 TOTAL
58-CE-NAT	1	7.000-	1	9.034+	0	74 3895	642 TOTAL
58-CE-NAT	1	1.013+	0	2.013+	0	69 3310	101 TOTAL
58-CE-NAT	1	1.209+	0	1.788+	0	63 748	24 TOTAL
58-CE-NAT	1	2.260+	0	1.487+	1	67 750	294 TOTAL
58-CE-NAT	1	3.290+	0	5.180+	0	65 3666	67 TOTAL
58-CE-NAT	1	1.314+	1	1.560+	1	58 324	3 TOTAL
58-CE-NAT	1	1.400+	1	1.400+	1	52 81	1 TOTAL
58-CE-NAT	1	1.470+	1	1.470+	1	71 3815	1 TOTAL
58-CE-NAT	1	1.470+	1	1.470+	1	71 3850	1 TOTAL
58-CE-NAT	1	1.750+	1	2.780+	1	60 673	4 TOTAL
58-CE-NAT	2	6.797-	1	8.797-	1	72 3546	1 ELASTIC
58-CE-NAT	2	1.000+	0	1.000+	0	54 103	1 ELASTIC
58-CE-NAT	3	1.000+	0	1.000+	0	54 103	1 NONELASTIC
58-CE-NAT	3	1.480+	1	1.480+	1	67 1656	1 NONELASTIC
58-CE-NAT	5	2.530-	8	2.530-	8	53 2766	1 TOTAL SCATTERING
58-CE-NAT	5	9.800-	1	9.800-	1	63 879	1 TOTAL SCATTERING
58-CE-NAT	11	5.000+	0	7.000+	0	63 836	2 N, N'
58-CE-NAT	23	3.000-	2	6.500-	2	61 677	2 N, GAMMA
58-CE-NAT	23	3.000-	2	6.500-	2	63 1	2 N, GAMMA
58-CE-NAT	23	4.000-	1	4.000-	1	60 674	1 N, GAMMA
58-CE-NAT	24	1.410+	1	1.410+	1	63 1723	1 N, X GAMMA
58-CE-NAT	43	0.000+	0	0.000+	0	61 1408	1 COHERENT SCATTERING
58-CE-NAT	43	2.530-	8	2.530-	8	53 2766	1 COHERENT SCATTERING
58-CE-NAT	71	2.500-	8	2.500-	8	50 1623	1 ABSORPTION
58-CE-NAT	71	2.500-	8	2.500-	8	50 1794	1 ABSORPTION
58-CE-NAT	71	2.500-	8	2.500-	8	51 882	1 ABSORPTION
58-CE-NAT	73	2.530-	8	2.530-	8	70 2415	61 N, GAMMA
58-CE-NAT	73	2.530-	8	2.530-	8	70 2415	14 N, GAMMA
58-CE-NAT	74	2.530-	8	2.530-	8	70 2415	1 N, X GAMMA
58-CE-NAT	102	5.000-	1	1.550+	0	55 1495	3 ELASTIC
58-CE-NAT	102	6.790-	1	1.109+	0	66 1706	498 ELASTIC
58-CE-NAT	102	8.797-	1	8.797-	1	72 3546	8 ELASTIC
58-CE-NAT	102	9.800-	1	9.800-	1	63 879	8 ELASTIC
58-CE-NAT	102	1.000+	0	1.000+	0	54 103	9 ELASTIC
58-CE-NAT	102	1.284+	0	2.182+	0	63 748	530 ELASTIC
58-CE-NAT	102	3.200+	0	3.200+	0	66 2950	12 ELASTIC
58-CE-NAT	102	5.000+	0	5.000+	0	66 1254	13 ELASTIC

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
RESONANCE INTEGRAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-224 ***

ZA = 58000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 58000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
58-CE-NAT	102		7.000+ 0	7.000+ 0	63 836	1	ELASTIC ANGULAR DISTRIBUTION
58-CE-NAT	124	7	3.000+ 0	4.500+ 0	68 1019	12	N,X GAMMA ANGULAR DISTRIBUTION
58-CE-NAT	124	10	3.000+ 0	4.500+ 0	64 1730	39	N,X GAMMA ANGULAR DISTRIBUTION
58-CE-NAT	124	90	3.000+ 0	4.500+ 0	68 1019	39	N,X GAMMA ANGULAR DISTRIBUTION
N 58-CE-NAT	311	30	1.410+ 1	1.410+ 1	65 1932	50	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
C 58-CE-NAT	521		4.900- 7	1.500+ 1	57 1054	1	ABSORPTION RESONANCE INTEGRAL
58-CE-NAT	606		1.480+ 1	1.480+ 1	66 1042	12	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
58-CE-NAT			1.410+ 1	1.410+ 1	66 1932	1	NUCLEAR TEMPERATURE
58-CE-NAT			1.480+ 1	1.480+ 1	67 2897	2	NUCLEAR TEMPERATURE
58-CE-136	12		1.440+ 1	1.440+ 1	69 2837	1	N,2N
58-CE-136	12		1.480+ 1	1.480+ 1	72 3832	1	N,2N
58-CE-136	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA
58-CE-136	73	4	2.500- 8	2.500- 8	55 2952	1	N,GAMMA
58-CE-136	12	4	1.480+ 1	1.480+ 1	72 3832	1	N,2N
58-CE-136	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA
58-CE-136	73	2	2.500- 8	2.500- 8	56 2954	1	N,GAMMA
58-CE-136	73	2	2.500- 8	2.500- 8	62 2953	1	N,GAMMA
58-CE-136	73	5	2.500- 8	2.500- 8	50 2955	1	N,GAMMA
58-CE-136	73	5	2.500- 8	2.500- 8	56 2954	1	N,GAMMA
58-CE-136	73	5	2.500- 8	2.500- 8	62 2953	1	N,GAMMA
N 58-CE-136	224	80	2.500- 8	2.500- 8	69 4080	3	N,X GAMMA
58-CE-140	1		1.000- 3	6.000- 2	59 534	101	TOTAL
58-CE-140	5		2.530- 8	2.530- 8	53 2766	1	TOTAL SCATTERING
58-CE-140	11	1	1.613+ 0	2.192+ 0	62 597	44	N,N'
58-CE-140	12		1.400+ 1	1.400+ 1	65 2216	1	N,2N
58-CE-140	12		1.440+ 1	1.440+ 1	69 2837	1	N,2N
58-CE-140	12		1.450+ 1	1.450+ 1	67 2401	1	N,2N
58-CE-140	12		1.470+ 1	1.470+ 1	61 670	1	N,2N
58-CE-140	12		1.470+ 1	1.470+ 1	68 1718	1	N,2N
58-CE-140	12		1.490+ 1	1.480+ 1	68 2762	1	N,2N
58-CE-140	12	2	1.288+ 1	1.690+ 1	86 1768	19	N,2N
58-CE-140	12	2	1.410+ 1	1.410+ 1	61 651	1	N,2N
58-CE-140	12	2	1.450+ 1	1.450+ 1	67 2401	1	N,2N
58-CE-140	12	2	1.460+ 1	1.450+ 1	69 2987	1	N,2N
58-CE-140	12	2	1.470+ 1	1.470+ 1	61 670	1	N,2N
58-CE-140	12	2	1.480+ 1	1.480+ 1	60 672	1	N,2N
58-CE-140	12	2	1.480+ 1	1.480+ 1	66 1901	1	N,2N
N 58-CE-140	12	2	1.480+ 1	1.480+ 1	72 3832	2	N,2N
N 58-CE-140	12	2	1.480+ 1	1.480+ 1	75 3577	1	N,2N
N 58-CE-140	12	5	1.480+ 1	1.480+ 1	75 3577	1	N,2N
58-CE-140	23		2.400- 2	2.400- 2	57 305	1	N,GAMMA
58-CE-140	24	7	1.929+ 0	2.075+ 0	62 597	10	N,X GAMMA
58-CE-140	26		1.400+ 1	1.400+ 1	65 2216	1	N,P
58-CE-140	26		1.450+ 1	1.450+ 1	59 550	1	N,P
58-CE-140	26		1.480+ 1	1.480+ 1	60 672	1	N,P
N 58-CE-140	26		1.480+ 1	1.480+ 1	72 3832	1	N,P
58-CE-140	26	4	1.440+ 1	1.440+ 1	70 3433	1	N,P
58-CE-140	34		1.500+ 1	1.500+ 1	67 1892	1	N,ALPHA
58-CE-140	34	2	1.335+ 1	1.665+ 1	66 1768	15	N,ALPHA
58-CE-140	34	3	1.450+ 1	1.450+ 1	53 27	1	N,ALPHA
58-CE-140	34	3	1.480+ 1	1.480+ 1	60 672	1	N,ALPHA
58-CE-140	43		2.530- 8	2.530- 8	53 2766	1	COHERENT SCATTERING

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-225 ***

ZA = 53140

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 58140

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
58-CE-140	73		2.530-8	2.500-8	49 2629	1	N, GAMMA
58-CE-140	73		2.500-8	2.500-8	52 342	1	N, GAMMA
58-CE-140	73		2.500-8	2.500-8	64 2956	1	N, GAMMA
58-CE-140	86		2.500-8	2.500-8	67 3350	1	ACTIVATION
58-CE-140	124	7	1.750+0	2.098-0	68 1019	2	N, X GAMMA
58-CE-140	224	80	2.500-8	2.500-8	69 4080	2	N, X GAMMA
58-CE-140	521		5.000+7	1.500+1	64 2956	1	ABSORPTION
58-CE-140	523		5.000+7	1.500+1	69 3680	1	N, GAMMA
58-CE-140	523		6.000+7	1.500+1	68 2426	1	N, GAMMA
58-CE-140	536		4.000+7	1.000+0	67 3350	1	ACTIVATION
58-CE-140	862	2	1.480+1	1.480+1	75 3577	1	N, 2N
58-CE-140			0.000+0	2.000-1	61 737	1	AVERAGE RESONANCE PARAMETERS
58-CE-141	71		2.500-8	2.500-8	64 2956	1	ABSORPTION
58-CE-142	1		2.000-4	6.000-2	59 534	118	TOTAL
58-CE-142	5		2.530-8	2.530-8	53 2766	1	TOTAL SCATTERING
58-CE-142	12		1.254+1	1.956+1	67 2888	10	N, 2N
58-CE-142	12		1.400+1	1.400+1	65 2216	1	N, 2N
58-CE-142	12		1.440+1	1.440+1	69 2837	1	N, 2N
58-CE-142	12		1.470+1	1.470+1	68 1718	1	N, 2N
58-CE-142	12		1.480+1	1.480+1	60 672	1	N, 2N
58-CE-142	12		1.480+1	1.480+1	68 2762	1	N, 2N
58-CE-142	12		1.480+1	1.480+1	72 3832	1	N, 2N
58-CE-142	14		1.450+1	1.450+1	59 625	1	N, N'P
58-CE-142	23		2.400-2	2.400-2	57 305	1	N, GAMMA
58-CE-142	23		2.400-2	2.400-2	66 1788	1	N, GAMMA
58-CE-142	23		1.950-1	1.950-1	59 526	1	N, GAMMA
58-CE-142	23		3.000+0	3.000+0	67 1991	1	N, GAMMA
58-CE-142	23		1.450+1	1.450+1	57 521	1	N, GAMMA
58-CE-142	26		1.400+1	1.400+1	65 2216	1	N, P
58-CE-142	26		1.450+1	1.450+1	59 550	1	N, P
58-CE-142	26		1.480+1	1.480+1	60 672	1	N, P
58-CE-142	34		1.400+1	1.400+1	65 2216	1	N, ALPHA
58-CE-142	34		1.440+1	1.440+1	70 3433	1	N, ALPHA
58-CE-142	34		1.450+1	1.450+1	59 550	1	N, ALPHA
58-CE-142	34		1.480+1	1.480+1	60 672	1	N, ALPHA
58-CE-142	34		1.480+1	1.480+1	68 4071	1	N, ALPHA
58-CE-142	34		1.480+1	1.480+1	72 3832	1	N, ALPHA
58-CE-142	43		2.530-8	2.530-8	53 2766	1	COHERENT SCATTERING
58-CE-142	73		2.500-8	2.500-8	49 2629	1	N, GAMMA
58-CE-142	73		2.500-8	2.500-8	52 342	1	N, GAMMA
58-CE-142	73		2.500-8	2.500-8	56 2625	1	N, GAMMA
58-CE-142	73		2.500-8	2.500-8	60 909	1	N, GAMMA
58-CE-142	86		2.500-8	2.500-8	67 3350	1	ACTIVATION
58-CE-142	124	7	8.000-1	1.750+0	68 1019	7	N, X GAMMA
58-CE-142	124	87	9.960-1	1.750+0	68 1019	12	N, X GAMMA
58-CE-142	224	80	2.500-8	2.500-8	69 4080	4	N, X GAMMA
58-CE-142	523		6.000+7	1.500+1	68 2426	1	N, GAMMA
58-CE-142	536		4.000+7	1.000+0	67 3350	1	ACTIVATION
58-CE-142	876		1.400+1	1.400+1	57 930	1	N, P
58-CE-142			0.000+0	2.000-1	61 737	1	AVERAGE RESONANCE PARAMETERS
58-CE-142			1.290-3	4.380-3	70 4024	1	AVERAGE RESONANCE PARAMETERS
58-CE-142			1.290-3	4.380-3	70 4024	6	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-226 ***

ZA = 58142

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 58143

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION		
58-CE-143	73		2.500-	8	2.500-	8	56 2624	1	N, GAMMA
58-CE-144	73		2.500-	8	2.500-	8	62 2957	1	N, GAMMA
C 58-CE-144	523		5.000-	7	1.500+	1	62 2837	1	N, GAMMA
59-PR-141	1		1.750-	9	9.700-	7	63 2221	33	TOTAL
N 59-PR-141	1		2.550-	9	9.700-	7	67 2256	33	TOTAL
59-PR-141	1		1.700-	8	8.340-	6	66 1989	156	TOTAL
59-PR-141	1		4.630-	6	2.817-	2	55 2027	211	TOTAL
59-PR-141	1		7.970-	4	2.390-	2	56 511	18	TOTAL
N 59-PR-141	1		1.240-	2	2.395-	1	71 3751	47	TOTAL
59-PR-141	1		5.000-	2	3.210+	0	52 80	77	TOTAL
N 59-PR-141	1		7.003-	1	9.065+	0	74 3895	646	TOTAL
59-PR-141	1		1.004+	0	2.004+	0	69 3310	101	TOTAL
59-PR-141	1		2.335+	0	1.486+	1	67 750	246	TOTAL
N 59-PR-141	1		3.320+	0	5.990+	0	65 3656	68	TOTAL
N 59-PR-141	1		3.775+	0	1.802+	1	73 3966	20	TOTAL
59-PR-141	1		4.531+	0	7.514+	0	67 1747	60	TOTAL
N 59-PR-141	1		1.336+	1	1.348+	1	70 3968	2	TOTAL
59-PR-141	1		1.400+	1	1.400+	1	52 81	1	TOTAL
59-PR-141	2		2.320-	1	1.571+	0	69 2693	0	ELASTIC
59-PR-141	2		2.788-	1	8.788-	1	72 3546	1	ELASTIC
59-PR-141	5		2.530-	8	2.530-	8	53 2766	1	TOTAL SCATTERING
N 59-PR-141	5		2.530-	8	2.530-	8	67 2256	1	TOTAL SCATTERING
59-PR-141	5		9.800-	1	9.800-	1	63 879	1	TOTAL SCATTERING
59-PR-141	11	1	1.290+	0	1.870+	0	65 2217	11	N, N'
59-PR-141	12		1.220+	1	1.810+	1	62 770	8	N, 2N
59-PR-141	12		1.230+	1	1.780+	1	63 2176	20	N, 2N
59-PR-141	12		1.241+	1	1.798+	1	59 602	6	N, 2N
59-PR-141	12		1.278+	1	1.942+	1	68 2891	10	N, 2N
59-PP-141	12		1.413+	1	1.413+	1	62 109	1	N, 2N
59-PR-141	12		1.440+	1	1.440+	1	61 676	1	N, 2N
59-PR-141	12		1.440+	1	1.750+	1	60 647	2	N, 2N
59-PR-141	12		1.450+	1	1.450+	1	53 27	1	N, 2N
59-PR-141	12		1.450+	1	1.450+	1	67 2401	1	N, 2N
59-PR-141	12		1.480+	1	1.480+	1	60 672	1	N, 2N
59-PR-141	12		1.480+	1	1.480+	1	61 703	1	N, 2N
N 59-PR-141	12		1.480+	1	1.480+	1	72 3832	1	N, 2N
N 59-PR-141	12		1.480+	1	1.480+	1	75 3562	1	N, 2N
59-PR-141	12		1.500+	1	1.500+	1	58 2369	1	N, 2N
N 59-PR-141	12	3	1.450+	1	1.460+	1	73 3988	1	N, 2N
59-PR-141	13		1.819+	1	1.950+	1	68 2892	6	N, 3N
59-PR-141	13	3	1.819+	1	1.950+	1	67 1893	6	N, 3N
59-PR-141	21		2.530-	8	2.530-	8	63 2221	1	ABSORPTION
N 59-PR-141	23		2.530-	8	2.530-	8	47 888	1	N, GAMMA
59-PR-141	23		2.530-	8	2.530-	8	67 2256	1	N, GAMMA
59-PR-141	23		2.200-	5	4.000-	2	63 1950	73	N, GAMMA
59-PR-141	23		1.100-	2	1.670-	1	61 677	48	N, GAMMA
59-PR-141	23		2.100-	2	2.100-	2	57 23	1	N, GAMMA
59-F-141	23		2.400-	2	2.400-	2	57 305	1	N, GAMMA
59-f-141	23		2.400-	2	2.400-	2	66 1788	1	N, GAMMA
59-PR-141	23		2.500-	2	1.950-	1	59 526	2	N, GAMMA
59-PR-141	23		3.000-	2	6.500-	2	63 1	2	N, GAMMA
59-PR-141	23		1.700-	1	2.000+	0	59 663	4	N, GAMMA

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
RESONANCE INTEGRAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-227 ***

ZA = 59141

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 59141

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
59-PR-141			8.550-5	1.800-3	56 2538	20	RESONANCE PARAMETERS
59-PR-141			4.110-4	5.724-3	69 2537	93	RESONANCE PARAMETERS
59-PR-141			9.810-4	2.940-3	61 3032	20	RESONANCE PARAMETERS
59-PR-142	73		2.500-8	2.500-8	55 2628	1	N,GAMMA
59-PR-143	23		2.530-8	2.530-8	59 2957	1	N,GAMMA
59-PR-143	73		2.500-8	2.500-8	58 1163	1	N,GAMMA
59-PR-143	523		5.000-7	1.500+1	59 2957	1	N,GAMMA
C							SPECTRUM AVERAGED CROSS SECTION
N							SPECTRUM AVERAGED CROSS SECTION
60-ND-NAT	1		3.300-8	2.100-7	70 3627	4	TOTAL
60-ND-NAT	1		5.210-7	9.000-5	58 903	40	TOTAL
60-ND-NAT	1		9.600-7	1.259-2	58 512	448	TOTAL
60-ND-NAT	1		4.590-8	2.817-2	55 2027	95	TOTAL
60-ND-NAT	1		4.108-3	4.457-5	55 520	10	TOTAL
60-ND-NAT	1		2.000-3	6.400-1	65 922	103	TOTAL
60-ND-NAT	1		3.000-3	2.950-1	59 508	82	TOTAL
60-ND-NAT	1		5.000-2	2.900+0	53 101	22	TOTAL
N							SPECTRUM AVERAGED CROSS SECTION
60-ND-NAT	1		7.003-1	9.065+0	74 3895	646	TOTAL
60-ND-NAT	1		2.359+0	1.497+1	67 750	244	TOTAL
60-ND-NAT	1		1.314+1	1.560+1	58 324	3	TOTAL
60-ND-NAT	3		5.000+3	5.000+3	61 1566	1	NONELASTIC
60-ND-NAT	5		2.530-8	2.530-8	53 2766	1	TOTAL SCATTERING
60-ND-NAT	5		9.800-1	9.800-1	63 879	1	TOTAL SCATTERING
60-ND-NAT	21		2.530-8	2.530-8	60 891	1	ABSORPTION
N							SPECTRUM AVERAGED CROSS SECTION
60-ND-NAT	23		2.530-8	2.700-7	70 3627	5	N,GAMMA
60-ND-NAT	43		2.530-8	2.530-8	53 2756	1	COHERENT SCATTERING
60-ND-NAT	71		2.500-8	2.500-8	50 1794	1	ABSORPTION
60-ND-NAT	71		2.500-8	2.500-8	51 892	1	ABSORPTION
60-ND-NAT	71		2.500-8	2.500-7	52 1621	1	ABSORPTION
60-ND-NAT	73	7	2.530-8	2.530-8	70 2415	130	N,GAMMA
60-ND-NAT	73	10	2.530-8	2.530-8	70 2415	28	N,GAMMA
60-ND-NAT	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA
60-ND-NAT	102		9.800-1	9.800-1	63 879	8	ELASTIC
N							ANNUAL DISTRIBUTION
60-ND-NAT	224	80	2.500-8	2.500-8	68 4079	95	N,X GAMMA
C							ENERGY DISTRIBUTION
60-ND-NAT	521		5.000-7	1.500+1	68 2770	1	ABSORPTION
N							RESONANCE INTEGRAL
60-ND-NAT			0.000+0	2.000-3	71 3607	2	AVERAGE RESONANCE PARAMETERS
60-ND-NAT			3.000-3	6.500-1	64 1226	3	AVERAGE RESONANCE PARAMETERS
60-ND-NAT			-1.400-5	-1.400-5	58 903	1	RESONANCE PARAMETERS
60-ND-NAT			4.330-6	4.330-6	69 3011	1	RESONANCE PARAMETERS
60-ND-NAT			6.628-4	1.139-3	69 1817	31	RESONANCE PARAMETERS
N							SPECTRUM AVERAGED CROSS SECTION
60-ND-142	1		1.000-4	3.202-2	71 3604	10457	TOTAL
60-ND-142	5		2.530-8	2.530-8	53 2786	1	TOTAL SCATTERING
60-ND-142	12		1.440+1	1.440+1	61 676	1	N,2N
60-ND-142	12		1.450+1	1.450+1	67 2401	1	N,2N
60-ND-142	12		1.470+1	1.470+1	61 670	1	N,2N
60-ND-142	12		1.470+1	1.470+1	66 2222	1	N,2N
60-ND-142	12		1.470+1	1.470+1	68 1718	1	N,2N
60-ND-142	12		1.480+1	1.480+1	60 672	1	N,2N
N							SPECTRUM AVERAGED CROSS SECTION
60-ND-142	12		1.480+1	1.480+1	72 3832	1	N,2N
60-ND-142	12	2	1.420+1	1.420+1	69 2334	1	N,2N
60-ND-142	12	2	1.450+1	1.450+1	67 2401	1	N,2N
60-ND-142	12	2	1.450+1	1.450+1	69 2987	1	N,2N
60-ND-142	12	2	1.460+1	1.460+1	65 2120	1	N,2N
60-ND-142	12	2	1.470+1	1.470+1	61 670	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-229 ***

ZA = 60142

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 60142

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	60-ND-142	12	2	1.480+ 1	1.480+ 1	72 3832	1	N,2N
	60-ND-142	12	4	1.420+ 1	1.420+ 1	69 2334	1	N,2N
	60-ND-142	26		1.450+ 1	1.450+ 1	59 550	1	N,P
N	60-ND-142	34		1.480+ 1	1.480+ 1	72 3832	1	N,ALPHA
	60-ND-142	34		1.500+ 1	1.500+ 1	67 1892	1	N,ALPHA
	60-ND-142	34	2	1.480+ 1	1.480+ 1	60 672	1	N,ALPHA
	60-ND-142	34	5	1.480+ 1	1.480+ 1	60 672	1	N,ALPHA
	60-ND-142	43		2.530- 8	2.530- 8	53 2766	1	COHERENT SCATTERING
	60-ND-142	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
C	60-ND-142			0.000+ 0	6.300- 3	67 2204	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-142			0.000+ 0	3.100- 2	71 3607	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-142			2.186- 4	3.105- 2	71 3607	111	RESONANCE PARAMETERS
	60-ND-142			1.685- 3	9.987- 3	67 2204	14	RESONANCE PARAMETERS
N	60-ND-143	1		6.519- 5	3.003- 2	71 3604	11195	TOTAL
	60-ND-143	2		2.530- 8	2.530- 8	58 439	1	ELASTIC
	60-ND-143	21		2.530- 8	2.530- 8	58 1162	1	ABSORPTION
	60-ND-143	21		2.530- 8	2.530- 8	60 897	1	ABSORPTION
	60-ND-143	23		2.530- 8	2.530- 8	58 439	1	N,GAMMA
	60-ND-143	26		1.450+ 1	1.450+ 1	59 550	1	N,P
N	60-ND-143	34	1	2.530- 8	2.530- 8	70 3771	1	N,ALPHA
	60-ND-143	71		2.500- 8	2.500- 8	49 2959	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
	60-ND-143			2.500- 8	2.500- 8	53 2958	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
	60-ND-143	71		2.500- 8	2.500- 8	57 2579	1	ABSORPTION SPECTRUM AVERAGED CROSS SECTION
	60-ND-143	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	60-ND-143	84		2.500- 8	2.500- 8	62 2455	1	N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	60-ND-143	84	1	2.530- 8	2.530- 8	74 3999	5	N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	60-ND-143	224	80	2.500- 8	2.500- 8	68 4079	3	N,X GAMMA ENERGY DISTRIBUTION
N	60-ND-143	224	80	4.800- 8	4.800- 8	68 3705	15	N,X GAMMA ENERGY DISTRIBUTION
N	60-ND-143	234		2.530- 8	2.530- 8	65 2223	3	N,ALPHA ENERGY DISTRIBUTION
C	60-ND-143			0.000+ 0	9.400- 1	67 2204	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-143			0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N	60-ND-143			0.000+ 0	5.500- 3	71 3607	7	AVERAGE RESONANCE PARAMETERS
C	60-ND-143			4.000- 6	7.300- 4	69 1817	1	AVERAGE RESONANCE PARAMETERS
C	60-ND-143			5.500- 5	7.100- 4	71 3123	2	AVERAGE RESONANCE PARAMETERS
	60-ND-143			-6.000- 6	6.580- 4	71 3135	36	RESONANCE PARAMETERS
N	60-ND-143			-6.000- 6	-6.000- 6	58 439	2	RESONANCE PARAMETERS
	60-ND-143			-6.000- 6	7.050- 4	70 3070	16	RESONANCE PARAMETERS
	60-ND-143			-1.500- 6	-1.500- 6	57 337	1	RESONANCE PARAMETERS
	60-ND-143			5.499- 5	5.523- 4	69 3011	18	RESONANCE PARAMETERS
	60-ND-143			5.529- 5	6.577- 4	69 1817	25	RESONANCE PARAMETERS
	60-ND-143			5.530- 5	1.273- 4	63 1853	11	RESONANCE PARAMETERS
N	60-ND-143			5.530- 5	5.503- 3	71 3607	353	RESONANCE PARAMETERS
	60-ND-143			5.537- 5	2.004- 3	71 3123	89	RESONANCE PARAMETERS
	60-ND-143			5.540- 5	1.310- 3	67 2204	48	RESONANCE PARAMETERS
N	60-ND-143			5.540- 5	8.450- 4	72 3252	23	RESONANCE PARAMETERS
	60-ND-143			5.550- 5	4.100- 4	66 2881	10	RESONANCE PARAMETERS
	60-ND-143			5.600- 5	1.930- 4	62 2019	5	RESONANCE PARAMETERS
N	60-ND-143			5.600- 5	1.903- 4	62 3033	7	RESONANCE PARAMETERS
	60-ND-143			5.630- 5	1.900- 4	56 2486	8	RESONANCE PARAMETERS
N	60-ND-144	1		9.002- 5	2.937- 2	71 3604	9337	TOTAL
	60-ND-144	5		2.530- 8	2.530- 8	53 2766	1	TOTAL SCATTERING
	60-ND-144	34		1.420+ 1	1.420+ 1	69 2334	1	N,ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-230 ***

ZA = 60144

07/04/78

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 60144

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
60-ND-144	43		2.530-8	2.530-8	53 2766	1	COHERENT SCATTERING
60-ND-144	73		2.500-8	2.500-8	52 342	1	N,GAMMA
N 60-ND-144	224 80		2.500-3	2.500-8	68 4079	25	N,X GAMMA
60-ND-144			0.000+0	7.000-3	67 2234	2	AVERAGE RESONANCE PARAMETERS
N 60-ND-144			0.000+0	1.940-2	71 3607	2	AVERAGE RESONANCE PARAMETERS
N 60-ND-144			3.738-4	1.941-2	71 3607	111	RESONANCE PARAMETERS
60-ND-144			3.740-4	1.354-2	67 2204	22	RESONANCE PARAMETERS
60-ND-144			7.338-4	7.338-4	69 1817	3	RESONANCE PARAMETERS
60-ND-145	1		2.530-8	2.530-8	58 2720	1	TOTAL
60-ND-145	1		3.063-5	2.504-2	71 3604	13803	TOTAL
60-ND-145	21		2.530-8	2.530-8	58 2720	1	ABSORPTION
60-ND-145	21		2.530-8	2.530-8	60 897	1	ABSORPTION
N 60-ND-145	34 1		2.530-8	2.530-8	70 3771	2	N,ALPHA
60-ND-145	71		2.500-8	2.500-8	53 2958	1	ABSORPTION
60-ND-145	73		2.500-8	2.500-8	52 342	1	N,GAMMA
N 60-ND-145	224 80		2.500-8	2.500-8	68 4079	2	N,X GAMMA
N 60-ND-145	224 80		4.800-8	4.800-8	68 3705	16	N,X GAMMA
C 60-ND-145	521		5.000-7	1.500+1	60 897	1	ABSORPTION
N 60-ND-145			0.000+0	6.630-4	72 3252	4	AVERAGE RESONANCE PARAMETERS
N 60-ND-145			0.000+0	1.030-3	67 2204	2	AVERAGE RESONANCE PARAMETERS
N 60-ND-145			0.000+0	2.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N 60-ND-145			0.000+0	4.650-3	71 3607	9	AVERAGE RESONANCE PARAMETERS
C 60-ND-145			4.000-6	7.300-4	69 1817	1	AVERAGE RESONANCE PARAMETERS
C 60-ND-145			4.200-5	3.100-4	71 3123	2	AVERAGE RESONANCE PARAMETERS
60-ND-145			4.300-6	4.050-4	71 3135	44	RESONANCE PARAMETERS
60-ND-145			4.300-6	6.630-4	72 3252	36	RESONANCE PARAMETERS
60-ND-145			4.340-6	1.036-4	63 1853	23	RESONANCE PARAMETERS
60-ND-145			4.340-6	6.480-4	69 1817	44	RESONANCE PARAMETERS
60-ND-145			4.360-6	1.020-4	70 3070	6	RESONANCE PARAMETERS
60-ND-145			4.370-6	9.600-5	57 1967	7	RESONANCE PARAMETERS
60-ND-145			4.400-6	1.030-4	62 2019	5	RESONANCE PARAMETERS
60-ND-145			4.228-5	5.657-4	69 3011	22	RESONANCE PARAMETERS
N 60-ND-145			4.251-5	4.637-3	71 3607	599	RESONANCE PARAMETERS
60-ND-145			4.260-5	1.010-3	67 2204	64	RESONANCE PARAMETERS
60-ND-145			4.277-5	1.494-3	71 3123	126	RESONANCE PARAMETERS
N 60-ND-146	1		3.001-5	4.983-3	71 3604	10989	TOTAL
60-ND-146	5		2.530-8	2.530-8	53 2766	1	TOTAL SCATTERING
N 60-ND-146	23		2.500-2	2.500-2	70 3970	1	N,GAMMA
N 60-ND-146	26		1.480+1	1.480+1	72 3832	1	N,P
60-ND-146	34		1.450+1	1.450+1	59 550	1	N,ALPHA
60-ND-146	34		1.480+1	1.480+1	60 672	1	N,ALPHA
60-ND-146	43		2.530-8	2.530-8	53 2766	1	COHERENT SCATTERING
60-ND-146	73		2.500-8	2.500-8	52 342	1	N,GAMMA
60-ND-146	86		2.500-8	2.500-8	67 3350	1	ACTIVATION
N 60-ND-146	224 80		2.500-8	2.500-8	68 4079	11	N,X GAMMA
N 60-ND-146	523		5.000-7	1.500+1	69 3680	1	N,GAMMA
N 60-ND-146	523		6.000-7	1.500+1	73 3959	1	N,GAMMA
N 60-ND-146	523 80		6.000-7	1.500+1	73 3959	1	N,GAMMA
C 60-ND-146	536		4.000-7	1.000+0	67 3350	1	ACTIVATION
60-ND-146			0.000+0	0.000+0	70 3970	1	AVERAGE RESONANCE PARAMETERS
N 60-ND-146			0.000+0	4.000-3	67 2204	2	AVERAGE RESONANCE PARAMETERS
N 60-ND-146			0.000+0	1.800-2	71 3607	2	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-231 ***

ZA = 60146

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 60146

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	60-ND-14F		3.595- 4	3.104- 2	71 3607	161	RESONANCE PARAMETERS
	60-ND-146		3.610- 4	6.723- 3	67 2204	35	RESONANCE PARAMETERS
N	60-ND-148		4.000- 5	1.119- 2	71 3604	11853	TOTAL
	60-ND-148 12		1.420+ 1	1.420+ 1	69 2334	1	N,2N
	60-ND-148 12		1.480+ 1	1.480+ 1	60 672	1	N,2N
N	60-ND-148 12		1.480+ 1	1.480+ 1	72 3832	1	N,2N
	60-ND-148 23		2.400- 2	2.400- 2	68 2856	1	N,GAMMA
N	60-ND-148 23		2.500- 2	2.500- 2	70 3970	1	N,GAMMA
	60-ND-148 23		1.800- 1	2.700- 0	59 663	14	N,GAMMA
	60-ND-148 26		1.480+ 1	1.480+ 1	60 672	1	N,P
	60-ND-148 34		1.480+ 1	1.480+ 1	60 672	1	N,ALPHA
	60-ND-148 71		2.500- 8	2.500- 8	53 2958	1	ABSORPTION
	60-ND-148 73		2.500- 8	2.500- 8	52 342	1	N,GAMMA
	60-ND-148 73		2.500- 8	2.500- 8	64 2224	2	N,GAMMA
	60-ND-148 86		2.500- 8	2.500- 8	67 3350	1	ACTIVATION
C	60-ND-148 523		5.000- 7	1.500+ 1	64 2224	1	N,GAMMA
N	60-ND-148 523		6.000- 7	1.500+ 1	73 3959	1	N,GAMMA
N	60-ND-148 523 80		6.000- 7	1.500+ 1	73 3959	1	N,GAMMA
C	60-ND-148 536		4.000- 7	1.000+ 0	67 3350	1	ACTIVATION
N	60-ND-148		0.000+ 0	0.000+ 0	70 3970	1	AVERAGE RESONANCE PARAMETERS
N	60-ND-148		0.000+ 0	4.500- 3	67 2204	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-148		0.000+ 0	1.200- 2	71 3607	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-148		2.490- 5	2.305- 2	71 3607	248	RESONANCE PARAMETERS
	60-ND-148		1.544- 4	2.849- 4	69 3011	3	RESONANCE PARAMETERS
	60-ND-148		1.550- 4	0.781- 3	67 2204	58	RESONANCE PARAMETERS
	60-ND-148		1.551- 4	7.149- 4	69 1817	8	RESONANCE PARAMETERS
N	60-ND-150 1		1.835- 5	1.400- 2	71 3604	14580	TOTAL
	60-ND-150 12		1.450+ 1	1.450+ 1	67 2401	1	N,2N
	60-ND-150 12		1.480+ 1	1.480+ 1	60 672	1	N,2N
N	60-ND-150 12		1.480+ 1	1.480+ 1	72 3832	1	N,2N
	60-ND-150 23		2.400- 2	2.400- 2	68 2856	1	N,GAMMA
N	60-ND-150 23		2.500- 2	2.500- 2	70 3970	1	N,GAMMA
	60-ND-150 23		1.800- 1	2.700+ 0	59 663	14	N,GAMMA
	60-ND-150 73		2.500- 8	2.500- 8	52 342	1	N,GAMMA
	60-ND-150 73		2.500- 8	2.500- 8	59 2655	1	N,GAMMA
	60-ND-150 86		2.500- 8	2.500- 8	67 3350	1	ACTIVATION
N	60-ND-150 523		6.000- 7	1.500+ 1	73 3959	1	N,GAMMA
C	60-ND-150 536		4.000- 7	1.000+ 0	67 3350	1	ACTIVATION
N	60-ND-150		0.000+ 0	0.000+ 0	70 3970	1	AVERAGE RESONANCE PARAMETERS
N	60-ND-150		0.000+ 0	4.000- 3	67 2204	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-150		0.000+ 0	1.400- 2	71 3607	2	AVERAGE RESONANCE PARAMETERS
	60-ND-150		7.833- 5	7.833- 5	69 3011	1	RESONANCE PARAMETERS
	60-ND-150		7.874- 5	4.864- 4	69 1817	3	RESONANCE PARAMETERS
N	60-ND-150		7.882- 5	2.473- 2	71 3607	265	RESONANCE PARAMETERS
	60-ND-150		7.890- 5	3.845- 3	67 2204	38	RESONANCE PARAMETERS
	ND203		1.440- 6	1.440- 6	65 949	1	TOTAL
	61-PH-145 73		2.500- 8	2.500- 8	67 2225	1	N,GAMMA
N	61-PH-147 1		7.000- 8	7.000- 8	72 3545	1	TOTAL
	61-PH-147 1		2.530- 2	2.530- 2	71 3253	1	TOTAL
	61-PH-147 1		2.495+ 0	1.484+ 1	67 750	229	TOTAL
	61-PH-147 21		2.530- 8	2.530- 8	58 2965	1	ABSORPTION
	61-PH-147 27 5		1.000- 5	1.000- 5	2 66 2227	2	N,GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 61147

07/04/76

EGSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 61147

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	61-PM-147	71	2.500-8	2.500-8	57 2226	1	ABSORPTION
	61-PM-147	71	2.500-8	2.500-8	58 2609	1	ABSORPTION
N	61-PM-147	73	2.530-8	2.530-8	70 3930	1	N,GAMMA
	61-PM-147	73	2.500-8	2.500-8	60 1441	2	N,GAMMA
	61-PM-147	73	2.500-8	2.500-8	62 2966	2	N,GAMMA
	61-PM-147	73	2.500-8	2.500-8	66 2227	2	N,GAMMA
C	61-PM-147	73	2.530-8	2.530-8	71 3183	2	N,GAMMA
C	61-PM-147	523	5.000-7	1.500-1	60 1441	2	N,GAMMA
C	61-PM-147	523	5.000-7	1.500-1	62 2966	2	N,GAMMA
C	61-PM-147		0.000-0	1.000-4	71 2944	2	AVERAGE RESONANCE PARAMETERS
C	61-PM-147		0.000-0	1.000-4	73 3253	2	AVERAGE RESONANCE PARAMETERS
C	61-PM-147		1.000-6	5.000-9	59 944	2	AVERAGE RESONANCE PARAMETERS
	61-PM-147		-1.600-6	2.412-4	71 2944	42	RESONANCE PARAMETERS
N	61-PM-147		-1.600-6	3.105-4	73 3253	78	RESONANCE PARAMETERS
	61-PM-147		-1.200-6	1.920-4	69 2804	45	RESONANCE PARAMETERS
	61-PM-147		1.040-6	5.030-5	59 944	20	RESONANCE PARAMETERS
C	61-PM-147		5.360-6	6.920-6	71 3253	6	RESONANCE PARAMETERS
	61-PM-148	1	2.500-8	2.500-8	69 2772	1	TOTAL
	61-PM-148	23	1.000-5	1.000-5	66 2227	1	N,GAMMA
	61-PM-148	71	2.500-8	2.500-8	1 63 2978	1	ABSORPTION
	61-PM-148	73	2.500-8	2.500-8	62 2966	1	N,GAMMA
	61-PM-148	73	2.500-8	2.500-8	66 2227	1	N,GAMMA
C	61-PM-148		1.690-7	1.690-7	71 3253	2	RESONANCE PARAMETERS
	61-PM-148		1.710-7	7.500-6	69 2772	3	RESONANCE PARAMETERS
	61-PM-149	71	2.500-8	2.500-8	69 2760	1	ABSORPTION
	61-PM-149	73	2.500-8	2.500-8	65 2228	1	N,GAMMA
N	61-PM-148G	23	2.530-8	2.530-8	69 3746	1	N,GAMMA
	61-PM-148G	71	2.500-8	2.500-8	1 63 2978	1	ABSORPTION
	61-PM-148G	73	2.500-8	2.500-8	62 2966	1	N,GAMMA
N	61-PM-148G		1.690-7	1.690-7	73 3253	1	RESONANCE PARAMETERS
	62-SM-NAT	1	2.000-10	2.000-9	61 878	8	TOTAL
	62-SM-NAT	1	8.454-10	2.002-7	65 1877	67	TOTAL
	62-SM-NAT	1	5.000-9	9.550-7	54 2396	40	TOTAL
	62-SM-NAT	1	5.000-9	9.550-7	54 2397	40	TOTAL
N	62-SM-NAT	1	6.210-8	9.510-7	68 3658	45	TOTAL
	62-SM-NAT	1	5.990-7	1.785-5	58 512	373	TOTAL
	62-SM-NAT	1	1.160-6	4.420-3	57 2024	207	TOTAL
	62-SM-NAT	1	1.069-5	7.350-4	56 2039	616	TOTAL
	62-SM-NAT	1	1.440-4	2.860-1	55 2042	49	TOTAL
	62-SM-NAT	1	7.978-4	2.390-2	56 511	18	TOTAL
	62-SM-NAT	1	1.000-1	2.900-0	53 101	29	TOTAL
	62-SM-NAT	1	3.015-1	1.498-0	69 2385	347	TOTAL
N	62-SM-NAT	1	7.003-1	9.085-0	74 3895	646	TOTAL
	62-SM-NAT	1	2.223-0	1.486-1	67 760	254	TOTAL
	62-SM-NAT	1	1.314-1	1.560-1	58 324	3	TOTAL
	62-SM-NAT	2	3.030-1	1.500-0	69 2395	55	ELASTIC
	62-SM-NAT	5	9.800-1	9.800-1	63 879	1	TOTAL SCATTERING
	62-SM-NAT	11	5.200-1	1.500-0	69 2395	112	N,N'
	62-SM-NAT	21	2.530-8	2.530-8	58 1162	1	ABSORPTION
	62-SM-NAT	21	2.530-8	2.530-8	60 891	1	ABSORPTION
	62-SM-NAT	23	2.530-8	2.530-8	64 895	3	N,GAMMA
	62-SM-NAT	23	2.100-4	7.800-3	61 718	42	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-233 ***

ZA = 62000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 62000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
62-SM-NAT	23	1	0.05-2	1.675-1	61 677	52	N, GAMMA
62-SM-NAT	23	3	0.00-2	6.500-2	63 1	2	N, GAMMA
62-SM-NAT	23	3	0.00-2	1.650-1	72 3877	3	N, GAMMA
62-SM-NAT	71	2	5.00-8	2.500-8	50 1794	1	ABSORPTION
62-SM-NAT	71	2	5.00-8	2.500-8	56 906	1	ABSORPTION
62-SM-NAT	71	2	5.00-8	2.500-8	57 2229	1	ABSORPTION
62-SM-NAT	73	7	2.530-8	2.530-8	70 2415	81	N, GAMMA
62-SM-NAT	73	10	2.530-8	2.530-8	70 2415	31	N, GAMMA
62-SM-NAT	74	2	5.30-8	2.530-8	70 2415	1	N, X GAMMA
62-SM-NAT	102	9	8.00-1	9.800-1	63 879	8	ELASTIC
62-SM-NAT	452 80	3	0.30-1	1.500-0	69 2385	229	ELASTIC
62-SM-NAT	521	4	9.00-7	1.500-1	57 1054	1	ABSORPTION
62-SM-NAT		9	7.00-8	9.700-8	64 895	1	RESONANCE PARAMETERS
62-SM-NAT		4	8.00-5	9.340-5	58 2230	3	RESONANCE PARAMETERS
62-SM-NAT		4	8.54-5	5.000-5	59 2454	2	RESONANCE PARAMETERS
62-SM-144	12	1	1.278-1	1.942-1	68 2891	10	N, 2N
62-SM-144	12	1	1.290-1	1.780-1	63 2182	13	N, 2N
62-SM-144	12	1	1.380-1	1.380-1	67 2009	1	N, 2N
62-SM-144	12	1	1.410-1	1.410-1	72 3411	1	N, 2N
62-SM-144	12	1	1.450-1	1.450-1	67 2401	1	N, 2N
62-SM-144	12	1	1.470-1	1.470-1	61 670	1	N, 2N
62-SM-144	12	1	1.480-1	1.480-1	72 3832	1	N, 2N
62-SM-144	12	1	1.490-1	1.670-1	73 3508	4	N, 2N
62-SM-144	12	2	1.450-1	1.450-1	69 2987	1	N, 2N
62-SM-144	12	2	1.460-1	1.460-1	65 2120	1	N, 2N
62-SM-144	12	2	1.470-1	1.470-1	61 670	1	N, 2N
62-SM-144	12	2	1.480-1	1.480-1	72 3486	1	N, 2N
62-SM-144	12	2	1.480-1	1.480-1	72 3832	2	N, 2N
62-SM-144	12	2	1.480-1	1.480-1	75 3552	2	N, 2N
62-SM-144	12	3	1.420-1	1.420-1	69 2334	2	N, 2N
62-SM-144	12	3	1.440-1	1.440-1	61 676	1	N, 2N
62-SM-144	12	3	1.450-1	1.450-1	67 2401	2	N, 2N
62-SM-144	12	3	1.480-1	1.480-1	60 672	1	N, 2N
62-SM-144	12	3	1.480-1	1.480-1	72 3486	1	N, 2N
62-SM-144	12	3	1.480-1	1.480-1	75 3562	1	N, 2N
62-SM-144	21	3	0.00-2	3.000-2	63 904	1	ABSORPTION
62-SM-144	71	2	5.00-8	2.500-8	56 2771	1	N, GAMMA
62-SM-144	73	2	5.00-8	2.500-8	62 2969	1	N, GAMMA
62-SM-145	73	2	5.00-8	2.500-8	62 2969	1	N, GAMMA
62-SM-147	1	2	5.30-8	2.530-8	71 3110	1	TOTAL
62-SM-147	21	2	5.30-8	2.530-8	58 1162	1	ABSORPTION
62-SM-147	21	3	0.00-2	3.000-2	63 904	1	ABSORPTION
62-SM-147	23	1	0.00-5	1.000-5	65 2227	1	N, GAMMA
62-SM-147	34	1	2.530-8	2.530-8	70 3771	2	N, ALPHA
62-SM-147	71	2	5.00-8	2.500-8	57 2226	1	ABSORPTION
62-SM-147	73	2	5.00-8	2.500-8	58 2771	1	N, GAMMA
62-SM-147	73	2	5.00-8	2.500-8	66 2227	1	N, GAMMA
62-SM-147	73	2	5.00-8	2.500-8	67 2231	1	N, GAMMA
62-SM-147	73	2	5.00-8	2.530-8	69 3706	8	N, GAMMA
62-SM-147	84	1	2.500-8	2.500-8	62 2456	2	N, ALPHA
62-SM-147	134	1	1.815-1	1.815-1	73 3995	1	N, ALPHA
62-SM-147	224 80	3	3.400-6	3.400-6	65 3741	6	N, X GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-234 ***

ZA = 62147

ZA - 62147

TARGET	CODE	S E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION

ZA - 62149

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 62149

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	62-SM-145	324	8.900-7	8.900-7	65 3741	5	N,X GAMMA ENERGY DISTRIBUTION
N	62-SM-149	224	9.600-8	9.600-8	65 3741	4	N,X GAMMA ENERGY DISTRIBUTION
	62-SM-149	234	2.530-8	2.530-8	65 2223	3	N,ALPHA ENERGY DISTRIBUTION
N	62-SM-149	334	1.815+1	1.815+1	73 3985	48	N,ALPHA DIFF. ENERGY-ANGLE DISTRIBUTION
C	62-SM-149		0.000+0	2.000-5	58 394	3	AVERAGE RESONANCE PARAMETERS
C	62-SM-149		0.000+0	2.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	62-SM-149		0.000+0	5.000-2	66 1894	1	AVERAGE RESONANCE PARAMETERS
N	62-SM-149		4.980-5	1.547-4	72 3410	2	AVERAGE RESONANCE PARAMETERS
N	62-SM-149		1.500-5	1.300-4	71 3403	3	AVERAGE RESONANCE PARAMETERS
	62-SM-149		9.400-8	9.400-8	54 2459	1	RESONANCE PARAMETERS
	62-SM-149		9.600-8	9.600-8	46 2442	2	RESONANCE PARAMETERS
	62-SM-149		9.600-8	9.600-8	47 2444	2	RESONANCE PARAMETERS
	62-SM-149		9.600-8	9.600-8	53 874	1	RESONANCE PARAMETERS
	62-SM-149		9.620-8	9.620-8	54 2397	2	RESONANCE PARAMETERS
N	62-SM-149		9.730-8	8.720-7	68 3668	10	RESONANCE PARAMETERS
	62-SM-149		9.760-8	8.700-7	67 1905	4	RESONANCE PARAMETERS
	62-SM-149		9.760-8	8.730-7	59 2139	6	RESONANCE PARAMETERS
	62-SM-149		9.760-8	8.900-6	62 2457	5	RESONANCE PARAMETERS
	62-SM-149		9.760-8	1.700-5	58 394	20	RESONANCE PARAMETERS
	62-SM-149		9.760-8	1.720-5	54 2327	8	RESONANCE PARAMETERS
	62-SM-149		9.760-8	3.400-5	70 3134	16	RESONANCE PARAMETERS
N	62-SM-149		9.760-8	9.760-8	60 2236	1	RESONANCE PARAMETERS
	62-SM-149		9.760-8	4.500-5	62 2019	14	RESONANCE PARAMETERS
	62-SM-149		9.800-8	5.180-5	70 3070	19	RESONANCE PARAMETERS
N	62-SM-149		9.890-8	9.880-2	69 3769	4	RESONANCE PARAMETERS
	62-SM-149		8.600-7	4.900-6	64 2455	3	RESONANCE PARAMETERS
	62-SM-149		8.730-7	8.730-7	63 2544	1	RESONANCE PARAMETERS
	62-SM-149		8.900-7	1.240-5	57 2234	5	RESONANCE PARAMETERS
	62-SM-149		4.960-6	5.200-5	59 2454	13	RESONANCE PARAMETERS
	62-SM-149		4.960-6	1.820-4	57 2431	22	RESONANCE PARAMETERS
	62-SM-149		4.980-6	1.850-4	71 3135	58	RESONANCE PARAMETERS
N	62-SM-149		4.980-6	2.589-4	72 3410	84	RESONANCE PARAMETERS
	62-SM-149		1.220-5	9.930-5	57 2230	46	RESONANCE PARAMETERS
N	62-SM-149		1.580-5	2.487-4	71 3403	244	RESONANCE PARAMETERS
	62-SM-150	1	2.530-8	2.530-8	71 3110	1	TOTAL
	62-SM-150	21	3.000-2	3.000-2	63 904	1	ABSORPTION
N	62-SM-150	26	1.480+1	1.480+1	72 3832	1	N,P
N	62-SM-150	34	1.480+1	1.480+1	72 3832	1	N,ALPHA
	62-SM-150	71	2.500-8	2.500-8	61 2961	1	ABSORPTION
	62-SM-150	73	2.500-8	2.500-8	56 2771	1	N,GAMMA
N	62-SM-150	523	5.000-7	1.500+1	72 3110	1	N,GAMMA
C	62-SM-150		0.000+0	0.000-4	71 3110	2	AVERAGE RESONANCE PARAMETERS
	62-SM-150		-3.200-6	1.563-3	71 3110	24	RESONANCE PARAMETERS
	62-SM-150		2.050-5	4.430-5	57 2230	2	RESONANCE PARAMETERS
	62-SM-150		2.060-5	2.060-5	59 2454	1	RESONANCE PARAMETERS
	62-SM-150		2.069-5	4.750-5	57 2431	2	RESONANCE PARAMETERS
	62-SM-150		2.110-5	2.110-5	54 2327	1	RESONANCE PARAMETERS
N	62-SM-151	1	1.019-8	2.415-6	75 3846	139	TOTAL
	62-SM-151	1	2.530-8	2.530-8	63 2544	1	TOTAL
	62-SM-151	21	2.530-8	2.530-8	58 2235	1	ABSORPTION
	62-SM-151	71	2.500-8	2.500-8	55 2623	1	ABSORPTION
	62-SM-151	73	2.500-8	2.500-8	56 2771	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-236 ***

ZA = 62151

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 62151

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	62-SM-151	224	80	2.530- 8	2.530- 8	71 4062	32 N,X GAMMA ENERGY DISTRIBUTION
N	62-SM-151	523		5.000- 7	1.500- 1	75 3846	1 N,GAMMA RESONANCE INTEGRAL
C	62-SM-151			0.000+ 0	1.275- 5	63 2544	2 AVERAGE RESONANCE PARAMETERS
N	62-SM-151			0.000+ 0	2.270- 3	75 3846	5 AVERAGE RESONANCE PARAMETERS
N	62-SM-151			-1.200- 7	2.257- 4	75 3846	269 RESONANCE PARAMETERS
N	62-SM-151			-1.500- 8	1.275- 5	63 2544	15 RESONANCE PARAMETERS
	62-SM-152	1		1.030- 8	7.600- 8	58 2400	13 TOTAL
	62-SM-152	1		2.530- 8	2.530- 8	58 2139	1 TOTAL
	62-SM-152	1		7.525- 6	8.525- 6	62 2237	24 TOTAL
	62-SM-152	21		2.530- 8	2.530- 8	58 2139	1 ABSORPTION
	62-SM-152	21		2.530- 8	2.530- 8	62 2237	1 ABSORPTION
	62-SM-152	21		3.000- 2	3.000- 2	63 904	1 ABSORPTION
	62-SM-152	23		2.530- 8	2.530- 8	47 888	1 N,GAMMA
	62-SM-152	23		2.530- 8	2.530- 8	62 2962	1 N,GAMMA
	62-SM-152	23		2.400- 2	2.400- 2	57 309	1 N,GAMMA
	62-SM-152	23		2.400- 2	2.400- 2	66 1788	1 N,GAMMA
	62-SM-152	23		1.950- 1	1.950- 1	59 526	1 N,GAMMA
	62-SM-152	23		3.000+ 0	3.000+ 0	67 1991	1 N,GAMMA
N	62-SM-152	23	7	2.530- 8	2.530- 8	71 3517	104 N,GAMMA
	62-SM-152	26		1.480+ 1	1.480+ 1	60 672	1 N,P
	62-SM-152	34		1.450+ 1	1.450+ 1	53 27	1 N,ALPHA
	62-SM-152	34		1.480+ 1	1.480+ 1	60 672	1 N,ALPHA
N	62-SM-152	34		1.480+ 1	1.480+ 1	72 3832	1 N,ALPHA
	62-SM-152	43		2.530- 8	2.530- 6	53 2765	1 COHERENT SCATTERING
	62-SM-152	73		2.500- 8	2.500- 8	55 2771	1 N,GAMMA
N	62-SM-152	73		8.300- 1	8.300- 1	73 3994	1 N,GAMMA
N	62-SM-152	73	87	2.530- 8	2.530- 8	69 3706	30 N,GAMMA
N	62-SM-152	224	80	2.530- 8	2.530- 8	71 4062	20 N,X GAMMA ENERGY DISTRIBUTION
N	62-SM-152	224	80	8.200- 6	8.200- 6	65 3741	7 N,X GAMMA ENERGY DISTRIBUTION
C	62-SM-152	521		5.000- 7	1.500+ 1	58 1162	1 ABSORPTION RESONANCE INTEGRAL
C	62-SM-152	521		5.000- 7	1.500+ 1	60 897	1 ABSORPTION RESONANCE INTEGRAL
C	62-SM-152	521		0.000- 7	1.500+ 1	62 2962	1 ABSORPTION RESONANCE INTEGRAL
N	62-SM-152	523		5.000- 7	1.500+ 1	69 3680	1 N,GAMMA RESONANCE INTEGRAL
C	62-SM-152			0.000+ 0	7.000- 4	68 2154	2 AVERAGE RESONANCE PARAMETERS
C	62-SM-152			8.050- 6	1.502- 3	69 2665	1 AVERAGE RESONANCE PARAMETERS
	62-SM-152			8.000- 6	8.000- 6	58 512	2 RESONANCE PARAMETERS
	62-SM-152			8.010- 6	8.010- 6	59 2454	1 RESONANCE PARAMETERS
	62-SM-152			8.020- 6	8.020- 6	61 2460	3 RESONANCE PARAMETERS
	62-SM-152			8.020- 6	8.020- 6	61 2461	1 RESONANCE PARAMETERS
N	62-SM-152			8.030- 6	1.312- 3	68 2154	27 RESONANCE PARAMETERS
	62-SM-152			8.036- 6	9.036- 6	62 2237	5 RESONANCE PARAMETERS
	62-SM-152			8.050- 6	1.740- 4	57 2431	4 RESONANCE PARAMETERS
	62-SM-152			8.060- 6	1.541- 3	69 2666	62 RESONANCE PARAMETERS
	62-SM-152			8.090- 6	8.090- 6	63 2544	1 RESONANCE PARAMETERS
	62-SM-152			8.750- 5	8.750- 5	57 2230	1 RESONANCE PARAMETERS
	62-SM-152			1.541- 3	5.100- 3	71 3116	61 RESONANCE PARAMETERS
	62-SM-153	73		2.500- 8	2.500- 8	55 2771	1 N,GAMMA
N	62-SM-154	12		1.410+ 1	1.410+ 1	72 3411	1 N,2N
	62-SM-154	12		1.480+ 1	1.450+ 1	53 27	1 N,2N
	62-SM-154	12		1.480+ 1	1.480+ 1	60 672	1 N,2N
N	62-SM-154	12		1.480+ 1	1.480+ 1	72 3832	1 N,2N
	62-SM-154	21		3.000- 2	3.000- 2	63 904	1 ABSORPTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-237 ***

ZA = 62154

07/04/76

CCSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 62154

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 62-SM-154	23		5.000-3	1.600-1	72 3436	16	N,GAMMA
62-SM-154	23		2.400-2	2.400-2	57 305	1	N,GAMMA
62-SM-154	23		2.400-2	2.400-2	66 1788	1	N,GAMMA
62-SM-154	23		1.600-1	6.100-0	59 663	24	N,GAMMA
62-SM-154	23		3.000-0	3.000-0	67 1991	1	N,GAMMA
62-SM-154	26		1.480-1	1.480-1	60 672	1	N,P
62-SM-154	29		1.480-1	1.480-1	60 672	1	N,ALPHA
N 62-SM-154	34		1.480-1	1.480-1	72 3832	1	N,ALPHA
62-SM-154	43		7.530-8	2.530-8	53 2636	1	COHERENT SCATTERING
N 62-SM-154	73		8.300-1	8.300-1	73 3894	1	N,GAMMA
N 62-SM-154	105	1	6.250-0	6.250-0	75 3836	21	TOTAL SCATTERING
C 62-SM-154			0.000-0	1.300-3	68 2154	2	AVERAGE RESONANCE PARAMETERS
C 62-SM-154			9.301-5	2.492-3	69 2666	1	AVERAGE RESONANCE PARAMETERS
N 62-SM-154			9.300-5	1.835-3	68 2154	21	RESONANCE PARAMETERS
62-SM-154			9.301-5	2.529-3	69 2666	40	RESONANCE PARAMETERS
62-SM-154			2.530-3	5.075-3	71 3116	13	RESONANCE PARAMETERS
63-EU-NAT	1		1.500-10	2.800-9	61 878	11	TOTAL
63-EU-NAT	1		1.070-9	8.500-9	55 2238	12	TOTAL
N 63-EU-NAT	1		1.000-8	3.000-7	71 3413	30	TOTAL
N 63-EU-NAT	1		2.260-8	7.536-7	71 3695	127	TOTAL
63-EU-NAT	1		2.530-8	2.530-8	58 2139	1	TOTAL
63-EU-NAT	1		7.970-4	2.393-2	56 511	18	TOTAL
63-EU-NAT	1		2.260-0	1.437-1	67 750	241	TOTAL
63-EU-NAT	21		2.530-8	2.530-8	60 891	1	ABSORPTION
N 63-EU-NAT	23		1.082-8	1.030-5	75 3147	379	N,GAMMA
63-EU-NAT	23		7.600-7	4.300-2	64 1988	208	N,GAMMA
63-EU-NAT	23		2.100-4	9.500-3	61 719	49	N,GAMMA
63-EU-NAT	23		3.000-2	6.500-2	83 1	2	N,GAMMA
63-EU-NAT	23		3.000-2	2.000-1	67 1807	7	N,GAMMA
N 63-EU-NAT	23		3.000-2	3.000-1	72 3477	4	N,GAMMA
63-EU-NAT	43		4.230-8	4.230-8	62 928	2	COHERENT SCATTERING
63-EU-NAT	71		2.500-8	2.530-8	56 906	1	ABSORPTION
63-EU-NAT	73		2.005-4	1.175-2	70 421	98	N,GAMMA
63-EU-NAT	73	7	2.530-8	2.530-8	70 2415	31	N,GAMMA
63-EU-NAT	73	10	2.530-8	2.530-8	70 2415	24	N,GAMMA
63-EU-NAT	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA
C 63-EU-NAT	521		5.000-7	1.500-1	68 2770	1	ABSORPTION
C 63-EU-NAT	523		2.000-7	1.000-2	70 421	1	N,GAMMA
63-EU-NAT			0.000-0	7.700-6	55 862	1	AVERAGE RESONANCE PARAMETERS
63-EU-NAT			-6.300-8	-6.300-8	61 278	2	RESONANCE PARAMETERS
N 63-EU-151	1		1.000-8	3.000-7	71 3413	30	TOTAL
63-EU-151	1		2.530-8	2.530-8	58 2139	1	TOTAL
N 63-EU-151	1		2.530-8	2.530-8	68 3767	1	TOTAL
N 63-EU-151	1		2.627-4	3.000-3	70 2666	4418	TOTAL
63-EU-151	12		1.480-1	1.480-1	60 672	1	N,2N
63-EU-151	12		1.480-1	1.480-1	61 703	1	N,2N
63-EU-151	12		1.480-1	1.480-1	64 1958	1	N,2N
N 63-EU-151	12		1.480-1	1.480-1	72 3832	1	N,2N
N 63-EU-151	12	6	1.480-1	1.480-1	72 3437	1	N,2N
63-EU-151	21		2.530-8	2.530-8	60 897	1	ABSORPTION
N 63-EU-151	23		1.000-8	1.574-6	75 3147	271	N,GAMMA
63-EU-151	23		2.530-8	2.530-8	47 888	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 63151

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 63151

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	63-EU-151	23		2.530-8	2.530-8	71 3695	1	N,GAMMA
	63-EU-151	23		8.300-7	4.100-2	54 1988	161	N,GAMMA
N	63-EU-151	23		6.314-3	2.973-1	74 3552	566	N,GAMMA
N	63-EU-151	23		2.500-2	2.500-2	70 3969	2	N,GAMMA
N	63-EU-151	23	4	2.074-8	4.600-7	71 3695	9	N,GAMMA
	63-EU-151	23	4	1.750-1	2.600+0	59 663	14	N,GAMMA
N	63-EU-151	23	11	2.500-2	2.500-2	72 3965	2	N,GAMMA
	63-EU-151	34	5	1.420+1	1.420+1	69 2334	1	N,ALPHA
	63-EU-151	71		2.500-8	2.500-8	49 2968	1	ABSORPTION
	63-EU-151	73		2.005-4	1.175-2	70 421	98	N,GAMMA
	63-EU-151	73	3	2.500-8	2.500-8	65 2241	1	N,GAMMA
	63-EU-151	73	4	2.500-8	2.500-8	58 2976	1	N,GAMMA
	63-EU-151	73	4	2.500-8	2.500-8	59 2975	1	N,GAMMA
	63-EU-151	73	4	2.500-8	2.500-8	60 1808	1	N,GAMMA
	63-EU-151	73	4	2.500-8	2.500-8	67 2240	2	N,GAMMA
N	63-EU-151	73	4	2.530-8	2.530-8	71 3695	1	N,GAMMA
	63-EU-151	73	6	2.500-8	2.500-8	67 2240	2	N,GAMMA
N	63-EU-151	134		1.815+1	1.815+1	73 3985	1	ANGULAR DISTRIBUTION
N	63-EU-151	224	80	2.530-8	2.530-8	70 3653	247	N,X GAMMA
	63-EU-151	234		2.530-8	2.530-8	65 2223	1	N,ALPHA
N	63-EU-151	334		1.815+1	1.815+1	73 3985	38	DIFF. ENERGY-ANGLE DISTRIBUTION
C	63-EU-151	521		5.000-7	1.500+1	69 2770	1	ABSORPTION
C	63-EU-151	523		2.000-7	1.000-2	70 421	1	N,GAMMA
C	63-EU-151	523	4	5.000-7	1.500+1	67 2240	1	N,GAMMA
C	63-EU-151	523	6	5.000-7	1.500+1	67 2240	1	N,GAMMA
N	63-EU-151	873		2.500-2	2.500-2	70 3969	1	N,GAMMA
N	63-EU-151	873		2.500-2	2.500-2	72 3965	1	N,GAMMA
N	63-EU-151	873	4	-3.610-9	4.600-7	71 3695	3	N,GAMMA
C	63-EU-151			0.000+0	2.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	63-EU-151			0.000+0	5.000-2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	63-EU-151			1.355-5	9.861-5	69 2666	1	AVERAGE RESONANCE PARAMETERS
N	63-EU-151			6.314-3	2.973-1	75 3552	4	AVERAGE RESONANCE PARAMETERS
	63-EU-151			-1.100-8	3.300-6	47 2444	4	RESONANCE PARAMETERS
	63-EU-151			-1.100-8	7.360-5	54 2443	7	RESONANCE PARAMETERS
N	63-EU-151			-3.610-9	-3.610-9	71 3695	2	RESONANCE PARAMETERS
	63-EU-151			-6.000-10	-6.000-10	55 2238	2	RESONANCE PARAMETERS
	63-EU-151			0.000+0	3.370-6	64 2445	5	RESONANCE PARAMETERS
	63-EU-151			3.210-7	4.600-7	61 2463	10	RESONANCE PARAMETERS
	63-EU-151			3.270-7	1.056-6	55 2396	9	RESONANCE PARAMETERS
	63-EU-151			3.270-7	1.930-5	54 2432	28	RESONANCE PARAMETERS
	63-EU-151			1.055-6	9.000-6	56 2239	33	RESONANCE PARAMETERS
	63-EU-151			1.055-6	9.050-6	59 2462	24	RESONANCE PARAMETERS
	63-EU-151			1.055-6	9.861-5	69 2666	320	RESONANCE PARAMETERS
	63-EU-151			2.720-6	3.716-6	56 3034	3	RESONANCE PARAMETERS
	63-EU-151			4.830-6	1.520-5	55 862	22	RESONANCE PARAMETERS
	63-EU-151			4.840-6	2.700-5	55 1106	40	RESONANCE PARAMETERS
N	63-EU-152	41		2.500-2	2.500-2	70 3969	1	BOUND ATOM
N	63-EU-153	1		1.000-8	3.000-7	71 3413	30	TOTAL
	63-EU-153	12	3	1.420+1	1.420+1	69 2334	1	N,2N
	63-EU-153	12	3	1.480+1	1.480+1	72 3832	1	N,2N
	63-EU-153	12	4	1.420+1	1.420+1	69 2334	1	N,2N
	63-EU-153	12	4	1.480+1	1.480+1	60 672	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 63153

07/04/76

EGSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 63153

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	63-EU-153	12	4	1.480+ 1	1.480+ 1	61 703	1 N,2N
	63-EU-152	12	4	1.480+ 1	1.480+ 1	72 3832	1 N,2N
	63-EU-153	21		2.530- 8	2.530- 8	53 2139	1 ABSORPTION
	63-EU-153	21		2.530- 8	2.530- 8	60 897	1 ABSORPTION
N	63-EU-153	23		1.002- 8	9.842- 6	75 3147	286 N,GAMMA
	63-EU-153	23		8.500- 7	4.200- 2	64 1988	88 N,GAMMA
N	63-EU-153	23		6.314- 3	2.973- 1	74 3552	566 N,GAMMA
	63-EU-153	26		1.450+ 1	1.450+ 1	59 580	1 N,P
N	63-EU-153	26		1.480+ 1	1.480+ 1	72 3832	1 N,P
	63-EU-153	34		1.480+ 1	1.480+ 1	65 1697	1 N,ALPHA
	63-EU-153	43		0.000+ 0	0.000+ 0	71 3188	1 COHERENT SCATTERING
	63-EU-153	71		2.500- 8	2.500- 8	49 2968	1 ABSORPTION
	63-EU-153	73		2.500- 8	2.500- 8	67 2240	2 N,GAMMA
C	63-EU-153	521		5.000- 7	1.500+ 1	60 897	1 ABSORPTION
C	63-EU-153	521		5.000- 7	1.500+ 1	68 2770	1 ABSORPTION
C	63-EU-153	523		5.000- 7	1.500+ 1	67 2240	1 N,GAMMA
C	63-EU-153			0.000+ 0	2.000- 3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	63-EU-153			0.000+ 0	5.000- 2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	63-EU-153			1.730- 6	9.760- 5	69 2666	1 AVERAGE RESONANCE PARAMETERS
N	63-EU-153			6.314- 3	2.973- 1	75 3552	4 AVERAGE RESONANCE PARAMETERS
	63-EU-153			4.570- 7	4.570- 7	58 2139	4 RESONANCE PARAMETERS
	63-EU-153			5.400- 7	5.400- 7	46 2442	2 RESONANCE PARAMETERS
	63-EU-153			1.725- 6	8.870- 6	59 2462	24 RESONANCE PARAMETERS
	63-EU-153			1.730- 6	9.760- 5	69 2666	228 RESONANCE PARAMETERS
	63-EU-153			1.760- 6	8.900- 6	56 2239	24 RESONANCE PARAMETERS
	63-EU-153			1.760- 6	1.180- 5	54 2432	15 RESONANCE PARAMETERS
	63-EU-153			2.455- 6	3.940- 6	56 3034	6 RESONANCE PARAMETERS
	63-EU-153			2.460- 6	2.460- 6	64 2445	1 RESONANCE PARAMETERS
	63-EU-153			4.750- 6	2.410- 5	56 1106	26 RESONANCE PARAMETERS
	63-EU-153			6.250- 6	1.170- 5	55 862	6 RESONANCE PARAMETERS
N	63-EU-155	73		2.530- 8	2.530- 8	70 3193	1 N,GAMMA
	63-EU-160	12		1.450+ 1	1.450+ 1	53 27	1 N,2N
	64-GD-NAT	1		1.800-10	2.800- 9	61 878	8 TOTAL
	64-GD-NAT	1		2.100- 9	2.000- 7	47 916	64 TOTAL
	64-GD-NAT	1		9.200- 9	2.300- 7	65 1773	15 TOTAL
	64-GD-NAT	1		1.950- 8	2.793- 7	60 2243	50 TOTAL
	64-GD-NAT	1		2.530- 8	2.530- 8	58 2139	1 TOTAL
	64-GD-NAT	1		6.600- 7	2.740- 3	53 2331	234 TOTAL
	64-GD-NAT	1		1.160- 6	9.990- 6	58 512	133 TOTAL
	64-GD-NAT	1		8.870- 6	8.000- 4	56 2039	725 TOTAL
	64-GD-NAT	1		7.970- 4	2.390- 2	56 511	18 TOTAL
	64-GD-NAT	1		1.200- 3	2.037+ 0	66 1789	99 TOTAL
	64-GD-NAT	1		2.800- 3	2.800- 3	52 252	1 TOTAL
	64-GD-NAT	1		4.000- 3	6.400- 1	65 922	96 TOTAL
	64-GD-NAT	1		1.000- 1	1.498+ 0	69 2385	709 TOTAL
N	64-GD-NAT	1		7.003- 1	9.065+ 0	74 3895	646 TOTAL
	64-GD-NAT	1		1.001+ 0	2.001+ 0	68 3292	34 TOTAL
	64-GD-NAT	1		1.004+ 0	2.004+ 0	69 3310	101 TOTAL
	64-GD-NAT	1		2.260+ 0	1.496+ 1	67 750	256 TOTAL
	64-GD-NAT	1		2.390+ 0	1.571+ 1	66 2242	7 TOTAL
N	64-GD-NAT	1		3.889+ 0	1.882+ 1	69 2882	45 TOTAL
	64-GD-NAT	1		1.314+ 1	1.560+ 1	58 324	3 TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-240 ***

ZA = 64000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 84000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
64-GD-NAT	2		3.000-	1.500+	0 69 2385	65	ELASTIC
64-GD-NAT	5		9.800-	1.500-	1 63 873	1	TOTAL SCATTERING
64-GD-NAT	11	8	3.200-	1.500+	0 69 2385	90	N,N'
64-GD-NAT	21		2.530-	8 2.530-	8 47 2444	1	ABSORPTION
64-GD-NAT	21		2.530-	8 2.530-	8 58 1162	1	ABSORPTION
64-GD-NAT	21		2.530-	8 2.530-	8 60 891	1	ABSORPTION
64-GD-NAT	23		2.530-	8 2.530-	8 64 895	2	N,GAMMA
64-GD-NAT	23		2.000-	4 7.200-	3 61 719	40	N,GAMMA
64-GD-NAT	23		1.005-	3 7.520-	1 70 3063	89	N,GAMMA
64-GD-NAT	23		7.500-	3 1.675-	1 61 677	54	N,GAMMA
64-GD-NAT	23		3.000-	2 6.500-	2 63 1	2	N,GAMMA
N 64-GD-NAT	23		3.000-	2 3.000-	1 72 3877	4	N,GAMMA
64-GD-NAT	23		1.400+	1 1.400+	1 71 3194	1	N,GAMMA
64-GD-NAT	71		2.500-	8 2.500-	8 50 1623	1	ABSORPTION
64-GD-NAT	71		2.500-	8 2.500-	8 50 1794	1	ABSORPTION
64-GD-NAT	71		2.500-	8 2.500-	8 56 906	1	ABSORPTION
64-GD-NAT	73	7	2.530-	8 2.530-	8 70 2415	102	N,GAMMA
64-GD-NAT	73	10	2.530-	8 2.530-	8 70 2415	29	N,GAMMA
64-GD-NAT	74		2.530-	8 2.530-	8 70 2415	1	N,X GAMMA
64-GD-NAT	102		9.800-	1 9.800-	1 63 879	8	ELASTIC
N 64-GD-NAT	102		1.520+	0 3.600+	0 72 3766	65	ELASTIC
N 64-GD-NAT	111	1	1.520+	0 3.600+	0 72 3766	107	N,N'
N 64-GD-NAT	452	80	3.000-	1 1.500+	0 69 2385	260	ELASTIC
C 64-GD-NAT	521		4.900-	7 1.500+	1 57 1054	1	ABSORPTION
64-GD-NAT			3.000-	3 6.500-	1 64 1226	3	AVERAGE RESONANCE PARAMETERS
64-GD-NAT			3.300-	8 3.300-	8 61 879	2	RESONANCE PARAMETERS
N 64-GD-152	23		2.530-	8 2.530-	8 69 3680	1	N,GAMMA
N 64-GD-152	523		5.000-	7 1.500+	1 69 3680	1	N,GAMMA
C 64-GD-152			0.000+	0 2.300+	4 68 2154	2	AVERAGE RESONANCE PARAMETERS
C 64-GD-152			0.000+	0 1.000+	3 68 2991	1	AVERAGE RESONANCE PARAMETERS
64-GD-152			3.310-	6 9.350-	5 68 2991	10	RESONANCE PARAMETERS
64-GD-152			8.000-	6 2.930+	4 68 2154	42	RESONANCE PARAMETERS
64-GD-154	12		1.470+	1 1.470+	1 68 1718	1	N,2N
N 64-GD-154	23		5.280-	3 6.820-	2 74 4060	32	N,GAMMA
64-GD-154	73		2.500-	8 2.500-	8 56 2771	1	N,GAMMA
64-GD-154	73		2.500-	8 2.500-	8 66 2244	1	N,GAMMA
C 64-GD-154	523		5.000-	7 1.500+	1 66 2244	1	N,GAMMA
C 64-GD-154			0.090+	0 2.300+	4 68 2154	2	AVERAGE RESONANCE PARAMETERS
C 64-GD-154			0.000+	0 1.000+	3 68 2991	1	AVERAGE RESONANCE PARAMETERS
64-GD-154			9.410-	6 1.480+	4 68 2991	14	RESONANCE PARAMETERS
64-GD-154			1.149-	5 2.240+	4 68 2154	32	RESONANCE PARAMETERS
N 64-GD-154			1.158-	5 9.855-	4 74 3568	119	RESONANCE PARAMETERS
64-GD-155	1		1.950-	8 2.793-	7 60 2243	50	TOTAL
64-GD-155	1		2.530-	8 2.530-	8 58 2139	1	TOTAL
N 64-GD-155	1		2.530-	8 2.530-	8 68 3787	1	TOTAL
64-GD-155	21		2.530-	8 2.530-	8 50 2960	1	ABSORPTION
64-GD-155	21		2.530-	8 2.530-	8 58 1162	1	ABSORPTION
64-GD-155	23		2.530-	8 2.530-	8 62 2977	1	N,GAMMA
N 64-GD-155	23		5.280-	3 6.820-	2 74 4060	32	N,GAMMA
64-GD-155	84		2.500-	8 2.500-	8 69 2767	1	N,ALPHA
C 64-GD-155			0.000+	0 9.300-	5 70 2464	2	AVERAGE RESONANCE PARAMETERS
N 64-GD-155			0.000+	0 1.800+	4 68 2154	2	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-24) ***

ZA = 64155

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 64155

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	64-GD-155		0.000+ 0	1.830- 4	70 2268	4	AVERAGE RESONANCE PARAMETERS
N	64-GD-155		0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	64-GD-155		3.000- 6	2.000- 2	70 3063	6	AVERAGE RESONANCE PARAMETERS
	64-GD-155		2.680- 8	2.680- 8	60 3036	1	RESONANCE PARAMETERS
	64-GD-155		2.680- 8	2.568- 6	60 2243	15	RESONANCE PARAMETERS
	64-GD-155		2.680- 8	2.568- 6	65 2246	3	RESONANCE PARAMETERS
	64-GD-155		2.680- 8	6.293- 5	70 3048	23	RESONANCE PARAMETERS
N	64-GD-155		2.680- 8	6.300- 6	64 2445	4	RESONANCE PARAMETERS
	64-GD-155		2.008- 6	2.370- 5	56 2021	13	RESONANCE PARAMETERS
	64-GD-155		2.110- 6	1.167- 5	62 2019	3	RESONANCE PARAMETERS
	64-GD-155		2.110- 6	6.960- 5	68 2667	58	RESONANCE PARAMETERS
	64-GD-155		2.010- 6	9.304- 5	70 2464	83	RESONANCE PARAMETERS
	64-GD-155		2.145- 6	4.710- 5	57 2230	52	RESONANCE PARAMETERS
	64-GD-155		2.500- 6	2.500- 6	62 3035	1	RESONANCE PARAMETERS
	64-GD-155		3.616- 6	1.833- 4	70 2268	118	RESONANCE PARAMETERS
	64-GD-155		3.616- 6	1.833- 4	70 3063	118	RESONANCE PARAMETERS
	64-GD-155		6.280- 6	1.832- 4	68 2154	100	RESONANCE PARAMETERS
	64-GD-155		6.300- 6	7.760- 6	69 1878	7	RESONANCE PARAMETERS
	64-GD-155		6.400- 6	7.800- 5	57 2431	17	RESONANCE PARAMETERS
	64-GD-156	23	2.530- 8	2.530- 8	65 2247	1	N, GAMMA
N	64-GD-156	23	5.280- 3	6.820- 2	74 4060	32	N, GAMMA
	64-GD-156	34	1.420+ 1	1.420+ 1	69 2334	1	N, ALPHA
	64-GD-156	34	1.450+ 1	1.450+ 1	59 550	1	N, ALPHA
	64-GD-156	73	2.500- 8	2.500- 8	65 2247	1	N, GAMMA
	64-GD-156	73	2.500- 8	2.500- 8	66 2244	1	N, GAMMA
C	64-GD-156	523	5.000- 7	1.500+ 1	66 2244	1	N, GAMMA
C	64-GD-156		0.000+ 0	1.200- 3	68 2154	2	AVERAGE RESONANCE PARAMETERS
	64-GD-156		3.250- 5	7.970- 5	57 2431	2	RESONANCE PARAMETERS
	64-GD-156		3.312- 5	1.550- 3	68 2154	70	RESONANCE PARAMETERS
	64-GD-156		3.320- 5	8.460- 4	68 2667	23	RESONANCE PARAMETERS
	64-GD-157	1	1.950- 8	2.793- 7	60 2243	50	TOTAL
	64-GD-157	1	2.530- 8	2.530- 8	58 2139	1	TOTAL
N	64-GD-157	1	2.530- 8	2.530- 8	68 3767	1	TOTAL
	64-GD-157	21	2.530- 8	2.530- 8	50 2960	1	ABSORPTION
	64-GD-157	21	2.530- 8	2.530- 8	58 1162	1	ABSORPTION
	64-GD-157	23	2.530- 8	2.530- 8	62 2977	1	N, GAMMA
N	64-GD-157	23	5.280- 3	6.820- 2	74 4060	32	N, GAMMA
	64-GD-157	26	1.450+ 1	1.450+ 1	59 550	1	N, P
	64-GD-157	71	2.500- 8	2.500- 8	47 2963	1	ABSORPTION
C	64-GD-157		0.000+ 0	1.840- 4	70 2268	4	AVERAGE RESONANCE PARAMETERS
C	64-GD-157		0.000+ 0	2.410- 4	70 2464	2	AVERAGE RESONANCE PARAMETERS
N	64-GD-157		0.000+ 0	3.000- 4	68 2154	2	AVERAGE RESONANCE PARAMETERS
N	64-GD-157		0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	64-GD-157		3.000- 6	2.000- 2	70 3063	6	AVERAGE RESONANCE PARAMETERS
	64-GD-157		2.800- 8	2.800- 8	47 916	2	RESONANCE PARAMETERS
	64-GD-157		3.100- 8	2.410- 4	70 2464	78	RESONANCE PARAMETERS
	64-GD-157		3.140- 8	3.140- 8	63 2254	1	RESONANCE PARAMETERS
	64-GD-157		3.140- 8	2.825- 5	60 2243	10	RESONANCE PARAMETERS
	64-GD-157		3.140- 8	2.360- 5	56 2021	6	RESONANCE PARAMETERS
N	64-GD-157		3.140- 8	3.140- 8	60 3036	1	RESONANCE PARAMETERS
N	64-GD-157		3.140- 8	3.140- 8	64 2445	1	RESONANCE PARAMETERS
N	64-GD-157		3.140- 8	2.825- 5	65 2246	2	RESONANCE PARAMETERS

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
RESONANCE INTEGRAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-242 ***

ZA = 64157

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 64157

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
64-GD-157			3.300- 8	3.300- 8	61 878	1	RESONANCE PARAMETERS
64-GD-157			4.400- 8	4.400- 8	46 2442	2	RESONANCE PARAMETERS
64-GD-157			2.830- 6	1.846- 4	68 2667	59	RESONANCE PARAMETERS
64-GD-157			2.900- 6	4.430- 5	62 2019	5	RESONANCE PARAMETERS
64-GD-157			2.980- 6	4.900- 5	57 2230	11	RESONANCE PARAMETERS
64-GD-157			1.617- 5	3.064- 4	68 2154	81	RESONANCE PARAMETERS
64-GD-157			1.625- 5	1.840- 4	70 2268	51	RESONANCE PARAMETERS
64-GD-157			1.625- 5	1.840- 4	70 3063	51	RESONANCE PARAMETERS
64-GD-157			1.680- 5	4.870- 5	69 1878	7	RESONANCE PARAMETERS
64-GD-157			1.688- 5	8.140- 5	57 2431	7	RESONANCE PARAMETERS
64-GD-157			1.710- 5	1.710- 5	67 1905	2	RESONANCE PARAMETERS
64-GD-158	23		4.900- 3	2.148+ 0	67 2694	21	N,GAMMA
64-GD-158	23		5.280- 3	6.620- 2	74 4060	32	N,GAMMA
64-GD-158	23		2.400- 2	2.400- 2	57 305	1	N,GAMMA
64-GD-158	23		2.400- 2	2.400- 2	66 1788	1	N,GAMMA
64-GD-158	23		2.500- 2	2.500- 2	70 3970	1	N,GAMMA
64-GD-158	23		1.950- 1	1.950- 1	59 526	1	N,GAMMA
64-GD-158	23		3.000+ 0	3.000+ 0	67 1991	1	N,GAMMA
64-GD-158	23		1.480+ 1	1.480+ 1	61 701	1	N,GAMMA
64-GD-158	34		1.420+ 1	1.420+ 1	69 2334	1	N,ALPHA
64-GD-158	73		2.500- 8	2.500- 8	49 2964	1	N,GAMMA
64-GD-158	73		2.500- 8	2.500- 8	60 909	1	N,GAMMA
64-GD-158	73	4	2.500- 8	2.500- 8	63 1961	1	N,GAMMA
64-GD-158	523		5.000- 7	1.500+ 1	69 3680	1	N,GAMMA
64-GD-158			0.000+ 0	0.000+ 0	70 3970	1	AVERAGE RESONANCE PARAMETERS
64-GD-158			0.000+ 0	2.000- 3	68 2154	2	AVERAGE RESONANCE PARAMETERS
64-GD-158			2.220- 5	9.170- 4	68 2667	21	RESONANCE PARAMETERS
64-GD-158			2.224- 5	2.224- 5	57 2431	1	RESONANCE PARAMETERS
64-GD-158			2.230- 5	2.230- 5	56 2021	1	RESONANCE PARAMETERS
64-GD-158			2.230- 5	2.338- 3	68 2154	57	RESONANCE PARAMETERS
64-GD-158			2.230- 5	9.960- 3	74 3568	217	RESONANCE PARAMETERS
64-GD-158			2.270- 5	2.270- 5	57 2230	1	RESONANCE PARAMETERS
64-GD-160	11	1	1.059+ 0	2.131+ 0	74 3833	80	N,N'
64-GD-160	12		1.410+ 1	1.410+ 1	72 3411	1	N,2N
64-GD-160	12		1.420+ 1	1.420+ 1	69 2334	1	N,2N
64-GD-160	12		1.480+ 1	1.480+ 1	60 672	1	N,2N
64-GD-160	12		1.480+ 1	1.480+ 1	61 703	1	N,2N
64-GD-160	12	4	1.480+ 1	1.480+ 1	72 3832	1	N,2N
64-GD-160	23		5.000- 3	1.600- 1	72 3436	16	N,GAMMA
64-GD-160	23		5.280- 3	6.620- 2	74 4060	32	N,GAMMA
64-GD-160	23		2.400- 2	2.400- 2	66 1788	1	N,GAMMA
64-GD-160	23		2.800+ 0	2.800+ 0	67 2602	1	N,GAMMA
64-GD-160	23		1.450+ 1	1.450+ 1	59 521	1	N,GAMMA
64-GD-160	23		1.480+ 1	1.480+ 1	60 672	1	N,GAMMA
64-GD-160	34		1.480+ 1	1.480+ 1	50 672	1	N,ALPHA
64-GD-160	73		2.500- 8	2.500- 8	56 2771	1	N,GAMMA
64-GD-160	73	3	2.500- 8	2.500- 8	63 1961	1	N,GAMMA
64-GD-160			0.000+ 0	2.500- 3	68 2154	2	AVERAGE RESONANCE PARAMETERS
64-GD-160			2.220- 4	9.662- 3	74 3568	116	RESONANCE PARAMETERS
64-GD-160			2.220- 4	2.656- 3	68 2154	35	RESONANCE PARAMETERS
64-GD-160			2.230- 4	2.679- 3	68 2667	16	RESONANCE PARAMETERS
65-78-159	1		2.220-10	2.380- 9	65 1059	8	TOTAL

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
RESONANCE INTEGRAL

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-243 ***

ZA = 65159

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
65-18-157	1	1	3.540-9	1.780-6	73 34.78	67	TOTAL
65-18-158	1	1	3.300-8	2.700-7	70 36.29	70	TOTAL
65-18-159	1	1	3.250-7	3.053-6	71 36.69	29	TOTAL
65-18-160	1	1	3.250-7	1.438-1	71 36.69	252	TOTAL
65-18-161	2	2	1.250-0	1.438-1	59 21.20	1	N,2N
65-18-162	12	2	1.450-1	1.438-1	59 21.20	1	N,2N
65-18-163	12	2	1.450-1	1.450-1	66 10.01	1	N,2N
65-18-164	12	2	1.480-1	1.480-1	66 10.01	1	N,2N
65-18-165	23	2	2.530-8	2.700-7	70 36.27	5	N,GAMMA
65-18-166	23	2	2.000-4	5.500-3	61 6.78	53	N,GAMMA
65-18-167	23	2	1.130-2	1.740-1	61 6.78	53	N,GAMMA
65-18-168	23	2	2.500-2	2.500-2	71 39.71	1	N,GAMMA
65-18-169	23	2	2.000-2	2.500-2	63 1	2	N,GAMMA
65-18-170	23	2	2.000-2	3.000-1	72 39.77	2	N,GAMMA
65-18-171	23	2	4.000-1	3.000-1	71 39.21	2	N,GAMMA
65-18-172	23	2	4.000-1	3.000-0	67 19.91	1	N,P
65-18-173	26	1	4.200-1	3.000-0	69 23.34	1	N,P
65-18-174	26	1	4.800-1	1.480-1	63 7.01	1	N,P
65-18-175	26	1	4.800-1	1.480-1	63 7.55	1	N,P
65-18-176	26	1	4.800-1	1.480-1	72 39.32	1	N,P
65-18-177	26	1	4.800-1	1.480-1	67 23.26	1	N,P
65-18-178	34	1	4.000-1	1.400-1	65 19.75	1	N,ALPHA
65-18-179	34	1	4.500-1	1.450-1	65 19.75	1	N,ALPHA
65-18-180	41	1	0.000-0	0.000-0	61 14.09	1	COHERENT SCATTERING
65-18-181	45	2	2.530-8	2.530-8	73 34.78	1	POTENTIAL SCATTERING
65-18-182	45	2	0.533-6	3.053-6	71 36.69	1	POTENTIAL SCATTERING
65-18-183	71	2	2.500-8	2.500-8	51 98.2	119	ABSORPTION
65-18-184	73	7	2.530-8	2.530-8	70 24.15	1	N,GAMMA
65-18-185	73	10	2.530-8	2.530-8	70 24.15	25	N,GAMMA
65-18-186	74	2	2.530-8	2.530-8	70 24.15	1	N,X,GAMMA
65-18-187	86	1	2.400-8	2.500-8	67 33.50	1	ACTIVATION
65-18-189	134	1	4.000-1	1.400-1	67 23.26	4	N,ALPHA
65-18-189	134	1	4.600-1	1.460-1	65 19.75	5	N,ALPHA
65-18-189	521	5	0.000-7	1.500-1	68 27.70	1	ABSORPTION
65-18-189	523	5	0.000-7	1.500-1	69 36.80	1	N,GAMMA
65-18-189	523	80	5.000-7	1.500-1	72 38.73	1	N,GAMMA
65-18-189	536	4	0.000-7	1.000-0	67 33.50	1	ACTIVATION
65-18-189	873	4	0.000-7	1.000-0	71 39.21	1	N,GAMMA
65-18-189			0.000-0	0.000-0	55 86.2	1	AVERAGE RESONANCE PARAMETERS
65-18-189			0.000-4	3.000-3	58 11.91	1	AVERAGE RESONANCE PARAMETERS
65-18-189			0.000-0	5.000-2	66 16.94	1	AVERAGE RESONANCE PARAMETERS
65-18-189			3.340-5	9.750-5	64 24.47	62	RESONANCE PARAMETERS
65-18-189			3.340-6	3.340-6	71 36.69	3	RESONANCE PARAMETERS
65-18-189			3.350-6	1.114-5	64 24.46	3	RESONANCE PARAMETERS
65-18-189			3.350-6	1.560-4	55 86.2	48	RESONANCE PARAMETERS
65-18-189			3.370-6	1.140-5	54 23.27	35	RESONANCE PARAMETERS
65-18-189			5.300-10	4.000-7	65 19.49	33	RESONANCE PARAMETERS
65-DY-NAT	1	1	6.300-10	2.300-8	64 22.49	36	TOTAL
65-DY-NAT	1	1	1.527-8	2.512-6	66 15.53	347	TOTAL
65-DY-NAT	1	1	1.440-4	3.600-2	55 20.42	47	TOTAL
65-DY-NAT	1	1	7.970-4	2.390-2	56 5.11	7	TOTAL
65-DY-NAT	1	1	1.050-2	2.037-0	66 17.89	101	TOTAL
65-DY-NAT	1	1	7.003-1	9.065-0	74 36.95	646	TOTAL
TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 66000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
66-DY-NAT	1		2.231+ 0	1.481+ 1	67 750	249	TOTAL
66-DY-NAT	5		9.800- 1	9.800- 1	63 879	1	TOTAL SCATTERING
66-DY-NAT	21		2.530- 8	2.530- 8	60 891	1	ABSORPTION
66-DY-NAT	23		1.269- 8	1.210- 5	72 3147	367	N,GAMMA
66-DY-NAT	23		2.000- 4	7.900- 3	61 718	44	N,GAMMA
66-DY-NAT	23		6.400- 3	1.670- 1	61 677	55	N,GAMMA
66-DY-NAT	23		3.000- 2	6.500- 2	63 1	2	N,GAMMA
N 66-DY-NAT	23		3.000- 2	3.000- 1	72 3877	4	N,GAMMA
66-DY-NAT	71		2.500- 8	2.500- 8	56 906	1	ABSORPTION
66-DY-NAT	71		2.500- 8	2.500- 8	56 2630	1	ABSORPTION
66-DY-NAT	73	7	2.530- 8	2.530- 8	70 2415	159	N,GAMMA
66-DY-NAT	73	10	2.530- 8	2.530- 8	70 2415	25	N,GAMMA
66-DY-NAT	74		2.530- 8	2.530- 8	70 2415	1	N,X GAMMA
66-DY-NAT	102		9.800- 1	9.800- 1	63 879	8	ELASTIC
C 66-DY-NAT	521		0.000+ 0	2.000+ 1	71 3311	1	ABSORPTION
C 66-DY-NAT	521		5.000+ 7	1.500+ 1	66 2630	1	ABSORPTION
C 66-DY-NAT			0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
66-DY-156	12		1.440+ 1	1.440+ 1	68 2841	1	N,2N
66-DY-156	12		1.480+ 1	1.480+ 1	72 3832	1	N,2N
N 66-DY-156	23		2.530- 8	2.530- 8	72 3679	1	N,GAMMA
N 66-DY-156	523		5.000- 7	1.500+ 1	72 3679	1	N,GAMMA
N 66-DY-156			2.150- 6	4.690- 5	69 3409	2	AVERAGE RESONANCE PARAMETERS
N 66-DY-156			2.150- 6	1.240- 4	69 3409	54	RESONANCE PARAMETERS
66-DY-158	12		1.440+ 1	1.440+ 1	68 2841	1	N,2N
N 66-DY-158	12		1.480+ 1	1.480+ 1	72 3832	1	N,2N
N 66-DY-158	23		2.530- 8	2.530- 8	72 3679	1	N,GAMMA
66-DY-158	73	5	2.500- 8	2.500- 8	59 2655	1	N,GAMMA
N 66-DY-158	523		5.000- 7	1.500+ 1	72 3679	1	N,GAMMA
N 66-DY-158			3.800- 5	2.710- 4	69 3409	12	RESONANCE PARAMETERS
66-DY-160	12		1.470+ 1	1.470+ 1	68 1718	1	N,2N
66-DY-160	51		2.500- 8	2.500- 8	58 2631	1	TOTAL
66-DY-160	71		2.500- 8	2.500- 8	66 2630	1	ABSORPTION
N 66-DY-160	134		1.412+ 1	1.412+ 1	72 3851	1	N,ALPHA
N 66-DY-160	134		1.815+ 1	1.815+ 1	72 3855	1	N,ALPHA
N 66-DY-160	334		1.412+ 1	1.412+ 1	72 3851	28	N,ALPHA
N 66-DY-160	334		1.815+ 1	1.815+ 1	72 3855	35	N,ALPHA
C 66-DY-160	521		5.000- 7	1.500+ 1	66 2630	1	ABSORPTION
N 66-DY-160			1.845- 5	1.994- 3	75 3835	2	AVERAGE RESONANCE PARAMETERS
N 66-DY-160			1.880- 6	8.500- 5	69 3409	14	RESONANCE PARAMETERS
N 66-DY-160			1.845- 5	1.994- 3	75 3835	137	RESONANCE PARAMETERS
N 66-DY-161	1		2.530- 8	1.500- 6	71 3407	20	TOTAL
N 66-DY-161	5		2.530- 8	2.530- 8	71 3407	1	TOTAL SCATTERING
N 66-DY-161	21		2.530- 8	2.530- 8	71 3407	1	ABSORPTION
66-DY-161	23		2.300- 8	1.001- 6	64 2250	85	N,GAMMA
C 66-DY-161	23		2.900- 2	1.680- 1	65 2388	20	N,GAMMA
66-DY-161	51		2.500- 8	2.500- 8	58 2631	1	TOTAL
66-DY-161	71		2.500- 8	2.500- 8	58 2631	1	ABSORPTION
66-DY-161	71		2.500- 8	2.500- 8	66 2630	1	ABSORPTION
66-DY-161	73		2.500- 8	2.500- 8	56 2771	1	N,GAMMA
N 66-DY-161	134		1.815+ 1	1.815+ 1	73 3985	1	N,ALPHA
N 66-DY-161	334		1.815+ 1	1.815+ 1	73 3985	36	N,ALPHA
C 66-DY-161	521		5.000- 7	1.500+ 1	66 2630	1	ABSORPTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 66161

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 66161

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	66-DY-161		0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N	66-DY-161		2.710- 6	9.962- 4	75 3835	2	AVERAGE RESONANCE PARAMETERS
C	66-DY-161		2.720- 6	1.380- 4	70 2245	2	AVERAGE RESONANCE PARAMETERS
	66-DY-161		-2.380- 6	-2.380- 6	64 2250	1	RESONANCE PARAMETERS
N	66-DY-161		2.710- 6	9.962- 4	75 3835	526	RESONANCE PARAMETERS
	66-DY-161		2.720- 6	3.690- 6	62 2252	2	RESONANCE PARAMETERS
	66-DY-161		2.720- 6	1.850- 5	71 3129	9	RESONANCE PARAMETERS
	66-DY-161		2.720- 6	6.350- 5	57 2251	56	RESONANCE PARAMETERS
	66-DY-161		2.720- 6	1.376- 4	70 2245	46	RESONANCE PARAMETERS
	66-DY-161		2.730- 6	1.950- 5	54 2327	9	RESONANCE PARAMETERS
	66-DY-161		4.330- 6	7.730- 6	62 2253	2	RESONANCE PARAMETERS
N	66-DY-162	1	2.530- 8	1.500- 6	71 3407	28	TOTAL
N	66-DY-162	5	2.530- 8	2.530- 8	71 3407	1	TOTAL SCATTERING
N	66-DY-162	21	2.530- 8	2.530- 8	71 3407	1	ABSORPTION
	66-DY-162	23	2.200- 8	1.001- 6	64 2250	78	N, GAMMA
C	66-DY-162	23	2.900- 2	1.560- 1	65 2388	21	N, GAMMA
	66-DY-162	26	1.440+ 1	1.440+ 1	68 2841	1	N, P
	66-DY-162	74	1.450+ 1	1.450+ 1	59 550	1	N, ALPHA
N	66-DY-162	34	1.480+ 1	1.480+ 1	72 3832	1	N, ALPHA
	66-DY-162	51	2.500- 8	2.500- 8	58 2631	1	TOTAL
	66-DY-162	71	2.501- 8	2.500- 8	58 2631	1	ABSORPTION
	66-DY-162	71	2.500- 8	2.500- 8	66 2630	1	ABSORPTION
	66-DY-162	73	2.500- 8	2.500- 8	58 2771	1	N, GAMMA
N	66-DY-162	134	1.412+ 1	1.412+ 1	72 3851	1	N, ALPHA
N	66-DY-162	134	1.815+ 1	1.815+ 1	72 3855	1	N, ALPHA
N	66-DY-162	224 91	5.500- 6	5.500- 6	63 3741	5	N, X GAMMA
N	66-DY-162	334	1.412+ 1	1.412+ 1	72 3851	29	N, ALPHA
N	66-DY-162	334	1.815+ 1	1.815+ 1	72 3855	28	N, ALPHA
C	66-DY-162	521	5.000- 7	1.500+ 1	68 2630	1	ABSORPTION
N	66-DY-162		0.000+ 0	0.000+ 0	67 4023	1	AVERAGE RESONANCE PARAMETERS
C	66-DY-162		5.430- 6	8.610- 4	70 2245	2	AVERAGE RESONANCE PARAMETERS
N	66-DY-162		5.450- 6	1.581- 2	75 3835	3	AVERAGE RESONANCE PARAMETERS
	66-DY-162		5.430- 6	8.610- 4	70 2245	16	RESONANCE PARAMETERS
	66-DY-162		5.440- 6	6.454- 4	57 2251	9	RESONANCE PARAMETERS
	66-DY-162		5.450- 6	5.450- 6	71 3129	1	RESONANCE PARAMETERS
N	66-DY-162		5.450- 6	1.581- 2	75 3835	300	RESONANCE PARAMETERS
	66-DY-162		5.490- 6	5.490- 6	54 2327	1	RESONANCE PARAMETERS
N	66-DY-163	1	2.530- 8	1.500- 6	71 3407	28	TOTAL
N	66-DY-163	5	2.530- 8	2.530- 8	71 3407	1	TOTAL SCATTERING
N	66-DY-163	21	2.530- 8	2.530- 8	71 3407	1	ABSORPTION
	66-DY-163	23	2.100- 8	1.001- 6	64 2250	84	N, GAMMA
C	66-DY-163	23	2.900- 2	1.460- 1	65 2388	19	N, GAMMA
	66-DY-163	26	1.440+ 1	1.440+ 1	68 2841	1	N, P
	66-DY-163	26	1.480+ 1	1.480+ 1	60 672	1	N, P
	66-DY-163	51	2.500- 8	2.500- 8	58 2631	1	TOTAL
	66-DY-163	71	2.500- 8	2.500- 8	58 2631	1	ABSORPTION
	66-DY-163	71	2.500- 8	2.500- 8	66 2630	1	ABSORPTION
	66-DY-163	73	2.500- 8	2.500- 8	58 2771	1	N, GAMMA
N	66-DY-163	224 80	1.700- 6	1.700- 6	63 3741	10	N, X GAMMA
C	66-DY-163	521	5.000- 7	1.500+ 1	68 2630	1	ABSORPTION
C	66-DY-163		0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	66-DY-163		1.710- 6	2.240- 4	70 2245	2	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 66163

07/04/76

EUSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 65163

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	66-DY-163		1.720- 6	9.966- 4	75 3835	2	AVERAGE RESONANCE PARAMETERS
	66-DY-163		-5.170- 7	-5.170- 7	64 2250	1	RESONANCE PARAMETERS
	66-DY-163		1.700- 6	2.900- 4	70 3152	8	RESONANCE PARAMETERS
	66-DY-163		1.710- 6	1.710- 6	65 2214	2	RESONANCE PARAMETERS
	66-DY-163		1.710- 6	9.380- 5	57 2251	21	RESONANCE PARAMETERS
	66-DY-163		1.710- 6	2.236- 4	70 2245	21	RESONANCE PARAMETERS
N	66-DY-163		1.710- 6	1.710- 6	62 2252	1	RESONANCE PARAMETERS
N	66-DY-163		1.710- 6	1.625- 5	71 3129	2	RESONANCE PARAMETERS
	66-DY-163		1.713- 6	1.713- 6	66 1553	3	RESONANCE PARAMETERS
	66-DY-163		1.720- 6	1.680- 5	54 2327	2	RESONANCE PARAMETERS
N	66-DY-163		1.720- 6	9.966- 4	75 3835	267	RESONANCE PARAMETERS
	66-DY-163		1.620- 5	2.620- 4	70 2094	16	RESONANCE PARAMETERS
	66-DY-164	1	5.300-10	1.400- 7	61 2248	37	TOTAL
N	66-DY-164	1	2.530- 8	2.530- 8	68 3767	1	TOTAL
N	66-DY-164	1	2.530- 8	1.500- 6	71 3407	28	TOTAL
N	66-DY-164	5	2.530- 8	2.530- 8	71 3407	1	TOTAL SCATTERING
N	66-DY-164	21	2.530- 8	2.530- 8	71 3407	1	ABSORPTION
	66-DY-164	23	2.530- 8	2.530- 8	47 888	1	N, GAMMA
	66-DY-164	23	2.530- 8	2.000- 6	61 2255	9	N, GAMMA
N	66-DY-164	23	2.530- 8	2.530- 8	72 3679	1	N, GAMMA
N	66-DY-164	23	5.000- 3	1.600- 1	72 3435	16	N, GAMMA
	66-DY-164	23	2.400- 2	2.400- 2	65 867	1	N, GAMMA
N	66-DY-164	23	2.530- 8	2.530- 8	72 3679	2	N, GAMMA
	66-DY-164	23	2.400- 2	2.400- 2	68 2392	1	N, GAMMA
	66-DY-164	23	1.480+ 1	1.480+ 1	60 672	1	N, GAMMA
	66-DY-164	23	2.100- 2	2.100- 2	57 23	1	N, GAMMA
	66-DY-164	23	2.400- 2	2.400- 2	68 2392	1	N, GAMMA
	66-DY-164	23	1.500- 1	5.500+ 0	59 663	17	N, GAMMA
	66-DY-164	23	1.480+ 1	1.480+ 1	60 672	1	N, GAMMA
N	66-DY-164	23	2.500- 2	2.500- 2	72 3955	2	N, GAMMA
	66-DY-164	34	1.440+ 1	1.440+ 1	68 2841	1	N, ALPHA
	66-DY-164	34	1.480+ 1	1.480+ 1	60 672	1	N, ALPHA
	66-DY-164	34	1.480+ 1	1.480+ 1	65 1597	1	N, ALPHA
	66-DY-164	51	2.500- 8	2.500- 8	58 2631	1	TOTAL
	66-DY-164	71	2.500- 8	2.500- 8	58 2631	1	ABSORPTION
	66-DY-164	71	2.500- 8	2.500- 8	66 2630	1	ABSORPTION
	66-DY-164	73	2.500- 8	2.500- 8	47 2970	1	N, GAMMA
	66-DY-164	73	2.500- 8	2.500- 8	56 2771	1	N, GAMMA
	66-DY-164	73	2.500- 8	2.500- 8	46 2982	1	N, GAMMA
	66-DY-164	73	2.500- 8	2.500- 8	54 2981	1	N, GAMMA
	66-DY-164	73	2.500- 8	2.500- 8	59 2655	1	N, GAMMA
	66-DY-164	73	2.500- 8	2.500- 8	62 908	1	N, GAMMA
N	66-DY-164	73	1.000+ 0	1.000+ 0	68 3730	1	N, GAMMA
N	66-DY-164	134	1.412+ 1	1.412+ 1	72 3851	1	N, ALPHA
N	66-DY-164	134	1.815+ 1	1.815+ 1	72 3855	1	N, ALPHA
	66-DY-164	224	2.500- 8	2.500- 8	66 1557	15	N, X GAMMA
N	66-DY-164	334	1.412+ 1	1.412+ 1	72 3851	24	N, ALPHA
N	66-DY-164	334	1.815+ 1	1.815+ 1	72 3855	26	N, ALPHA
C	66-DY-164	521	5.000- 7	1.500+ 1	66 2630	1	ABSORPTION
N	66-DY-164	523	5.000- 7	1.500+ 1	72 3679	1	N, GAMMA
N	66-DY-164	873	2.500- 2	2.500- 2	72 3955	1	N, GAMMA
C	66-DY-164		0.000+ 0	1.316- 3	70 2245	2	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 66164

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 66164

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	66-DY-164		1.470-4	2.115-2	75 3835	3	AVERAGE RESONANCE PARAMETERS
	66-DY-164		-1.890-6	-1.890-6	61 2255	3	RESONANCE PARAMETERS
	66-DY-164		1.454-4	1.316-3	70 2245	8	RESONANCE PARAMETERS
	66-DY-164		1.460-4	1.460-4	57 2251	2	RESONANCE PARAMETERS
N	66-DY-164		1.460-4	1.460-4	70 4024	1	RESONANCE PARAMETERS
N	66-DY-164		1.470-4	2.115-2	75 3835	237	RESONANCE PARAMETERS
N	66-DY-165	23	2.530-8	2.530-8	72 3679	1	N,GAMMA
N	66-DY-165	523	5.000-7	1.500+1	72 3679	1	N,GAMMA
	67-HO-165	1	2.220-9	2.380-9	65 1059	9	TOTAL
C	67-HO-165	1	1.000-9	9.400-7	67 2256	111	TOTAL
	67-HO-165	1	1.690-8	1.347-6	64 1039	63	TOTAL
	67-HO-165	1	2.570-8	5.000-7	52 437	20	TOTAL
	67-HO-165	1	2.250-7	1.150-5	53 1057	54	TOTAL
	67-HO-165	1	3.050-6	3.400-4	55 862	258	TOTAL
N	67-HO-165	1	3.588-5	3.058-3	70 3609	13787	TOTAL
	67-HO-165	1	2.500-3	2.038-0	66 1789	96	TOTAL
	67-HO-165	1	5.000-2	2.950+0	54 101	27	TOTAL
	67-HO-165	1	1.007-1	1.493+0	70 1040	751	TOTAL
	67-HO-165	1	3.010-1	4.050-1	63 1058	11	TOTAL
	67-HO-165	1	3.300-1	5.600+0	68 201P	5	TOTAL
N	67-HO-165	1	8.000-1	9.023+0	74 3895	588	TOTAL
N	67-HO-165	1	8.310-1	1.090+0	70 3744	8	TOTAL
	67-HO-165	1	1.002+0	2.002+0	69 3310	101	TOTAL
	67-HO-165	1	1.063+0	1.357+2	70 3149	103	TOTAL
	67-HO-165	1	2.427+0	1.496+	67 750	233	TOTAL
	67-HO-165	1	8.050+0	1.500+1	66 1169	2	TOTAL
	67-HO-165	1	1.400+1	1.400+1	66 1170	1	TOTAL
N	67-HO-165	1	1.479+1	1.888+1	73 3957	31	TOTAL
	67-HO-165	2	3.000-1	1.500+0	70 1040	62	ELASTIC
	67-HO-165	5	2.530-8	2.530-8	65 2983	1	TOTAL SCATTERING
N	67-HO-165	5	2.530-8	2.530-8	67 2256	1	TOTAL SCATTERING
	67-HO-165	5	9.800-1	9.800-1	63 879	1	TOTAL SCATTERING
	67-HO-165	11	4.200-1	1.500+0	70 1040	163	N,N'
	67-HO-165	12	1.400+1	1.400+1	66 2258	1	N,2N
	67-HO-165	12	1.470+1	1.470+1	68 1718	1	N,2N
	67-HO-165	12	1.480+1	1.480+1	61 703	1	N,2N
C	67-HO-165	12	1.775+1	1.947+1	68 2891	9	N,2N
	67-HO-165	12	1.400+1	1.400+1	66 2258	2	N,2N
	67-HO-165	12	3.1470+1	1.470+1	64 1848	1	N,2N
	67-HO-165	12	1.270+1	1.939+1	67 1686	10	N,2N
	67-HO-165	21	2.530-8	2.530-8	61 2973	1	ABSORPTION
	67-HO-165	21	2.530-8	2.530-8	65 2983	1	ABSORPTION
N	67-HO-165	23	2.530-8	2.530-8	67 2256	1	N,GAMMA
	67-HO-165	23	3.700-7	4.200-2	65 1064	94	N,GAMMA
N	67-HO-165	23	1.910-4	2.470-1	73 3829	29	N,GAMMA
	67-HO-165	23	2.000-4	9.300-3	61 718	50	N,GAMMA
N	67-HO-165	23	5.000-3	1.600-1	72 3436	16	N,GAMMA
	67-HO-165	23	9.500-3	1.675-1	61 677	54	N,GAMMA
N	67-HO-165	23	2.370-2	2.370-2	75 3909	1	N,GAMMA
	67-HO-165	23	3.000-2	6.500-2	63 1	2	N,GAMMA
N	67-HO-165	23	3.000-2	3.000-1	72 3877	4	N,GAMMA
N	67-HO-165	23	4.000-1	4.000-1	71 3821	2	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 67165

07/04/76

ECISIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 67165

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 67-HO-165	23	4.000-	1	3.000+ 0	75 3886	16	N, GAMMA
67-HO-165	23	1.400+	1	1.400+ 1	71 3194	1	N, GAMMA
67-HO-165	23	1.450+	1	1.450+ 1	57 521	1	N, GAMMA
67-HO-165	23 4	2.530-	8	2.530- 8	47 888	1	N, GAMMA
67-HO-165	23 4	2.530-	8	2.530- 8	62 2972	1	N, GAMMA
67-HO-165	23 4	2.400-	2	2.400- 2	65 867	1	N, GAMMA
67-HO-165	23 4	1.800-	1	5.500+ 0	59 663	15	N, GAMMA
67-HO-165	23 4	9.700-	1	1.939+ 1	67 1698	17	N, GAMMA
67-HO-165	23 4	3.000+	0	3.000+ 0	67 1991	1	N, GAMMA
C 67-HO-165	23 4	1.340+	1	1.500+ 1	67 1695	9	N, GAMMA
67-HO-165	26 3	1.410+	1	1.410+ 1	61 704	1	N, P
67-HO-165	26 4	1.410+	1	1.410+ 1	61 704	1	N, P
67-HO-165	34 4	1.420+	1	1.420+ 1	69 2334	1	N, ALPHA
67-HO-165	43	2.530-	8	2.530- 8	58 2971	1	COHERENT SCATTERING
N 67-HO-165	45	6.225-	4	6.225- 4	70 3605	1	POTENTIAL SCATTERING
67-HO-165	71	2.500-	3	2.500- 8	51 882	1	ABSORPTION
67-HO-165	73	2.005-	4	1.175- 2	70 421	99	N, GAMMA
67-HO-165	73 6	2.500-	8	2.500- 8	69 2020	1	N, GAMMA
67-HO-165	73 7	2.530-	8	2.530- 8	70 2415	83	N, GAMMA
67-HO-165	73 10	2.530-	8	2.530- 8	70 2415	22	N, GAMMA
67-HO-165	74	2.530-	8	2.530- 8	70 2415	1	N, X GAMMA
67-HO-165	102	3.500-	1	3.500- 1	65 1058	12	ELASTIC
67-HO-165	102	9.800-	1	9.800- 1	63 979	9	ELASTIC
67-HO-165	134	1.470+	1	1.470+ 1	63 2857	1	N, ALPHA
N 67-HO-165	134	1.815+	1	1.815+ 1	73 3985	1	ANGULAR DISTRIBUTION
N 67-HO-165	334	1.815+	1	1.815+ 1	73 3985	28	N, ALPHA
67-HO-165	452	3.000-	1	1.500+ 0	70 1040	233	ELASTIC
C 67-HO-165	521	5.000-	7	1.500+ 1	68 2770	1	ABSORPTION
67-HO-165	523	2.000-	7	1.000- 2	70 421	1	N, GAMMA
C 67-HO-165	523	5.000-	7	1.500+ 1	66 1936	1	N, GAMMA
N 67-HO-165	523	5.000-	7	1.500+ 1	69 3680	1	N, GAMMA
67-HO-165	873	4.000-	1	4.000- 1	71 3821	1	N, GAMMA
67-HO-165	873	1.000+	0	1.000+ 0	71 3225	1	N, GAMMA
C 67-HO-165		0.000+	0	9.000- 5	55 862	1	AVERAGE RESONANCE PARAMETERS
C 67-HO-165		0.000+	0	5.000- 4	67 2163	3	AVERAGE RESONANCE PARAMETERS
N 67-HO-165		0.000+	0	1.350- 3	71 3136	2	AVERAGE RESONANCE PARAMETERS
N 67-HO-165		0.000+	0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N 67-HO-165		0.000+	0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
N 67-HO-165		5.000-	6	2.000- 1	70 3505	3	AVERAGE RESONANCE PARAMETERS
C 67-HO-165		1.000-	3	1.000- 1	68 2090	1	AVERAGE RESONANCE PARAMETERS
67-HO-165		3.910-	6	5.104- 4	67 2163	178	RESONANCE PARAMETERS
67-HO-165		3.920-	6	3.920- 6	68 2743	2	RESONANCE PARAMETERS
67-HO-165		3.920-	6	1.280- 5	62 2448	2	RESONANCE PARAMETERS
67-HO-165		3.920-	6	1.300- 4	55 862	45	RESONANCE PARAMETERS
67-HO-165		3.924-	6	3.924- 6	61 2449	6	RESONANCE PARAMETERS
67-HO-165		3.924-	6	5.400- 5	66 2260	11	RESONANCE PARAMETERS
67-HO-165		3.960-	6	3.900- 5	53 1057	5	RESONANCE PARAMETERS
67-HO-165		3.960-	6	3.900- 5	54 2327	5	RESONANCE PARAMETERS
67-HO-165		6.140-	6	2.610- 4	68 2038	82	RESONANCE PARAMETERS
C 67-HO-165		6.160-	6	1.233- 3	71 3136	278	RESONANCE PARAMETERS
N 67-HO-165		6.160-	6	1.720- 3	70 3605	1118	RESONANCE PARAMETERS
67-HO-165		1.820-	5	2.130- 5	65 2259	2	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-249 ***

ZA = 67165

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 67165

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
67-HO-165			1.830- 5	8.600- 5	70 3078	13	RESONANCE PARAMETERS
68-CR-NAT	1		3.430-10	2.504- 9	66 2052	7	TOTAL
68-CR-NAT	1		6.700-10	2.950- 7	63 2221	32	TOTAL
68-CR-NAT	1		1.030- 9	6.500- 7	60 2261	126	TOTAL
N 68-CR-NAT	1		5.490- 9	2.950- 7	67 2256	24	TOTAL
68-CR-NAT	1		2.530- 8	2.530- 8	52 437	1	TOTAL
68-CR-NAT	1		2.530- 8	2.530- 8	66 2221	1	TOTAL
N 68-CR-NAT	1		3.300- 8	2.700- 7	70 3627	4	TOTAL
68-CR-NAT	1		2.057- 7	8.889- 7	50 2243	86	TOTAL
68-CR-NAT	1		1.040- 6	5.560- 5	54 2327	77	TOTAL
68-CR-NAT	1		5.000- 3	6.400- 1	65 922	93	TOTAL
68-CR-NAT	1		5.000- 2	2.970+ 0	53 101	23	TOTAL
N 68-CR-NAT	1		8.000- 1	9.023+ 0	74 3895	587	TOTAL
68-CR-NAT	1		2.257+ 0	1.495+ 1	67 750	234	TOTAL
68-CR-NAT	1		1.314+ 1	1.560+ 1	58 324	3	TOTAL
68-CR-NAT	2		2.530- 8	2.530- 8	68 3316	1	ELASTIC
N 68-CR-NAT	2		9.529- 1	9.529- 1	72 3546	1	ELASTIC
68-CR-NAT	5		2.530- 8	2.530- 8	53 2766	1	TOTAL SCATTERING
68-CR-NAT	5		2.530- 8	2.530- 8	66 2221	1	TOTAL SCATTERING
68-CR-NAT	5		9.800- 1	9.800- 1	63 879	1	TOTAL SCATTERING
68-CR-NAT	21		2.530- 8	2.530- 8	66 2221	1	ABSORPTION
68-CR-NAT	23		1.040- 8	1.230- 6	64 2262	88	N,GAMMA
N 68-CR-NAT	23		2.530- 8	2.530- 8	67 2256	1	N,GAMMA
N 68-CR-NAT	23		2.530- 8	2.700- 7	70 3627	5	N,GAMMA
68-CR-NAT	23		2.060- 4	7.800- 3	61 718	45	N,GAMMA
68-CR-NAT	23		9.450- 3	1.720- 1	61 677	49	N,GAMMA
68-CR-NAT	23		3.000- 2	6.500- 2	63 1	2	N,GAMMA
N 68-CR-NAT	23		3.000- 2	3.000- 1	72 3877	4	N,GAMMA
N 68-CR-NAT	43		2.530- 8	2.530- 8	53 2766	1	COHERENT SCATTERING
68-CR-NAT	55		1.150- 7	1.150- 7	68 3393	1	TOTAL SCATTERING
68-CR-NAT	71		2.500- 8	2.500- 8	51 882	1	ABSORPTION
68-CR-NAT	73	7	2.530- 8	2.530- 8	70 2415	91	N,GAMMA
68-CR-NAT	73	10	2.530- 8	2.530- 8	70 2415	28	N,GAMMA
68-CR-NAT	74		2.530- 8	2.530- 8	70 2415	1	N,X GAMMA
N 68-CR-NAT	102		9.529- 1	9.529- 1	72 3546	8	ELASTIC
68-CR-NAT	102		9.800- 1	9.800- 1	63 879	8	ELASTIC
N 68-CR-NAT	102		1.450+ 0	1.450+ 0	72 3773	13	ELASTIC
N 68-CR-NAT	105	1	2.020+ 0	3.550+ 0	72 3773	52	TOTAL SCATTERING
N 68-CR-NAT	224	80	4.600- 7	5.800- 7	65 3741	8	N,X GAMMA
C 68-CR-NAT	521		5.000- 7	1.500+ 1	68 2770	1	ABSORPTION
68-CR-NAT			3.000- 3	6.500- 1	64 1226	3	AVERAGE RESONANCE PARAMETERS
68-CR-NAT			2.370- 5	2.760- 4	68 3316	14	RESONANCE PARAMETERS
68-CR-162	1		1.160- 8	1.125- 7	68 3316	121	TOTAL
68-CR-162	1		2.530- 8	2.530- 8	65 2430	1	TOTAL
68-CR-162	1		2.530- 8	2.530- 8	66 2974	1	TOTAL
68-CR-162	2		2.530- 8	2.530- 8	68 3316	1	ELASTIC
68-CR-162	12		1.420- 1	1.420- 1	69 2334	1	N,2N
N 68-CR-162	12		1.480- 1	1.480- 1	72 3832	1	N,2N
68-CR-162	23		2.530- 8	2.530- 9	68 3316	1	N,GAMMA
N 68-CR-162	55		1.150- 7	1.150- 7	68 3393	1	TOTAL SCATTERING
68-CR-162	73		2.500- 8	2.500- 8	59 2984	1	N,GAMMA
68-CR-162	73		2.500- 8	2.500- 8	70 3376	1	N,GAMMA

SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 ANGULAR DISTRIBUTION
 ANGULAR DISTRIBUTION
 ANGULAR DISTRIBUTION
 ANGULAR DISTRIBUTION
 ENERGY DISTRIBUTION
 RESONANCE INTEGRAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-250 ***

ZA = 68162

D7/D4/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 68162

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	68-ER-162	523	4.000-7	1.000+0	70 3376	1	N,GAMMA RESONANCE INTEGRAL
C	68-ER-162		5.000-6	1.500-2	67 2263	5	AVERAGE RESONANCE PARAMETERS
C	68-ER-162		7.000-6	1.320-4	68 3316	1	AVERAGE RESONANCE PARAMETERS
	68-ER-162		5.480-0	2.285-4	67 2263	34	RESONANCE PARAMETERS
	68-ER-162		7.600-6	1.320-4	68 3316	10	RESONANCE PARAMETERS
	68-ER-162		7.580-6	2.100-5	65 2430	3	RESONANCE PARAMETERS
	68-ER-162		1.470-5	4.580-5	57 2024	2	RESONANCE PARAMETERS
	68-ER-164	1	2.530-8	2.530-8	67 2263	1	TOTAL
	68-ER-164	2	2.530-8	2.530-8	68 3316	1	ELASTIC
N	68-ER-164	55	1.150-7	1.150-7	68 3393	1	TOTAL SCATTERING SPECTRUM AVERAGED CROSS SECTION
	68-ER-164	73	2.500-8	2.500-8	59 2984	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	68-ER-164	73	2.500-8	2.500-8	70 3376	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
C	68-ER-164	923	4.000-7	1.000+0	70 3376	1	N,GAMMA RESONANCE INTEGRAL
C	68-ER-164		0.000+0	6.060-4	67 2885	2	AVERAGE RESONANCE PARAMETERS
C	68-ER-164		8.000-6	1.500-2	67 2263	5	AVERAGE RESONANCE PARAMETERS
C	68-ER-164		3.050-5	2.255-4	67 2945	1	AVERAGE RESONANCE PARAMETERS
	68-ER-164		7.000-6	6.060-4	67 2885	28	RESONANCE PARAMETERS
	68-ER-164		7.320-6	2.252-4	67 2263	24	RESONANCE PARAMETERS
	68-ER-164		7.350-6	7.950-6	65 2430	1	RESONANCE PARAMETERS
	68-ER-164		7.350-6	7.950-6	68 3316	1	RESONANCE PARAMETERS
	68-ER-164		3.040-5	5.630-5	57 2024	2	RESONANCE PARAMETERS
	68-ER-164		3.047-5	5.670-5	64 2262	2	RESONANCE PARAMETERS
	68-ER-166	1	1.160-8	1.125-7	68 3316	121	TOTAL
	68-ER-166	1	2.530-8	2.530-8	65 2430	1	TOTAL
	68-ER-166	2	2.530-8	2.530-8	68 3316	1	ELASTIC
	68-ER-166	12	1.470+1	1.470+1	68 1718	1	N,2N
	68-ER-166	12	1.480+1	1.490+1	60 672	1	N,2N
	68-ER-166	23	2.530-8	2.530-8	68 3316	1	N,GAMMA
N	68-ER-166	23	5.280-3	6.820-2	74 4060	32	N,GAMMA
	68-ER-166	23	2.530-8	2.530-8	64 2545	1	N,GAMMA
N	68-ER-166	26	1.480+1	1.480+1	72 3832	1	N,P
N	68-ER-166	55	1.150-7	1.150-7	68 3393	1	TOTAL SCATTERING SPECTRUM AVERAGED CROSS SECTION
	68-ER-166	73	2.500-8	2.500-8	58 2979	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	68-ER-166	73	2.500-8	2.500-8	63 2581	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	68-ER-166	224 80	2.530-8	2.530-8	67 1900	25	N,X GAMMA ENERGY DISTRIBUTION
C	68-ER-166		0.000+0	1.400-3	67 2885	2	AVERAGE RESONANCE PARAMETERS
C	68-ER-166		0.000+0	4.200-3	71 3050	2	AVERAGE RESONANCE PARAMETERS
C	68-ER-166		1.200-5	2.890-3	67 2945	1	AVERAGE RESONANCE PARAMETERS
C	68-ER-166		1.500-5	1.600-2	67 2263	4	AVERAGE RESONANCE PARAMETERS
	68-ER-166		1.540-5	7.330-5	57 2024	2	RESONANCE PARAMETERS
	68-ER-166		1.554-5	8.100-5	64 2262	4	RESONANCE PARAMETERS
	68-ER-166		1.556-5	6.030-4	67 2263	20	RESONANCE PARAMETERS
	68-ER-166		1.556-5	9.486-3	71 3050	183	RESONANCE PARAMETERS
	68-ER-166		1.560-5	1.560-5	65 2430	1	RESONANCE PARAMETERS
	68-ER-166		1.560-5	1.370-3	67 2885	58	RESONANCE PARAMETERS
N	68-ER-166		1.560-5	1.560-5	68 3316	1	RESONANCE PARAMETERS
	68-ER-167	1	1.160-8	1.125-7	68 3316	121	TOTAL
	68-ER-167	1	2.530-8	2.530-8	65 2430	1	TOTAL
	68-ER-167	1	2.057-7	8.089-7	60 2243	84	TOTAL
	68-ER-167	2	2.530-8	2.530-8	68 3316	1	ELASTIC
N	68-ER-167	11	1.450+1	1.450+1	70 2987	1	N,N'
C	68-ER-167	11	2.800+0	2.800+0	67 2602	1	N,N'

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-251 ***

ZA = 68167

07/01/76

EC51 -7600 REACTION INDEX (ZA ORDERED)

ZA = 68167

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
68-ER-167	23		2.530-8	2.530-8	67 2355	1	N, GAMMA
68-ER-167	23		2.530-8	2.530-8	68 3316	1	N, GAMMA
68-ER-167	23		6.040-3	6.820-2	74 4060	31	N, GAMMA
68-ER-167	26		1.480+1	1.480+1	60 672	1	N, P
68-ER-167	55		1.150-7	1.150-7	68 3393	1	TOTAL SCATTERING
68-ER-167	73		2.500-8	2.500-8	58 2979	1	N, GAMMA
68-ER-167	73		2.500-8	2.500-8	67 2355	1	N, GAMMA
68-ER-167	73		2.530-8	2.530-8	67 3452	1	N, GAMMA
68-ER-167	523		5.400-7	1.500+1	67 3452	1	N, GAMMA
68-ER-167			0.000+0	3.220+4	67 2885	2	AVERAGE RESONANCE PARAMETERS
68-ER-167			0.000+0	2.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
68-ER-167			0.000+0	1.300-2	67 2263	5	AVERAGE RESONANCE PARAMETERS
68-ER-167			4.000-7	6.300-5	68 3316	2	AVERAGE RESONANCE PARAMETERS
68-ER-167			8.000-6	3.740-4	67 2945	1	AVERAGE RESONANCE PARAMETERS
68-ER-167			4.600-7	5.800-7	65 2451	4	RESONANCE PARAMETERS
68-ER-167			4.600-7	5.840-7	60 2243	12	RESONANCE PARAMETERS
68-ER-167			4.600-7	2.120-5	61 2449	5	RESONANCE PARAMETERS
68-ER-167			4.600-7	2.760-5	63 2428	7	RESONANCE PARAMETERS
68-ER-167			4.600-7	1.422-4	67 2263	56	RESONANCE PARAMETERS
68-ER-167			4.600-7	1.700-4	65 2430	21	RESONANCE PARAMETERS
68-ER-167			4.600-7	9.600-6	70 3076	4	RESONANCE PARAMETERS
68-ER-167			4.700-7	9.400-6	59 2465	4	RESONANCE PARAMETERS
68-ER-167			4.700-7	9.400-5	57 2024	26	RESONANCE PARAMETERS
68-ER-167			4.700-7	2.750-5	54 2327	5	RESONANCE PARAMETERS
68-ER-167			5.960-6	3.210-4	67 2885	146	RESONANCE PARAMETERS
68-ER-167			5.970-6	1.134-4	64 2262	33	RESONANCE PARAMETERS
68-ER-167			5.970-6	6.220-5	68 3316	15	RESONANCE PARAMETERS
68-ER-167			5.990-6	1.686-3	71 3060	336	RESONANCE PARAMETERS
68-ER-167			7.905-5	7.905-6	65 2450	3	RESONANCE PARAMETERS
68-ER-167			2.026-5	1.423-4	72 3824	21	RESONANCE PARAMETERS
68-ER-167			2.030-5	2.740-5	70 2297	4	RESONANCE PARAMETERS
68-ER-167			1.161-4	1.429-4	63 2164	3	RESONANCE PARAMETERS
68-ER-168	1		2.530-8	2.530-8	65 2430	1	TOTAL
68-ER-168	1		2.530-8	2.530-8	67 2263	1	TOTAL
68-ER-168	2		2.530-8	2.530-8	68 3316	1	ELASTIC
68-ER-168	12		1.450+1	1.450+1	70 2987	1	N, 2N
68-ER-168	12		1.480+1	1.463+1	65 2120	1	N, 2N
68-ER-168	12		1.480+1	1.463+1	66 1901	1	N, 2N
68-ER-168	23		2.530-8	2.530-8	68 3316	1	N, GAMMA
68-ER-168	23		5.250-3	6.820-2	74 4060	32	N, GAMMA
68-ER-168	26		1.480+1	1.480+1	60 672	1	N, P
68-ER-168	34		1.400+1	1.480+1	60 672	2	N, ALPHA
68-ER-168	55		1.150-7	1.150-7	68 3393	1	TOTAL SCATTERING
68-ER-168	73		2.500-8	2.500-8	54 2980	1	N, GAMMA
68-ER-168	73		2.500-8	2.500-8	70 3376	1	N, GAMMA
68-ER-168	73		2.530-8	2.530-8	67 3452	1	N, GAMMA
68-ER-168	523		4.000-7	1.000+0	70 3376	1	N, GAMMA
68-ER-168	523		5.400-7	1.500+1	67 3452	1	N, GAMMA
68-ER-168			0.000+0	1.460-3	67 2885	2	AVERAGE RESONANCE PARAMETERS
68-ER-168			0.000+0	1.000-2	71 3060	1	AVERAGE RESONANCE PARAMETERS
68-ER-168			8.000-5	4.290-3	67 2945	1	AVERAGE RESONANCE PARAMETERS
68-ER-168			8.000-5	1.500-2	67 2263	4	AVERAGE RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-252 ***

ZA = 68168

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 68168

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
68-ER-168		3.920	-6	1.486	-2	71 3060	157 RESONANCE PARAMETERS
68-ER-168		7.310	-6	4.360	-3	67 2885	44 RESONANCE PARAMETERS
68-ER-168		7.940	-5	7.340	-5	57 2024	1 RESONANCE PARAMETERS
68-ER-168		7.990	-5	7.990	-5	64 2262	1 RESONANCE PARAMETERS
68-ER-168		7.990	-5	1.410	-3	67 2263	16 RESONANCE PARAMETERS
68-ER-170	1	2.530	-8	2.530	-8	65 2430	1 TOTAL
68-ER-170	2	2.530	-8	2.530	-8	68 3316	1 ELASTIC
68-ER-170	12	1.480	+1	1.480	+1	60 672	1 N,2N
68-ER-170	12	1.480	+1	1.480	+1	64 1958	1 N,2N
68-ER-170	23	2.530	-8	2.530	-8	66 3316	1 N,GAMMA
68-ER-170	23	4.900	-3	2.644	+0	67 2694	20 N,GAMMA
N 68-ER-170	23	5.280	-3	6.820	-2	74 4060	32 N,GAMMA
68-ER-170	23	2.400	-2	2.400	-2	57 305	1 N,GAMMA
68-ER-170	23	2.400	-2	2.400	-2	68 2656	1 N,GAMMA
68-ER-170	23	3.000	+0	3.000	+0	67 1991	1 N,GAMMA
N 68-ER-170	23	1.440	+1	1.440	+1	72 3963	1 N,GAMMA
68-ER-170	26	1.480	+1	1.480	+1	60 672	1 N,P
68-ER-170	34	1.480	+1	1.480	+1	60 672	1 N,ALPHA
N 68-ER-170	55	1.150	-7	1.150	-7	68 3393	1 TOTAL SCATTERING
68-ER-170	73	2.500	-8	2.500	-8	54 2980	1 N,GAMMA
68-ER-170	73	2.500	-8	2.500	-8	70 3376	1 N,GAMMA
N 68-ER-170	73	2.530	-8	2.530	-8	67 3452	1 N,GAMMA
N 68-ER-170	73	8.300	-1	8.300	-1	73 3994	1 N,GAMMA
68-ER-170	73	2.500	-8	2.500	-8	63 1961	1 N,GAMMA
N 68-ER-170	73 87	2.530	-8	2.530	-8	73 3998	74 N,GAMMA
C 68-ER-170	523	4.000	-7	1.000	+0	70 3376	1 N,GAMMA
C 68-ER-170	523	5.400	-7	1.500	+1	67 3452	1 N,GAMMA
C 68-ER-170		0.000	+0	2.840	-3	67 2885	2 AVERAGE RESONANCE PARAMETERS
C 68-ER-170		0.000	+0	1.700	-2	71 3060	1 AVERAGE RESONANCE PARAMETERS
C 68-ER-170		9.000	-5	4.250	-3	67 2945	1 AVERAGE RESONANCE PARAMETERS
68-ER-170		3.900	-6	2.370	-2	71 3060	155 RESONANCE PARAMETERS
68-ER-170		7.400	-6	4.730	-3	67 2885	34 RESONANCE PARAMETERS
68-ER-170		9.380	-5	9.380	-5	57 2024	1 RESONANCE PARAMETERS
68-ER-170		9.450	-5	9.450	-5	65 2430	1 RESONANCE PARAMETERS
68-ER-170		9.450	-5	9.450	-5	68 3316	1 RESONANCE PARAMETERS
68-ER-170		9.480	-5	9.480	-5	67 2263	2 RESONANCE PARAMETERS
69-TM-169	1	9.500	-10	9.500	-7	67 2256	63 TOTAL
69-TM-169	1	3.735	-8	1.585	-6	56 2484	362 TOTAL
N 69-TM-169	1	3.502	-7	3.200	-6	71 3669	30 TOTAL
N 69-TM-169	1	2.556	-5	5.000	-3	72 3611	12400 TOTAL
N 69-TM-169	1	2.319	+0	1.481	+1	67 750	235 TOTAL
69-TM-169	5	2.530	-8	2.530	-8	67 2256	1 TOTAL SCATTERING
N 69-TM-169	12	8.440	+0	1.478	+1	75 3807	14 N,2N
69-TM-169	12	9.800	+0	1.450	+1	60 590	7 N,2N
N 69-TM-169	12	1.384	+1	1.494	+1	72 3437	9 N,2N
69-TM-169	12	1.384	+1	1.494	+1	69 2913	5 N,2N
69-TM-169	12	1.470	+1	1.470	+1	68 1718	1 N,2N
N 69-TM-169	12	1.480	+1	1.480	+1	72 3832	1 N,2N
N 69-TM-169	12 5	8.650	+0	2.802	+1	75 3690	15 N,2N
69-TM-169	23	2.530	-8	2.530	-8	47 888	1 N,GAMMA
N 69-TM-169	23	2.530	-7	2.530	-7	67 2256	1 N,GAMMA
69-TM-169	23	2.000	-4	7.500	-3	61 718	46 N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-253 ***

ZA = 69169

07/04/76

ECLIP-7600 REACTION INDEX (ZA ORDERED)

ZA = 69169

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
69-TM-169	23		5.500-	3 1.670-	1 61 677	57	N,GAMMA
69-TM-169	23		2.500-	2 2.500-	2 70 3971	1	N,GAMMA
69-TM-169	23		3.000-	2 6.500-	2 63 1	2	N,GAMMA
N 69-TM-169	45		3.200-	6 3.200-	6 71 3669	1	POTENTIAL SCATTERING
N 69-TM-169	45		1.000-	3 1.000-	3 71 3610	1	POTENTIAL SCATTERING
N 69-TM-169	62		1.000+	0 1.000+	0 66 3534	1	N,2N
69-TM-169	71		2.500-	8 2.500-	8 51 882	1	ABSORPTION
69-TM-169	73		2.500-	8 2.500-	8 70 3377	1	N,GAMMA
N 69-TM-169	73		2.530-	8 2.530-	8 67 3452	1	N,GAMMA
69-TM-169	73		2.530-	8 2.530-	8 70 2415	93	N,GAMMA
69-TM-169	73		2.530-	8 2.530-	8 70 2415	24	N,GAMMA
69-TM-169	74		2.530-	8 2.530-	8 70 2415	1	N,X GAMMA
69-TM-169	224	80	2.500-	8 2.500-	8 66 1560	13	N,X GAMMA
69-TM-169	224	80	3.900-	6 3.900-	6 65 3741	4	N,X GAMMA
69-TM-169	521		5.000-	7 1.500+	1 68 2770	1	ABSORPTION
69-TM-169	523		4.000-	7 1.000+	0 70 3377	1	N,GAMMA
69-TM-169	523		5.000-	7 1.500+	1 69 3680	1	N,GAMMA
69-TM-169	523		5.400-	7 1.500+	1 67 3452	1	N,GAMMA
69-TM-169	873		1.000+	0 1.000+	0 71 3225	1	N,GAMMA
69-TM-169			0.000+	0 7.500-	5 55 862	1	AVERAGE RESONANCE PARAMETERS
69-TM-169			0.000+	0 7.000-	4 66 1872	2	AVERAGE RESONANCE PARAMETERS
69-TM-169			0.000+	0 1.750-	3 71 3136	1	AVERAGE RESONANCE PARAMETERS
69-TM-169			0.000+	0 2.000-	3 58 1191	1	AVERAGE RESONANCE PARAMETERS
69-TM-169			0.000+	0 8.000-	2 71 3610	6	AVERAGE RESONANCE PARAMETERS
69-TM-169			2.000-	6 7.500-	4 69 2547	4	AVERAGE RESONANCE PARAMETERS
69-TM-169			3.900-	6 3.900-	6 67 3042	4	RESONANCE PARAMETERS
69-TM-169			3.900-	6 3.900-	6 71 3669	1	RESONANCE PARAMETERS
69-TM-169			3.900-	6 1.410-	4 69 3043	13	RESONANCE PARAMETERS
69-TM-169			3.900-	6 7.160-	4 72 3576	68	RESONANCE PARAMETERS
69-TM-169			3.900-	6 7.605-	4 69 2547	169	RESONANCE PARAMETERS
69-TM-169			3.920-	6 3.920-	6 65 2254	1	RESONANCE PARAMETERS
69-TM-169			3.920-	6 1.760-	5 53 1057	3	RESONANCE PARAMETERS
69-TM-169			3.920-	6 1.760-	5 54 2327	3	RESONANCE PARAMETERS
69-TM-169			3.920-	6 1.580-	4 55 862	37	RESONANCE PARAMETERS
69-TM-169			3.920-	6 1.640-	4 63 2265	75	RESONANCE PARAMETERS
69-TM-169			3.920-	6 8.340-	5 68 3082	9	RESONANCE PARAMETERS
69-TM-169			3.920-	6 1.152-	4 70 3082	14	RESONANCE PARAMETERS
69-TM-169			3.920-	6 1.942-	3 71 3610	973	RESONANCE PARAMETERS
69-TM-169			4.000-	6 3.490-	5 67 2264	5	RESONANCE PARAMETERS
69-TM-169			1.430-	5 2.970-	4 65 1949	54	RESONANCE PARAMETERS
69-TM-169			1.440-	5 1.530-	4 72 3924	13	RESONANCE PARAMETERS
69-TM-169			1.450-	5 5.070-	5 63 3037	5	RESONANCE PARAMETERS
69-TM-169			1.450-	5 5.070-	5 63 2453	9	RESONANCE PARAMETERS
69-TM-170	1		5.000-	8 1.000-	4 74 3528	394	TOTAL
69-TM-170	73		2.530-	8 2.530-	8 67 3452	1	N,GAMMA
69-TM-170	523		5.400-	7 1.500+	1 67 3452	1	N,GAMMA
69-TM-170			2.800-	6 8.960-	5 74 3528	33	RESONANCE PARAMETERS
69-TM-171	1		5.000-	8 1.000-	4 74 3528	347	TOTAL
69-TM-171	73		2.530-	8 2.530-	8 67 3452	1	N,GAMMA
69-TM-171	523		5.400-	7 1.500+	1 67 3452	1	N,GAMMA
69-TM-171			4.920-	6 6.410-	5 74 3528	9	RESONANCE PARAMETERS
70-YB-NAT	1		1.750-	9 2.400-	7 63 2221	22	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-254 ***

ZA = 70000

07/04/76

EGSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 70000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	70-YB-NAT	1	1.750-9	4.090-7	67 2256	51	TOTAL
	70-YB-NAT	1	2.530-8	2.530-8	66 2221	1	TOTAL
	70-YB-NAT	1	2.530-8	2.530-8	68 2267	1	TOTAL
	70-YB-NAT	1	7.350-8	7.350-8	61 2845	1	TOTAL
	70-YB-NAT	1	1.510-7	2.944-5	54 2327	96	TOTAL
	70-YB-NAT	1	1.440-4	3.600-2	55 2042	47	TOTAL
	70-YB-NAT	1	5.000-2	2.950+0	53 101	26	TOTAL
N	70-YB-NAT	1	7.000-1	9.034+0	74 3895	642	TOTAL
	70-YB-NAT	1	2.487+0	1.472+1	67 750	231	TOTAL
N	70-YB-NAT	5	2.500-8	4.060-6	59 3398	54	TOTAL SCATTERING
	70-YB-NAT	5	2.530-8	2.530-8	61 2845	1	TOTAL SCATTERING
	70-YB-NAT	5	2.530-8	2.530-8	66 2221	1	TOTAL SCATTERING
N	70-YB-NAT	5	2.530-8	2.530-8	67 2256	1	TOTAL SCATTERING
	70-YB-NAT	5	9.800-1	9.800-1	63 879	1	TOTAL SCATTERING
	70-YB-NAT	21	2.530-8	2.530-8	66 2221	1	ABSORPTION
N	70-YB-NAT	23	2.530-8	2.530-8	67 2256	1	N,GAMMA
	70-YB-NAT	23	2.000-1	6.000-3	61 718	41	N,GAMMA
	70-YB-NAT	23	9.500-3	1.670-1	61 677	48	N,GAMMA
	70-YB-NAT	23	3.000-2	6.500-2	63 1	2	N,GAMMA
N	70-YB-NAT	23	3.000-2	1.650-1	72 3877	3	N,GAMMA
	70-YB-NAT	43	0.000+0	0.000+0	61 1408	1	COHERENT SCATTERING
	70-YB-NAT	43	2.530-8	2.530-8	61 2845	1	COHERENT SCATTERING
	70-YB-NAT	71	2.500-8	2.900-8	51 882	1	ABSORPTION
	70-YB-NAT	73	2.530-8	2.530-8	70 2415	179	N,GAMMA
	70-YB-NAT	73	2.530-8	2.530-8	70 2415	29	N,GAMMA
	70-YB-NAT	74	2.530-8	2.530-8	70 2415	1	N,X GAMMA
	70-YB-NAT	102	9.800-1	9.800-1	63 879	8	ELASTIC
C	70-YB-NAT	521	5.000-7	1.500+1	68 2770	1	ABSORPTION
	70-YB-NAT		2.260-5	2.260-5	66 2266	1	RESONANCE PARAMETERS
N	70-YB-168	12	1.480+1	1.480+1	72 3832	1	N,2N
N	70-YB-168	23	2.500-2	2.500-2	70 3971	1	N,GAMMA
	70-YB-168	73	2.500-8	2.500-8	61 2116	1	N,GAMMA
	70-YB-168	73	2.500-8	2.500-8	60 2313	1	N,GAMMA
	70-YB-168	73	2.500-8	2.500-8	70 3377	1	N,GAMMA
C	70-YB-168	523	4.000-7	1.000+0	70 3377	1	N,GAMMA
N	70-YB-168	523	5.000-7	1.500+1	69 3680	1	N,GAMMA
N	70-YB-168	523	5.000-7	1.500+1	72 3873	1	N,GAMMA
N	70-YB-168		6.000-7	2.890-4	72 3423	1	AVERAGE RESONANCE PARAMETERS
	70-YB-168		5.970-7	5.970-7	54 2327	3	RESONANCE PARAMETERS
	70-YB-168		5.970-7	2.256-5	68 2267	2	RESONANCE PARAMETERS
N	70-YB-168		6.000-7	2.890-4	72 3423	22	RESONANCE PARAMETERS
	70-YB-168		2.250-5	1.881-4	72 3145	2	RESONANCE PARAMETERS
	70-YB-168		2.260-5	2.260-5	66 2266	1	RESONANCE PARAMETERS
	70-YB-170	1	2.530-8	2.530-8	68 2267	1	TOTAL
	70-YB-170	12	1.470+1	1.470+1	68 1718	1	N,2N
N	70-YB-170	12	1.480+1	1.480+1	72 3832	1	N,2N
	70-YB-170	73	2.500-8	2.500-8	66 2244	1	N,GAMMA
N	70-YB-170	73	2.530-8	2.530-8	72 3639	73	N,GAMMA
C	70-YB-170		8.130-6	1.500-2	68 2267	3	AVERAGE RESONANCE PARAMETERS
	70-YB-170		8.130-6	4.490-4	68 2267	13	RESONANCE PARAMETERS
	70-YB-170		3.993-5	1.328-3	72 3145	19	RESONANCE PARAMETERS
	70-YB-170		4.030-5	7.320-5	66 2266	5	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-255 ***

ZA = 70170

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
70-YB-171	1	2-530-3	2-530-8	6B 2867	1	TOTAL	
70-YB-171	23	5-500-3	9-200-2	74 4094	32	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-171	73	2-500-8	2-500-8	56 2771	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-171	73	2-500-P	2-500-8	68 2844	76	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-171	73 87	0-000-0	2-530-8	71 3712	1	AVERAGE RESONANCE PARAMETERS	
70-YB-171		2-200-5	1-500-2	66 2866	3	AVERAGE RESONANCE PARAMETERS	
70-YB-171		2-200-5	3-540-4	67 2845	1	AVERAGE RESONANCE PARAMETERS	
70-YB-171		7-910-6	1-685-3	72 3145	239	RESONANCE PARAMETERS	
70-YB-171		7-930-6	1-470-4	66 2866	46	RESONANCE PARAMETERS	
70-YB-171		7-930-6	2-252-4	68 2867	30	RESONANCE PARAMETERS	
70-YB-171		8-090-6	1-313-5	54 2827	2	RESONANCE PARAMETERS	
70-YB-171		1-350-5	1-340-4	62 2019	14	RESONANCE PARAMETERS	
70-YB-172		2-530-8	2-530-8	68 2867	1	TOTAL	
70-YB-172	1	2-530-3	8-200-2	74 4094	32	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-172	23	2-500-8	2-500-8	56 2771	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-172	73	2-500-8	2-500-8	66 2844	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-172	523	5-000-7	1-500-1	66 2844	3	AVERAGE RESONANCE PARAMETERS	
70-YB-172		1-400-4	3-700-3	67 2945	103	RESONANCE PARAMETERS	
70-YB-172		1-388-4	8-160-4	69 2867	12	RESONANCE PARAMETERS	
70-YB-172		1-410-4	1-110-2	72 3145	1	RESONANCE PARAMETERS	
70-YB-172		2-530-8	2-530-8	68 2867	1	TOTAL	
70-YB-173	1	2-530-3	8-200-2	74 4094	32	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-173	23	2-500-8	2-500-8	56 2771	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-173	73	2-500-8	2-500-8	66 2844	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-173	73 87	5-000-7	1-500-1	66 2844	3	AVERAGE RESONANCE PARAMETERS	
70-YB-173	523	1-400-4	3-700-3	67 2945	103	RESONANCE PARAMETERS	
70-YB-173		1-388-4	8-160-4	69 2867	12	RESONANCE PARAMETERS	
70-YB-173		1-410-4	1-110-2	72 3145	1	RESONANCE PARAMETERS	
70-YB-173		2-530-8	2-530-8	68 2867	1	TOTAL	
70-YB-173		2-500-3	8-200-2	74 4094	32	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-173		2-500-8	2-500-8	56 2771	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-173		2-500-8	2-500-8	66 2844	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-173		5-000-7	1-500-1	66 2844	3	AVERAGE RESONANCE PARAMETERS	
70-YB-173		0-000-0	2-500-3	68 2866	1	RESONANCE PARAMETERS	
70-YB-173		0-000-0	2-500-2	69 2867	3	RESONANCE PARAMETERS	
70-YB-173		3-700-5	3-700-4	77 3145	14	RESONANCE PARAMETERS	
70-YB-173		4-500-6	2-102-4	69 2867	28	RESONANCE PARAMETERS	
70-YB-173		4-510-6	1-300-3	72 3145	27	RESONANCE PARAMETERS	
70-YB-173		4-530-6	1-820-5	66 2866	1	RESONANCE PARAMETERS	
70-YB-173		4-500-6	1-820-5	62 2019	1	RESONANCE PARAMETERS	
70-YB-173		2-530-8	2-530-8	68 2867	1	TOTAL	
70-YB-174	1	2-530-3	8-200-2	74 4094	31	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-174	23	2-500-8	2-500-8	70 3071	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-174	23 5	2-530-6	2-530-6	63 2581	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-174	26	1-480-1	1-480-1	67 2803	1	N.P	
70-YB-174	26	1-480-1	1-480-1	72 3032	1	N.P	
70-YB-174	73	2-500-8	2-500-8	56 2771	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-174	73	2-500-8	2-500-8	70 3377	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-174	73 2	2-500-8	2-500-8	63 2581	126	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-174	73 87	2-530-6	2-530-6	71 3714	1	N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-YB-174	523	4-000-7	1-000-0	70 3377	1	N.GAMMA	RESONANCE INTEGRAL
70-YB-174	523	5-000-7	1-500-1	69 3680	1	N.GAMMA	RESONANCE INTEGRAL
70-YB-174		3-500-4	3-290-3	67 2945	1	AVERAGE RESONANCE PARAMETERS	

07/04/75

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 70174

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
70-YB-174			3.430-4	1.980-2	1 72 3145	80	RESONANCE PARAMETERS
70-YB-174			3.450-4	8.850-4	68 2267	2	RESONANCE PARAMETERS
70-YB-176	1		2.530-8	2.530-8	68 2267	1	TOTAL
70-YB-176	11	2	1.450+1	1.450+1	62 2269	1	N,N'
70-YB-176	11	2	1.470+1	1.470+1	66 3368	1	N,N'
70-YB-176	12		1.480+1	1.480+1	60 672	1	N,2N
70-YB-176	12		1.480+1	1.480+1	61 703	1	N,2N
70-YB-176	12		1.480+1	1.480+1	64 1968	1	N,2N
70-YB-176	23		3.600-3	1.877+0	67 2694	20	N,GAMMA
70-YB-176	23		2.500-2	2.500-2	70 3971	1	N,GAMMA
70-YB-176	34		1.480+1	1.480+1	68 2316	1	N,ALPHA
70-YB-176	73		2.500-8	2.500-8	58 2771	1	N,GAMMA
70-YB-176	73		2.500-8	2.500-8	70 3377	1	N,GAMMA
70-YB-176	73 87		2.530-8	2.530-8	72 3698	78	N,GAMMA
70-YB-176	523		4.000-7	1.000+0	70 3377	1	N,GAMMA
70-YB-176			1.000+0	3.660-3	67 2945	1	AVERAGE RESONANCE PARAMETERS
70-YB-176			1.480+1	5.787-3	68 2267	2	AVERAGE RESONANCE PARAMETERS
70-YB-176			9.780-5	1.965-2	1 72 3145	68	RESONANCE PARAMETERS
70-YB-176			1.480+1	2.188-3	68 2267	7	RESONANCE PARAMETERS
71-LU-NAT	1		8.200-9	2.932-7	67 2256	58	TOTAL
71-LU-NAT	1		1.009-8	9.265-6	66 1553	387	TOTAL
71-LU-NAT	1		1.180-8	9.500-7	60 2270	75	TOTAL
71-LU-NAT	1		1.850-8	2.030-7	62 2221	25	TOTAL
71-LU-NAT	1		2.530-8	2.530-8	63 2221	1	TOTAL
71-LU-NAT	1		5.330-7	8.380-7	47 261	13	TOTAL
71-LU-NAT	1		2.299+0	1.481+1	67 750	236	TOTAL
71-LU-NAT	5		2.530-8	2.530-8	61 2945	1	TOTAL SCATTERING
71-LU-NAT	5		2.530-8	2.530-8	63 2221	1	TOTAL SCATTERING
71-LU-NAT	5		2.530-8	2.530-8	67 2256	1	TOTAL SCATTERING
71-LU-NAT	21		2.530-8	2.530-8	63 2221	1	ABSORPTION
71-LU-NAT	23		9.935-9	9.261-6	72 3147	386	N,GAMMA
71-LU-NAT	23		2.500-8	2.500-2	65 1064	174	N,GAMMA
71-LU-NAT	23		2.530-8	2.530-8	67 2256	1	N,GAMMA
71-LU-NAT	23		6.500-3	2.030-1	61 677	77	N,GAMMA
71-LU-NAT	23		3.000-2	6.500-2	63 1	2	N,GAMMA
71-LU-NAT	23		3.000-2	3.000-1	72 3877	4	N,GAMMA
71-LU-NAT	43		0.000+0	0.000+0	61 1408	1	COHERENT SCATTERING
71-LU-NAT	43		2.530-8	2.530-8	61 2845	1	COHERENT SCATTERING
71-LU-NAT	71		2.500-8	2.500-8	51 882	1	ABSORPTION
71-LU-NAT	73		2.530-8	2.530-8	64 895	1	N,GAMMA
71-LU-NAT	73	7	2.530-8	2.530-8	70 2415	71	N,GAMMA
71-LU-NAT	73	10	2.530-8	2.530-8	70 2415	25	N,GAMMA
71-LU-NAT	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA
71-LU-NAT	80	4	8.300-1	8.300-1	73 3994	1	ACTIVATION
71-LU-NAT	134		1.470+1	1.470+1	63 2257	1	N,ALPHA
71-LU-175	521		5.000-7	1.500+1	68 2770	1	ABSORPTION
71-LU-175	1		1.180-8	9.500-7	60 2270	75	TOTAL
71-LU-175	12		8.440+0	1.476+1	75 3807	14	N,2N
71-LU-175	12		1.380+1	1.442+1	72 3437	8	N,2N
71-LU-175	12		1.480+1	1.480+1	60 672	1	N,2N
71-LU-175	12	5	8.510+0	2.801+1	75 3890	14	N,2N
71-LU-175	12	5	1.470+1	1.470+1	68 1718	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-257 ***

ZA = 71175

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
71-LU-175	12	6	1.470+ 1	1.470+ 1	68 1718	1	N,2N
71-LU-175	23		1.026- 8	1.080- 5	75 3147	232	N,GAMMA
71-LU-175	23		2.000- 4	5.800- 3	61 718	44	N,GAMMA
71-LU-175	23		3.000- 2	2.000- 1	67 1807	8	N,GAMMA
71-LU-175	23		2.530- 8	2.530- 8	69 3678	1	N,GAMMA
71-LU-175	23	4	2.400- 2	2.400- 2	65 867	1	N,GAMMA
71-LU-175	23	4	1.410- 1	3.133+ 0	67 2694	18	N,GAMMA
71-LU-175	23	4	1.480+ 1	1.480+ 1	60 672	1	N,GAMMA
71-LU-175	26		1.450+ 1	1.450+ 1	59 550	1	N,P
71-LU-175	73	4	1.000+ 0	1.000+ 0	68 3730	1	N,GAMMA
71-LU-175	224	80	2.530- 8	2.530- 8	72 3915	53	N,X GAMMA
71-LU-175	521		5.000- 7	1.500+ 1	68 2770	1	ABSORPTION
71-LU-175			0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
71-LU-175			0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
71-LU-175			2.000- 6	5.000- 4	75 3625	3	AVERAGE RESONANCE PARAMETERS
71-LU-175			2.576- 6	2.576- 6	66 1553	3	RESONANCE PARAMETERS
71-LU-175			2.590- 6	2.985- 3	75 3625	892	RESONANCE PARAMETERS
71-LU-175			2.600- 6	4.060- 5	70 3079	11	RESONANCE PARAMETERS
71-LU-175			2.600- 6	2.740- 4	75 3570	57	RESONANCE PARAMETERS
71-LU-175			2.610- 6	5.740- 5	59 948	16	RESONANCE PARAMETERS
71-LU-175			4.780- 6	4.150- 5	55 862	12	RESONANCE PARAMETERS
71-LU-176	1		1.180- 8	7.500- 7	60 2270	74	TOTAL
71-LU-176	1		1.880- 8	5.034- 7	60 2333	46	TOTAL
71-LU-176	23		1.020- 8	1.981- 6	75 3147	277	N,GAMMA
71-LU-176	23		3.000- 2	2.000- 1	67 1807	8	N,GAMMA
71-LU-176	23	5	2.530- 8	2.530- 8	47 888	1	N,GAMMA
71-LU-176	23	5	2.530- 8	2.530- 8	62 2634	1	N,GAMMA
71-LU-176	73	5	2.500- 8	2.500- 8	67 2272	1	N,GAMMA
71-LU-176	224	80	2.530- 8	2.530- 8	72 3917	45	N,X GAMMA
71-LU-176	521		5.000- 7	1.500+ 1	67 2271	1	ABSORPTION
71-LU-176	521		5.000- 7	1.500+ 1	68 2770	1	ABSORPTION
71-LU-176			1.413- 7	1.563- 6	66 1553	6	RESONANCE PARAMETERS
71-LU-176			1.420- 7	1.420- 7	60 2333	7	RESONANCE PARAMETERS
71-LU-176			1.450- 7	1.450- 7	67 2256	2	RESONANCE PARAMETERS
71-LU-176			1.570- 6	4.670- 5	59 948	20	RESONANCE PARAMETERS
71-LU-176			6.170- 6	2.730- 5	55 862	5	RESONANCE PARAMETERS
72-HF-NAT	1		6.100-10	1.400- 7	61 2248	37	TOTAL
72-HF-NAT	1		1.790- 8	3.281- 7	61 2274	34	TOTAL
72-HF-NAT	1		2.530- 8	2.530- 8	52 437	1	TOTAL
72-HF-NAT	1		2.530- 8	3.515- 6	61 887	143	TOTAL
72-HF-NAT	1		9.510- 7	8.593- 3	53 2023	190	TOTAL
72-HF-NAT	1		2.300- 3	2.300- 3	50 247	1	TOTAL
72-HF-NAT	1		3.000- 2	6.500- 1	65 921	102	TOTAL
72-HF-NAT	1		5.000- 2	2.950+ 0	53 101	22	TOTAL
72-HF-NAT	1		1.045- 1	1.38+ 0	69 2385	444	TOTAL
72-HF-NAT	1		1.200- 1	6.400- 1	67 3638	27	TOTAL
72-HF-NAT	1		955- 1	9.878+ 0	71 3341	697	TOTAL
72-HF-NAT	1		2.255+ 0	1.493+ 1	67 3638	258	TOTAL
72-HF-NAT	1		1.400+ 1	1.400+ 1	56	1	TOTAL
72-HF-NAT	2		1.400+ 1	1.501+ 1	60 2333	42	ELASTIC
72-HF-NAT	2		9.100- 1	9.498- 1	72 3546	1	ELASTIC
72-HF-NAT	2		1.100+ 0	1.000+ 0	54 103	1	ELASTIC

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 72000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	72-HF-NAT	2	0.050+ 0	0.050+ 0	69 3650	1	ELASTIC
	72-HF-NAT	3	1.000+ 0	1.000+ 0	54 103	1	NONELASTIC
	72-HF-NAT	5	2.530- 0	2.530- 0	52 437	1	TOTAL SCATTERING
	72-HF-NAT	11	3.300- 1	1.000+ 0	55 137	20	N,N'
	72-HF-NAT	11	3.200- 1	1.510+ 0	69 236J	147	N,N'
	72-HF-NAT	21	2.530- 0	2.530- 0	51 2491	1	ABSORPTION
	72-HF-NAT	21	2.530- 0	2.530- 0	53 370	1	ABSORPTION
	72-HF-NAT	21	2.530- 0	2.530- 0	60 891	1	ABSORPTION
	72-HF-NAT	21	2.530- 0	2.530- 0	60 897	1	ABSORPTION
	72-HF-NAT	23	2.100- 4	0.000+ 3	61 718	42	N,GAMMA
	72-HF-NAT	23	1.220- 2	1.510+ 1	67 1547	68	N,GAMMA
	72-HF-NAT	23	3.000- 2	6.500- 2	63 1	2	N,GAMMA
N	72-HF-NAT	36	1.480+ 1	1.480+ 1	73 3457	1	ACTIVATION
	72-HF-NAT	43	2.530- 0	2.530- 0	56 2636	1	COHERENT SCATTERING
	72-HF-NAT	43	2.530- 0	2.530- 0	64 2635	1	COHERENT SCATTERING
	72-HF-NAT	71	2.500- 0	2.500- 0	50 1623	1	ABSORPTION
	72-HF-NAT	71	2.500- 0	2.500- 0	50 1794	1	ABSORPTION
	72-HF-NAT	71	2.500- 0	2.500- 0	51 882	1	ABSORPTION
	72-HF-NAT	73	2.530- 0	2.530- 0	70 2415	122	N,GAMMA
	72-HF-NAT	73	2.530- 0	2.530- 0	70 2415	25	N,GAMMA
	72-HF-NAT	74	2.530- 0	2.530- 0	70 2415	1	N,X GAMMA
N	72-HF-NAT	102	9.498- 1	9.498- 1	72 3546	8	ELASTIC
	72-HF-NAT	102	1.000+ 0	1.000+ 0	54 103	9	ELASTIC
N	72-HF-NAT	102	0.050+ 0	0.050+ 0	69 3650	20	ELASTIC
N	72-HF-NAT	452	3.000- 1	1.501+ 0	69 2365	187	ELASTIC
C	72-HF-NAT	521	4.000- 7	1.500+ 1	57 1054	1	ABSORPTION
C	72-HF-NAT	521	5.000- 7	1.500+ 1	58 1162	1	ABSORPTION
C	72-HF-NAT	521	5.000- 7	1.500+ 1	60 897	1	ABSORPTION
C	72-HF-NAT	521	5.000- 7	1.500+ 1	68 2768	1	ABSORPTION
C	72-HF-NAT	521	5.000- 7	1.500+ 1	66 1491	1	ABSORPTION
C	72-HF-NAT	523	5.000- 7	1.500+ 1	64 287	1	N,GAMMA
C	72-HF-NAT	523	5.000- 7	1.500+ 1	66 1935	1	N,GAMMA
C	72-HF-NAT		0.000+ 0	2.000- 3	59 1191	1	AVERAGE RESONANCE PARAMETERS
C	72-HF-NAT		3.000+ 3	6.500- 1	64 1226	3	AVERAGE RESONANCE PARAMETERS
	72-HF-NAT		1.095- 6	2.378- 6	61 897	4	RESONANCE PARAMETERS
	72-HF-NAT		7.000- 5	4.004- 4	63 939	6	RESONANCE PARAMETERS
N	72-HF-174	1	2.530- 0	2.530- 0	71 3763	1	TOTAL
	72-HF-174	12	1.400+ 1	1.400+ 1	66 2275	1	N,2N
	72-HF-174	12	1.450+ 1	1.450+ 1	69 2753	1	N,2N
	72-HF-174	23	2.530- 0	2.530- 0	61 2637	1	N,GAMMA
	72-HF-174	73	2.500- 0	2.500- 0	62 342	1	N,GAMMA
C	72-HF-174		0.000+ 0	8.000- 5	65 919	2	AVERAGE RESONANCE PARAMETERS
	72-HF-174		4.250- 6	2.110- 4	65 919	10	RESONANCE PARAMETERS
	72-HF-174		3.050- 5	3.050- 5	55 862	2	RESONANCE PARAMETERS
	72-HF-176	1	1.500- 0	6.000- 7	69 2986	20	TOTAL
N	72-HF-176	1	2.530- 0	2.530- 0	71 3763	1	TOTAL
	72-HF-176	12	1.400+ 1	1.400+ 1	66 2275	1	N,2N
	72-HF-176	12	1.450+ 1	1.450+ 1	69 2753	1	N,2N
	72-HF-176	12	1.470+ 1	1.470+ 1	68 1718	1	N,2N
	72-HF-176	73	2.500- 0	2.500- 0	62 342	1	N,GAMMA
C	72-HF-176	521	5.000- 7	1.500+ 1	68 2756	1	ABSORPTION
C	72-HF-176	521	5.000- 7	1.500+ 1	68 2768	1	ABSORPTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 72176

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	72-HF-176		0.000-0	1.200-4	65 919	2	AVERAGE RESONANCE PARAMETERS
	72-HF-176		4.830-5	2.010-4	65 919	6	RESONANCE PARAMETERS
	72-HF-176		4.830-5	3.477-4	65 2276	11	RESONANCE PARAMETERS
	72-HF-176		6.710-5	6.590-4	63 939	16	RESONANCE PARAMETERS
	72-HF-176		2.016-4	1.068-3	65 2489	16	RESONANCE PARAMETERS
	72-HF-177	1	1.500-8	8.000-7	69 2986	21	TOTAL
N	72-HF-177	1	2.530-8	2.530-8	71 3763	1	TOTAL
	72-HF-177	23 2	2.530-8	2.530-8	62 2638	1	N, GAMMA
N	72-HF-177	23 6	2.530-8	2.530-8	73 3455	1	N, GAMMA
	72-HF-177	73	2.500-8	2.500-8	52 342	1	N, GAMMA
	72-HF-177	224 80	2.500-8	2.500-8	66 1558	25	SPECTRUM AVERAGED CROSS SECTION
	72-HF-177	224 80	1.100-6	1.100-6	65 3741	4	N, X GAMMA
C	72-HF-177	521	5.000-7	1.500-1	68 2758	1	ABSORPTION
C	72-HF-177	521	5.000-7	1.500-1	68 2768	1	ABSORPTION
C	72-HF-177		0.000-0	3.400-5	55 862	1	AVERAGE RESONANCE PARAMETERS
C	72-HF-177		0.000-0	1.000-4	65 919	2	AVERAGE RESONANCE PARAMETERS
N	72-HF-177		0.000-0	6.966-4	75 3635	2	AVERAGE RESONANCE PARAMETERS
N	72-HF-177		0.000-0	3.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N	72-HF-177		1.000-6	3.000-4	71 3779	2	AVERAGE RESONANCE PARAMETERS
C	72-HF-177		5.000-5	2.000-4	63 939	1	AVERAGE RESONANCE PARAMETERS
	72-HF-177		1.080-6	1.360-5	53 2023	7	RESONANCE PARAMETERS
	72-HF-177		1.095-6	2.378-6	61 887	5	RESONANCE PARAMETERS
N	72-HF-177		1.098-6	6.966-4	75 3635	379	RESONANCE PARAMETERS
	72-HF-177		1.099-6	1.765-4	65 919	51	RESONANCE PARAMETERS
	72-HF-177		1.100-6	2.200-6	51 2491	4	RESONANCE PARAMETERS
	72-HF-177		1.100-6	2.380-6	59 2465	2	RESONANCE PARAMETERS
	72-HF-177		1.100-6	2.390-6	56 2490	12	RESONANCE PARAMETERS
	72-HF-177		1.100-6	2.400-6	65 2254	2	RESONANCE PARAMETERS
	72-HF-177		1.100-6	2.240-5	64 2546	9	RESONANCE PARAMETERS
	72-HF-177		1.100-6	2.590-5	62 2019	8	RESONANCE PARAMETERS
	72-HF-177		1.100-6	2.087-4	68 3039	46	RESONANCE PARAMETERS
N	72-HF-177		1.100-6	2.997-4	71 3779	97	RESONANCE PARAMETERS
	72-HF-177		2.380-6	6.500-6	56 1238	9	RESONANCE PARAMETERS
N	72-HF-177		2.400-6	2.400-6	61 3673	2	RESONANCE PARAMETERS
	72-HF-177		5.900-6	1.050-4	55 862	56	RESONANCE PARAMETERS
	72-HF-177		1.092-5	1.389-5	68 2765	6	RESONANCE PARAMETERS
	72-HF-177		3.195-5	3.763-4	65 2276	70	RESONANCE PARAMETERS
	72-HF-177		5.460-5	5.000-4	63 939	65	RESONANCE PARAMETERS
	72-HF-177		1.993-4	1.019-3	65 2489	59	RESONANCE PARAMETERS
	72-HF-178	1	1.500-8	8.000-7	69 2986	21	TOTAL
N	72-HF-178	1	2.530-8	2.530-8	71 3763	1	TOTAL
N	72-HF-178	23	2.500-2	2.500-2	70 3971	1	N, GAMMA
	72-HF-178	23 2	2.530-8	2.530-8	62 2638	1	N, GAMMA
	72-HF-178	34	1.450-1	1.450-1	59 550	1	N, ALPHA
	72-HF-178	73	2.500-8	2.500-8	52 342	1	N, GAMMA
N	72-HF-178	73 87	2.530-8	2.530-8	72 3698	86	N, GAMMA
	72-HF-178	224 80	2.500-8	2.500-8	66 1558	1	N, X GAMMA
N	72-HF-178	224 91	7.800-6	7.800-6	65 3741	4	N, X GAMMA
C	72-HF-178	521	5.000-7	1.500-1	68 2758	1	ABSORPTION
C	72-HF-178	521	5.000-7	1.500-1	68 2768	1	ABSORPTION
C	72-HF-178		0.000-0	1.600-4	65 919	2	AVERAGE RESONANCE PARAMETERS
N	72-HF-178		7.770-6	7.193-4	75 3635	1	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 72178

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	72-HF-178		5.000- 5	2.000- 4	63 939	1	AVERAGE RESONANCE PARAMETERS
	72-HF-178		7.600- 6	7.600- 6	53 2023	1	RESONANCE PARAMETERS
N	72-HF-178		1.770- 6	7.193- 4	75 3635	24	RESONANCE PARAMETERS
	72-HF-178		7.780- 6	1.644- 4	65 919	3	RESONANCE PARAMETERS
	72-HF-178		7.800- 6	7.800- 6	55 862	2	RESONANCE PARAMETERS
	72-HF-178		1.046- 4	8.040- 4	63 939	11	RESONANCE PARAMETERS
	72-HF-178		1.051- 4	3.840- 4	65 2275	6	RESONANCE PARAMETERS
	72-HF-178		2.559- 4	1.163- 3	65 2489	14	RESONANCE PARAMETERS
	72-HF-179	1	1.500- 8	8.000- 7	69 2986	21	TOTAL
N	72-HF-179	1	2.530- 8	2.530- 8	71 3763	1	TOTAL
C	72-HF-179	12	2.800- 0	2.800- 0	67 2602	1	N,N'
	72-HF-179	23	1.480- 1	1.480- 1	65 1901	1	N,2N
N	72-HF-179	23	2.500- 2	2.500- 2	70 3971	1	N,GAMMA
	72-HF-179	73	2.500- 8	2.500- 8	52 342	1	N,GAMMA
	72-HF-179	73	2.500- 8	2.500- 8	67 2277	1	N,GAMMA
	72-HF-179	224 80	2.500- 8	2.500- 8	66 1558	13	N,X GAMMA
C	72-HF-179	521	5.000- 7	1.500- 1	68 2758	1	ABSORPTION
	72-HF-179	521	5.000- 7	1.500- 1	68 2768	1	ABSORPTION
C	72-HF-179		0.000- 0	6.500- 5	55 862	1	AVERAGE RESONANCE PARAMETERS
C	72-HF-179		0.000- 0	8.000- 5	65 919	2	AVERAGE RESONANCE PARAMETERS
N	72-HF-179		0.000- 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N	72-HF-179		1.000- 6	2.000- 4	71 3779	2	AVERAGE RESONANCE PARAMETERS
C	72-HF-179		5.000- 5	2.000- 4	63 939	1	AVERAGE RESONANCE PARAMETERS
	72-HF-179		5.600- 6	5.600- 6	53 2023	1	RESONANCE PARAMETERS
	72-HF-179		5.680- 6	1.874- 4	65 919	33	RESONANCE PARAMETERS
N	72-HF-179		5.680- 6	1.979- 4	71 3779	44	RESONANCE PARAMETERS
	72-HF-179		5.690- 6	1.100- 4	55 862	53	RESONANCE PARAMETERS
	72-HF-179		3.120 5	3.918- 4	65 2276	45	RESONANCE PARAMETERS
	72-HF-179		5.46 5	4.896- 4	63 939	53	RESONANCE PARAMETERS
	72-HF-179		2.031- 4	1.050- 3	65 2489	40	RESONANCE PARAMETERS
	72-HF-180	1	1.500- 8	8.000- 7	69 2986	21	TOTAL
N	72-HF-180	1	2.530- 8	2.530- 8	71 3763	1	TOTAL
	72-HF-180	11 4	1.400- 1	1.400- 1	66 2275	1	N,N'
	72-HF-180	11 4	1.450- 1	1.450- 1	69 2753	1	N,N'
N	72-HF-180	12 2	1.450- 1	1.450- 1	70 2987	1	N,2N
	72-HF-180	12 2	1.480- 1	1.480- 1	66 1901	1	N,2N
	72-HF-180	23	2.530- 8	2.530- 8	47 888	1	N,GAMMA
	72-HF-180	23	2.400- 2	2.400- 2	57 305	1	N,GAMMA
	72-HF-180	23	3.000- 2	3.970- 0	81 759	15	N,GAMMA
	72-HF-180	34	1.400- 1	1.400- 1	66 2275	1	N,ALPHA
	72-HF-180	34	1.450- 1	1.450- 1	69 2753	1	N,ALPHA
	72-HF-180	73	2.500- 8	2.500- 8	52 342	1	N,GAMMA
	72-HF-180	73	2.500- 8	2.500- 8	67 2277	1	N,GAMMA
N	72-HF-180	73 87	2.530- 8	2.530- 8	71 3711	137	N,GAMMA
C	72-HF-180	521	5.000- 7	1.500- 1	68 2758	1	ABSORPTION
C	72-HF-180	521	5.000- 7	1.500- 1	68 2768	1	ABSORPTION
N	72-HF-180	523	5.000- 7	1.500- 1	69 3680	1	N,GAMMA
N	72-HF-180	523 80	6.000- 7	1.500- 1	72 3870	1	N,GAMMA
N	72-HF-180	884 4	2.530- 8	2.530- 8	73 3472	1	N,ALPHA
C	72-HF-180		0.000- 0	2.000- 4	65 919	2	AVERAGE RESONANCE PARAMETERS
C	72-HF-180		5.000- 5	2.000- 4	63 939	1	AVERAGE RESONANCE PARAMETERS
	72-HF-190		7.220- 5	9.110- 4	63 939	6	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-261 ***

ZA = 72180

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 72180

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
72-HF-180			7.250-	5 1.719-	4 65 919	2	RESONANCE PARAMETERS
72-HF-180			7.255-	5 1.723-	4 65 2276	2	RESONANCE PARAMETERS
72-HF-180			7.390-	5 7.390-	5 55 862	2	RESONANCE PARAMETERS
72-HF-180			4.487-	4 9.140-	4 1 65 2469	5	RESONANCE PARAMETERS
72-HF-181	71		2.500-	8 2.500-	8 61 2639	1	ABSORPTION
73-TA-NAT	1		2.020-	9 2.835-	7 60 1798	93	TOTAL
73-TA-NAT	1		2.100-	9 2.282-	7 67 2280	123	TOTAL
73-TA-NAT	1		2.531-	8 8.216-	5 55 2404	503	TOTAL
73-TA-NAT	1		7.000-	8 8.350-	7 70 3627	4	TOTAL
73-TA-NAT	1		8.250-	6 9.454-	3 55 2027	250	TOTAL
73-TA-NAT	1		1.981-	5 1.084-	4 58 458	297	TOTAL
73-TA-NAT	1		1.150-	4 3.000-	4 49 844	2	TOTAL
73-TA-NAT	1		7.970-	4 2.390-	2 56 511	18	TOTAL
73-TA-NAT	1		1.100-	3 5.800-	3 57 154	17	TOTAL
73-TA-NAT	1		1.000-	2 1.000-	2 53 100	1	TOTAL
73-TA-NAT	1		1.200-	2 1.580+	0 49 50	61	TOTAL
73-TA-NAT	1		3.000-	2 6.500-	1 65 921	102	TOTAL
73-TA-NAT	1		1.003-	1 6.481-	1 67 2017	443	TOTAL
73-TA-NAT	1		1.200-	1 6.400-	1 67 3638	27	TOTAL
73-TA-NAT	1		7.001-	1 1.504+	1 67 2281	565	TOTAL
73-TA-NAT	1		1.000+	0 3.200+	0 52 88	14	TOTAL
73-TA-NAT	1		1.002+	0 2.001+	0 71 3310	101	TOTAL
73-TA-NAT	1		2.261+	0 1.496+	1 67 750	243	TOTAL
73-TA-NAT	1		2.700+	0 1.310+	1 54 504	20	TOTAL
73-TA-NAT	1		3.340+	0 5.105+	0 65 3667	67	TOTAL
73-TA-NAT	1		4.100+	0 4.000+	0 55 296	1	TOTAL
73-TA-NAT	1		4.531+	0 7.715+	0 67 1747	64	TOTAL
73-TA-NAT	1		7.050+	0 1.445+	1 57 22	5	TOTAL
73-TA-NAT	1		1.314+	1 1.560+	1 58 324	6	TOTAL
73-TA-NAT	1		1.400+	1 1.400+	1 52 81	1	TOTAL
73-TA-NAT	1		1.730+	1 2.780+	1 60 673	4	TOTAL
73-TA-NAT	1		3.480+	1 1.940+	2 53 310	30	TOTAL
73-TA-NAT	1		4.200+	1 4.200+	1 50 281	1	TOTAL
73-TA-NAT	2		3.000+	1 1.475+	0 67 885	95	ELASTIC
73-TA-NAT	2		3.500+	1 1.020+	0 61 669	9	ELASTIC
73-TA-NAT	2		8.733-	1 8.733-	1 72 3546	1	ELASTIC
73-TA-NAT	2		9.010-	1 9.010-	1 61 1652	1	ELASTIC
73-TA-NAT	2		1.000+	0 1.000+	0 54 183	1	ELASTIC
73-TA-NAT	2		2.000+	0 2.000+	0 65 1509	1	ELASTIC
73-TA-NAT	2		2.470+	0 8.050+	0 69 2890	7	ELASTIC
73-TA-NAT	3		4.100+	0 4.100+	0 55 296	1	NONELASTIC
73-TA-NAT	5		9.800-	1 9.800-	1 63 879	1	TOTAL SCATTERING
73-TA-NAT	5	B	1.520+	1 1.520+	1 62 1268	1	TOTAL SCATTERING
73-TA-NAT	11		7.000+	0 7.000+	0 63 836	1	N,N'
73-TA-NAT	21		2.530-	8 2.530-	8 58 1162	1	ABSORPTION
73-TA-NAT	23		1.398-	8 2.041-	5 75 3147	226	N,GAMMA
73-TA-NAT	23		3.200-	7 4.500-	2 63 1960	148	N,GAMMA
73-TA-NAT	23		9.659-	6 9.988-	5 64 2153	759	N,GAMMA
73-TA-NAT	23		1.001-	4 1.658-	2 63 2153	829	N,GAMMA
73-TA-NAT	23		2.000-	4 7.030-	3 61 718	49	N,GAMMA
73-TA-NAT	23		9.576-	4 1.107+	0 70 3063	95	N,GAMMA
73-TA-NAT	23		6.500-	3 1.670-	1 61 677	49	N,GAMMA

SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-262 ***

ZA = 73000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 73000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	73-TA-NAT	23	1.320-2	1.570-1	57 1547	66	N,GAMMA
	73-TA-NAT	23	3.000-2	3.000-2	53 799	1	N,GAMMA
	73-TA-NAT	23	3.000-2	6.500-2	53 1	2	N,GAMMA
	73-TA-NAT	23	3.000-2	3.140-1	66 2279	4	N,GAMMA
N	73-TA-NAT	23	3.000-2	1.500+0	73 3682	14	N,GAMMA
	73-TA-NAT	23	3.400-2	3.000-1	62 1407	5	N,GAMMA
	73-TA-NAT	23	1.750-1	1.000+0	60 674	7	N,GAMMA
	73-TA-NAT	23	2.000-1	2.000-1	58 353	1	N,GAMMA
	73-TA-NAT	23	1.400+1	1.400+1	71 3194	1	N,GAMMA
	73-TA-NAT	41	7.300-8	7.300-8	51 1584	1	BOUND ATOM
	73-TA-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
	73-TA-NAT	71	2.500-8	2.500-8	50 1623	1	ABSORPTION
	73-TA-NAT	71	2.500-8	2.500-8	50 1754	1	ABSORPTION
	73-TA-NAT	71	2.500-8	2.500-8	51 882	1	ABSORPTION
	73-TA-NAT	73	2.530-8	2.530-8	70 2415	89	N,GAMMA
	73-TA-NAT	73	2.530-8	2.530-8	70 2415	26	N,GAMMA
	73-TA-NAT	74	2.530-8	2.530-8	70 2415	1	N,X GAMMA
	73-TA-NAT	102	3.500-1	1.100+0	62 2037	127	ELASTIC
	73-TA-NAT	102	4.200-1	9.900-1	51 1652	26	ELASTIC
	73-TA-NAT	102	5.000-1	1.550+0	55 1495	3	ELASTIC
N	73-TA-NAT	102	8.733-1	8.733-1	72 3546	8	ELASTIC
	73-TA-NAT	102	9.800-1	9.800-1	63 879	8	ELASTIC
	73-TA-NAT	102	1.000+0	1.000+0	54 103	9	ELASTIC
	73-TA-NAT	102	1.000+0	1.000+0	54 1032	5	ELASTIC
	73-TA-NAT	102	2.470+0	6.050+0	59 2890	132	ELASTIC
	73-TA-NAT	102	2.500+0	7.000+0	58 151	25	ELASTIC
	73-TA-NAT	102	3.200+0	3.200+0	68 2950	12	ELASTIC
	73-TA-NAT	102	3.300+0	3.300+0	58 553	9	ELASTIC
	73-TA-NAT	102	4.000+0	1.400+1	58 483	11	ELASTIC
	73-TA-NAT	102	4.100+0	4.100+0	58 295	13	ELASTIC
	73-TA-NAT	102	5.000+0	5.000+0	56 1254	13	ELASTIC
	73-TA-NAT	102	7.000+0	7.000+0	63 835	1	ELASTIC
	73-TA-NAT	102	1.400+1	1.400+1	57 162	8	ELASTIC
	73-TA-NAT	102	1.400+1	1.400+1	65 1639	7	ELASTIC
N	73-TA-NAT	102	1.410+1	1.410+1	66 3732	7	ELASTIC
	73-TA-NAT	102	1.460+1	1.460+1	60 631	23	ELASTIC
N	73-TA-NAT	102	1.480+1	1.480+1	73 3547	8	ELASTIC
	73-TA-NAT	105	6.000-2	1.370+0	56 231	60	TOTAL SCATTERING
	73-TA-NAT	106	1.490+1	1.490+1	62 2166	23	NONELASTIC EMISSION
	73-TA-NAT	111	1.400+1	1.400+1	65 1639	14	N,N'
N	73-TA-NAT	111	1.410+1	1.410+1	66 3732	14	N,N'
N	73-TA-NAT	211	1.400+1	1.400+1	74 4081	47	N,N'
N	73-TA-NAT	311	1.400+1	1.400+1	74 4081	199	N,N'
N	73-TA-NAT	324	1.300-2	1.773+1	73 3842	3377	N,X GAMMA
C	73-TA-NAT	521	4.900-7	1.500+1	57 1054	1	ABSORPTION
C	73-TA-NAT	521	5.000-7	1.500+1	58 1162	1	ABSORPTION
	73-TA-NAT	521	5.000-7	1.500+1	60 897	1	ABSORPTION
	73-TA-NAT	521	5.000-7	1.500+1	68 2770	1	ABSORPTION
	73-TA-NAT	521	5.000-7	1.500+1	70 3254	1	ABSORPTION
C	73-TA-NAT	522	5.000-7	1.500+1	66 1936	1	N,GAMMA
	73-TA-NAT	603	1.400+1	1.400+1	57 162	18	NONELASTIC
	73-TA-NAT	605	1.520+1	1.520+1	62 1268	37	TOTAL SCATTERING

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-263 ***

ZA = 73000

07/04/76

EUSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 73000

TARGET	COLL	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 73-TA-NAT 606		1	400	1	1	57	162
N 73-TA-NAT 606		1	410	1	1	63	1985
N 73-TA-NAT 606		3	000	2	1	73	3682
N 73-TA-NAT 606		1	410	1	1	68	1932
N 73-TA-NAT 606		4	1	460	1	73	3988
N 73-TA-NAT 606		1	460	1	1	54	103
N 73-TA-NAT 606		3	2	500	0	58	151
N 73-TA-NAT 606		1	400	1	1	57	162
N 73-TA-NAT 606		5	3	000	2	58	231
N 73-TA-NAT 606		1	700	1	1	70	3386
N 73-TA-NAT 606		1	1	400	1	57	162
N 73-TA-NAT 606		1	2	400	1	71	3243
N 73-TA-NAT 606		1	4	000	1	63	828
N 73-TA-NAT 606		1	7	070	1	61	1652
N 73-TA-NAT 606		1	7	700	1	70	3386
N 73-TA-NAT 606		1	2	700	1	58	137
N 73-TA-NAT 606		1	4	500	1	67	885
N 73-TA-NAT 606		1	8	1	550	70	3386
N 73-TA-NAT 606		1	10	2	300	73	3807
N 73-TA-NAT 606		1	12	8	440	1	476
N 73-TA-NAT 606		1	12	1	400	1	57
N 73-TA-NAT 606		1	12	1	410	1	58
N 73-TA-NAT 606		1	12	4	7	60	588
N 73-TA-NAT 606		1	12	4	1	68	2891
N 73-TA-NAT 606		1	12	4	1	67	2887
N 73-TA-NAT 606		1	12	4	1	63	27
N 73-TA-NAT 606		1	12	4	1	60	2188
N 73-TA-NAT 606		1	12	80	1	68	2596
N 73-TA-NAT 606		1	12	80	1	67	2887
N 73-TA-NAT 606		1	12	80	1	71	1672
N 73-TA-NAT 606		1	12	80	1	57	338
N 73-TA-NAT 606		1	12	80	1	54	2845
N 73-TA-NAT 606		1	12	80	1	70	3627
N 73-TA-NAT 606		1	12	80	1	67	3577
N 73-TA-NAT 606		1	12	80	1	67	759
N 73-TA-NAT 606		1	12	80	1	65	2388
N 73-TA-NAT 606		1	12	80	1	71	3621
N 73-TA-NAT 606		1	12	80	1	69	2887
N 73-TA-NAT 606		1	12	80	1	71	3458
N 73-TA-NAT 606		1	12	80	1	64	2069
N 73-TA-NAT 606		1	12	80	1	58	383
N 73-TA-NAT 606		1	12	80	1	75	3886
N 73-TA-NAT 606		1	12	80	1	58	3
N 73-TA-NAT 606		1	12	80	1	64	2645
N 73-TA-NAT 606		1	12	80	1	64	2662
N 73-TA-NAT 606		1	12	80	1	47	888
N 73-TA-NAT 606		1	12	80	1	57	23
N 73-TA-NAT 606		1	12	80	1	71	3911
N 73-TA-NAT 606		1	12	80	1	71	3543
N 73-TA-NAT 606		1	12	80	1	61	11
N 73-TA-NAT 606		1	12	80	1	58	140
N 73-TA-NAT 606		1	12	80	1	54	113

ANGULAR DIST. - INTEGRAL E1-E2
ANGULAR DIST. - INTEGRAL E1-E2
CROSS SECTION RATIO

... 1-264 ...

ZA = 73181

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 73181

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
73-TA-181	26		1.321+ 1	1.746+ 1	69 2887	10	N,P
73-TA-181	26		1.450+ 1	1.450+ 1	63 860	1	N,P
73-TA-181	34	3	1.450+ 1	1.450+ 1	63 860	1	N,ALPHA
73-TA-181	73		2.500- 8	2.500- 8	60 2565	1	N,GAMMA
N 73-TA-181	73		2.530- 8	2.530- 8	71 4006	1	N,GAMMA
73-TA-181	73	3	2.500- 8	2.500- 8	61 2640	1	N,GAMMA
73-TA-181	73	5	2.500- 8	2.500- 8	60 909	1	N,GAMMA
73-TA-181	73	87	2.500- 8	2.500- 8	71 3211	172	N,GAMMA
73-TA-181	73	94	2.500- 8	2.500- 8	68 3213	70	N,GAMMA
73-TA-181	73	94	2.500- 8	2.500- 8	69 3212	46	N,GAMMA
73-TA-181	111	1	4.200- 1	9.900- 1	61 1652	40	N,N'
N 73-TA-181	124	10	1.400+ 1	1.400+ 1	74 3544	47	N,X GAMMA
73-TA-181	134		1.470+ 1	1.470+ 1	63 2257	1	N,ALPHA
N 73-TA-181	224	91	4.800- 7	4.800- 6	65 3741	4	N,X GAMMA
N 73-TA-181	304		1.438+ 1	1.475+ 1	74 4095	499	NEUTRON EMISSION
73-TA-181	311	80	1.410+ 1	1.410+ 1	65 1932	54	N,N'
73-TA-181	452		3.000- 1	1.750+ 0	67 686	476	ELASTIC
C 73-TA-181	523		5.000- 7	1.500+ 1	69 3696	1	N,GAMMA
N 73-TA-181	523		5.000- 7	1.500+ 1	69 3680	1	N,GAMMA
N 73-TA-181	523		5.000- 7	1.500+ 1	71 4006	1	N,GAMMA
N 73-TA-181	873		1.210- 1	2.820+ 0	71 3499	16	N,GAMMA
N 73-TA-181	873		4.000- 1	4.000- 1	71 3821	1	N,GAMMA
C 73-TA-181			0.000+ 0	4.500- 5	55 652	1	AVERAGE RESONANCE PARAMETERS
C 73-TA-181			0.000+ 0	3.500- 4	60 2472	2	AVERAGE RESONANCE PARAMETERS
N 73-TA-181			0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N 73-TA-181			0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C 73-TA-181			3.000- 3	6.500- 1	64 1226	3	AVERAGE RESONANCE PARAMETERS
73-TA-181			4.100- 6	3.700- 5	47 44	5	RESONANCE PARAMETERS
73-TA-181			4.280- 6	4.280- 6	68 2743	2	RESONANCE PARAMETERS
73-TA-181			4.280- 6	1.034- 5	67 2199	2	RESONANCE PARAMETERS
73-TA-181			4.280- 6	9.880- 5	58 2493	29	RESONANCE PARAMETERS
73-TA-181			4.280- 6	2.000- 4	61 2492	122	RESONANCE PARAMETERS
73-TA-181			4.282- 6	4.282- 6	56 2440	6	RESONANCE PARAMETERS
73-TA-181			4.290- 6	3.940- 5	53 2494	21	RESONANCE PARAMETERS
73-TA-181			4.300- 6	2.390- 5	69 3090	4	RESONANCE PARAMETERS
N 73-TA-181			4.300- 6	9.930- 5	72 3924	20	RESONANCE PARAMETERS
73-TA-181			4.300- 6	2.000- 4	72 3209	25	RESONANCE PARAMETERS
73-TA-181			1.000- 5	3.850- 5	54 256	7	RESONANCE PARAMETERS
73-TA-181			1.020- 5	3.820- 5	53 100	12	RESONANCE PARAMETERS
73-TA-181			1.020- 5	1.970- 4	56 201	20	RESONANCE PARAMETERS
73-TA-181			1.038- 5	1.270- 4	55 862	41	RESONANCE PARAMETERS
73-TA-181			1.400- 5	1.470- 4	56 1237	54	RESONANCE PARAMETERS
73-TA-181			2.020- 5	9.880- 5	58 458	73	RESONANCE PARAMETERS
73-TA-181			2.410- 5	2.410- 5	67 1905	2	RESONANCE PARAMETERS
73-TA-181			3.000- 5	1.398- 3	65 814	331	RESONANCE PARAMETERS
73-TA-181			3.500- 5	3.500- 5	58 1248	1	RESONANCE PARAMETERS
73-TA-181			7.650- 5	3.295- 4	60 2472	137	RESONANCE PARAMETERS
C 73-TA-182	1		9.120- 9	3.246- 6	64 2315	1229	TOTAL
73-TA-182	1		2.530- 8	2.530- 8	68 2315	1	TOTAL
73-TA-182	1		8.625- 7	3.204- 5	63 2886	139	TOTAL
73-TA-182	73		2.500- 8	2.500- 8	55 2641	1	N,GAMMA
73-TA-182	73		2.500- 8	2.500- 8	55 2642	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-265 ***

ZA = 73182

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 73182

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
73-TA-182	73		2.500-	8 2.500-	8 55 2643	1	N,GAMMA
73-TA-182	73		2.500-	8 2.500-	8 69 2098	1	N,GAMMA
C 73-TA-182	521		5.000-	7 1.500+	1 68 2315	1	ABSORPTION
73-TA-182			1.470-	7 8.800-	5 68 2315	21	RESONANCE PARAMETERS
74-W-NAT	1		2.020-	9 2.878-	7 60 1798	93	TOTAL
74-W-NAT	1		3.270-	6 1.280-	5 51 2044	34	TOTAL
74-W-NAT	1		1.150-	4 3.000-	4 49 844	2	TOTAL
74-W-NAT	1		1.440-	4 2.650-	1 58 2042	49	TOTAL
74-W-NAT	1		7.970-	4 2.390-	2 56 511	18	TOTAL
74-W-NAT	1		1.000-	3 5.000-	3 47 44	2	TOTAL
74-W-NAT	1		2.400-	2 8.300-	1 47 46	6	TOTAL
N 74-W-NAT	1		2.500-	2 9.000-	2 66 4017	5	TOTAL
74-W-NAT	1		3.000-	2 6.500-	1 85 921	101	TOTAL
74-W-NAT	1		3.500-	2 1.330+	0 50 185	17	TOTAL
74-W-NAT	1		1.019-	1 6.490-	1 66 1062	270	TOTAL
N 74-W-NAT	1		1.200-	1 6.400-	1 67 3638	27	TOTAL
74-W-NAT	1		8.500-	1 3.210+	0 52 80	15	TOTAL
74-W-NAT	1		2.255+	0 1.491+	1 67 750	246	TOTAL
74-W-NAT	1		2.700+	0 1.290+	1 54 501	21	TOTAL
74-W-NAT	1		4.100+	0 4.100+	0 55 296	1	TOTAL
74-W-NAT	1		5.350+	0 6.280+	0 60 3289	24	TOTAL
74-W-NAT	1		7.050+	0 1.425+	1 57 22	5	TOTAL
74-W-NAT	1		1.400+	1 1.400+	1 52 81	1	TOTAL
74-W-NAT	1		1.400+	1 1.400+	1 52 207	1	TOTAL
74-W-NAT	1		1.730+	1 2.880+	1 60 673	4	TOTAL
74-W-NAT	1		4.200+	1 4.200+	1 50 281	1	TOTAL
74-W-NAT	1		5.700+	3 5.700+	3 69 3160	1	TOTAL
74-W-NAT	1		2.650+	4 2.650+	4 71 3180	1	TOTAL
74-W-NAT	1		2.700+	4 2.700+	4 68 2350	1	TOTAL
N 74-W-NAT	1		3.400+	4 2.730+	5 74 3618	7	TOTAL
74-W-NAT	2		3.000-	1 8.000-	1 64 1255	3	ELASTIC
N 74-W-NAT	2		8.721-	1 8.721-	1 72 3546	1	ELASTIC
74-W-NAT	2		1.000+	0 1.000+	0 54 103	1	ELASTIC
74-W-NAT	2		2.000+	0 2.000+	0 65 1909	1	ELASTIC
74-W-NAT	3		2.900-	1 1.020+	0 56 353	3	NONELASTIC
74-W-NAT	3		1.000+	0 1.000+	0 56 151	3	NONELASTIC
74-W-NAT	3		1.500+	0 1.000+	0 53 253	1	NONELASTIC
74-W-NAT	3		2.500+	0 2.500+	0 56 34	1	NONELASTIC
74-W-NAT	3		2.500+	0 1.400+	1 55 790	2	NONELASTIC
74-W-NAT	3		4.000+	0 4.500+	0 55 122	2	NONELASTIC
74-W-NAT	3		4.100+	0 4.100+	0 55 296	1	NONELASTIC
74-W-NAT	3		1.410+	1 1.410+	1 57 199	1	NONELASTIC
74-W-NAT	3		1.420+	1 1.420+	1 37 319	1	NONELASTIC
74-W-NAT	3		1.450+	1 1.450+	1 56 200	1	NONELASTIC
74-W-NAT	3		1.480+	1 1.480+	1 67 1656	1	NONELASTIC
74-W-NAT	5		6.000-	2 1.044+	0 56 231	18	TOTAL SCATTERING
N 74-W-NAT	5	B	4.340+	0 8.560+	0 73 3531	5	TOTAL SCATTERING
74-W-NAT	11		4.000-	1 1.000+	0 63 773	4	N,N'
74-W-NAT	11		7.000+	0 7.000+	0 63 836	1	N,N'
74-W-NAT	11	7	3.000-	1 1.700+	0 56 137	15	N,N'
N 74-W-NAT	12		7.930+	0 1.476+	1 75 3807	15	N,2N
74-W-NAT	12		1.410+	1 1.410+	1 58 1821	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 74000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 74000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION		
74-W-NAT	21		2.530-8	2.530-8	60 897	1	ABSORPTION		
74-W-NAT	21		2.400-2	2.400-2	65 1364	1	ABSORPTION		
74-W-NAT	21		2.500-2	8.300-1	58 364	3	ABSORPTION		
74-W-NAT	22		3.800-2	3.800-2	55 461	1	N,F		
74-W-NAT	23		1.000-8	1.000-5	66 2286	36	N,GAMMA		
74-W-NAT	23		7.000-7	9.000-3	63 896	209	N,GAMMA		
74-W-NAT	23		2.000-4	8.000-3	61 718	42	N,GAMMA		
74-W-NAT	23		1.005-3	6.423-1	70 3063	92	N,GAMMA		
74-W-NAT	23		1.250-3	9.950-3	55 923	9	N,GAMMA		
74-W-NAT	23		1.200-2	1.800-1	61 677	55	N,GAMMA		
74-W-NAT	23		1.220-2	1.530-1	67 1547	68	N,GAMMA		
74-W-NAT	23		1.800-2	3.000-1	62 1407	8	N,GAMMA		
74-W-NAT	23		3.000-2	3.000-2	63 799	1	N,GAMMA		
74-W-NAT	23		3.000-2	6.500-2	63 1	2	N,GAMMA		
74-W-NAT	23		3.300-2	1.680-1	65 2388	16	N,GAMMA		
74-W-NAT	23		5.000-2	1.100-0	59 645	13	N,GAMMA		
74-W-NAT	23		1.250-1	2.200-1	67 1807	4	N,GAMMA		
74-W-NAT	23		1.750-1	1.000-0	60 674	7	N,GAMMA		
74-W-NAT	23		2.000-1	2.000-1	58 363	1	N,GAMMA		
74-W-NAT	23		8.300-1	8.300-1	60 633	1	N,GAMMA		
74-W-NAT	23		1.410-1	1.410-1	69 2220	1	N,GAMMA		
74-W-NAT	41		7.300-8	7.300-8	51 1584	1	BOUND ATOM		
74-W-NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING		
74-W-NAT	71		2.500-8	2.500-8	50 1623	1	ABSORPTION	SPECTRUM AVERAGED CROSS SECTION	
74-W-NAT	71		2.500-8	2.500-8	50 1794	1	ABSORPTION	SPECTRUM AVERAGED CROSS SECTION	
74-W-NAT	71		2.500-8	2.500-8	51 882	1	ABSORPTION	SPECTRUM AVERAGED CROSS SECTION	
74-W-NAT	73		2.500-8	2.500-8	55 2026	1	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION	
74-W-NAT	73	7	2.530-8	2.530-8	70 2415	119	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION	
74-W-NAT	73	10	2.530-8	2.530-8	70 2415	26	N,GAMMA	SPECTRUM AVERAGED CROSS SECTION	
74-W-NAT	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA	SPECTRUM AVERAGED CROSS SECTION	
74-W-NAT	102		3.000-1	8.000-1	64 1255	24	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		3.500-1	1.250-0	60 1986	115	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		8.400-1	1.200-0	68 2351	17	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		8.721-1	8.721-1	72 3546	8	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		1.000-0	1.000-0	54 103	17	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		1.370-0	2.010-0	66 1551	24	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		1.370-0	2.010-0	66 2589	24	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		3.200-0	3.200-0	66 2950	12	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		4.100-0	4.100-0	55 296	11	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		5.000-0	5.000-0	58 398	13	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		7.000-0	7.000-0	63 836	1	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		7.550-0	7.550-0	73 3614	6	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		1.400-1	1.400-1	57 501	15	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	102		1.420-1	1.420-1	63 1256	9	ELASTIC	ANGULAR DISTRIBUTION	
74-W-NAT	104	10	1.436-1	1.436-1	72 4072	25	NEUTRON EMISSION	ANGULAR DISTRIBUTION	
74-W-NAT	105		6.000-2	1.040-0	56 231	65	TOTAL SCATTERING	ANGULAR DISTRIBUTION	
74-W-NAT	105	1	4.340-0	8.560-0	73 3531	94	TOTAL SCATTERING	ANGULAR DISTRIBUTION	
74-W-NAT	106	1	1.490-1	1.490-1	62 2166	22	NONELASTIC EMISSION	ANGULAR DISTRIBUTION	
74-W-NAT	111	1	6.942-0	2.240-0	66 2589	59	N,N'	ANGULAR DISTRIBUTION	
74-W-NAT	111	1	1.370-0	2.010-0	66 1551	38	N,N'	ANGULAR DISTRIBUTION	
74-W-NAT	124		8.000-0	8.000-0	69 3501	13	N,X GAMMA	ANGULAR DISTRIBUTION	
74-W-NAT	124	7	8.000-0	8.000-0	69 3501	14	N,X GAMMA	ANGULAR DISTRIBUTION	
TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION		

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ZA = 74000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	74-W-NAT	124	10	3.020-1	3.020-1	68 1019	1 N,X GAMMA ANGULAR DISTRIBUTION
	74-W-NAT	124	10	3.020-1	1.480+1	69 1019	76 N,X GAMMA ANGULAR DISTRIBUTION
	74-W-NAT	124	10	4.100+0	1.480+1	63 1758	18 N,X GAMMA ANGULAR DISTRIBUTION
N	74-W-NAT	124	10	5.000+0	1.100+1	59 3501	53 N,X GAMMA ANGULAR DISTRIBUTION
	74-W-NAT	124	10	1.484+1	1.484+1	62 1724	5 N,X GAMMA ANGULAR DISTRIBUTION
N	74-W-NAT	204		1.436+1	1.436+1	72 4072	51 NEUTRON EMISSION ENERGY DISTRIBUTION
	74-W-NAT	211		6.440+0	8.560+0	73 3531	314 N,N' GAMMA ENERGY DISTRIBUTION
N	74-W-NAT	224		1.410+1	1.410+1	69 2220	25 N,X GAMMA ENERGY DISTRIBUTION
	74-W-NAT	304		1.436+1	1.436+1	72 4072	204 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	74-W-NAT	304		1.435+1	1.435+1	74 4002	473 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
	74-W-NAT	311	80	1.410+1	1.410+1	65 1908	37 N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N	74-W-NAT	324		1.250+0	1.850+0	73 3507	2427 N,X GAMMA DIFF. ENERGY-ANGLE DISTRIBUTION
	74-W-NAT	406		1.420+0	1.850+0	70 1497	46 N,X GAMMA DIFF. ENERGY-ANGLE DISTRIBUTION
	74-W-NAT	406		1.420+1	1.420+1	58 905	1 NONELASTIC EMISSION INTEGRAL E1-E2
C	74-W-NAT	521		3.000-7	1.500+1	62 2284	1 ABSORPTION RESONANCE INTEGRAL
	74-W-NAT	521		4.900-7	1.500+1	57 1054	1 ABSORPTION RESONANCE INTEGRAL
C	74-W-NAT	521		5.000-7	1.500+1	60 897	1 ABSORPTION RESONANCE INTEGRAL
C	74-W-NAT	521		5.000-7	1.500+1	62 2769	1 ABSORPTION RESONANCE INTEGRAL
	74-W-NAT	606		1.410+1	1.410+1	65 1985	1 NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
	74-W-NAT	606		1.480+1	1.480+1	66 1042	90 NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
	74-W-NAT	606		1.500+1	1.500+1	60 1720	10 NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
	74-W-NAT	624		3.500+0	8.500+0	64 1671	38 N,X GAMMA ANGULAR DIST.-INTEGRAL E1-E2
	74-W-NAT			1.410+1	1.410+1	65 1908	2 NUCLEAR TEMPERATURE
	74-W-NAT			1.480+1	1.480+1	67 2897	2 NUCLEAR TEMPERATURE
C	74-W-NAT			0.000+0	2.000-3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	74-W-NAT			3.000-3	6.500-1	64 1226	3 AVERAGE RESONANCE PARAMETERS
	74-W-NAT			4.000-6	1.600-4	47 44	5 RESONANCE PARAMETERS
	74-W-NAT			7.520-5	5.880-3	59 2282	59 RESONANCE PARAMETERS
	74-W-NAT			8.800-5	2.175-4	64 2496	2 RESONANCE PARAMETERS
	74-W-NAT			1.008-4	1.950-4	59 2285	7 RESONANCE PARAMETERS
	74-W-180	73		2.500-8	2.500-8	52 342	1 N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	74-W-180			1.580-5	7.520-5	64 2496	2 RESONANCE PARAMETERS
	74-W-180			1.590-5	7.500-5	63 2309	2 RESONANCE PARAMETERS
	74-W-180			1.590-5	8.740-5	66 2495	10 RESONANCE PARAMETERS
	74-W-180			7.520-5	7.520-5	59 2282	1 RESONANCE PARAMETERS
	74-W-182	1		3.260-6	6.446-3	51 2044	75 TOTAL
	74-W-182	1		1.019-1	6.488-1	66 1062	266 TOTAL
	74-W-182	1		7.000-1	1.507+1	67 2281	547 TOTAL
	74-W-182	1		2.272+0	1.490+1	67 750	252 TOTAL
	74-W-182	2		3.330-1	1.433+0	66 885	55 ELASTIC
	74-W-182	11	8	3.450-1	1.550+0	66 885	80 N,N'
N	74-W-182	12		1.420+1	1.420+1	72 3427	1 N,BN
	74-W-182	12		1.470+1	1.470+1	66 1719	1 N,BN
	74-W-182	12		1.480+1	1.480+1	66 1882	1 N,2H
	74-W-182	23		1.000-8	1.000-5	66 2286	35 N,GAMMA
	74-W-182	23		1.250-3	9.050-3	55 923	9 N,GAMMA
	74-W-182	23		2.300-3	5.000-2	63 896	16 N,GAMMA
N	74-W-182	23		3.300-2	1.680-1	65 2388	15 N,GAMMA
	74-W-182	73		2.500-8	2.500-8	52 342	1 N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	74-W-182	73		2.500-8	2.500-8	65 2026	1 N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	74-W-182	452		3.330-1	1.433+0	66 885	272 ELASTIC LEGENDRE EXPANSIONS OF ANGULAR DIST.
C	74-W-182			0.000+0	4.000-3	65 923	2 AVERAGE RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (2A ORDERED)

ZA = 74182

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	74-W	-182		2.120	-4	2.391 - 3	59 3092	1 AVERAGE RESONANCE PARAMETERS
	74-W	-182		-3.070	-5	-3.070 - 5	66 2286	1 RESONANCE PARAMETERS
	74-W	-182		4.000	-6	4.000 - 6	47 44	1 RESONANCE PARAMETERS
	74-W	-182		4.140	-6	4.140 - 6	55 2289	3 RESONANCE PARAMETERS
	74-W	-182		4.140	-6	2.120 - 5	63 2496	4 RESONANCE PARAMETERS
	74-W	-182		4.140	-6	1.140 - 4	59 2288	6 RESONANCE PARAMETERS
	74-W	-182		4.140	-6	3.840 - 4	56 2614	10 RESONANCE PARAMETERS
	74-W	-182		4.150	-6	2.110 - 5	58 2504	2 RESONANCE PARAMETERS
	74-W	-182		4.150	-6	2.150 - 5	51 2044	3 RESONANCE PARAMETERS
N	74-W	-182		4.150	-6	4.150 - 6	67 3733	2 RESONANCE PARAMETERS
C	74-W	-182		4.160	-6	2.109 - 5	64 996	10 RESONANCE PARAMETERS
	74-W	-182		2.103	-5	1.325 - 2	71 3059	142 RESONANCE PARAMETERS
	74-W	-182		2.120	-5	2.120 - 5	59 2287	1 RESONANCE PARAMETERS
	74-W	-182		9.800	-5	1.940 - 2	69 3092	222 RESONANCE PARAMETERS
	74-W	-182		1.140	-4	1.140 - 4	59 2285	4 RESONANCE PARAMETERS
	74-W	-182		1.144	-4	1.144 - 4	66 2452	1 RESONANCE PARAMETERS
	74-W	-182		1.144	-4	4.873 - 4	64 2496	10 RESONANCE PARAMETERS
	74-W	-182		1.145	-4	2.425 - 3	59 2282	13 RESONANCE PARAMETERS
	74-W	-182		1.281	-3	4.005 - 3	65 923	39 RESONANCE PARAMETERS
	74-W	-183	1	3.260	-6	2.088 - 1	51 2044	74 TOTAL
	74-W	-183	23	1.000	-8	1.000 - 5	66 2286	33 N,GAMMA
	74-W	-183	23	1.250	-3	9.950 - 3	65 923	9 N,GAMMA
	74-W	-183	23	5.000	-3	5.000 - 2	63 896	6 N,GAMMA
	74-W	-183	73	2.500	-8	2.500 - 8	52 342	1 N,GAMMA
	74-W	-183	73	2.500	-8	2.500 - 8	65 2026	1 N,GAMMA
	74-W	-183	73	2.000	-0	2.000 - 0	66 1882	1 N,GAMMA
C	74-W	-183		0.000	-0	1.850 - 4	59 2285	1 AVERAGE RESONANCE PARAMETERS
N	74-W	-183		0.000	-0	1.000 - 3	65 923	1 AVERAGE RESONANCE PARAMETERS
N	74-W	-183		0.000	-0	2.000 - 3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	74-W	-183		0.000	-0	5.000 - 2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	74-W	-183		1.540	-4	1.600 - 4	69 3092	1 AVERAGE RESONANCE PARAMETERS
	74-W	-183		7.000	-6	1.010 - 4	67 2317	5 RESONANCE PARAMETERS
	74-W	-183		7.400	-6	7.400 - 6	47 44	1 RESONANCE PARAMETERS
	74-W	-183		7.600	-6	5.500 - 5	59 2294	5 RESONANCE PARAMETERS
	74-W	-183		7.600	-6	6.500 - 5	63 2309	5 RESONANCE PARAMETERS
	74-W	-183		7.600	-6	6.600 - 5	59 2295	5 RESONANCE PARAMETERS
	74-W	-183		7.600	-6	1.030 - 4	63 2437	3 RESONANCE PARAMETERS
	74-W	-183		7.620	-6	7.620 - 6	62 2283	1 RESONANCE PARAMETERS
	74-W	-183		7.620	-6	2.710 - 5	59 2007	9 RESONANCE PARAMETERS
	74-W	-183		7.620	-6	1.008 - 4	59 2288	15 RESONANCE PARAMETERS
	74-W	-183		7.620	-6	3.540 - 4	56 2614	16 RESONANCE PARAMETERS
N	74-W	-183		7.620	-6	4.810 - 5	58 2504	4 RESONANCE PARAMETERS
N	74-W	-183		7.620	-6	6.570 - 5	59 2287	6 RESONANCE PARAMETERS
	74-W	-183		7.640	-6	7.640 - 6	67 3733	2 RESONANCE PARAMETERS
	74-W	-183		7.650	-6	1.008 - 4	62 2495	15 RESONANCE PARAMETERS
	74-W	-183		7.670	-6	2.708 - 5	64 996	9 RESONANCE PARAMETERS
	74-W	-113		7.800	-6	4.900 - 5	51 2044	3 RESONANCE PARAMETERS
	74-W	-163		2.700	-5	4.600 - 5	58 2293	2 RESONANCE PARAMETERS
	74-W	-183		2.700	-5	1.020 - 4	58 2291	3 RESONANCE PARAMETERS
	74-W	-18		2.705	-5	1.575 - 4	60 2295	48 RESONANCE PARAMETERS
	74-W	-18		2.710	-5	1.020 - 4	58 2292	8 RESONANCE PARAMETERS
	74-W	-183		2.717	-5	1.740 - 4	59 2285	45 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 74183

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 74183

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
74-W	-183		4.070-	5 1.308-	2 69 3092	360	RESONANCE PARAMETERS
74-W	-183		6.570-	5 1.515-	3 59 2282	36	RESONANCE PARAMETERS
74-W	-183		1.011-	4 1.011-	4 66 2452	1	RESONANCE PARAMETERS
74-W	-183		1.038-	4 4.600-	4 1 64 2496	50	RESONANCE PARAMETERS
74-W	-183		4.191-	4 2.658-	3 65 323	85	RESONANCE PARAMETERS
74-W	-184	1	1.001-	1 6.485-	1 66 1062	268	TOTAL
74-W	-184	1	7.000-	1 1.504+	1 67 2281	558	TOTAL
74-W	-184	1	2.255+	0 1.481+	1 67 750	246	TOTAL
74-W	-184	2	3.330-	1 1.481+	0 66 685	59	ELASTIC
74-W	-184	11 B	3.450-	1 1.600+	0 66 685	159	N,N'
74-W	-184	12 2	1.480+	1 1.480+	1 66 1901	1	N,2N
74-W	-184	23	1.000-	8 2.420-	6 66 2286	29	N,GAMMA
74-W	-184	23	1.250-	3 9.950-	3 65 923	9	N,GAMMA
74-W	-184	23	1.500-	3 3.500-	2 63 896	19	N,GAMMA
74-W	-184	23	3.300-	2 1.680-	1 65 2388	15	N,GAMMA
74-W	-184	23 5	2.530-	8 2.530-	8 47 888	1	N,GAMMA
74-W	-184	23 5	2.100-	2 2.100-	2 57 23	1	N,GAMMA
74-W	-184	26	1.450+	1 1.450+	1 59 550	1	N,P
74-W	-184	26	1.450+	1 1.450+	1 63 850	1	N,P
74-W	-184	29	1.480+	1 1.480+	1 63 859	1	N,D
74-W	-184	73	2.500-	8 2.500-	9 52 342	1	N,GAMMA
74-W	-184	73	2.500-	8 2.500-	8 65 2026	1	N,GAMMA
74-W	-184	73	2.000+	0 2.000+	0 66 1882	1	N,GAMMA
74-W	-184	73 3	2.500-	8 2.500-	8 62 908	1	N,GAMMA
74-W	-184	73 3	2.500-	8 2.500-	8 63 2644	1	N,GAMMA
74-W	-184	73 5	2.500-	8 2.500-	8 60 909	1	N,GAMMA
74-W	-184	73 87	2.530-	8 2.530-	8 73 3998	87	N,GAMMA
74-W	-184	452	3.330-	1 1.481+	0 66 685	294	ELASTIC
C	74-W	-184 521	3.000-	7 1.500+	1 62 2284	1	ABSORPTION
C	74-W	-184 521	5.000-	7 1.500+	1 62 2769	1	ABSORPTION
N	74-W	-184	0.000+	0 0.000+	0 67 4023	1	AVERAGE RESONANCE PARAMETERS
N	74-W	-184	0.000+	1 1.400-	3 66 2452	2	AVERAGE RESONANCE PARAMETERS
N	74-W	-184	0.000+	0 5.000-	2 66 1894	1	AVERAGE RESONANCE PARAMETERS
C	74-W	-184	1.650-	4 2.616-	3 69 3092	1	AVERAGE RESONANCE PARAMETERS
74-W	-184		-1.100-	4 -1.100-	4 66 2286	1	RESONANCE PARAMETERS
74-W	-184		1.017-	4 1.645-	2 1 71 3059	125	RESONANCE PARAMETERS
74-W	-184		1.020-	4 2.090-	3 66 2452	16	RESONANCE PARAMETERS
74-W	-184		1.021-	4 1.970-	2 69 3092	201	RESONANCE PARAMETERS
74-W	-184		1.022-	4 4.247-	4 1 64 2496	7	RESONANCE PARAMETERS
74-W	-184		1.022-	4 2.425-	3 59 2282	13	RESONANCE PARAMETERS
74-W	-184		1.850-	4 1.850-	4 59 2285	4	RESONANCE PARAMETERS
74-W	-184		1.870-	4 3.160-	4 56 2614	2	RESONANCE PARAMETERS
74-W	-184		2.053-	3 4.025-	3 65 923	22	RESONANCE PARAMETERS
74-W	-185	1	3.260-	6 5.221-	1 51 2044	72	TOTAL
74-W	-185	1	1.019-	1 6.488-	1 66 1062	272	TOTAL
74-W	-185	1	7.000-	1 1.507+	1 67 2281	482	TOTAL
74-W	-185	1	2.278+	0 1.484+	1 67 750	246	TOTAL
74-W	-185	2	3.250-	1 1.481+	0 66 685	59	ELASTIC
74-W	-185	11 B	3.500-	1 1.600+	0 66 685	158	N,N'
74-W	-185	12	1.480+	1 1.480+	1 66 1882	1	N,2N
74-W	-185	12 3	1.470+	1 1.470+	1 74 3624	1	N,2N
74-W	-185	12 3	1.480+	1 1.480+	1 66 1901	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-270 ***

ZA = 74186

07/04/76

ECS'L-7600 REACTION INDEX (ZA ORDERED)

ZA = 74186

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	74-W-186	12	3	1.480+	1 1.480+ 1	71 3819	1 N,2N
	74-W-186	14		1.370+	1 1.120+ 1	59 626	6 N,N'P
	74-W-186	23		1.000-	8 1.000- 5	66 2295	35 N,GAMMA
	74-W-186	23		2.530-	8 2.530- 8	47 889	1 N,GAMMA
	74-W-186	23		1.000-	5 1.460- 2	63 896	69 N,GAMMA
	74-W-186	23		1.250-	3 9.950- 3	65 923	9 N,GAMMA
	74-W-186	23		2.100-	2 2.100- 2	57 23	1 N,GAMMA
	74-W-186	23		2.100-	2 2.100- 2	58 43	1 N,GAMMA
	74-W-186	23		2.400-	2 2.400- 2	57 305	1 N,GAMMA
	74-W-186	23		2.400-	2 2.400- 2	66 1788	1 N,GAMMA
	74-W-186	23		3.000-	2 1.400+ 0	60 738	13 N,GAMMA
	74-W-186	23		3.000-	2 3.970+ 0	61 759	26 N,GAMMA
	74-W-186	23		4.600-	2 1.690- 1	65 2388	14 N,GAMMA
N	74-W-186	23		1.210-	1 1.660+ 0	71 3498	15 N,GAMMA
N	74-W-186	23		1.210-	1 2.730+ 0	74 3498	23 N,GAMMA
	74-W-186	23		1.600-	1 2.700+ 0	59 663	22 N,GAMMA
	74-W-186	23		1.950-	1 1.950- 1	59 526	1 N,GAMMA
	74-W-186	23		2.000-	1 2.000- 1	38 363	1 N,GAMMA
	74-W-186	23		2.300-	1 3.110+ 0	68 2992	17 N,GAMMA
	74-W-186	23		2.500+	0 3.100+ 0	59 1044	3 N,GAMMA
	74-W-186	23		3.000+	0 3.000+ 0	68 2345	1 N,GAMMA
	74-W-186	23		1.450+	1 1.450+ 1	57 521	1 N,GAMMA
N	74-W-186	23	4	2.530-	8 2.530- 8	67 3676	1 N,GAMMA
	74-W-186	26		1.370+	1 2.120+ 1	59 626	6 N,P
	74-W-186	26		1.450+	1 1.450+ 1	59 550	1 N,P
	74-W-186	26		1.450+	1 1.450+ 1	63 860	1 N,P
	74-W-186	28		1.480+	1 1.480+ 1	63 899	1 N,D
	74-W-186	34		1.450+	1 1.450+ 1	63 860	1 N,ALPHA
	74-W-186	62		2.000+	0 2.000+ 0	66 1892	2 N,2N
	74-W-186	73		2.500-	8 2.500- 8	49 2742	1 N,GAMMA
	74-W-186	73		2.500-	8 2.500- 8	52 342	1 N,GAMMA
	74-W-186	73		2.500-	8 2.500- 8	60 909	1 N,GAMMA
	74-W-186	73		2.500-	8 2.500- 8	65 2026	1 N,GAMMA
	74-W-186	73		2.000+	0 2.000+ 0	66 1892	1 N,GAMMA
N	74-W-186	73	87	2.530-	8 2.530- 8	73 3998	168 N,GAMMA
	74-W-186	452		3.250+	1 1.481+ 0	66 885	294 ELASTIC
C	74-W-186	521		3.000+	7 1.500+ 1	62 2284	1 ABSORPTION
C	74-W-186	521		5.000+	7 1.500+ 1	62 2769	1 ABSORPTION
C	74-W-186	523		5.000+	7 1.400+ 1	63 1310	1 N,GAMMA
N	74-W-186	523		5.000+	7 1.500+ 1	67 3676	1 N,GAMMA
C	74-W-186	523		7.610+	7 1.500+ 1	67 1935	1 N,GAMMA
N	74-W-186	873		1.210+	1 2.730+ 0	71 3498	16 N,GAMMA
N	74-W-186			0.000+	0 0.000+ 0	67 4023	1 AVERAGE RESONANCE PARAMETERS
N	74-W-186			0.000+	0 5.000- 2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	74-W-186			1.700+	4 3.417- 3	69 3092	1 AVERAGE RESONANCE PARAMETERS
	74-W-186			1.900-	5 1.800- 5	47 44	1 RESONANCE PARAMETERS
	74-W-186			1.875-	5 1.734- 2	71 3059	105 RESONANCE PARAMETERS
	74-W-186			1.880-	5 1.880- 5	59 2287	1 RESONANCE PARAMETERS
	74-W-186			1.880-	5 1.880- 5	54 2288	2 RESONANCE PARAMETERS
	74-W-186			1.880-	5 1.880- 5	63 2496	2 RESONANCE PARAMETERS
	74-W-186			1.880-	5 4.120+ 4	56 2614	6 RESONANCE PARAMETERS
	74-W-186			1.880-	5 1.991- 2	69 3092	183 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-271 ***

ZA = 74186

07/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 74186

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	74-W-186		1.883-5	1.883-5	67 3676	3	RESONANCE PARAMETERS
	74-W-186		1.884-5	1.884-5	64 996	6	RESONANCE PARAMETERS
	74-W-186		1.925-5	2.250-4	51 2044	3	RESONANCE PARAMETERS
	74-W-186		1.710-4	1.710-4	59 2285	4	RESONANCE PARAMETERS
	74-W-185		1.712-4	5.125-4	1 64 2496	7	RESONANCE PARAMETERS
	74-W-186		1.719-4	7.250-4	59 2262	7	RESONANCE PARAMETERS
	74-W-186		2.360-3	3.985-3	65 923	16	RESONANCE PARAMETERS
	75-RE-NAT	1	1.158-8	9.986-6	68 1990	52	TOTAL
N	75-RE-NAT	1	2.905-6	3.335-2	65 1886	744	TOTAL
	75-RE-NAT	1	2.400-3	1.922-0	65 2299	110	TOTAL
	75-RE-NAT	1	3.000-2	6.500-1	65 921	102	TOTAL
	75-RE-NAT	1	5.400-1	1.500-0	67 2017	111	TOTAL
	75-RE-NAT	1	2.260-0	1.493-1	67 750	243	TOTAL
	75-RE-NAT	2	1.000-1	1.500-0	67 885	97	ELASTIC
	75-RE-NAT	11	1.000-1	1.900-0	56 137	15	N,N'
	75-RE-NAT	11	3.750-1	1.550-0	67 865	167	N,N'
	75-RE-NAT	23	2.530-8	2.530-8	68 1990	1	N,GAMMA
	75-RE-NAT	23	2.000-7	4.500-2	65 1064	74	N,GAMMA
	75-RE-NAT	23	2.100-4	9.500-3	61 718	51	N,GAMMA
	75-RE-NAT	23	1.005-3	6.423-1	70 3063	62	N,GAMMA
	75-RE-NAT	23	1.170-2	1.580-1	67 1547	72	N,GAMMA
	75-RE-NAT	23	2.000-2	1.010-0	65 2298	14	N,GAMMA
N	75-RE-NAT	23	2.900-2	1.680-1	65 2388	17	N,GAMMA
	75-RE-NAT	23	3.000-2	6.500-2	63 1	2	N,GAMMA
	75-RE-NAT	71	2.500-8	2.500-8	50 1794	1	ABSORPTION
	75-RE-NAT	71	2.500-8	2.500-8	51 882	1	ABSORPTION
	75-RE-NAT	73	2.000-0	2.000-0	67 2300	2	N,GAMMA
	75-RE-NAT	452	3.000-0	1.500-0	67 885	482	ELASTIC
C	75-RE-NAT	521	5.000-7	1.500-1	68 2840	1	ABSORPTION
	75-RE-NAT		0.000-0	1.000-4	68 1990	2	AVERAGE RESONANCE PARAMETERS
C	75-RE-NAT		3.000-3	6.500-1	64 1226	2	AVERAGE RESONANCE PARAMETERS
C	75-RE-NAT		3.000-2	6.500-1	68 1992	1	AVERAGE RESONANCE PARAMETERS
	75-RE-NAT		5.920-6	2.110-5	53 100	5	RESONANCE PARAMETERS
	75-RE-NAT		2.209-5	1.080-4	65 1886	23	RESONANCE PARAMETERS
	75-RE-NAT		5.880-5	1.230-4	59 2007	6	RESONANCE PARAMETERS
	75-RE-185	1	4.460-9	1.116-6	65 1886	62	TOTAL
	75-RE-185	12	1.410-1	1.410-1	62 769	1	N,2N
	75-RE-185	12	1.480-1	1.480-1	67 2300	1	N,2N
	75-RE-185	12	5 1.410-1	1.410-1	62 2329	2	N,2N
	75-RE-185	12	5 1.480-1	1.480-1	67 2300	1	N,2N
	75-RE-185	23	1.000-8	4.000-2	68 1990	42	N,GAMMA
	75-RE-185	23	2.530-8	2.530-8	63 2646	1	N,GAMMA
	75-RE-185	23	4.600-3	2.644-0	65 2299	33	N,GAMMA
	75-RE-185	23	2.400-2	2.400-2	57 305	1	N,GAMMA
	75-RE-185	23	2.400-2	2.400-2	66 1788	1	N,GAMMA
N	75-RE-185	23	1.210-1	9.350-1	71 3498	8	N,GAMMA
N	75-RE-185	23	1.210-1	2.730-0	74 3498	16	N,GAMMA
	75-RE-185	23	2.400-1	2.400-1	43 309	1	N,GAMMA
	75-RE-185	62	2.000-0	2.000-0	70 3382	2	N,2N
	75-RE-185	73	2.500-8	2.500-8	52 342	1	N,GAMMA
	75-RE-185	73	2.500-8	2.500-8	60 909	1	N,GAMMA
	75-RE-185	73	2.000-0	2.000-0	67 2300	2	N,GAMMA

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
LEGENDRE EXPANSIONS OF ANGULAR DIST.
RESONANCE INTEGRAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-272 ***

ZA = 75185

07/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 75165

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
75-RE-185	73	7	2.530-	8 2.530-	8 70 2415	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
75-RE-185	73	10	2.530-	8 2.530-	8 70 2415	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
75-RE-185	74		2.530-	8 2.530-	8 70 2415	1	N,X GAMMA SPECTRUM AVERAGED CROSS SECTION
C 75-RE-185	521		5.000-	7 1.500-	1 68 2840	1	ABSORPTION RESONANCE INTEGRAL
C 75-RE-185	523		5.000-	7 1.500-	1 68 1990	1	N,GAMMA RESONANCE INTEGRAL
N 75-RE-185	873		1.210-	1 2.730-	0 71 3498	16	N,GAMMA CROSS SECTION RATIO
C 75-RE-185			0.000+	0 2.000-	5 65 1886	1	AVERAGE RESONANCE PARAMETERS
N 75-RE-185			0.000+	0 2.000-	3 58 1191	1	AVERAGE RESONANCE PARAMETERS
N 75-RE-185			0.000+	0 3.000-	2 68 1990	4	AVERAGE RESONANCE PARAMETERS
75-RE-185			-6.750-	6 5.028-	4 68 1990	100	RESONANCE PARAMETERS
75-RE-185			2.156-	6 2.156-	6 67 1905	2	RESONANCE PARAMETERS
75-RE-185			2.156-	6 1.280-	5 55 2551	8	RESONANCE PARAMETERS
75-RE-185			2.156-	6 1.080-	4 65 1886	23	RESONANCE PARAMETERS
75-RE-185			2.160-	6 1.290-	5 67 2199	4	RESONANCE PARAMETERS
75-RE-185			2.160-	6 3.840-	4 71 3215	86	RESONANCE PARAMETERS
75-RE-185			2.180-	6 2.110-	5 53 100	6	RESONANCE PARAMETERS
75-RE-185			1.193-	5 1.001-	4 59 2007	20	RESONANCE PARAMETERS
75-RE-186	23		2.530-	8 2.530-	8 47 888	1	N,GAMMA
75-RE-187	1		4.960-	9 1.116-	6 65 1806	82	TOTAL
75-RE-187	12		1.410+	1 1.410+	1 62 789	1	N,2N
75-RE-187	12		1.410+	1 1.410+	1 62 2328	1	N,2N
75-RE-187	12		1.480+	1 1.480+	1 81 703	1	N,2N
75-RE-187	12		1.480+	1 1.480+	1 67 2300	1	N,2N
75-RE-187	23		1.000-	8 4.000-	2 68 1990	29	N,GAMMA
75-RE-187	23		2.530-	8 2.530-	8 63 2646	1	N,GAMMA
75-RE-187	23		4.600-	3 2.644+	0 65 2299	33	N,GAMMA
75-RE-187	23		2.400-	2 2.400-	2 57 305	1	N,GAMMA
75-RE-187	23		1.210-	1 2.730-	0 71 3498	8	N,GAMMA
N 75-RE-187	23		1.210-	1 2.730-	0 74 3498	18	N,GAMMA
75-RE-187	23	3	4.900-	3 2.644+	0 65 2299	27	N,GAMMA
75-RE-187	23	4	2.530-	8 2.530-	8 47 888	1	N,GAMMA
75-RE-187	23	4	2.400-	2 2.400-	2 66 1788	1	N,GAMMA
75-RE-187	26		1.450+	1 1.450+	1 59 550	1	N,P
N 75-RE-187	32		1.400+	1 1.400+	1 71 3816	1	N,HE-3
75-RE-187	34		1.450+	1 1.450+	1 59 550	1	N,ALPHA
75-RE-187	62		2.000+	0 2.000+	0 67 2300	1	N,2N SPECTRUM AVERAGED CROSS SECTION
75-RE-187	73		2.500-	8 2.500-	8 52 342	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
75-RE-187	73		2.000+	0 2.000+	0 67 2300	2	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
75-RE-187	73	3	2.500-	8 2.500-	8 64 2647	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
75-RE-187	73	4	2.500-	8 2.500-	8 60 909	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
C 75-RE-187	521		5.000-	7 1.500-	1 68 2840	1	ABSORPTION RESONANCE INTEGRAL
C 75-RE-187	523		5.000-	7 1.500+	1 68 1990	1	N,GAMMA RESONANCE INTEGRAL
N 75-RE-187	873		1.210-	1 2.730-	0 71 3498	16	N,GAMMA CROSS SECTION RATIO
C 75-RE-187	873	4	2.500-	8 2.500-	8 64 2632	1	N,GAMMA CROSS SECTION RATIO
C 75-RE-187			0.000+	0 2.000-	5 65 1886	1	AVERAGE RESONANCE PARAMETERS
C 75-RE-187			0.000+	0 3.000-	2 68 1990	4	AVERAGE RESONANCE PARAMETERS
75-RE-187			-2.100-	6 4.935-	4 68 1990	94	RESONANCE PARAMETERS
75-RE-187			4.400-	6 1.770-	5 53 100	4	RESONANCE PARAMETERS
75-RE-187			4.410-	6 1.120-	5 67 2199	2	RESONANCE PARAMETERS
75-RE-187			4.410-	6 8.700-	5 65 1886	12	RESONANCE PARAMETERS
75-RE-187			4.416-	6 1.110-	5 55 2551	5	RESONANCE PARAMETERS
75-RE-187			4.420-	6 3.640-	4 71 3215	76	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-273 ***

ZA = 75187

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 75187

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
75-RE-187			1.118- 5	1.151- 4	59 2007	12	RESONANCE PARAMETERS
76-05-NAT	1		3.650- 7	1.620- 1	58 2041	489	TOTAL
76-05-NAT	1		4.550- 6	2.817- 2	55 2027	278	TOTAL
76-05-NAT	1		1.000- 3	1.000- 2	47 445	3	TOTAL
76-05-NAT	1		3.000- 2	6.500- 1	55 921	92	TOTAL
N 76-05-NAT	1		1.200- 1	6.400- 1	67 3638	27	TOTAL
76-05-NAT	1		2.253+ 0	1.483+ 1	67 750	243	TOTAL
76-05-NAT	23		2.100- 4	7.200- 3	61 718	49	N, GAMMA
76-05-NAT	23		3.000- 2	6.500- 2	63 1	2	N, GAMMA
76-05-NAT	43		2.530- 8	2.530- 8	63 2877	1	COHERENT SCATTERING
76-05-NAT	71		2.500- 8	2.500- 8	51 882	1	ABSORPTION
76-05-NAT	73 7		2.530- 8	2.530- 8	70 2415	162	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
76-05-NAT	73 10		2.530- 8	2.530- 8	70 2415	25	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
C 76-05-NAT	74		2.530- 8	2.530- 8	70 2415	1	N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
C 76-05-NAT	521		4.900- 7	1.500+ 1	57 1054	1	ABSORPTION
C 76-05-NAT	521		5.000- 7	1.500+ 1	68 2770	1	ABSORPTION
C 76-05-NAT			0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C 76-05-NAT			3.000- 3	6.500- 1	64 1226	3	AVERAGE RESONANCE PARAMETERS
76-05-NAT			6.720- 6	1.097- 4	58 2041	17	RESONANCE PARAMETERS
76-05-NAT			6.730- 6	8.990- 5	56 201	38	RESONANCE PARAMETERS
76-05-NAT			1.180- 5	4.450- 5	61 960	6	RESONANCE PARAMETERS
76-05-NAT			5.040- 5	3.174- 4	65 2548	18	RESONANCE PARAMETERS
N 76-05-184	12 4		1.470+ 1	1.470+ 1	75 4003	2	N, 2N
N 76-05-184	26 5		1.470+ 1	1.470+ 1	75 4003	1	N, P
N 76-05-186	12 5		1.470+ 1	1.470+ 1	75 4003	1	N, 2N
N 76-05-186	224 80		2.500- 8	2.500- 8	74 4091	25	N, X GAMMA ENERGY DISTRIBUTION
N 76-05-186			2.237- 5	2.740- 4	72 3423	2	AVERAGE RESONANCE PARAMETERS
N 76-05-186			2.237- 5	2.740- 4	72 3423	5	RESONANCE PARAMETERS
N 76-05-187	1		5.780- 9	2.790- 7	69 3408	120	TOTAL
N 76-05-187	224 80		2.500- 8	2.500- 8	74 4091	34	N, X GAMMA ENERGY DISTRIBUTION
N 76-05-187			9.450- 6	6.500- 5	69 3408	1	AVERAGE RESONANCE PARAMETERS
N 76-05-187			9.460- 6	1.240- 4	72 3423	2	AVERAGE RESONANCE PARAMETERS
N 76-05-187			9.450- 6	6.500- 5	69 3408	9	RESONANCE PARAMETERS
N 76-05-187			9.460- 6	1.240- 4	72 3423	10	RESONANCE PARAMETERS
N 76-05-187			9.480- 6	2.985- 1	75 3570	44	RESONANCE PARAMETERS
N 76-05-187			9.500- 6	1.260- 5	70 2297	2	RESONANCE PARAMETERS
76-05-187			9.500- 6	4.750- 5	61 960	4	RESONANCE PARAMETERS
76-05-187			1.260- 5	1.260- 5	58 2041	1	RESONANCE PARAMETERS
76-05-187			1.260- 5	4.120- 5	56 201	2	RESONANCE PARAMETERS
N 76-05-188	26		1.460+ 1	1.460+ 1	64 3685	1	N, P
76-05-188	26		1.460+ 1	1.460+ 1	65 1777	1	N, P
76-05-188	26		1.470+ 1	1.470+ 1	66 1875	1	N, P
N 76-05-188	26 4		1.470+ 1	1.470+ 1	75 4003	1	N, P
76-05-188	43		2.530- 8	2.530- 8	63 2877	1	COHERENT SCATTERING
N 76-05-188			3.840- 5	3.860- 4	72 3423	2	AVERAGE RESONANCE PARAMETERS
N 76-05-188			3.840- 5	3.860- 4	72 3423	7	RESONANCE PARAMETERS
N 76-05-188			3.920- 5	8.340- 5	69 3408	2	RESONANCE PARAMETERS
N 76-05-189	26 4		1.470+ 1	1.470+ 1	75 4003	1	N, P
76-05-189	43		2.530- 8	2.530- 8	63 2877	1	COHERENT SCATTERING
76-05-189	73 3		2.500- 8	2.500- 8	62 908	1	N, GAMMA
76-05-189	73 3		2.530- 8	2.500- 8	64 2645	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 76-05-189			6.700- 6	2.800- 5	69 3408	1	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 76189

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 76189

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	76-05-189		6.710-6	6.100-5	61 960	2	AVERAGE RESONANCE PARAMETERS
N	76-05-189		6.750-6	3.230-4	72 3423	2	AVERAGE RESONANCE PARAMETERS
N	76-05-189		6.500-6	4.200-5	47 45	5	RESONANCE PARAMETERS
N	76-05-189		6.630-6	1.670-4	75 3570	38	RESONANCE PARAMETERS
N	76-05-189		6.700-6	2.600-5	69 3408	6	RESONANCE PARAMETERS
N	76-05-189		6.710-6	6.710-6	62 1236	2	RESONANCE PARAMETERS
N	76-05-189		6.710-6	6.070-5	70 2297	12	RESONANCE PARAMETERS
N	76-05-189		6.710-6	6.100-5	61 960	19	RESONANCE PARAMETERS
N	76-05-189		6.720-6	6.050-5	58 2041	17	RESONANCE PARAMETERS
N	76-05-189		6.730-6	6.310-5	56 201	13	RESONANCE PARAMETERS
N	76-05-189		6.750-6	3.230-4	72 3423	35	RESONANCE PARAMETERS
N	76-05-189		5.050-5	6.070-5	65 2548	3	RESONANCE PARAMETERS
N	76-05-190	11 3	1.300+1	1.600+1	74 4010	7	N,N'
N	76-05-190	11 3	1.450+1	1.480+1	71 3819	1	N,N'
N	76-05-190	23	1.950-1	1.950-1	69 526	1	N,GAMMA
N	76-05-190	23 5	2.400-2	2.400-2	57 305	1	N,GAMMA
N	76-05-190	26	1.470+1	1.470+1	66 1675	1	N,P
N	76-05-190	26 3	1.470+1	1.470+1	75 4003	1	N,P
N	76-05-190	26 3	1.480+1	1.480+1	72 3820	1	N,P
N	76-05-190	26 4	1.470+1	1.470+1	75 4003	1	N,P
N	76-05-190	34	1.450+1	1.450+1	59 550	1	N,ALPHA
N	76-05-190	34	1.460+1	1.460+1	64 3685	1	N,ALPHA
N	76-05-190	34	1.460+1	1.460+1	65 1777	1	N,ALPHA
N	76-05-190	43	2.530-8	2.530-8	63 2877	1	COHERENT SCATTERING
N	76-05-190	73	2.500-8	2.500-8	60 1808	1	N,GAMMA
N	76-05-190	73 4	2.500-8	2.500-8	63 1961	1	N,GAMMA
N	76-05-190	73 4	2.500-8	2.500-8	64 2039	1	N,GAMMA
N	76-05-190	73 5	2.500-8	2.500-8	63 1961	1	N,GAMMA
N	76-05-190		1.114-5	5.630-4	72 3423	1	AVERAGE RESONANCE PARAMETERS
N	76-05-190		1.114-5	5.630-4	72 3423	6	RESONANCE PARAMETERS
N	76-05-192	12	1.440+1	1.440+1	72 3518	1	N,2N
N	76-05-192	12	1.470+1	1.470+1	70 3362	1	N,2N
N	76-05-192	12 4	1.470+1	1.470+1	70 3362	1	N,2N
N	76-05-192	12 4	1.470+1	1.470+1	75 4003	1	N,2N
N	76-05-192	12 5	1.470+1	1.470+1	70 3362	1	N,2N
N	76-05-192	12 5	1.470+1	1.470+1	75 4003	1	N,2N
N	76-05-192	13 3	1.560+1	1.760+1	74 4010	3	N,3N
N	76-05-192	23	1.100-2	3.500-1	59 2994	8	N,GAMMA
N	76-05-192	23	2.500-2	2.500-2	70 3971	1	N,GAMMA
N	76-05-192	23	2.000-1	3.130+0	67 2993	19	N,GAMMA
N	76-05-192	23	3.000+0	3.000+0	67 1991	1	N,GAMMA
N	76-05-192	23 4	1.470+1	1.470+1	75 4003	1	N,GAMMA
N	76-05-192	34 3	1.470+1	1.470+1	75 4003	1	N,ALPHA
N	76-05-192	43	2.530-8	2.530-8	63 2877	1	COHERENT SCATTERING
N	76-05-192		2.033-5	7.170-4	72 3423	2	AVERAGE RESONANCE PARAMETERS
N	76-05-192		2.033-5	7.170-4	72 3423	6	RESONANCE PARAMETERS
N	77-IR-NAT	1	2.000-9	2.400-8	58 2040	23	TOTAL
N	77-IR-NAT	1	2.530-9	4.730-9	58 1196	10	TOTAL
N	77-IR-NAT	1	1.029-8	1.762-5	66 1553	353	TOTAL
N	77-IR-NAT	1	6.600-8	3.360-4	47 261	71	TOTAL
N	77-IR-NAT	1	4.600-7	1.515-6	55 2022	127	TOTAL
N	77-IR-NAT	1	5.705-7	7.614-7	67 3864	20	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 77000

07/04/76

0511-7600 REACTION INDEX (ZA ORDERED)

ZA = 77000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
77-IR-NAT	1		4.550-6	2.817-2	55 2027	232	TOTAL
77-IR-NAT	1		3.000-2	6.500-1	65 921	102	TOTAL
77-IR-NAT	1		1.200-1	5.400-1	67 3638	27	TOTAL
77-IR-NAT	1		2.254-0	1.471-1	67 750	243	TOTAL
77-IR-NAT	23		1.550-7	2.900-2	62 2067	233	N,GAMMA
77-IR-NAT	23		2.000-4	9.500-3	61 718	50	N,GAMMA
77-IR-NAT	23		3.000-2	6.600-2	63 1	2	N,GAMMA
77-IR-NAT	43		2.530-8	2.530-8	63 2877	1	COHERENT SCATTERING
77-IR-NAT	71		2.500-8	2.500-8	50 1794	1	ABSORPTION
77-IR-NAT	71		2.500-8	2.500-8	51 882	1	ABSORPTION
77-IR-NAT	73 7		2.530-8	2.530-8	70 2415	77	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-NAT	73 10		2.530-8	2.530-8	70 2415	21	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-NAT	73 87		2.530-8	2.530-8	67 3050	11	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-NAT	74		2.530-8	2.530-8	70 2415	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-NAT	521		4.900-7	1.500-1	57 1054	1	ABSORPTION
77-IR-NAT	521		5.000-7	1.500-1	68 2770	1	ABSORPTION
77-IR-NAT			0.000-0	2.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
77-IR-NAT			0.000-0	5.000-2	66 1894	1	AVERAGE RESONANCE PARAMETERS
77-IR-NAT			3.000-1	6.500-1	64 1226	2	AVERAGE RESONANCE PARAMETERS
77-IR-NAT			6.463-7	2.500-5	47 261	5	RESONANCE PARAMETERS
77-IR-NAT			5.360-6	9.350-5	56 201	39	RESONANCE PARAMETERS
77-IR-NAT			1.923-5	4.152-4	65 2548	52	RESONANCE PARAMETERS
77-IR-191	1		2.530-8	2.530-8	59 2549	1	TOTAL
77-IR-191	11 2		2.800-7	2.800-0	67 2602	1	N,N'
77-IR-191	12		1.410-1	1.410-1	70 3340	1	N,2N
77-IR-191	12 4		1.410-1	1.410-1	70 3340	1	N,2N
77-IR-191	12 4		1.480-1	1.480-1	61 703	1	N,2N
77-IR-191	12 5		8.640-0	2.448-1	75 3890	11	N,2N
77-IR-191	12 5		1.470-1	1.470-1	68 1718	1	N,2N
77-IR-191	23		2.500-2	2.500-2	70 3971	1	N,GAMMA
77-IR-191	23		1.210-1	9.350-1	71 3498	8	N,GAMMA
77-IR-191	23		1.210-1	2.820-0	74 3498	16	N,GAMMA
77-IR-191	23 3		2.530-8	2.530-8	47 888	1	N,GAMMA
77-IR-191	23 5		2.530-8	2.530-8	47 888	1	N,GAMMA
77-IR-191	34		1.450-1	1.450-1	59 550	1	N,ALPHA
77-IR-191	73		2.500-8	2.500-8	64 2645	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-191	73		8.300-1	8.300-1	73 3994	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-191	73 3		2.500-8	2.500-8	64 2645	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-191	73 3		2.500-8	2.500-8	63 2556	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-191	73 5		2.500-8	2.500-8	68 1954	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-191	73 5		2.500-8	2.500-8	63 2556	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-191	73 6		2.500-8	2.500-8	63 2556	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-191	523 5		5.000-7	1.500-1	68 1954	1	N,GAMMA
77-IR-191	862		1.400-1	1.400-1	72 3964	1	N,GAMMA
77-IR-191	873		1.210-1	2.820-0	71 3498	16	N,GAMMA CROSS SECTION RATIO
77-IR-191			0.000-0	4.000-5	59 2549	2	AVERAGE RESONANCE PARAMETERS
77-IR-191			0.000-0	1.800-4	72 3419	1	AVERAGE RESONANCE PARAMETERS
77-IR-191			6.200-7	6.200-7	47 2550	1	RESONANCE PARAMETERS
77-IR-191			6.400-7	5.200-6	47 261	2	RESONANCE PARAMETERS
77-IR-191			6.500-7	6.120-5	56 201	17	RESONANCE PARAMETERS
77-IR-191			6.540-7	9.070-6	67 1905	8	RESONANCE PARAMETERS
77-IR-191			6.540-7	9.900-6	55 2284	13	RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 77191

07/04/76

ECSIL-7600 REACTION INDEX IZA ORDERED

ZA = 77191

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	77-IR-191		6.540- 7	9.070- 6	67 2199	3	RESONANCE PARAMETERS
	77-IR-191		6.551- 7	6.551- 7	66 1553	3	RESONANCE PARAMETERS
	77-IR-191		5.350- 6	6.490- 5	57 2431	9	RESONANCE PARAMETERS
	77-IR-191		5.360- 6	5.130- 5	63 2139	8	RESONANCE PARAMETERS
	77-IR-191		5.360- 6	5.130- 5	66 2301	9	RESONANCE PARAMETERS
	77-IR-191		5.390- 6	6.170- 6	58 2041	5	RESONANCE PARAMETERS
	77-IR-191		9.070- 6	1.036- 4	59 2549	19	RESONANCE PARAMETERS
	77-IR-191		1.923- 5	1.036- 4	65 2348	16	RESONANCE PARAMETERS
N	77-IR-191		1.923- 5	2.252- 4	72 3419	52	RESONANCE PARAMETERS
	77-IR-193	1	2.530- 8	2.530- 8	59 2549	1	TOTAL
N	77-IR-193	11	7.570* 0	1.470* 1	75 3890	4	N,N'
	77-IR-193	12	1.410* 1	1.410* 1	70 3340	1	N,2N
N	77-IR-193	12	8.610* 0	2.124* 1	75 3890	9	N,2N
N	77-IR-193	23	1.000- 2	3.148* 0	67 3386	21	N,GAMMA
N	77-IR-193	23	1.210- 1	9.350- 1	71 3498	8	N,GAMMA
N	77-IR-193	23	1.210- 1	2.820* 0	74 3498	16	N,GAMMA
	77-IR-193	23	1.710- 1	3.148* 0	66 2302	17	N,GAMMA
	77-IR-193	23	3.000* 0	3.000* 0	67 1991	1	N,GAMMA
	77-IR-193	23	2.530- 8	2.530- 8	47 888	1	N,GAMMA
	77-IR-193	23	2.400- 2	2.400- 2	65 1788	1	N,GAMMA
	77-IR-193	26	1.450* 1	1.450* 1	59 550	1	N,P
N	77-IR-193	73	8.300- 1	1.300- 1	73 3984	1	N,GAMMA
	77-IR-193	73	2.500- 8	2.500- 8	64 2645	1	N,GAMMA
N	77-IR-193	73	2.500- 8	2.500- 8	63 2556	1	N,GAMMA
N	77-IR-193	873	1.210- 1	2.820* 0	71 3498	16	N,GAMMA
	77-IR-193		0.000* 0	3.900* 4	72 3419	1	AVERAGE RESONANCE PARAMETERS
C	77-IR-193		0.000* 0	1.500- 2	59 2549	3	AVERAGE RESONANCE PARAMETERS
	77-IR-193		1.270- 6	1.270- 6	47 261	1	RESONANCE PARAMETERS
	77-IR-193		1.290- 6	1.290- 6	47 2550	1	RESONANCE PARAMETERS
	77-IR-193		1.301- 6	1.301- 6	65 1553	3	RESONANCE PARAMETERS
	77-IR-193		1.303- 6	1.303- 6	55 2269	5	RESONANCE PARAMETERS
	77-IR-193		1.303- 6	1.303- 6	67 2199	1	RESONANCE PARAMETERS
	77-IR-193		1.303- 6	9.070- 6	67 1905	6	RESONANCE PARAMETERS
	77-IR-193		1.350- 6	4.170- 5	56 201	4	RESONANCE PARAMETERS
	77-IR-193		9.040- 6	7.720- 5	57 2431	7	RESONANCE PARAMETERS
	77-IR-193		9.070- 6	2.238- 4	59 2549	18	RESONANCE PARAMETERS
	77-IR-193		2.440- 5	1.099- 4	65 2548	10	RESONANCE PARAMETERS
N	77-IR-193		2.451- 5	3.910- 4	72 3419	42	RESONANCE PARAMETERS
	77-IR-193		4.340- 5	4.340- 5	63 2439	2	RESONANCE PARAMETERS
	77-IR-193		4.340- 5	4.340- 5	66 2301	1	RESONANCE PARAMETERS
	78-PT-NAT	1	2.000- 9	6.100- 8	62 2161	46	TOTAL
	78-PT-NAT	1	6.260- 6	1.650- 4	58 546	378	TOTAL
	78-PT-NAT	1	9.210- 6	1.985- 4	55 981	147	TOTAL
	78-PT-NAT	1	1.440- 4	2.860- 1	55 2042	49	TOTAL
	78-PT-NAT	1	1.000- 3	1.000- 2	47 44	3	TOTAL
	78-PT-NAT	1	5.000- 3	2.850- 1	59 508	59	TOTAL
	78-PT-NAT	1	5.000- 3	6.400- 1	65 922	95	TOTAL
	78-PT-NAT	1	1.000- 1	6.489- 1	66 1062	265	TOTAL
	78-PT-NAT	1	1.100- 1	2.990* 0	53 90	18	TOTAL
	78-PT-NAT	1	2.330* 0	1.476* 1	67 750	272	TOTAL
	78-PT-NAT	1	6.830* 0	1.411* 1	57 22	5	TOTAL
	78-PT-NAT	1	1.400* 1	1.400* 1	52 81	1	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-277 ***

ZA = 78000

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 78000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
78-PT-NAT	1		1.730+ 1	2.890+ 1	60 873	4	TOTAL
78-PT-NAT	2		3.000- 1	1.500+ 0	67 885	105	ELASTIC
78-PT-NAT	5		1.350- 1	1.368+ 0	56 231	15	TOTAL SCATTERING
78-PT-NAT	11	7	4.000- 1	1.800+ 0	56 137	12	N,N'
78-PT-NAT	11	8	4.500- 1	1.550+ 0	67 885	155	N,N'
N 78-PT-NAT	12		7.930+ 0	1.476+ 1	75 3807	15	N,2N
78-PT-NAT	21		2.530- 8	2.530- 8	58 1162	1	ABSORPTION
78-PT-NAT	21		2.530- 8	2.530- 8	60 897	1	ABSORPTION
78-PT-NAT	22		3.800+ 2	3.800+ 2	55 461	1	N,F
78-PT-NAT	23		2.000- 4	9.500- 3	61 718	51	N,GAMMA
78-PT-NAT	23		3.000- 2	3.000- 2	63 799	1	N,GAMMA
78-PT-NAT	23		3.000- 2	6.500- 2	61 677	2	N,GAMMA
78-PT-NAT	23		3.000- 2	6.500- 2	63 1	2	N,GAMMA
78-PT-NAT	23		1.750- 1	1.000+ 0	60 674	7	N,GAMMA
N 78-PT-NAT	36	5	1.440+ 1	1.440+ 1	72 3518	1	ACTIVATION
78-PT-NAT	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
78-PT-NAT	43		7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING
78-PT-NAT	71		2.500- 8	2.500- 8	50 1623	1	ABSORPTION
78-PT-NAT	71		2.500- 8	2.500- 8	50 1794	1	ABSORPTION
78-PT-NAT	71		2.500- 8	2.500- 8	51 882	1	ABSORPTION
78-PT-NAT	73	7	2.530- 4	2.530- 8	70 2415	190	N,GAMMA
78-PT-NAT	73	10	2.530- 8	2.530- 8	70 2415	28	N,GAMMA
78-PT-NAT	74		2.530- 8	2.530- 8	70 2415	1	N,X GAMMA
78-PT-NAT	105		1.300- 1	1.363+ 0	56 231	75	TOTAL SCATTERING
N 78-PT-NAT	124	7	1.400+ 1	1.400+ 1	74 3544	47	N,X GAMMA
N 78-PT-NAT	224	80	2.500- 8	2.500- 8	68 4061	43	N,X GAMMA
78-PT-NAT	452		3.000- 1	1.500+ 0	67 885	515	ELASTIC
C 78-PT-NAT	521		5.000- 7	1.500+ 1	58 1162	1	ABSORPTION
C 78-PT-NAT	521		5.000- 7	1.500+ 1	60 897	1	ABSORPTION
C 78-PT-NAT	523		5.000- 7	1.500+ 1	66 1936	1	N,GAMMA
C 78-PT-NAT			0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C 78-PT-NAT			3.000- 3	6.500- 1	64 1226	2	AVERAGE RESONANCE PARAMETERS
78-PT-NAT			3.300- 5	3.300- 5	59 2007	2	RESONANCE PARAMETERS
78-PT-NAT			5.350- 5	4.500- 3	59 2282	74	RESONANCE PARAMETERS
78-PT-NAT			5.400- 5	5.680- 4	59 2303	15	RESONANCE PARAMETERS
78-PT-NAT			9.814- 5	8.202- 4	69 2547	35	RESONANCE PARAMETERS
78-PT-NAT			1.294- 4	1.446- 4	59 2501	2	RESONANCE PARAMETERS
78-PT-190	71		2.500- 8	2.500- 8	55 267	1	ABSORPTION
N 78-PT-192	12		1.440+ 1	1.440+ 1	72 3518	1	N,2N
78-PT-192	71		2.500- 8	2.500- 8	55 267	1	ABSORPTION
78-PT-192	73	5	2.500- 8	2.500- 8	62 2656	1	N,GAMMA
78-PT-192	73	5	2.500- 8	2.500- 8	63 1961	1	N,GAMMA
78-PT-192			4.600- 5	5.300- 5	59 2007	3	RESONANCE PARAMETERS
78-PT-192			4.655- 5	5.804- 4	69 2547	23	RESONANCE PARAMETERS
78-PT-192			4.700- 5	5.400- 5	59 2303	2	RESONANCE PARAMETERS
78-PT-192			5.390- 5	5.600- 4	59 2282	3	RESONANCE PARAMETERS
N 78-PT-194	26		1.440+ 1	1.440+ 1	72 3518	1	N,P
78-PT-194	26		1.450+ 1	1.450+ 1	59 550	1	N,P
78-PT-194	34		1.450+ 1	1.450+ 1	58 550	1	N,ALPHA
78-PT-194	71		2.500- 8	2.500- 8	55 267	1	ABSORPTION
78-PT-194	73	5	2.500- 8	2.500- 8	62 2656	1	N,GAMMA
78-PT-194			3.770- 4	6.983- 4	69 2547	14	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 78194

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
78-PT-194			7.000-4	7.000-4	59 2282	1	RESONANCE PARAMETERS
78-PT-195	26		1.450+1	1.450+1	59 550	1	N,P
78-PT-195	71		2.500-8	2.500-8	55 267	1	ABSORPTION
78-PT-195	224 80		1.180-5	6.800-4	66 1923	66	N,X GAMMA SPECTRUM AVERAGED CROSS SECTION
78-PT-195	224 91		1.200-5	1.200-5	55 3741	2	N,X GAMMA ENERGY DISTRIBUTION
N 78-PT-195			0.000+0	3.200-4	62 2119	2	AVERAGE RESONANCE PARAMETERS
C 78-PT-195			0.000+0	7.000-4	66 1872	2	AVERAGE RESONANCE PARAMETERS
C 78-PT-195			1.000-5	8.300-4	69 2547	4	AVERAGE RESONANCE PARAMETERS
C 78-PT-195			1.000-4	2.200-4	60 2295	1	AVERAGE RESONANCE PARAMETERS
78-PT-195			1.150-5	1.820-5	47 44	2	RESONANCE PARAMETERS
78-PT-195			1.180-5	1.195-4	58 823	5	RESONANCE PARAMETERS
78-PT-195			1.180-5	8.252-4	69 2547	137	RESONANCE PARAMETERS
78-PT-195			1.190-5	1.960-5	57 1967	8	RESONANCE PARAMETERS
78-PT-195			1.190-5	1.960-5	60 2308	6	RESONANCE PARAMETERS
78-PT-195			1.190-5	6.800-5	59 2304	3	RESONANCE PARAMETERS
N 78-PT-195			1.190-5	1.960-5	60 2306	2	RESONANCE PARAMETERS
N 78-PT-195			1.190-5	6.700-5	63 2437	7	RESONANCE PARAMETERS
78-PT-195			1.190-5	6.820-5	60 2439	3	RESONANCE PARAMETERS
78-PT-195			1.190-5	1.890-4	63 2309	10	RESONANCE PARAMETERS
78-PT-195			1.190-5	2.950-4	62 2497	15	RESONANCE PARAMETERS
78-PT-195			1.200-5	6.800-5	59 2307	3	RESONANCE PARAMETERS
78-PT-195			1.960-5	2.900-4	59 2305	19	RESONANCE PARAMETERS
78-PT-195			1.960-5	4.500-4	59 2303	14	RESONANCE PARAMETERS
78-PT-195			6.690-5	6.740-5	61 960	2	RESONANCE PARAMETERS
78-PT-195			6.690-5	1.540-4	59 2501	7	RESONANCE PARAMETERS
78-PT-195			6.690-5	3.080-4	62 2119	60	RESONANCE PARAMETERS
78-PT-195			6.740-5	6.740-5	61 2498	1	RESONANCE PARAMETERS
78-PT-195			6.750-5	1.470-3	59 2282	37	RESONANCE PARAMETERS
78-PT-195			1.130-4	3.040-4	60 2295	60	RESONANCE PARAMETERS
78-PT-195			1.390-4	1.520-4	59 2007	3	RESONANCE PARAMETERS
N 78-PT-196	23		2.500-2	2.500-2	70 3969	2	N,GAMMA
78-PT-196	23 4		2.100-2	2.100-2	57 23	1	N,GAMMA
78-PT-196	23 4		2.400-2	2.400-2	66 1788	1	N,GAMMA
78-PT-196	26		1.400+1	1.400+1	66 1879	1	N,P
N 78-PT-196	26		1.440+1	1.440+1	72 3518	1	N,P
78-PT-196	34		1.450+1	1.450+1	59 550	1	N,ALPHA
78-PT-196	71		2.500-8	2.500-8	55 267	1	ABSORPTION
78-PT-196	73		2.500-8	2.500-8	55 2938	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
78-PT-196	73		2.500-8	2.500-8	62 2656	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
78-PT-196	73 3		2.500-8	2.500-8	62 908	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
78-PT-196	73 4		2.500-8	2.500-8	64 2645	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N 78-PT-196	873		2.500-2	2.500-2	70 3969	1	N,GAMMA CROSS SECTION RATIO
78-PT-196			3.034-4	5.656-4	69 2547	8	RESONANCE PARAMETERS
N 78-PT-197	41		2.500-2	2.500-2	70 3969	1	BOUND ATOM
N 78-PT-198	12		1.440+1	1.440+1	72 3518	1	N,2N
78-PT-198	12		1.470+1	1.470+1	70 3362	1	N,2N
N 78-PT-198	12 3		1.440+1	1.440+1	72 3518	1	N,2N
78-PT-198	12 3		1.470+1	1.470+1	70 3362	1	N,2N
N 78-PT-198	12 3		1.470+1	1.470+1	74 4002	1	N,2N
78-PT-198	12 3		1.480+1	1.480+1	65 1957	1	N,2N
78-PT-198	12 4		1.450+1	1.450+1	53 27	1	N,2N
N 78-PT-198	12 4		1.470+1	1.470+1	74 4002	1	N,2N

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/76

ECSIL-7600 REACTION INDEX (2A 740ERCO)

2A = 78198

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
78-PT-198	12	4	1.480+ 1	1.480+ 1	65 1957	1	N,2N
78-PT-198	23		1.500+ 3	3.000+ 1	60 727	14	N,GAMMA
78-PT-198	23		1.450+ 1	1.450+ 1	57 521	1	N,GAMMA
78-PT-198	23	2	1.500+ 1	1.500+ 1	73 4000	1	N,GAMMA
78-PT-198	23	3	2.530+ 8	2.530+ 8	47 888	1	N,GAMMA
78-PT-198	23	3	2.100+ 2	2.100+ 2	57 23	1	N,GAMMA
78-PT-198	23	3	2.400+ 2	2.400+ 2	66 1788	1	N,GAMMA
78-PT-198	23	3	1.500+ 1	1.500+ 1	73 4000	1	N,GAMMA
78-PT-198	26	2	1.500+ 1	1.500+ 1	73 4000	1	N,P
78-PT-198	71		2.500+ 8	2.500+ 8	55 267	1	ABSORPTION
78-PT-198	73		2.500+ 8	2.500+ 8	64 2645	1	N,GAMMA
78-PT-198	73		2.000+ 0	2.000+ 0	58 363	1	N,GAMMA
78-PT-198	73	2	2.500+ 8	2.500+ 8	64 2645	1	N,GAMMA
78-PT-198	73	3	2.500+ 8	2.500+ 8	49 2742	1	N,GAMMA
78-PT-198	862		1.470+ 1	1.470+ 1	74 4002	1	N,2N
78-PT-198	873	3	1.500+ 1	1.500+ 1	73 4000	1	N,GAMMA
78-PT-198			9.500+ 5	9.500+ 5	58 823	2	RESONANCE PARAMETERS
78-PT-198			9.560+ 5	9.560+ 5	59 2501	1	RESONANCE PARAMETERS
78-PT-198			9.582+ 5	9.582+ 5	69 2547	4	RESONANCE PARAMETERS
78-PT-198			9.600+ 5	9.600+ 5	60 2308	2	RESONANCE PARAMETERS
78-PT-198			9.610+ 5	9.610+ 5	59 2282	1	RESONANCE PARAMETERS
78-PT-198			9.800+ 5	9.800+ 5	59 2303	1	RESONANCE PARAMETERS
78-AU-197	1		3.028+ 10	1.104+ 5	64 778	18	TOTAL
78-AU-197	1		6.180+ 10	3.270+ 8	60 1995	13	TOTAL
78-AU-197	1		1.620+ 9	3.620+ 8	53 809	70	TOTAL
78-AU-197	1		1.420+ 9	1.430+ 7	54 178	78	TOTAL
78-AU-197	1		5.200+ 9	8.200+ 8	54 873	10	TOTAL
78-AU-197	1		5.300+ 9	2.450+ 8	64 3852	18	TOTAL
78-AU-197	1		9.300+ 9	2.310+ 8	70 3876	8	TOTAL
78-AU-197	1		1.000+ 8	1.000+ 6	71 3413	31	TOTAL
78-AU-197	1		2.530+ 8	2.530+ 8	54 2651	1	TOTAL
78-AU-197	1		2.530+ 8	2.530+ 8	71 3110	1	TOTAL
78-AU-197	1		2.530+ 8	1.000+ 6	68 3853	71	TOTAL
78-AU-197	1		1.440+ 6	1.440+ 6	65 949	1	TOTAL
78-AU-197	1		7.330+ 6	5.430+ 5	58 903	31	TOTAL
78-AU-197	1		3.130+ 5	5.140+ 4	59 848	310	TOTAL
78-AU-197	1		5.660+ 5	6.250+ 5	55 1987	15	TOTAL
78-AU-197	1		1.150+ 4	3.000+ 4	49 844	2	TOTAL
78-AU-197	1		5.000+ 3	2.950+ 1	59 508	61	TOTAL
78-AU-197	1		5.000+ 3	6.400+ 1	65 922	34	TOTAL
78-AU-197	1		9.500+ 2	2.980+ 0	53 90	18	TOTAL
78-AU-197	1		1.000+ 1	7.200+ 1	53 93	74	TOTAL
78-AU-197	1		1.013+ 1	5.487+ 1	66 1062	272	TOTAL
78-AU-197	1		5.000+ 1	4.100+ 0	65 1950	4	TOTAL
78-AU-197	1		2.255+ 0	1.487+ 1	67 750	251	TOTAL
78-AU-197	1		2.750+ 0	1.303+ 1	54 504	31	TOTAL
78-AU-197	1		4.100+ 0	4.100+ 0	55 296	1	TOTAL
78-AU-197	1		7.050+ 0	1.397+ 1	57 22	5	TOTAL
78-AU-197	1		1.314+ 1	1.560+ 1	58 324	6	TOTAL
78-AU-197	1		1.400+ 1	1.400+ 1	52 81	1	TOTAL
78-AU-197	1		1.730+ 1	2.880+ 1	60 673	5	TOTAL
78-AU-197	2		3.000+ 1	1.500+ 0	66 885	26	ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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2A = 79197

07/04/76

EC5IL-7600 REACTION INDEX (ZA ORDERED)

ZA = 79197

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
79-AU-197	2	5.000-1	5.000-1	8.779-1	56 149	1	ELASTIC
79-AU-197	2	8.779-1	8.779-1	72 3546		1	ELASTIC
79-AU-197	2	1.020+0	1.000+0	54 103		1	ELASTIC
79-AU-197	2	8.050+0	8.050+0	69 3660		1	ELASTIC
79-AU-197	3	5.000-1	5.000-1	56 149		1	NONELASTIC
79-AU-197	3	1.000+0	7.000+0	56 151		5	NONELASTIC
79-AU-197	3	4.000+0	4.500+0	55 122		2	NONELASTIC
79-AU-197	3	4.100+0	4.100+0	55 296		1	NONELASTIC
79-AU-197	3	1.410+1	1.410+1	55 117		1	NONELASTIC
79-AU-197	3	1.415+1	1.415+1	52 82		1	NONELASTIC
79-AU-197	3	1.420+1	1.420+1	57 319		1	NONELASTIC
79-AU-197	5	3.000-2	1.044+0	56 231		19	TOTAL SCATTERING
79-AU-197	11	4.000+0	7.000+0	52 836		2	N.N.
79-AU-197	11	1.318+1	1.605+1	67 2888		12	N.N.
79-AU-197	11	3.000-1	1.600+0	65 1952		123	N.N.
79-AU-197	11	5.300-1	1.35+0	54 296		19	N.N.
79-AU-197	11	1.400+0	5.300+0	54 299		27	N.N.
79-AU-197	11	1.470+1	1.470+1	68 3368		1	N.N.
79-AU-197	11	1.500+1	1.500+1	68 2936		1	N.N.
79-AU-197	12	4.000-1	1.650+0	56 137		10	N.N.
79-AU-197	12	8.000+0	1.978+1	50 586		11	N.N.
79-AU-197	12	6.360+1	1.478+1	75 3807		14	N.N.
79-AU-197	12	1.380+1	1.494+1	69 2913	2	15	N.N.
79-AU-197	12	1.410+1	1.435+1	76 3437		10	N.N.
79-AU-197	12	1.420+1	1.430+1	73 3427		1	N.N.
79-AU-197	12	1.440+1	1.440+1	73 3518		1	N.N.
79-AU-197	12	1.470+1	1.470+1	68 1718		1	N.N.
79-AU-197	12	1.470+1	1.470+1	68 2506		1	N.N.
79-AU-197	12	5.350+1	1.510+1	60 550		14	N.N.
79-AU-197	12	1.213+1	1.976+1	60 588		10	N.N.
79-AU-197	12	1.440+1	1.440+1	68 2847		1	N.N.
79-AU-197	12	1.440+1	1.440+1	72 3518		1	N.N.
79-AU-197	12	1.470+1	1.470+1	68 1718		1	N.N.
79-AU-197	12	1.480+1	1.480+1	65 1957		1	N.N.
79-AU-197	12	8.400+0	1.510+1	60 550		16	N.N.
79-AU-197	12	8.650+0	2.808+1	75 3690		17	N.N.
79-AU-197	12	1.450+1	1.450+1	53 27		1	N.N.
79-AU-197	12	1.460+1	1.460+1	69 2354		1	N.N.
79-AU-197	12	1.460+1	1.480+1	65 1957		1	N.N.
79-AU-197	12	1.360+1	1.460+1	68 2596		6	N.N.
79-AU-197	13	1.440+1	1.440+1	72 3518		1	N.N.
79-AU-197	21	2.500-8	2.500-8	60 1995		1	ABSORPTION
79-AU-197	21	2.530-8	2.530-8	53 809		1	ABSORPTION
79-AU-197	21	2.530-8	2.530-8	54 873		1	ABSORPTION
79-AU-197	21	2.530-8	2.530-8	54 2651		1	ABSORPTION
79-AU-197	21	2.530-8	2.530-8	58 1162		1	ABSORPTION
79-AU-197	21	2.530-8	2.530-8	60 891		1	ABSORPTION
79-AU-197	21	2.530-8	2.530-8	62 2650		1	ABSORPTION
79-AU-197	21	2.530-8	2.530-8	64 775		1	ABSORPTION
79-AU-197	21	2.400-2	2.400-2	65 1364		1	ABSORPTION
79-AU-197	22	3.800+2	3.800+2	55 461		1	N.F.

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ZA = 79197

07/04/76

ECSIL-7600 REACTION INDEX (7A ORDERED)

ZA = 79197

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
79-AU-197	23	1.047-	9	2.540-	9	62 2650	21 N.GAMMA
79-AU-197	23	1.000-	8	8.000-	6	65 1994	34 N.GAMMA
79-AU-197	23	1.000-	8	3.500-	2	64 1956	208 N.GAMMA
79-AU-197	23	2.530-	8	2.530-	8	47 888	1 N.GAMMA
79-AU-197	23	2.530-	8	2.530-	8	68 1990	1 N.GAMMA
79-AU-197	23	1.800-	7	4.100-	2	63 1960	99 N.GAMMA
N 79-AU-197	23	2.000-	4	3.460-	2	70 3315	26 N.GAMMA
79-AU-197	23	2.300-	4	7.500-	3	61 718	42 N.GAMMA
79-AU-197	23	9.576-	4	1.07+	0	70 3063	95 N.GAMMA
79-AU-197	23	1.000-	3	1.700-	2	60 616	11 N.GAMMA
79-AU-197	23	1.500-	3	2.000-	1	60 727	13 N.GAMMA
N 79-AU-197	23	5.500-	3	8.200-	2	74 4060	32 N.GAMMA
N 79-AU-197	23	6.870-	3	2.470-	1	73 3829	15 N.GAMMA
79-AU-197	23	9.400-	3	1.870-	1	61 877	51 N.GAMMA
79-AU-197	23	1.030-	2	1.610-	1	67 1547	72 N.GAMMA
79-AU-197	23	1.280-	2	6.834-	1	65 1958	15 N.GAMMA
79-AU-197	23	1.310-	2	6.912-	1	70 760	15 N.GAMMA
79-AU-197	23	1.520-	2	5.580-	1	68 3301	18 N.GAMMA
79-AU-197	23	1.900-	2	3.000-	1	62 1407	8 N.GAMMA
79-AU-197	23	2.100-	2	2.100-	2	57 23	1 N.GAMMA
79-AU-197	23	2.100-	2	2.100-	2	58 43	1 N.GAMMA
N 79-AU-197	23	2.370-	2	2.370-	2	73 3909	1 N.GAMMA
79-AU-197	23	2.400-	2	2.400-	2	57 305	1 N.GAMMA
79-AU-197	23	2.400-	2	2.400-	2	65 867	1 N.GAMMA
N 79-AU-197	23	2.430-	2	2.430-	2	74 3565	1 N.GAMMA
79-AU-197	23	2.500-	2	2.500-	2	60 639	1 N.GAMMA
79-AU-197	23	2.500-	2	2.500-	2	62 697	1 N.GAMMA
79-AU-197	23	2.500-	2	2.200-	1	60 633	2 N.GAMMA
79-AU-197	23	3.000-	2	3.000-	2	63 799	1 N.GAMMA
79-AU-197	23	3.000-	2	6.400-	2	61 684	3 N.GAMMA
79-AU-197	23	3.000-	2	6.400-	2	56 1955	2 N.GAMMA
79-AU-197	23	3.000-	2	6.500-	2	83 1	2 N.GAMMA
79-AU-197	23	3.000-	2	1.500+	0	61 680	21 N.GAMMA
79-AU-197	23	3.000-	2	3.970+	0	61 759	26 N.GAMMA
N 79-AU-197	23	3.230-	2	1.335+	0	71 3821	10 N.GAMMA
N 79-AU-197	23	1.210-	1	1.660+	0	71 3498	15 N.GAMMA
N 79-AU-197	23	1.210-	1	2.730+	0	74 3498	23 N.GAMMA
79-AU-197	23	1.250-	1	1.820-	1	67 1807	3 N.GAMMA
79-AU-197	23	1.270-	1	1.789+	0	64 1954	11 N.GAMMA
79-AU-197	23	1.430-	1	1.223+	0	85 1952	12 N.GAMMA
79-AU-197	23	1.500-	1	1.000+	0	59 607	3 N.GAMMA
79-AU-197	23	1.500-	1	5.500+	0	59 663	21 N.GAMMA
79-AU-197	23	1.750-	1	1.000+	0	60 674	7 N.GAMMA
79-AU-197	23	1.800-	1	1.900-	1	59 524	1 N.GAMMA
79-AU-197	23	1.950-	1	1.950-	1	59 526	1 N.GAMMA
79-AU-197	23	2.000-	1	2.000-	1	58 363	1 N.GAMMA
N 79-AU-197	23	2.000-	1	3.000+	0	74 3896	19 N.GAMMA
N 79-AU-197	23	4.000-	1	3.500+	0	74 3535	18 N.GAMMA
79-AU-197	23	1.730+	0	3.000+	0	44 260	2 N.GAMMA
79-AU-197	23	3.000+	0	3.000+	0	67 1991	1 N.GAMMA
79-AU-197	23	1.400+	1	1.400+	1	71 3194	1 N.GAMMA
C 79-AU-197	24	7 1.500-	1	1.500+	0	61 11	111 N.X GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 79197

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 79197

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	79-AU-197		0.000-0	5.000-2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	79-AU-197		4.000-6	1.000-3	66 1951	3	AVERAGE RESONANCE PARAMETERS
C	79-AU-197		1.000-3	1.000-1	68 2090	3	AVERAGE RESONANCE PARAMETERS
C	79-AU-197		3.000-3	6.500-1	64 1226	1	AVERAGE RESONANCE PARAMETERS
C	79-AU-197		8.000-3	3.000-2	68 3311	1	AVERAGE RESONANCE PARAMETERS
	79-AU-197		-2.000-5	-2.000-5	68 3014	2	RESONANCE PARAMETERS
	79-AU-197		4.800-6	4.800-6	46 961	1	RESONANCE PARAMETERS
	79-AU-197		4.800-6	4.800-6	47 44	1	RESONANCE PARAMETERS
	79-AU-197		4.800-6	4.800-6	50 2506	1	RESONANCE PARAMETERS
	79-AU-197		4.870-6	4.870-6	51 2436	4	RESONANCE PARAMETERS
	79-AU-197		4.900-6	4.900-6	68 2743	2	RESONANCE PARAMETERS
	79-AU-197		4.906-6	4.906-6	56 2440	6	RESONANCE PARAMETERS
	79-AU-197		4.910-6	4.910-6	54 2441	2	RESONANCE PARAMETERS
	79-AU-197		4.940-6	1.940-4	54 458	21	RESONANCE PARAMETERS
	79-AU-197		4.645-5	5.470-4	65 1949	60	RESONANCE PARAMETERS
	79-AU-197		4.650-5	4.650-5	55 1106	2	RESONANCE PARAMETERS
	79-AU-197		4.650-5	4.650-5	58 903	1	RESONANCE PARAMETERS
	79-AU-197		4.650-5	9.954-4	66 1951	200	RESONANCE PARAMETERS
	79-AU-197		4.670-5	9.400-4	60 2472	154	RESONANCE PARAMETERS
	79-AU-197		8.025-5	2.403-4	66 2434	6	RESONANCE PARAMETERS
	79-AU-197		6.100-3	2.660-4	58 2545	20	RESONANCE PARAMETERS
	79-AU-197		7.834-5	7.834-5	52 2283	1	RESONANCE PARAMETERS
	79-AU-197		1.022-3	3.080-3	69 1854	184	RESONANCE PARAMETERS
N	79-AU-197		2.597-3	4.827-3	75 3551	115	RESONANCE PARAMETERS
	79-AU-198		2.530-8	2.530-8	63 2652	1	TOTAL
	79-AU-198	23	2.530-8	2.530-8	51 2844	1	N, GAMMA
N	79-AU-198	23	2.530-8	2.530-8	69 3929	1	N, GAMMA
	79-AU-198	73	2.500-8	2.500-8	55 2653	1	N, GAMMA
N	79-AU-198	73 87	2.530-8	2.530-8	72 2728	54	N, GAMMA
	80-HG-NAT	1	4.900-7	5.810-4	46 961	28	TOTAL
	80-HG-NAT	1	3.900-6	6.500-3	52 803	84	TOTAL
	80-HG-NAT	1	1.610-5	7.400-3	56 138	91	TOTAL
	80-HG-NAT	1	1.799-5	3.547-2	60 2389	932	TOTAL
	80-HG-NAT	1	3.059-5	2.035-3	59 1005	366	TOTAL
	80-HG-NAT	1	1.150-4	3.000-4	49 844	2	TOTAL
	80-HG-NAT	1	1.000-3	1.000-3	48 259	1	TOTAL
	80-HG-NAT	1	4.000-2	6.510-1	65 921	101	TOTAL
	80-HG-NAT	1	1.001-1	6.488-1	66 1062	336	TOTAL
	80-HG-NAT	1	1.750-1	2.845-0	53 90	17	TOTAL
	80-HG-NAT	1	3.400-1	3.420-0	53 264	33	TOTAL
	80-HG-NAT	1	1.007-0	2.007-0	69 3210	101	TOTAL
	80-HG-NAT	1	2.255-0	1.487-1	67 750	243	TOTAL
	80-HG-NAT	1	2.830-0	1.312-1	54 504	30	TOTAL
	80-HG-NAT	1	4.100-0	4.100-0	60 576	1	TOTAL
	80-HG-NAT	1	1.300-1	1.620-1	55 133	7	TOTAL
	80-HG-NAT	1	1.400-1	1.400-1	52 81	1	TOTAL
	80-HG-NAT	1	2.540-1	2.540-1	45 307	1	TOTAL
	80-HG-NAT	1	2.840-1	2.840-1	61 233	1	TOTAL
	80-HG-NAT	1	4.200-1	4.200-1	50 281	1	TOTAL
	80-HG-NAT	1	6.100-1	1.058-2	55 282	12	TOTAL
	80-HG-NAT	2	1.950-5	1.950-5	51 962	1	ELASTIC
	80-HG-NAT	2	3.000-1	3.000-1	63 1699	1	ELASTIC

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-284 ***

ZA = 80000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 80000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
80-HG-NAT	2		3.000-1	1.500+0	66 885	25	ELASTIC
80-HG-NAT	2		5.000-1	8.000-1	64 870	2	ELASTIC
80-HG-NAT	2		6.500-1	6.500-1	63 1750	1	ELASTIC
N 80-HG-NAT	2		8.816-1	8.816-1	72 3546	1	ELASTIC
80-HG-NAT	2		1.000+0	1.000+0	54 103	1	ELASTIC
80-HG-NAT	2		2.000+0	2.000+0	65 1509	1	ELASTIC
80-HG-NAT	2		4.100+0	4.100+0	60 576	1	ELASTIC
80-HG-NAT	3		2.900-1	1.020+0	56 353	3	NONELASTIC
80-HG-NAT	3		6.500-1	5.500-1	63 1750	1	NONELASTIC
80-HG-NAT	3		1.000+0	1.000+0	54 103	1	NONELASTIC
80-HG-NAT	3		2.500+0	2.500+0	56 34	1	NONELASTIC
80-HG-NAT	3		2.500+0	4.100+0	55 790	3	NONELASTIC
80-HG-NAT	3		4.100+0	4.100+0	60 576	1	NONELASTIC
80-HG-NAT	3		1.400+1	1.400+1	58 877	1	NONELASTIC
80-HG-NAT	3		1.410+1	1.410+1	57 199	1	NONELASTIC
80-HG-NAT	3		1.420+1	1.420+1	57 319	1	NONELASTIC
80-HG-NAT	3		1.450+1	1.450+1	56 200	1	NONELASTIC
80-HG-NAT	11		4.000-1	1.000+0	63 773	4	N,N'
80-HG-NAT	11		4.000-1	1.000+0	63 773	6	N,N'
80-HG-NAT	11		5.500-1	1.500+0	65 1993	40	N,N'
80-HG-NAT	21		2.530-8	2.530-8	60 631	1	ABSORPTION
80-HG-NAT	21		2.400-2	2.400-2	65 1364	1	ABSORPTION
80-HG-NAT	21		2.500-2	8.300-1	58 364	3	ABSORPTION
80-HG-NAT	23		2.400-2	2.400-2	60 639	1	N,GAMMA
80-HG-NAT	23		2.400-2	8.300-1	60 633	3	N,GAMMA
80-HG-NAT	23		3.000-2	6.500-2	61 677	2	N,GAMMA
80-HG-NAT	23		3.000-2	6.500-2	63 1	2	N,GAMMA
80-HG-NAT	23		3.000-2	3.000-1	62 1407	5	N,GAMMA
80-HG-NAT	23		2.000-1	2.000-1	58 363	1	N,GAMMA
80-HG-NAT	43		3.700-9	2.420-8	51 962	3	COHERENT SCATTERING
80-HG-NAT	43		2.530-8	2.530-8	63 2654	1	COHERENT SCATTERING
80-HG-NAT	48		1.400+1	1.400+1	58 877	1	ETA
80-HG-NAT	52		2.500-8	2.500-8	51 962	1	ELASTIC
80-HG-NAT	71		2.520-8	2.500-8	50 1794	1	ABSORPTION
80-HG-NAT	71		2.500-8	2.500-8	51 882	1	ABSORPTION
80-HG-NAT	71		2.500-8	2.500-8	52 1621	1	ABSORPTION
80-HG-NAT	73	7	2.530-8	2.530-8	70 2415	84	N,GAMMA
80-HG-NAT	73	10	2.530-8	2.530-8	70 2415	26	N,GAMMA
80-HG-NAT	74		2.530-8	2.530-8	70 2415	1	N,X GAMMA
N 80-HG-NAT	86	3	4.500+0	4.500+0	73 3989	1	ACTIVATION
80-HG-NAT	102		3.000-1	3.000-1	63 1699	8	ELASTIC
80-HG-NAT	102		5.000-1	8.000-1	64 870	16	ELASTIC
80-HG-NAT	102		6.500-1	6.500-1	63 1750	8	ELASTIC
N 80-HG-NAT	102		8.816-1	8.816-1	72 3546	8	ELASTIC
80-HG-NAT	102		1.000+0	1.000+0	54 103	9	ELASTIC
80-HG-NAT	102		2.800+0	2.800+0	58 1044	9	ELASTIC
80-HG-NAT	102		3.200+0	3.200+0	66 2950	12	ELASTIC
80-HG-NAT	102		4.100+0	4.100+0	60 576	16	ELASTIC
80-HG-NAT	102		1.400+1	1.400+1	57 501	16	ELASTIC
80-HG-NAT	102		1.450+1	1.450+1	61 1997	16	ELASTIC
N 80-HG-NAT	102		1.480+1	1.480+1	73 3547	11	ELASTIC
N 80-HG-NAT	304		1.455+1	1.455+1	74 4002	474	NEUTRON EMISSION

SPECTRUM AVERAGED CROSS SECTION
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SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
ANGULAR DISTRIBUTION
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ANGULAR DISTRIBUTION
ANGULAR DISTRIBUTION
ANGULAR DISTRIBUTION
DIFF. ENERGY-ANGLE DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-285 ***

ZA = 80000

07/04/76

ECSIL-7600 REACTION INDEX (2A ORDERED)

2A = 80000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
N	80-HG-NAT	311	80	1.410+1	1.410+1	65 1932	53 N,N'	DIFF. ENERGY-ANGLE DISTRIBUTION
	80-HG-NAT	406		1.420+1	1.420+1	58 905	1	NONELASTIC EMISSION
	80-HG-NAT	452		3.000-1	1.500+0	66 885	125	ELASTIC
C	80-HG-NAT	521		4.900-7	1.500+1	57 1054	1	ABSORPTION
	80-HG-NAT			1.410+1	1.410+1	66 1932	1	NUCLEAR TEMPERATURE
C	80-HG-NAT			0.000+0	2.020-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	80-HG-NAT			3.000-3	6.500-1	64 1226	1	AVERAGE RESONANCE PARAMETERS
C	80-HG-NAT			3.000-2	6.500-1	68 1992	1	AVERAGE RESONANCE PARAMETERS
	80-HG-NAT			1.280-4	2.060-4	56 138	2	RESONANCE PARAMETERS
	80-HG-NAT			2.707-4	6.500-4	60 2399	9	RESONANCE PARAMETERS
	80-HG-196	12	4	1.410+1	1.410+1	69 2773	1	N,2N
	80-HG-196	12	4	1.440+1	1.440+1	68 2847	1	N,2N
N	80-HG-196	12	4	1.440+1	1.440+1	72 3518	2	N,2N
	80-HG-196	23		2.530-8	2.530-8	62 2656	1	N,GAMMA
N	80-HG-196	23	4	2.530-8	2.530-8	67 3722	2	N,GAMMA
	80-HG-196	73	4	2.500-8	2.500-8	59 2655	2	N,GAMMA
	80-HG-196	73	4	2.500-8	2.500-8	60 2664	1	N,GAMMA
	80-HG-196	73	4	2.500-8	2.500-8	63 1961	2	N,GAMMA
	80-HG-196	73	4	2.500-8	2.500-8	64 2645	2	N,GAMMA
	80-HG-196	73	4	2.500-8	2.500-8	68 1962	2	N,GAMMA
N	80-HG-196	523	4	5.000-7	1.500+1	67 3722	2	N,GAMMA
	80-HG-196			9.350-5	9.350-5	60 2399	6	RESONANCE PARAMETERS
	80-HG-198	11	1	4.200-1	7.280-1	73 4070	20	N,M'
	80-HG-198	12		1.470+1	1.470+1	68 1718	1	N,2N
	80-HG-198	12	4	1.410+1	1.410+1	69 2773	2	N,2N
	80-HG-198	12	4	1.440+1	1.440+1	68 2847	1	N,2N
N	80-HG-198	12	4	1.440+1	1.440+1	72 3518	2	N,2N
	80-HG-198	26		1.410+1	1.410+1	69 2773	1	N,P
N	80-HG-198	26		1.440+1	1.440+1	72 3518	1	N,P
	80-HG-198	73		2.500-8	2.500-8	59 2655	1	N,GAMMA
	80-HG-198			2.300-5	3.000-4	57 2024	3	RESONANCE PARAMETERS
	80-HG-198			2.300-5	3.110-4	56 138	3	RESONANCE PARAMETERS
	80-HG-198			2.300-5	4.170-4	60 2399	29	RESONANCE PARAMETERS
	80-HG-198			2.300-5	4.174-4	69 3043	4	RESONANCE PARAMETERS
	80-HG-198			2.306-5	4.174-4	69 1878	20	RESONANCE PARAMETERS
	80-HG-198			2.330-5	2.330-5	52 803	1	RESONANCE PARAMETERS
	80-HG-198			2.330-5	2.330-5	56 1238	3	RESONANCE PARAMETERS
	80-HG-198			2.330-5	9.110-5	63 2439	6	RESONANCE PARAMETERS
	80-HG-198			9.000-5	9.000-5	59 1005	4	RESONANCE PARAMETERS
C	80-HG-199	11	1	5.700-1	2.220+0	55 300	20	N,N'
C	80-HG-199	11	3	2.800+0	2.800+0	67 2602	1	N,N'
	80-HG-199	11	3	1.440+1	1.440+1	68 2847	1	N,N'
N	80-HG-199	11	3	1.440+1	1.440+1	72 3518	1	N,N'
	80-HG-199	26		1.410+1	1.410+1	69 2773	1	N,P
N	80-HG-199	26		1.440+1	1.440+1	72 3518	1	N,P
N	80-HG-199	36		1.440+1	1.440+1	72 3518	1	ACTIVATION
	80-HG-199			-2.000-6	-2.000-6	51 962	4	RESONANCE PARAMETERS
	80-HG-199			-2.000-6	-2.000-6	53 2500	1	RESONANCE PARAMETERS
	80-HG-199			-2.000-6	1.770-4	57 2502	3	RESONANCE PARAMETERS
N	80-HG-199			-2.000-6	-2.000-6	46 961	1	RESONANCE PARAMETERS
N	80-HG-199			-2.000-6	1.730-4	60 940	4	RESONANCE PARAMETERS
	80-HG-199			3.300-5	2.640-4	59 2304	3	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-286 ***

2A = 80199

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 80199

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
80-HG-199			3.350-5	1.750-4	59 1005	15	RESONANCE PARAMETERS
80-HG-199			3.350-5	3.150-4	69 3043	5	RESONANCE PARAMETERS
80-HG-199			3.350-5	4.910-4	57 2024	9	RESONANCE PARAMETERS
80-HG-199			3.350-5	6.860-4	69 1878	28	RESONANCE PARAMETERS
80-HG-199			3.350-5	8.800-4	60 2399	48	RESONANCE PARAMETERS
80-HG-199			3.350-5	1.310-4	63 2439	4	RESONANCE PARAMETERS
80-HG-199			3.400-5	3.400-5	56 1238	5	RESONANCE PARAMETERS
80-HG-199			3.400-5	1.770-4	56 138	3	RESONANCE PARAMETERS
80-HG-199			3.540-5	3.540-5	52 803	1	RESONANCE PARAMETERS
80-HG-199			1.300-4	1.300-4	63 2309	1	RESONANCE PARAMETERS
80-HG-200	11	1	3.830-1	7.280-1	73 4070	28	N,N'
80-HG-200	12	3	1.410+1	1.410+1	69 2773	1	N,2N
80-HG-200	12	3	1.440+1	1.440+1	68 2847	1	N,2N
80-HG-200	12	3	1.440+1	1.440+1	72 3518	1	N,2N
80-HG-200	26		1.450+1	1.450+1	59 550	1	N,P
80-HG-200	34		1.410+1	1.410+1	69 2773	1	N,ALPHA
80-HG-200	34		1.450+1	1.450+1	59 550	1	N,ALPHA
80-HG-200			1.325-3	7.800-3	60 2399	22	RESONANCE PARAMETERS
80-HG-201	26		1.410+1	1.410+1	69 2773	1	N,P
80-HG-201	26		1.450+1	1.450+1	59 550	1	N,P
80-HG-201			4.300-5	2.060-4	56 138	3	RESONANCE PARAMETERS
80-HG-201			4.300-5	2.090-4	59 1005	13	RESONANCE PARAMETERS
80-HG-201			4.300-5	3.128-4	69 3043	4	RESONANCE PARAMETERS
80-HG-201			4.300-5	4.410-4	59 2304	3	RESONANCE PARAMETERS
80-HG-201			4.300-5	5.580-4	57 2024	6	RESONANCE PARAMETERS
80-HG-201			4.300-5	6.850-4	60 2399	36	RESONANCE PARAMETERS
80-HG-201			4.300-5	7.090-4	69 1878	28	RESONANCE PARAMETERS
80-HG-201			4.330-5	7.180-5	63 2439	6	RESONANCE PARAMETERS
80-HG-201			2.101-4	2.101-4	62 2119	4	RESONANCE PARAMETERS
80-HG-202	11	1	4.460-1	7.280-1	73 4070	21	N,N'
80-HG-202	23		2.530-8	2.530-8	67 3722	1	N,GAMMA
80-HG-202	23		2.400-8	2.400-8	57 305	1	N,GAMMA
80-HG-202	23		1.950-1	1.950-1	59 526	1	N,GAMMA
80-HG-202	34		1.450+1	1.450+1	59 550	1	N,ALPHA
80-HG-202	73		2.500-8	2.500-8	51 2685	1	N,GAMMA
80-HG-202	73		2.500-8	2.500-8	62 2658	1	N,GAMMA
80-HG-202	73	5	2.500-8	2.500-8	68 1964	1	N,GAMMA
80-HG-202	523		5.000-7	1.500+1	67 3722	1	N,GAMMA
80-HG-202	523		6.000-7	1.500+1	63 3352	1	N,GAMMA
80-HG-202	523	5	5.000-7	1.500+1	68 1964	1	N,GAMMA
80-HG-202			1.710-3	4.100-3	60 2393	10	RESONANCE PARAMETERS
80-HG-204	12		1.410+1	1.410+1	69 2773	1	N,2N
80-HG-204	12		1.440+1	1.440+1	72 3518	1	N,2N
80-HG-204	12		1.470+1	1.470+1	68 1718	1	N,2N
80-HG-204	12		1.500+1	1.500+1	68 2836	1	N,2N
80-HG-204	23		2.530-8	2.530-8	47 888	1	N,GAMMA
80-HG-204	23		2.400-2	3.400-2	66 1788	2	N,GAMMA
80-HG-204	73		2.500-8	2.500-8	49 2742	1	N,GAMMA
81-TL-NAT			1.310-5	3.850-3	58 903	42	TOTAL
81-TL-NA			1.880-5	9.976-3	62 1965	522	TOTAL
81-TL-NAT			8.380-5	5.370-4	55 2324	65	TOTAL
81-TL-NAT			1.150-4	3.000-4	49 844	2	TOTAL

SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 SPECTRUM AVERAGED CROSS SECTION
 RESONANCE INTEGRAL
 RESONANCE INTEGRAL
 RESONANCE INTEGRAL

SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-287 ***

ZA = 81000

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 81000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
81-TL-NAT	1		3.800-3	5.810-2	61 737	77	TOTAL
81-TL-NAT	1		6.000-3	1.900-1	65 922	44	TOTAL
81-TL-NAT	1		1.140-2	8.100-2	57 154	111	TOTAL
N 81-TL-NAT	1		1.100-1	6.500-1	67 3638	110	TOTAL
81-TL-NAT	1		4.201-1	3.197+1	70 2517	5633	TOTAL
81-TL-NAT	1		5.000-1	4.122+0	65 1950	4	TOTAL
81-TL-NAT	1		2.25+0	1.490+1	67 750	243	TOTAL
81-TL-NAT	1		2.750+0	1.304+1	54 504	31	TOTAL
81-TL-NAT	1		7.150+0	1.407+1	57 22	5	TOTAL
81-TL-NAT	1		1.400+1	1.400+1	32 81	1	TOTAL
81-TL-NAT	1		1.500+1	1.620+1	58 975	2	TOTAL
N 81-TL-NAT	1		1.500+1	1.620+1	55 133	2	TOTAL
81-TL-NAT	1		1.750+1	2.890+1	60 673	4	TOTAL
81-TL-NAT	2		3.000-1	1.500+0	66 885	25	ELASTIC
81-TL-NAT	5		6.000-2	1.800+0	56 231	23	TOTAL SCATTERING
81-TL-NAT	11		4.000+0	7.000+0	63 636	4	N,N'
81-TL-NAT	11		5.000-1	1.500+0	65 1993	68	N,N'
81-TL-NAT	22		3.800+2	3.800+2	55 461	1	N,F
81-TL-NAT	23		7.400-7	4.200-2	64 1966	120	N,GAMMA
81-TL-NAT	23		3.000-2	6.500-2	81 677	2	N,GAMMA
81-TL-NAT	23		3.000-2	6.500-2	63 1	2	N,GAMMA
N 81-TL-NAT	23		4.000-1	4.000-1	71 3821	2	N,GAMMA
81-TL-NAT	71		2.500-8	2.500-8	50 1794	1	ABSORPTION
81-TL-NAT	71		2.500-8	2.500-8	51 982	1	ABSORPTION
81-TL-NAT	102		6.000-2	2.400-1	56 231	15	ELASTIC
81-TL-NAT	102		3.200+0	3.200+0	66 2950	11	ELASTIC
81-TL-NAT	102		5.000+0	5.000+0	66 1254	13	ELASTIC
81-TL-NAT	102		7.000+0	7.000+0	63 936	1	ELASTIC
81-TL-NAT	105		3.300-1	1.690+0	56 231	90	TOTAL SCATTERING
81-TL-NAT	452		3.000-1	1.500+0	66 885	125	ELASTIC
C 81-TL-NAT	521		0.000+0	2.000+1	71 3311	1	ABSORPTION
81-TL-NAT	606		1.410+1	1.410+1	65 1905	1	NONELASTIC EMISSION
N 81-TL-NAT	873		4.000-1	4.000-1	71 3821	1	N,GAMMA
C 81-TL-NAT			3.000-3	6.500-1	64 1226	1	AVERAGE RESONANCE PARAMETERS
81-TL-NAT			-4.000-5	-4.000-5	58 903	1	RESONANCE PARAMETERS
N 81-TL-NAT			2.108-2	1.015-1	75 3840	54	RESONANCE PARAMETERS
81-TL-203	1		4.000-3	3.000-2	61 737	66	TOTAL
N 81-TL-203	11		1.208+0	2.857+0	75 3830	103	N,N'
81-TL-203	12		8.400+0	1.510+1	60 590	14	N,2N
81-TL-203	12		8.850+0	1.976+1	60 588	11	N,2N
N 81-TL-203	12		1.440+1	1.440+1	72 3518	1	N,2N
81-TL-203	12		1.470+1	1.470+1	68 1718	1	N,2N
81-TL-203	12		1.500+1	1.500+1	60 2836	1	N,2N
81-TL-203	12	2	1.410+1	1.410+1	67 3356	1	N,2N
N 81-TL-203	12	2	1.480+1	1.480+1	73 3471	1	N,2N
81-TL-203	12	2	1.480+1	1.480+1	75 3577	1	N,2N
N 81-TL-203	12	5	8.610+0	2.805+1	75 3890	16	N,2N
81-TL-203	12	5	1.410+1	1.410+1	67 3356	1	N,2N
N 81-TL-203	12	5	1.460+1	1.460+1	73 3988	1	N,2N
N 81-TL-203	12	5	1.480+1	1.480+1	73 3471	1	N,2N
N 81-TL-203	12	5	1.480+1	1.480+1	75 3577	1	N,2N
81-TL-203	12	80	1.220+1	1.780+1	52 933	4	N,2N

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-288 ***

ZA = 81205

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 81203

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
81-TL-203	13		1.650+ 1	1.976+ 1	60 598	3	N,3N
81-TL-203	23		1.000- 5	3.500- 2	64 1966	55	N,GAMMA
N 81-TL-203	34		1.440+ 1	1.440+ 1	72 3518	1	N,ALPHA
81-TL-203	34		1.450+ 1	1.450+ 1	59 550	1	N,ALPHA
81-TL-203	52		2.000+ 0	2.000+ 0	68 2990	1	ELASTIC
81-TL-203	73		2.530- 8	2.530- 8	52 342	1	N,GAMMA
81-TL-203	73	7	2.530- 8	2.530- 8	70 2415	103	N,GAMMA
81-TL-203	73	10	2.530- 9	2.530- 8	70 2415	24	N,GAMMA
81-TL-203	74		2.530- 8	2.530- 8	70 2415	1	N,X GAMMA
N 81-TL-203	224	80	2.530- 8	2.530- 8	72 3916	20	N,X GAMMA
N 81-TL-203	862	2	1.480+ 1	1.480+ 1	75 3577	1	N,2N
N 81-TL-203			0.000+ 0	1.723- 2	75 3940	4	AVERAGE RESONANCE PARAMETERS
N 81-TL-203			0.000+ 0	5.000- 2	75 1894	1	AVERAGE RESONANCE PARAMETERS
N 81-TL-203			3.791- 5	1.038- 1	75 3940	134	RESONANCE PARAMETERS
81-TL-203			2.380- 4	2.380- 4	57 1967	3	RESONANCE PARAMETERS
81-TL-203			2.380- 4	1.108- 3	58 903	2	RESONANCE PARAMETERS
81-TL-203			2.380- 4	5.000- 3	64 1966	3	RESONANCE PARAMETERS
81-TL-203			2.388- 4	2.388- 4	65 2548	1	RESONANCE PARAMETERS
81-TL-203			2.700- 4	2.900- 2	61 737	10	RESONANCE PARAMETERS
81-TL-204	102		5.000- 1	2.500+ 0	65 1950	66	ELASTIC
81-TL-204			1.228- 4	7.962- 4	68 2759	2	RESONANCE PARAMETERS
81-TL-205	1		3.900- 3	5.710- 2	61 737	86	TOTAL
N 81-TL-205	11	1	1.195+ 0	2.829+ 0	75 3830	62	N,N'
81-TL-205	12		1.480+ 1	1.480+ 1	64 1968	1	N,2N
N 81-TL-205	12	2	1.480+ 1	1.480+ 1	73 3471	1	N,2N
N 81-TL-205	12	5	2.606+ 1	2.606+ 1	75 3890	1	N,2N
81-TL-205	23		1.000- 5	3.500- 2	64 1966	20	N,GAMMA
81-TL-205	23		2.100- 2	2.100- 2	58 43	1	N,GAMMA
81-TL-205	23		2.400- 2	2.400- 2	68 2856	1	N,GAMMA
81-TL-205	23		2.800- 2	2.700+ 0	60 738	41	N,GAMMA
81-TL-205	23		2.500+ 0	4.000+ 0	58 1044	3	N,GAMMA
81-TL-205	23		1.450+ 1	1.450+ 1	57 521	1	N,GAMMA
81-TL-205	26		1.450+ 1	1.450+ 1	53 27	1	N,P
81-TL-205	26		1.450+ 1	1.450+ 1	59 550	1	N,P
81-TL-205	73		2.500- 8	2.500- 8	52 342	1	N,GAMMA
N 81-TL-205			0.000+ 0	2.000- 2	75 3840	2	AVERAGE RESONANCE PARAMETERS
N 81-TL-205			0.000+ 0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
N 81-TL-205			4.461- 5	9.300- 2	75 3840	37	RESONANCE PARAMETERS
81-TL-205			3.000- 3	3.000- 3	64 1966	1	RESONANCE PARAMETERS
81-TL-205			3.000- 3	5.500- 2	61 737	5	RESONANCE PARAMETERS
82-PB-NAT	1		1.254- 6	4.551- 6	56 2110	20	TOTAL
82-PB-NAT	1		1.440- 6	1.440- 6	65 949	1	TOTAL
N 82-PB-NAT	1		2.140- 5	3.959- 4	72 4046	10	TOTAL
82-PB-NAT	1		1.150- 4	3.000- 4	49 844	2	TOTAL
82-PB-NAT	1		2.097- 4	2.056- 2	58 903	89	TOTAL
82-PB-NAT	1		1.240- 2	8.070- 2	53 143	104	TOTAL
82-PB-NAT	1		1.800- 2	7.610- 1	49 52	105	TOTAL
82-PB-NAT	1		2.030- 2	3.420- 2	56 273	50	TOTAL
N 82-PB-NAT	1		1.000- 1	6.600- 1	67 3638	30	TOTAL
82-PB-NAT	1		2.920- 1	7.500- 1	50 59	27	TOTAL
82-PB-NAT	1		3.040- 1	7.560- 1	61 732	153	TOTAL
82-PB-NAT	1		4.500- 1	2.550+ 0	61 1000	8	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-289 ***

ZA = 82000

07/04/76

EUSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 82000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	B2-P8-NAT	1	4.600-	2.990+	0	66 4017	11 TOTAL
	B2-P8-NAT	1	4.725-	1.497+	1	71 3181	3454 TOTAL
	B2-P8-NAT	1	6.000-	1.207+	0	65 1683	175 TOTAL
	B2-P8-NAT	1	5.100-	2.350+	0	50 315	31 TOTAL
	B2-P8-NAT	1	7.332-	4.364+	0	68 2478	857 TOTAL
	B2-P8-NAT	1	8.870-	1.475+	0	49 50	15 TOTAL
	B2-P8-NAT	1	9.070-	1.900+	1	41 170	11 TOTAL
	B2-P8-NAT	1	1.000+	4.110+	0	60 600	65 TOTAL
	B2-P8-NAT	1	1.001+	8.095+	0	71 3341	434 TOTAL
	B2-P8-NAT	1	1.005+	3.210+	0	52 80	18 TOTAL
	B2-P8-NAT	1	1.995+	1.005+	1	67 1508	339 TOTAL
	B2-P8-NAT	1	2.000+	5.880+	0	51 336	15 TOTAL
	B2-P8-NAT	1	2.100+	3.195+	0	58 617	19 TOTAL
	B2-P8-NAT	1	2.250+	2.743+	0	57 817	14 TOTAL
	B2-P8-NAT	1	2.463+	7.543+	0	67 1747	167 TOTAL
	B2-P8-NAT	1	2.931+	1.491+	1	67 750	231 TOTAL
	B2-P8-NAT	1	2.930+	1.309+	1	53 504	33 TOTAL
	B2-P8-NAT	1	3.700+	3.700+	0	53 297	1 TOTAL
	B2-P8-NAT	1	4.000+	4.000+	0	67 1643	1 TOTAL
	B2-P8-NAT	1	4.050+	8.100+	0	98 400	40 TOTAL
	B2-P8-NAT	1	4.100+	4.100+	0	55 296	1 TOTAL
	B2-P8-NAT	1	5.360+	6.200+	0	68 3288	21 TOTAL
	B2-P8-NAT	1	7.170+	1.423+	1	57 62	5 TOTAL
	B2-P8-NAT	1	8.940+	8.940+	0	69 2065	1 TOTAL
	B2-P8-NAT	1	1.680+	1.280+	1	55 116	1 TOTAL
	B2-P8-NAT	1	1.300+	1.620+	1	55 133	10 TOTAL
	B2-P8-NAT	1	1.314+	1.560+	1	58 324	8 TOTAL
	B2-P8-NAT	1	1.377+	1.76+	1	58 349	19 TOTAL
	B2-P8-NAT	1	1.390+	1.390+	1	51 65	1 TOTAL
	B2-P8-NAT	1	1.393+	1.398+	1	63 786	1 TOTAL
	B2-P8-NAT	1	1.400+	1.400+	1	52 81	1 TOTAL
	B2-P8-NAT	1	1.400+	1.400+	1	52 207	1 TOTAL
	B2-P8-NAT	1	1.400+	1.400+	1	62 1740	1 TOTAL
	B2-P8-NAT	1	1.460+	1.460+	1	71 3913	1 TOTAL
	B2-P8-NAT	1	1.460+	1.460+	1	57 368	1 TOTAL
	B2-P8-NAT	1	1.590+	1.175+	1	63 2988	1 TOTAL
	B2-P8-NAT	1	1.590+	2.680+	1	61 659	60 TOTAL
	B2-P8-NAT	1	1.620+	1.530+	1	50 673	1 TOTAL
	B2-P8-NAT	1	3.700+	1.530+	2	53 325	14 TOTAL
	B2-P8-NAT	1	4.200+	1.530+	1	50 281	1 TOTAL
	B2-P8-NAT	1	4.750+	8.200+	1	50 303	2 TOTAL
	B2-P8-NAT	1	5.100+	1.068+	2	55 282	12 TOTAL
	B2-P8-NAT	1	5.150+	1.079+	2	54 269	12 TOTAL
	B2-P8-NAT	1	9.000+	9.000+	1	49 266	1 TOTAL
	B2-P8-NAT	1	9.500+	9.500+	1	50 12	1 TOTAL
	B2-P8-NAT	1	9.900+	1.519+	2	68 2139	6 TOTAL
	B2-P8-NAT	1	3.700+	2.1731+	3	71 3269	15 TOTAL
	B2-P8-NAT	1	1.400+	1.400+	3	55 2056	1 TOTAL
	B2-P8-NAT	1	3.800+	3.800+	3	70 3195	1 TOTAL
	B2-P8-NAT	1	5.000+	5.000+	3	61 1566	1 TOTAL
	B2-P8-NAT	1	5.700+	5.700+	3	69 3160	1 TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

... 1-290 ...

ZA = 82000

07/04/76

ELGIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 82000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
82-PB-NAT	1		8.300+ 3	8.300+ 3	62 1657	1	TOTAL
82-PB-NAT	1		1.200+ 4	2.650+ 4	71 3180	4	TOTAL
82-PB-NAT	1		2.700+ 4	2.700+ 4	68 2350	1	TOTAL
82-PB-NAT	1		3.400+ 4	2.730+ 5	74 3618	7	TOTAL
82-PB-NAT	1	9	1.820-10	5.870- 9	55 995	60	TOTAL
82-PB-NAT	2		2.200- 1	2.200- 1	60 596	1	ELASTIC
82-PB-NAT	2		3.000- 1	3.000- 1	64 2338	1	ELASTIC
82-PB-NAT	2		5.000- 1	8.100- 1	64 870	2	ELASTIC
82-PB-NAT	2		6.500- 1	6.500- 1	63 1750	1	ELASTIC
82-PB-NAT	2		1.000+ 0	1.000+ 0	54 103	2	ELASTIC
82-PB-NAT	2		1.098+ 0	1.098+ 0	72 3546	1	ELASTIC
82-PB-NAT	2		3.670+ 0	4.700+ 0	53 1719	3	ELASTIC
82-PB-NAT	2		4.000+ 0	4.000+ 0	64 1643	1	ELASTIC
82-PB-NAT	2		8.050+ 0	8.050+ 0	69 3650	1	ELASTIC
82-PB-NAT	2		1.000+ 1	1.000+ 1	56 21	1	ELASTIC
82-PB-NAT	2		1.450+ 1	1.450+ 1	58 403	1	ELASTIC
82-PB-NAT	3		8.000- 1	1.600+ 0	55 514	8	NONELASTIC
82-PB-NAT	3		1.000+ 0	4.500+ 0	55 122	3	NONELASTIC
82-PB-NAT	3		1.020+ 0	1.020+ 0	58 353	1	NONELASTIC
82-PB-NAT	3		1.200+ 0	2.000+ 0	56 164	3	NONELASTIC
82-PB-NAT	3		1.740+ 0	2.100+ 0	66 1970	2	NONELASTIC
82-PB-NAT	3		2.500+ 0	2.500+ 0	56 34	1	NONELASTIC
82-PB-NAT	3		2.500+ 0	1.400+ 1	55 790	3	NONELASTIC
82-PB-NAT	3		3.500+ 0	1.410+ 1	55 130	5	NONELASTIC
82-PB-NAT	3		4.100+ 0	4.100+ 0	55 296	1	NONELASTIC
82-PB-NAT	3		7.000+ 0	7.000+ 0	56 151	1	NONELASTIC
82-PB-NAT	3		8.100+ 0	8.100+ 0	65 1228	1	NONELASTIC
82-PB-NAT	3		8.200+ 0	1.850+ 1	59 540	5	NONELASTIC
82-PB-NAT	3		1.000+ 1	1.000+ 1	56 21	1	NONELASTIC
82-PB-NAT	3		1.340+ 1	1.970+ 1	61 706	4	NONELASTIC
82-PB-NAT	3		1.398+ 1	1.398+ 1	63 766	1	NONELASTIC
82-PB-NAT	3		1.400+ 1	1.400+ 1	58 877	1	NONELASTIC
82-PB-NAT	3		1.410+ 1	1.410+ 1	55 117	1	NONELASTIC
82-PB-NAT	3		1.415+ 1	1.415+ 1	52 82	1	NONELASTIC
82-PB-NAT	3		1.420+ 1	1.420+ 1	57 319	1	NONELASTIC
82-PB-NAT	3		1.450+ 1	1.450+ 1	56 200	1	NONELASTIC
82-PB-NAT	3		1.480+ 1	1.480+ 1	67 1656	1	NONELASTIC
82-PB-NAT	3		2.100+ 1	2.920+ 1	58 356	3	NONELASTIC
82-PB-NAT	3		5.500+ 1	1.400+ 2	56 312	4	NONELASTIC
82-PB-NAT	3		3.790+ 2	1.731+ 3	71 3284	15	NONELASTIC
82-PB-NAT	3		1.400+ 3	1.400+ 3	55 2056	1	NONELASTIC
82-PB-NAT	3		5.000+ 3	5.000+ 3	61 1566	1	NONELASTIC
82-PB-NAT	5		3.000+ 2	1.450+ 0	56 231	31	TOTAL SCATTERING
82-PB-NAT	5		5.000+ 2	2.250+ 0	60 571	31	TOTAL SCATTERING
82-PB-NAT	5		9.800- 1	3.800- 1	63 879	1	TOTAL SCATTERING
82-PB-NAT	5		1.000+ 1	1.000+ 1	56 21	1	TOTAL SCATTERING
82-PB-NAT	6		1.400+ 1	1.400+ 1	61 883	1	NONELASTIC EMISSION
82-PB-NAT	11		8.000- 1	1.600+ 0	55 514	8	N,N'
82-PB-NAT	11		2.800+ 0	2.800+ 0	69 3400	1	N,N'
82-PB-NAT	11		1.510+ 1	1.510+ 1	69 3662	1	N,N'
82-PB-NAT	11	7	1.900+ 0	3.900+ 0	74 4090	45	N,N,N'
82-PB-NAT	12		1.400+ 1	1.400+ 1	58 609	1	N,N,N'

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-291 ***

ZA = 82000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDEPED)

ZA = 82000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	82-PB-NAT 102		3.400+ 0	3.400+ 0	55 552	9	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		3.650+ 0	3.650+ 0	71 3465	2	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		3.670+ 0	4.700+ 0	59 1719	43	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		3.700+ 0	3.700+ 0	53 297	36	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		4.000+ 0	4.000+ 0	34 1643	17	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		4.100+ 0	4.100+ 0	55 296	11	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		4.560+ 0	4.560+ 0	68 2462	7	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		5.000+ 0	5.000+ 0	58 398	13	ELASTIC ANGULAR DISTRIBUTION
N	82-PB-NAT 102		7.000+ 0	1.400+ 1	73 3633	39	ELASTIC ANGULAR DISTRIBUTION
N	82-PB-NAT 102		8.050+ 0	8.050+ 0	69 3660	20	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.350+ 1	1.350+ 1	56 1969	7	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.400+ 1	1.400+ 1	57 501	15	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.400+ 1	1.400+ 1	59 573	27	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.400+ 1	1.400+ 1	61 1263	3	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.400+ 1	1.400+ 1	65 97	10	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.410+ 1	1.410+ 1	58 557	9	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.420+ 1	1.420+ 1	63 1256	9	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.450+ 1	1.450+ 1	58 30	30	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.450+ 1	1.450+ 1	59 555	46	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.460+ 1	1.460+ 1	57 561	19	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.470+ 1	1.470+ 1	58 1036	21	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.480+ 1	1.480+ 1	57 367	17	ELASTIC ANGULAR DISTRIBUTION
N	82-PB-NAT 102		1.480+ 1	1.480+ 1	73 3547	16	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.500+ 1	1.500+ 1	61 1262	46	ELASTIC ANGULAR DISTRIBUTION
N	82-PB-NAT 102		8.400+ 1	8.400+ 1	50 1748	12	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		9.600+ 1	9.600+ 1	60 1045	7	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		1.250+ 2	1.350+ 2	56 1047	15	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 102		3.515+ 2	3.515+ 2	58 1655	7	ELASTIC ANGULAR DISTRIBUTION
N	82-PB-NAT 102 80		4.600+ 4	2.600+ 2	66 3395	99	ELASTIC ANGULAR DISTRIBUTION
	82-PB-NAT 104		3.700+ 0	1.500+ 1	55 481	46	NEUTRON EMISSION ANGULAR DISTRIBUTION
	82-PB-NAT 105		7.300+ 1	2.250+ 0	60 571	112	TOTAL SCATTERING ANGULAR DISTRIBUTION
	82-PB-NAT 111		1.450+ 1	1.450+ 1	58 403	28	N,N' ANGULAR DISTRIBUTION
	82-PB-NAT 111	1	2.340+ 0	2.340+ 0	57 414	12	N,N' ANGULAR DISTRIBUTION
	82-PB-NAT 111	1	8.000+ 0	8.000+ 0	66 1971	13	N,N' ANGULAR DISTRIBUTION
	82-PB-NAT 111	1	1.400+ 1	1.400+ 1	65 97	17	N,N' ANGULAR DISTRIBUTION
	82-PB-NAT 124	7	3.460+ 0	4.590+ 0	59 1719	15	N,X GAMMA ANGULAR DISTRIBUTION
	82-PB-NAT 124	7	4.040+ 0	1.480+ 1	62 1724	3	N,X GAMMA ANGULAR DISTRIBUTION
	82-PB-NAT 124	7	1.470+ 1	1.470+ 1	66 1700	11	N,X GAMMA ANGULAR DISTRIBUTION
N	82-PB-NAT 124	7	1.510+ 0	1.510+ 1	69 3662	11	N,X GAMMA ANGULAR DISTRIBUTION
	82-PB-NAT 124 10		4.040+ 0	1.480+ 1	62 1724	12	N,X GAMMA ANGULAR DISTRIBUTION
	82-PB-NAT 124 87		4.180+ 0	4.180+ 0	59 1719	3	N,X GAMMA ANGULAR DISTRIBUTION
N	82-PB-NAT 211		1.400+ 1	1.400+ 1	74 4081	40	N,N' ENERGY DISTRIBUTION
	82-PB-NAT 224		1.410+ 1	1.410+ 1	69 2220	25	N,X GAMMA ENERGY DISTRIBUTION
N	82-PB-NAT 304		1.455+ 1	1.455+ 1	74 4002	472	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	82-PB-NAT 311		1.400+ 1	1.400+ 1	74 4081	120	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
N	82-PB-NAT 311 80		1.410+ 1	1.410+ 1	65 1908	39	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
	82-PB-NAT 403		1.410+ 1	1.410+ 1	53 2028	1	NONELASTIC INTEGRAL E1-E2
	82-PB-NAT 406		1.420+ 1	1.420+ 1	58 905	1	NONELASTIC INTEGRAL E1-E2
C	82-PB-NAT 521		5.000+ 7	1.500+ 1	60 897	1	ABSORPTION RESONANCE INTEGRAL
	82-PB-NAT 606		1.410+ 1	1.410+ 1	65 1985	1	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
	82-PB-NAT 606		1.480+ 1	1.480+ 1	66 1042	16	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
N	82-PB-NAT 606		1.520+ 1	1.520+ 1	60 1029	6	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-293 ***

ZA = 82000

07/04/76

E631L-7000 REACTION INDEX (ZA ORDERED)

ZA = 82000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	82-PB-NAT	606	80	3.670+ 0	4.700+ 0	60 1029	28 NONELASTIC EMISSION
	82-PB-NAT	611	80	3.670+ 0	4.700+ 0	59 1719	28 N,N'
	82-PB-NAT	624		3.500+ 0	8.500+ 0	54 1671	47 N,X GAMMA
	82-PB-NAT			1.400+ 1	1.400+ 1	61 883	1 NUCLEAR TEMPERATURE
	82-PB-NAT			1.400+ 1	1.400+ 1	55 985	1 NUCLEAR TEMPERATURE
	82-PB-NAT			1.410+ 1	1.410+ 1	65 908	2 NUCLEAR TEMPERATURE
	82-PB-NAT			1.480+ 1	1.480+ 1	57 2897	2 NUCLEAR TEMPERATURE
	82-PB-NAT			1.230- 2	2.440- 2	63 2503	2 RESONANCE PARAMETERS
	82-PB-NAT			1.160- 1	1.470- 1	61 728	3 RESONANCE PARAMETERS
	82-PB-204			1.420+ 1	1.420+ 1	67 1869	1 TOTAL
N	82-PB-204		11	1.420+ 1	1.460+ 1	72 3427	2 N,N'
N	82-PB-204		11	3 1.285+ 1	1.783+ 1	73 3814	9 N,N'
N	82-PB-204		11	3 1.440+ 1	1.440+ 1	72 3518	1 N,N'
	82-PB-204		11	3 1.470+ 1	1.470+ 1	67 2009	1 N,N'
	82-PB-204		12	9.270+ 0	1.920+ 1	65 603	18 N,2N
	82-PB-204		12	1.010+ 1	1.400+ 1	60 590	5 N,2N
N	82-PB-204		12	1.298+ 1	1.783+ 1	73 3814	9 N,2N
	82-PB-204		12	1.420+ 1	1.460+ 1	72 3427	2 N,2N
N	82-PB-204		12	1.440+ 1	1.440+ 1	72 3518	1 N,2N
	82-PB-204		12	1.470+ 1	1.470+ 1	67 2009	1 N,2N
	82-PB-204		12	1.470+ 1	1.470+ 1	68 1718	1 N,2N
	82-PB-204		12	2 1.300+ 1	1.625+ 1	67 2888	13 N,2N
N	82-PB-204		12	2 1.480+ 1	1.480+ 1	71 3819	1 N,2N
	82-PB-204		12	2 1.500+ 1	1.500+ 1	68 2836	1 N,2N
N	82-PB-204		12	4 1.460+ 1	1.460+ 1	73 3988	1 N,2N
	82-PB-204		23	1.950- 3	1.950- 3	71 3220	1 N,GAMMA
	82-PB-204		23	3 3.000- 2	1.570- 1	67 1807	5 N,GAMMA
	82-PB-204		23	7 1.950- 3	1.950- 3	71 3220	8 N,GAMMA
N	82-PB-204		61	3 1.000+ 0	1.000+ 0	71 3762	1 N,N'
	82-PB-204		71	2.500- 8	2.500- 8	58 2648	1 ABSORPTION
N	82-PB-204		72	4 1.000+ 0	1.000+ 0	71 3762	1 N,F
	82-PB-204		73	2.500- 8	2.500- 8	52 342	1 N,GAMMA
	82-PB-204		73	2.500- 8	2.500- 8	63 2659	1 N,GAMMA
	82-PB-204		73	2.500- 9	2.564- 8	67 2424	1 N,GAMMA
N	82-PB-204		76	1.000+ 0	1.000+ 0	65 3718	1 N,P
C	82-PB-204		523	2.596- 3	1.600- 1	73 3138	1 N,GAMMA
	82-PB-204			6.500- 3	5.900- 2	67 1937	1 AVERAGE RESONANCE PARAMETERS
	82-PB-204			1.680- 3	1.290- 2	63 2503	10 RESONANCE PARAMETERS
N	82-PB-204			2.596- 3	1.288- 2	73 3138	6 RESONANCE PARAMETERS
N	82-PB-204			2.596- 3	1.288- 2	73 3587	6 RESONANCE PARAMETERS
	82-PB-204			6.490- 3	5.900- 2	67 1937	33 RESONANCE PARAMETERS
C	82-PB-206			3.600- 2	6.630- 1	62 719	1243 TOTAL
	82-PB-206			5.000- 1	4.100+ 0	65 1950	4 TOTAL
	82-PB-206			2.252+ 0	1.499+ 1	67 750	502 TOTAL
	82-PB-206			1.400+ 1	1.400+ 1	52 81	1 TOTAL
	82-PB-206			1.420+ 1	1.420+ 1	67 1869	1 TOTAL
N	82-PB-206		2	8.050+ 0	8.050+ 0	69 3660	1 ELASTIC
	82-PB-206		3	1.000+ 0	1.000+ 0	54 103	1 NONELASTIC
	82-PB-206		11	7.000+ 0	7.000+ 0	63 836	1 N,N'
N	82-PB-206		11	1 8.120- 1	1.123+ 0	73 4070	25 N,N'
N	82-PB-206		12	2 1.480+ 1	1.480+ 1	73 3471	1 N,2N
	82-PB-206		23	1.360- 2	5.800- 2	64 998	42 N,GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-294 ***

ZA = 82006

1/7/04/76

ELSL-7600 REACTION INDEX (ZA OFFERED)

ZA = 82206

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
82-PB-206	24	7	7.000-1	3.200+0	61 11	220	N,X GAMMA
82-PB-206	24	7	2.900+0	2.900+0	61 686	2	N,X GAMMA
82-PB-206	34		1.410+1	1.410+1	67 1780	1	N,ALPHA
82-PB-206	34		1.420+1	1.460+1	72 3427	2	N,ALPHA
82-PB-206	71		2.500-8	2.500-8	52 2658	1	ABSORPTION
82-PB-206	73		2.500-8	2.500-8	52 342	1	N,GAMMA
82-PB-206	73		2.500-8	2.500-8	63 2659	1	N,GAMMA
82-PB-206	102		5.000-1	2.500+0	65 1950	72	ELASTIC
82-PB-206	102		2.200+0	2.200+0	58 497	14	ELASTIC
82-PB-206	102		8.050+0	8.050+0	69 3660	19	ELASTIC
82-PB-206	111	8	6.000+0	8.500+0	74 3549	13	N,N'
82-PB-206	123	7	1.580+0	8.450+0	70 3361	24	N,GAMMA
82-PB-206	124	7	1.000+0	4.600+0	68 1019	13	N,X GAMMA
82-PB-206	124	7	2.900+0	2.900+0	61 686	10	N,X GAMMA
82-PB-206	124	7	4.040+0	4.040+0	62 1724	8	N,X GAMMA
82-PB-206	124	7	4.040+0	4.040+0	62 1725	2	N,X GAMMA
82-PB-206	124	7	4.100+0	4.100+0	63 1728	2	N,X GAMMA
82-PB-206	124	10	1.480+0	1.480+1	63 1728	19	N,X GAMMA
82-PB-206	124	10	4.040+0	1.484+1	62 1724	9	N,X GAMMA
82-PB-206	124	87	4.100+0	4.100+0	68 1019	26	N,X GAMMA
82-PB-206	523		3.32-3	1.992-1	73 3138	1	N,GAMMA
82-PB-206			3.350-3	2.540-2	63 2503	5	RESONANCE PARAMETERS
82-PB-206			3.365-3	2.548-2	71 3138	6	RESONANCE PARAMETERS
82-PB-206			3.365-3	1.992-1	73 3138	35	RESONANCE PARAMETERS
82-PB-206			3.365-3	1.992-1	73 3587	35	RESONANCE PARAMETERS
82-PB-206			1.650-2	7.200-2	67 3081	12	RESONANCE PARAMETERS
82-PB-206			1.650-2	7.500-2	64 998	21	RESONANCE PARAMETERS
82-PB-206			8.500-2	1.970-1	61 726	10	RESONANCE PARAMETERS
82-PB-207	1		1.050-2	5.930-2	64 998	143	TOTAL
82-PB-207	1		1.500-2	3.250-2	61 737	18	TOTAL
82-PB-207	1		3.300-2	6.300-1	62 719	1198	TOTAL
82-PB-207	1		5.000-1	4.100+0	65 1950	4	TOTAL
82-PB-207	1		1.420+0	1.420+1	67 1969	1	TOTAL
82-PB-207	11	2	1.500+0	3.200+0	55 118	12	N,N'
82-PB-207	11	2	1.800+0	1.400+1	62 1972	11	N,N'
82-PB-207	21		1.390-2	5.800-2	64 998	39	ABSORPTION
82-PB-207	23	7	1.950-3	1.950-3	71 3220	1	N,GAMMA
82-PB-207	71		2.500-8	2.500-8	52 2658	1	ABSORPTION
82-PB-207	73		2.500-8	2.500-8	52 342	1	N,GAMMA
82-PB-207	73		2.500-8	2.500-8	63 2659	1	N,GAMMA
82-PB-207	102		5.000-1	2.500+0	65 1950	51	ELASTIC
82-PB-207	102		1.376+0	3.560+0	73 3775	148	ELASTIC
82-PB-207	111	1	1.376+0	3.560+0	73 3775	421	N,N'
82-PB-207	111	1	5.500+0	8.500+0	74 3549	43	N,N'
82-PB-207	111	6	3.560+0	3.560+0	73 3775	13	N,N'
82-PB-207	111	8	5.500+0	7.000+0	74 3549	28	N,N'
82-PB-207	124	7	1.000+0	4.600+0	68 1019	35	N,X GAMMA
82-PB-207	124	7	4.040+0	4.040+0	62 1725	4	N,X GAMMA
82-PB-207	124	7	4.100+0	4.100+0	63 1728	6	N,X GAMMA
82-PB-207	124	10	4.100+0	1.480+1	63 1728	15	N,X GAMMA
82-PB-207	124	87	4.100+0	4.100+0	68 1019	26	N,X GAMMA
82-PB-207	523		3.071-3	1.819-1	73 3138	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-295 ***

ZA = 82207

07/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 82208

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	92-PB-208	523	2.500-3	7.770-2	73 3138	1	N,GAMMA
N	92-PB-208	884	2.530-8	2.530-8	73 3972	1	N,ALPHA
	92-PB-208		1.230-2	1.230-2	69 3085	3	RESONANCE PARAMETERS
	92-PB-208		7.000-2	7.700-2	67 1937	4	RESONANCE PARAMETERS
	92-PB-208		7.700-2	7.700-2	64 997	1	RESONANCE PARAMETERS
N	92-PB-208		7.770-2	7.770-2	73 3138	2	RESONANCE PARAMETERS
N	92-PB-208		7.770-2	7.770-2	73 3567	2	RESONANCE PARAMETERS
	92-PB-208		8.000-2	1.180-1	61 728	10	RESONANCE PARAMETERS
	92-PB-208		3.520-1	7.180-1	50 59	9	RESONANCE PARAMETERS
	92-PB-208		3.520-1	7.180-1	61 732	7	RESONANCE PARAMETERS
	92-PB-208		7.220-1	1.156+0	67 2433	7	RESONANCE PARAMETERS
	92-PB-208		7.230-1	1.761+0	66 764	84	RESONANCE PARAMETERS
	92-PB-208		7.230-1	1.872+0	62 746	95	RESONANCE PARAMETERS
	92-PB-209	22	3.800+2	3.800+2	55 461	1	N,F
	RADIO LEAD	1	1.030-2	8.450-2	64 998	137	TOTAL
	RADIO LEAD	1	8.400-1	3.210+0	52 80	15	TOTAL
	RADIO LEAD	1	2.463+0	7.543+0	67 1747	164	TOTAL
	RADIO LEAD	2	4.210+0	4.210+0	59 579	1	ELASTIC
C	RADIO LEAD	11	2.200+0	2.200+0	58 497	2	N,N'
	RADIO LEAD	102	1.000+0	1.000+0	54 103	9	ELASTIC
	RADIO LEAD	102	4.200+0	4.200+0	59 574	17	ELASTIC
	RADIO LEAD	102	4.210+0	4.210+0	59 579	24	ELASTIC
	RADIO LEAD	102	5.000+0	5.000+0	66 1254	13	ELASTIC
	RADIO LEAD	102	7.000+0	7.000+0	63 835	1	ELASTIC
	RADIO LEAD	102	7.000+0	7.000+0	65 1973	30	ELASTIC
	RADIO LEAD	111	2.200+0	2.200+0	58 497	11	N,N'
	RADIO LEAD	111	2.450+0	2.450+0	56 476	3	N,N'
	RADIO LEAD	111	8.000+0	8.000+0	66 1971	18	N,N'
	RADIO LEAD	124	7 1.010+0	1.010+0	59 579	1	N,X GAMMA
	RADIO LEAD	124	80 4.210+0	4.210+0	59 579	17	N,X GAMMA
N	RADIO LEAD	608	80 4.210+0	4.210+0	60 1029	5	NONELASTIC EMISSION
	RADIO LEAD	611	80 4.210+0	4.210+0	59 579	5	N,N'
	83-BI-209	1	8.700-10	8.350-8	53 2332	69	TOTAL
	83-BI-209	1	1.440-5	1.440-6	65 949	1	TOTAL
	83-BI-209	1	4.897-6	4.897-6	55 1471	1	TOTAL
	83-BI-209	1	2.540-5	1.670-3	58 903	35	TOTAL
	83-BI-209	1	1.150-4	3.000-4	49 844	2	TOTAL
	83-BI-209	1	1.440-4	2.860-1	55 2042	49	TOTAL
	83-BI-209	1	2.000-4	7.640-2	56 142	120	TOTAL
C	83-BI-209	1	2.003-4	5.980-1	65 814	3847	TOTAL
	83-BI-209	1	8.500-4	5.500-2	54 970	78	TOTAL
	83-BI-209	1	1.700-3	7.000-3	55 269	24	TOTAL
	83-BI-209	1	2.170-3	2.520-3	58 15	15	TOTAL
	83-BI-209	1	9.350-3	1.873-2	63 1974	97	TOTAL
	83-BI-209	1	1.000-2	1.369-1	59 723	369	TOTAL
	83-BI-209	1	8.500-2	5.300-1	40 52	43	TOTAL
N	83-BI-209	1	1.100-1	6.500-1	67 3638	109	TOTAL
	83-BI-209	1	2.060-1	1.404+0	69 2515	1062	TOTAL
	83-BI-209	1	2.200-1	2.200-1	57 2330	1	TOTAL
	83-BI-209	1	4.201-1	3.197+1	70 2517	5532	TOTAL
	83-BI-209	1	4.500-1	2.550+0	61 1000	8	TOTAL
	83-BI-209	1	5.000-1	4.100+0	55 1950	4	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-297 ***

ZA = 83208

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 83209

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
83-BI-209	1	5.160	1	1.387	0	48	11 TOTAL
83-BI-209	1	1.000	0	3.210	0	52	9 TOTAL
83-BI-209	1	1.000	0	4.830	0	74	33 TOTAL
83-BI-209	1	2.160	0	3.200	0	58	10 TOTAL
83-BI-209	1	2.376	0	1.490	0	67	236 TOTAL
83-BI-209	1	2.463	0	7.543	0	67	164 TOTAL
83-BI-209	1	2.920	0	1.320	0	53	34 TOTAL
83-BI-209	1	3.190	0	5.150	0	65	37 TOTAL
83-BI-209	1	3.700	0	3.700	0	54	1 TOTAL
83-BI-209	1	4.000	0	4.000	0	67	1843 TOTAL
83-BI-209	1	4.100	0	4.100	0	55	2956 TOTAL
83-BI-209	1	7.010	0	1.437	1	57	22 TOTAL
83-BI-209	1	1.300	1	1.620	1	55	133 TOTAL
83-BI-209	1	1.400	1	1.400	1	52	81 TOTAL
83-BI-209	1	1.400	1	1.400	1	52	207 TOTAL
83-BI-209	1	1.400	1	1.400	1	55	262 TOTAL
83-BI-209	1	1.420	1	1.420	1	67	1869 TOTAL
83-BI-209	1	1.470	1	1.470	1	71	3815 TOTAL
83-BI-209	1	1.476	1	1.476	1	65	3697 TOTAL
83-BI-209	1	1.480	1	1.480	1	57	368 TOTAL
83-BI-209	1	1.730	1	2.890	1	60	673 TOTAL
83-BI-209	1	1.900	1	1.900	1	53	274 TOTAL
83-BI-209	1	4.200	1	4.200	1	50	281 TOTAL
83-BI-209	1	4.600	1	1.820	2	53	1395 TOTAL
83-BI-209	1	3.790	2	1.731	3	71	3264 TOTAL
83-BI-209	1	1.400	3	1.400	3	55	2056 TOTAL
83-BI-209	2	1.730	10	4.080	9	55	2057 TOTAL
83-BI-209	2	2.200	1	2.200	1	60	596 ELASTIC
83-BI-209	2	3.000	1	3.000	1	64	2338 ELASTIC
83-BI-209	2	3.000	1	1.500	0	69	2515 ELASTIC
83-BI-209	2	5.000	1	8.000	1	64	870 ELASTIC
83-BI-209	2	8.883	1	8.883	1	72	3946 ELASTIC
83-BI-209	2	1.000	0	1.000	0	54	103 ELASTIC
83-BI-209	2	2.000	0	2.000	0	65	1509 ELASTIC
83-BI-209	2	4.000	0	4.000	0	64	1843 ELASTIC
83-BI-209	2	4.210	0	4.210	0	59	575 ELASTIC
83-BI-209	2	6.040	0	6.040	0	65	889 ELASTIC
83-BI-209	2	6.050	0	6.050	0	59	2890 ELASTIC
83-BI-209	2	1.000	1	1.000	1	56	21 ELASTIC
83-BI-209	2	1.350	1	1.460	1	60	631 ELASTIC
83-BI-209	2	5.000	1	5.000	0	55	149 NONELASTIC
83-BI-209	2	6.100	1	4.500	0	55	1865 NONELASTIC
83-BI-209	2	1.770	0	4.700	0	56	122 NONELASTIC
83-BI-209	2	2.500	0	2.500	0	56	131 NONELASTIC
83-BI-209	2	3.500	0	1.400	1	55	780 NONELASTIC
83-BI-209	2	3.500	0	1.410	1	55	130 NONELASTIC
83-BI-209	2	4.100	0	4.100	0	55	266 NONELASTIC
83-BI-209	2	7.100	0	1.000	1	56	266 NONELASTIC
83-BI-209	2	7.200	0	1.390	1	57	21 NONELASTIC
83-BI-209	2	8.200	0	1.850	1	59	540 NONELASTIC
83-BI-209	2	1.398	1	1.398	1	63	765 NONELASTIC

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

... 1-298 ...

ZA = 83209

07/04/76

ECS11-7600 REACTION INDEX (7A ORDERED)

2A - 93209

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
83-BI-209	3	1	400	1	58 877	1	NONELASTIC
83-BI-209	3	1	410	1	55 117	1	NONELASTIC
83-BI-209	3	1	410	1	57 199	1	NONELASTIC
83-BI-209	3	1	415	1	57 82	1	NONELASTIC
83-BI-209	3	1	420	1	57 319	1	NONELASTIC
83-BI-209	3	1	450	1	56 200	1	NONELASTIC
83-BI-209	3	2	550	1	58 356	15	NONELASTIC
83-BI-209	3	3	790	2	71 326	1	NONELASTIC
83-BI-209	3	1	400	3	55 2056	1	NONELASTIC
83-BI-209	4	10	136	1	72 4072	5	NEUTRON EMISSION
83-BI-209	5	5	000	2	72 4072	18	NEUTRON EMISSION
83-BI-209	5	5	000	1	56 149	1	TOTAL SCATTERING
83-BI-209	5	8	120	1	62 1268	1	TOTAL SCATTERING
83-BI-209	11	8	000	1	95 514	0	TOTAL SCATTERING
83-BI-209	11	6	040	0	67 4029	28	N.M.
83-BI-209	11	7	000	0	65 889	1	N.M.
83-BI-209	11	1	400	1	57 162	1	N.M.
83-BI-209	11	1	510	1	69 3662	1	N.M.
83-BI-209	11	1	370	0	67 3397	17	N.M.
83-BI-209	11	1	500	0	54 301	2	N.M.
83-BI-209	11	7	020	0	67 4029	60	N.M.
83-BI-209	12	7	930	0	75 3807	15	N.M.
83-BI-209	12	1	400	1	57 162	1	N.M.
83-BI-209	12	1	400	1	58 609	1	N.M.
83-BI-209	12	1	410	1	58 7	1	N.M.
83-BI-209	12	1	450	1	63 1701	1	N.M.
83-BI-209	12	2	1450	1	59 829	1	N.M.
83-BI-209	12	2	1470	1	61 657	1	N.M.
83-BI-209	12	2	1480	1	73 3471	1	N.M.
83-BI-209	21	2	530	8	58 1162	1	ABSORPTION
83-BI-209	21	2	400	2	65 1364	1	ABSORPTION
83-BI-209	22	1	480	1	65 1876	1	N.F.
83-BI-209	22	1	480	2	55 461	2	N.F.
83-BI-209	23	9	000	3	64 454	26	N.GAMMA
83-BI-209	23	3	000	2	70 231C	1	N.GAMMA
83-BI-209	23	5	230	8	69 2220	1	N.OAL-A
83-BI-209	23	5	100	2	57 888	1	N.OAMMA
83-BI-209	23	5	3000	2	61 677	2	N.OAMMA
83-BI-209	23	5	4000	2	60 674	1	N.OAMMA
83-BI-209	23	5	1450	1	57 521	1	N.OAMMA
83-BI-209	23	5	1470	1	67 1695	1	N.OAMMA
83-BI-209	24	7	650	0	71 3747	7	N.N. GAMMA
83-BI-209	24	7	650	0	54 111	36	N.N. GAMMA
83-BI-209	26	1	450	1	59 550	1	N.P

TARGET CONT S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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2A - 93209

07/94/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 83209

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
83-81-209	102		7.000+ 0	7.000+ 0	63 836	1	ELASTIC
83-81-209	102		7.000+ 0	7.000+ 0	65 1973	30	ELASTIC
83-81-209	102		1.400+ 1	1.400+ 1	56 463	12	ELASTIC
83-81-209	102		1.400+ 1	1.400+ 1	57 162	4	ELASTIC
83-81-209	102		1.400+ 1	1.400+ 1	59 573	25	ELASTIC
83-81-209	102		1.400+ 1	1.400+ 1	61 1263	7	ELASTIC
83-81-209	102		1.400+ 1	1.400+ 1	65 97	6	ELASTIC
83-81-209	102		1.410+ 1	1.410+ 1	58 657	11	ELASTIC
83-81-209	102		1.410+ 1	1.410+ 1	72 3754	25	ELASTIC
N 83-81-209	102		1.420+ 1	1.420+ 1	63 1256	13	ELASTIC
83-81-209	102		1.450+ 1	1.450+ 1	61 1997	13	ELASTIC
83-81-209	102		1.460+ 1	1.460+ 1	60 631	34	ELASTIC
83-81-209	102		1.470+ 1	1.470+ 1	58 1036	25	ELASTIC
N 83-81-209	102		1.476+ 1	1.476+ 1	65 3697	8	ELASTIC
83-81-209	102		2.400+ 1	2.400+ 1	62 1746	43	ELASTIC
N 83-81-209	104	10	1.436+ 1	1.436+ 1	72 4072	20	NEUTRON EMISSION
83-81-209	105		1.040+ 0	1.360+ 0	56 231	25	TOTAL SCATTERING
N 83-81-209	111		1.510+ 1	1.510+ 1	69 3662	1	N,N'
N 83-81-209	111	1	1.450+ 0	3.550+ 0	72 3773	117	N,N'
83-81-209	111	1	2.450+ 0	2.450+ 0	56 476	2	N,N'
83-81-209	111	1	4.400+ 0	4.400+ 0	56 486	1	N,N'
83-81-209	111	1	8.000+ 0	8.000+ 0	66 1971	13	N,N'
83-81-209	111	1	1.400+ 1	1.400+ 1	65 97	12	N,N'
N 83-81-209	111	1	1.410+ 1	1.410+ 1	73 3754	37	N,N'
N 83-81-209	111	1	1.476+ 1	1.476+ 1	65 3697	24	N,N'
83-81-209	111	7	2.900+ 0	2.900+ 0	57 416	1	N,N'
83-81-209	111	8	1.020+ 0	1.500+ 0	69 2515	66	N,N'
N 83-81-209	111	8	3.060+ 0	3.550+ 0	72 3773	26	N,N'
N 83-81-209	111	87	1.170+ 0	1.915+ 0	67 3849	33	N,N'
83-81-209	123	10	4.700+ 0	8.300+ 0	68 3359	5	N,GAMMA
83-81-209	124	7	1.000+ 0	4.100+ 0	63 1728	23	N,X GAMMA
83-81-209	124	7	1.760+ 0	4.100+ 0	68 1019	1	N,X GAMMA
83-81-209	124	7	2.950+ 0	2.950+ 0	59 818	2	N,X GAMMA
83-81-209	124	7	4.040+ 0	4.040+ 0	62 1725	5	N,X GAMMA
N 83-81-209	124	7	1.510+ 1	1.510+ 1	69 3662	5	N,X GAMMA
83-81-209	124	10	2.550+ 0	4.180+ 1	63 1728	23	N,X GAMMA
83-81-209	124	80	4.210+ 0	4.210+ 0	59 579	13	N,X GAMMA
83-81-209	124	87	2.550+ 0	4.100+ 0	68 1019	16	N,X GAMMA
83-81-209	124	90	2.550+ 0	4.490+ 1	68 1019	23	N,X GAMMA
83-81-209	134		1.400+ 1	1.400+ 1	67 2326	2	N,ALPHA
83-81-209	134		1.460+ 1	1.460+ 1	65 1975	3	N,ALPHA
N 83-81-209	204		1.436+ 1	1.436+ 1	72 4072	50	NEUTRON EMISSION
N 83-81-209	224		1.410+ 1	1.410+ 1	69 2220	25	N,X GAMMA
N 83-81-209	304		1.436+ 1	1.436+ 1	72 4072	250	NEUTRON EMISSION
N 83-81-209	304		1.455+ 1	1.455+ 1	74 4095	473	NEUTRON EMISSION
N 83-81-209	311	80	1.410+ 1	1.410+ 1	65 1908	41	N,N'
83-81-209	403		1.410+ 1	1.410+ 1	53 2028	1	NONELASTIC
83-81-209	406		1.420+ 1	1.420+ 1	58 905	1	NONELASTIC EMISSION
83-81-209	452		3.000+ 1	1.500+ 0	69 2515	285	ELASTIC
C 83-81-209	521		5.000- 7	1.500+ 1	58 1162	1	ABSORPTION
C 83-81-209	521		5.000- 7	1.500+ 1	60 897	1	ABSORPTION
83-81-209	603		1.400+ 1	1.400+ 1	57 162	20	NONELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 83209

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
83-BI-209	603	80	4.210+ 0	4.210+ 0	60 1029	5	NONELASTIC ANGULAR DIST.-INTEGRAL E1-E2
83-BI-209	605		1.520+ 1	1.520+ 1	62 1268	29	TOTAL SCATTERING ANGULAR DIST.-INTEGRAL E1-E2
N 83-BI-209	606		1.400+ 1	1.400+ 1	57 162	20	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N 83-BI-209	606	80	4.210+ 0	4.210+ 0	60 1029	5	NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
83-BI-209	611		4.400+ 0	4.400+ 0	56 486	1	N,N' ANGULAR DIST.-INTEGRAL E1-E2
83-BI-209	611		6.000+ 0	6.000+ 0	62 1043	11	N,N' ANGULAR DIST.-INTEGRAL E1-E2
83-BI-209	611		6.040+ 0	6.040+ 0	65 889	10	N,N' ANGULAR DIST.-INTEGRAL E1-E2
83-BI-209	611	80	4.210+ 0	4.210+ 0	59 579	5	N,N' ANGULAR DIST.-INTEGRAL E1-E2
N 83-BI-209	884	3	2.530- 8	2.530- 8	73 3972	1	N,ALPHA CROSS SECTION RATIO
83-BI-209			6.000+ 0	6.000+ 0	62 1043	1	NUCLEAR TEMPERATURE
83-BI-209			1.400+ 1	1.400+ 1	65 285	1	NUCLEAR TEMPERATURE
23-BI-209			1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
C 83-BI-209			0.000+ 0	7.000- 2	69 2537	2	AVERAGE RESONANCE PARAMETERS
83-BI-209			7.840- 4	1.200- 2	58 442	11	RESONANCE PARAMETERS
83-BI-209			7.840- 4	1.550- 2	63 1974	10	RESONANCE PARAMETERS
83-BI-209			8.000- 4	2.300- 3	58 1248	4	RESONANCE PARAMETERS
83-BI-209			8.040- 4	1.510- 1	64 814	47	RESONANCE PARAMETERS
83-BI-209			8.100- 4	2.370- 3	55 1824	4	RESONANCE PARAMETERS
83-BI-209			1.000- 3	7.000- 2	56 142	7	RESONANCE PARAMETERS
83-BI-209			2.300- 3	3.300- 2	58 15	4	RESONANCE PARAMETERS
83-BI-209			4.432- 3	7.032- 2	69 2537	75	RESONANCE PARAMETERS
83-BI-209			1.200- 2	1.200- 2	55 229	2	RESONANCE PARAMETERS
83-BI-209			1.200- 2	1.340- 1	59 723	29	RESONANCE PARAMETERS
83-BI-210	75		2.500- 8	2.500- 8	62 2662	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N 88-RA-223	72		2.500- 8	2.500- 8	67 3312	1	N,F SPECTRUM AVERAGED CROSS SECTION
88-RA-226	1		2.210- 8	5.023- 5	56 1981	225	TOTAL
N 88-RA-226	1		2.210- 8	3.270- 4	71 4047	203	TOTAL
88-RA-226	12		1.450+ 1	1.450+ 1	60 623	1	N,2N
88-RA-226	13		1.450+ 1	1.450+ 1	60 623	1	N,3N
N 88-RA-226	21		2.500- 8	2.500- 8	71 4047	2	ABSORPTION
88-RA-226	22		2.000+ 0	1.410+ 1	58 348	8	N,F
88-RA-226	22		3.000+ 0	1.480+ 1	67 2111	18	N,F
88-RA-226	23		2.530- 8	2.530- 8	52 2046	1	N,GAMMA
N 88-RA-226	45		1.500- 5	1.500- 5	71 4047	1	POTENTIAL SCATTERING
88-RA-226	73		2.500- 8	2.500- 8	50 1982	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
N 88-RA-226			5.390- 7	2.930- 4	71 4047	4	AVERAGE RESONANCE PARAMETERS
88-RA-226			5.370- 7	5.370- 7	56 1981	4	RESONANCE PARAMETERS
N 88-RA-226			5.390- 7	2.930- 4	71 4047	21	RESONANCE PARAMETERS
89-AC-227	73		2.500- 8	2.500- 8	56 1984	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
89-AC-227	73		2.500- 8	2.500- 8	59 1983	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
C 89-AC-227	523		5.000- 7	1.500+ 1	59 1983	1	N,GAMMA RESONANCE INTEGRAL
N 90-TH-227	22		2.530- 8	2.530- 8	70 3912	1	N,F
90-TH-227	72		2.500- 8	2.500- 8	46 1174	1	N,F SPECTRUM AVERAGED CROSS SECTION
90-TH-228	1		1.783- 6	8.038- 6	66 1344	122	TOTAL
N 90-TH-228	22		1.900- 1	5.000+ 0	72 3432	19	N,F
90-TH-228			1.896- 6	7.550- 6	66 1344	4	RESONANCE PARAMETERS
C 90-TH-229	1		3.866- 7	3.070- 5	61 246	268	TOTAL
90-TH-229	22		1.600- 8	8.000- 7	60 249	27	N,F
90-TH-229	22		6.000- 3	1.200+ 0	59 625	23	N,F
90-TH-229	46		2.530- 8	2.530- 8	58 1156	1	NU-BAR PROMPT
90-TH-229	46		2.530- 8	2.530- 8	61 1088	1	NU-BAR PROMPT
N 90-TH-229	46		2.530- 8	2.530- 8	70 4040	1	NU-BAR PROMPT

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 90229

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
90-TH-229	72		2.500- 8	2.500- 8	46 1174	1	N,F SPECTRUM AVERAGED CROSS SECTION
90-TH-229	72		2.500- 8	2.500- 8	47 244	1	N,F SPECTRUM AVERAGED CROSS SECTION
90-TH-229	72		2.500- 8	2.500- 8	60 239	1	N,F SPECTRUM AVERAGED CROSS SECTION
C 90-TH-229	522		4.000- 7	1.500+ 1	60 249	1	N,F RESONANCE INTEGRAL
90-TH-229	896		2.530- 8	2.530- 8	58 1156	1	NU-BAR PROMPT CROSS SECTION RATIO
N 90-TH-229			2.530- 8	2.530- 8	70 4040	1	JCLEAR TEMPERATURE
90-TH-229			2.400- 7	2.370- 7	60 249	3	RESONANCE PARAMETERS
90-TH-229			6.090- 7	2.990- 5	61 246	44	RESONANCE PARAMETERS
90-TH-229			6.100- 7	1.680- 5	63 238	18	RESONANCE PARAMETERS
N 90-TH-229			6.100- 7	5.100- 5	70 3438	34	RESONANCE PARAMETERS
90-TH-230	1		2.170- 8	5.009- 5	66 1490	221	TOTAL
N 90-TH-230	1		2.170- 8	5.009- 5	68 2196	221	TOTAL
90-TH-230	1		2.500- 8	2.500- 8	69 2362	1	TOTAL
90-TH-230	1		3.340+ 0	5.100+ 0	68 2536	60	TOTAL
90-TH-230	2		2.500- 8	2.500- 8	69 2362	1	ELASTIC
N 90-TH-230	2		8.000- 6	8.000- 6	68 2196	1	ELASTIC
N 90-TH-230	21		2.500- 8	2.500- 8	68 2196	1	ABSORPTION
90-TH-230	22		3.001- 1	2.965+ 0	71 3219	165	N,F
N 90-TH-230	22		6.250- 1	1.400+ 0	72 3940	50	N,F
90-TH-230	22		6.500- 1	1.230+ 0	67 1529	12	N,F
90-TH-230	22		6.750- 1	2.930+ 0	65 1928	41	N,F
90-TH-230	22		7.100- 1	1.200+ 0	59 624	11	N,F
90-TH-230	22		2.500+ 0	1.460+ 1	60 635	2	N,F
90-TH-230	22	80	7.100- 1	1.200+ 0	59 624	11	N,F
90-TH-230	23		2.500- 8	2.500- 8	69 2362	1	N,GAMMA
90-TH-230	23		2.530- 8	2.530- 8	52 1201	1	N,GAMMA
90-TH-230	23		2.530- 8	2.530- 8	58 423	1	N,GAMMA
90-TH-230	34		1.450+ 1	1.450+ 1	59 550	1	N,ALPHA
90-TH-230	73		2.500- 8	2.500- 8	48 251	1	N,GAMMA
90-TH-230	73		2.500- 8	2.500- 8	53 258	1	N,GAMMA
C 90-TH-230	523		5.000- 7	1.500+ 1	58 423	1	N,GAMMA
N 90-TH-230	523		1.431- 6	5.630- 4	68 2196	1	N,GAMMA
90-TH-230			1.470+ 1	1.470+ 1	69 2359	1	NUCLEAR TEMPERATURE
C 90-TH-230			0.000+ 0	6.000- 4	69 2362	2	AVERAGE RESONANCE PARAMETERS
C 90-TH-230			2.000- 8	5.000- 5	66 1490	2	AVERAGE RESONANCE PARAMETERS
C 90-TH-230			1.400- 6	2.940- 4	68 1516	3	AVERAGE RESONANCE PARAMETERS
N 90-TH-230			1.431- 6	5.630- 4	68 2196	2	AVERAGE RESONANCE PARAMETERS
90-TH-230			-7.500- 8	5.630- 4	69 2362	64	RESONANCE PARAMETERS
N 90-TH-230			1.431- 9	5.630- 4	68 2196	35	RESONANCE PARAMETERS
90-TH-230			1.107- 6	4.750- 5	66 1490	21	RESONANCE PARAMETERS
90-TH-230			1.425- 6	2.940- 4	68 1516	29	RESONANCE PARAMETERS
90-TH-231	22		1.500+ 0	2.000+ 0	70 2273	3	N,F
90-TH-232	1		1.900- 9	2.500- 6	54 178	52	TOTAL
90-TH-232	1		8.100- 9	5.850- 6	51 242	66	TOTAL
90-TH-232	1		2.000- 8	1.450- 7	68 2196	18	TOTAL
90-TH-232	1		1.000- 7	7.000- 5	58 903	43	TOTAL
90-TH-232	1		1.440- 6	1.440- 6	65 949	1	TOTAL
90-TH-232	1		5.890- 6	5.920- 4	54 459	221	TOTAL
90-TH-232	1		9.700- 6	2.331- 3	55 366	283	TOTAL
C 90-TH-232	1		1.526- 5	2.893- 4	64 371	822	TOTAL
90-TH-232	1		2.125- 5	5.800- 4	55 520	139	TOTAL
C 90-TH-232	1		8.229- 5	3.960- 3	65 814	9750	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 90232

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 90232

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	90-TH-232	1	2.123- 4	1.066- 2	64 3650	4117	TOTAL
	90-TH-232	1	6.700- 4	1.550- 1	54 6	133	TOTAL
	90-TH-232	1	1.200- 3	8.800- 3	53 266	9	TOTAL
	90-TH-232	1	6.500- 3	9.500- 1	66 1328	28	TOTAL
	90-TH-232	1	3.000- 2	6.500- 1	64 381	102	TOTAL
	90-TH-232	1	1.000- 1	3.000- 0	53 90	18	TOTAL
N	90-TH-232	1	1.020- 1	1.463- 0	74 3526	513	TOTAL
N	90-TH-232	1	1.500- 1	6.000- 1	67 3638	10	TOTAL
	90-TH-232	1	4.500- 1	2.250- 0	61 1000	7	TOTAL
	90-TH-232	1	5.005- 1	9.599- 0	71 3341	644	TOTAL
	90-TH-232	1	1.470- 0	8.635- 0	66 1511	139	TOTAL
	90-TH-232	1	1.900- 0	8.060- 0	61 581	17	TOTAL
	90-TH-232	1	1.980- 0	1.448- 1	63 330	95	TOTAL
	90-TH-232	1	2.000- 0	7.000- 0	65 1264	4	TOTAL
	90-TH-232	1	2.263- 0	1.487- 1	67 750	242	TOTAL
N	90-TH-232	1	3.340- 0	5.100- 0	65 3655	60	TOTAL
	90-TH-232	1	3.370- 0	5.070- 0	60 643	93	TOTAL
	90-TH-232	1	1.400- 1	1.400- 1	52 81	1	TOTAL
	90-TH-232	1	2.840- 1	2.840- 1	61 233	1	TOTAL
	90-TH-232	1	4.200- 1	4.200- 1	50 281	1	TOTAL
	90-TH-232	2	5.700- 1	1.500- 0	62 693	6	ELASTIC
N	90-TH-232	2	8.733- 1	8.733- 1	72 3546	1	ELASTIC
	90-TH-232	2	1.000- 0	1.000- 0	54 103	1	ELASTIC
	90-TH-232	2	2.000- 0	2.000- 0	65 1508	1	ELASTIC
	90-TH-232	2	2.000- 0	7.000- 0	65 1264	4	ELASTIC
	90-TH-232	2	3.100- 0	3.100- 0	61 846	1	ELASTIC
	90-TH-232	3	1.000- 0	1.000- 0	54 103	1	NONELASTIC
	90-TH-232	3	1.400- 1	1.400- 1	63 277	1	NONELASTIC
	90-TH-232	5	6.000- 2	1.368- 0	56 231	25	TOTAL SCATTERING
	90-TH-232	5 B	1.520- 1	1.520- 1	62 1268	1	TOTAL SCATTERING
	90-TH-232	6	3.000- 0	7.000- 0	65 1264	3	NONELASTIC EMISSION
	90-TH-232	11	4.000- 1	1.000- 0	63 773	4	N,N'
	90-TH-232	11	5.700- 1	1.500- 0	62 693	6	N,N'
	90-TH-232	11 1	3.000- 1	1.200- 0	62 693	31	N,N'
	90-TH-232	11 1	4.000- 1	1.000- 0	63 773	10	N,N'
	90-TH-232	11 1	1.050- 0	2.200- 0	69 2376	30	N,N'
	90-TH-232	11 B	1.190- 0	1.610- 0	62 693	19	N,N'
	90-TH-232	11 B	1.600- 0	2.400- 0	65 1264	5	N,N'
	90-TH-232	11 B	1.850- 0	2.200- 0	69 2376	8	N,N'
	90-TH-232	12	6.450- 0	1.650- 1	60 589	14	N,2N
	90-TH-232	12	6.510- 0	2.040- 1	61 699	18	N,2N
	90-TH-232	12	7.030- 0	1.597- 1	58 1482	2	N,2N
	90-TH-232	12	3.400- 0	1.510- 1	60 530	13	N,2N
	90-TH-232	12	1.410- 1	1.410- 1	61 745	1	N,2N
	90-TH-232	12	1.470- 1	1.470- 1	60 1520	1	N,2N
	90-TH-232	12	1.500- 1	1.500- 1	56 1398	1	N,2N
	90-TH-232	13	1.400- 1	1.400- 1	63 277	1	N,3N
	90-TH-232	21	2.530- 8	2.530- 8	55 1205	1	ABSORPTION
	90-TH-232	21	2.530- 8	2.530- 8	60 897	1	ABSORPTION
	90-TH-232	21	2.400- 2	2.400- 2	65 1364	1	ABSORPTION
	90-TH-232	21	2.400- 2	2.400- 2	66 1541	1	ABSORPTION
	90-TH-232	21	2.500- 2	8.300- 1	58 364	3	ABSORPTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-304 ***

ZA = 90232

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 90232

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
90-TM-232	22	5.800+	1	2.970+	0	66 1502	85 N,F
90-TM-232	22	5.384+	1	2.965+	0	71 3219	96 N,F
N 90-TM-232	22	1.000+	0	1.000+	0	70 3738	1 N,F
90-TM-232	22	1.140+	0	1.880+	0	61 634	7 N,F
90-TM-232	22	1.200+	0	1.600+	0	68 2192	3 N,F
90-TM-232	22	1.203+	0	9.470+	0	54 515	220 N,F
90-TM-232	22	3.200+	0	7.300+	0	58 1234	7 N,F
90-TM-232	22	5.400+	0	3.650+	1	63 983	39 N,F
90-TM-232	22	7.500+	0	2.150+	1	60 740	28 N,F
90-TM-232	22	1.250+	1	1.800+	1	67 1506	16 N,F
90-TM-232	22	1.300+	1	1.800+	1	62 1089	5 N,F
N 90-TM-232	22	1.350+	1	1.480+	1	61 3748	3 N,F
90-TM-232	22	1.400+	1	1.400+	1	50 1413	1 N,F
90-TM-232	22	1.410+	1	1.410+	1	56 771	1 N,F
N 90-TM-232	22	1.410+	1	1.410+	1	70 3867	1 N,F
90-TM-232	22	1.460+	1	1.460+	1	58 528	1 N,F
90-TM-232	22	1.460+	1	1.460+	1	58 608	1 N,F
90-TM-232	22	1.460+	1	1.460+	1	69 2354	2 N,F
90-TM-232	22	3.800+	2	3.800+	2	55 461	1 N,F
90-TM-232	23	2.530-	8	2.530-	8	55 191	1 N,GAMMA
90-TM-232	23	2.530-	8	2.530-	8	57 337	1 N,GAMMA
90-TM-232	23	9.800-	8	3.400-	6	68 2084	47 N,GAMMA
N 90-TM-232	23	2.000+	4	3.460-	2	70 3315	26 N,GAMMA
90-TM-232	23	2.000+	3	2.000+	3	69 2096	1 N,GAMMA
90-TM-232	23	3.000+	3	3.900+	1	46 313	9 N,GAMMA
90-TM-232	23	5.500+	3	1.000+	1	63 1438	10 N,GAMMA
90-TM-232	23	5.500+	3	1.480+	1	63 1510	98 N,GAMMA
90-TM-232	23	1.000+	2	5.850-	2	64 454	127 N,GAMMA
90-TM-232	23	1.700+	2	6.300+	1	57 236	19 N,GAMMA
90-TM-232	23	2.400+	2	2.400+	2	57 305	1 N,GAMMA
90-TM-232	23	2.400+	2	2.400+	2	65 867	1 N,GAMMA
90-TM-232	23	3.000+	2	9.500+	1	61 715	27 N,GAMMA
90-TM-232	23	3.000+	2	3.970+	0	61 759	26 N,GAMMA
90-TM-232	23	1.000+	1	1.230+	0	59 1402	24 N,GAMMA
N 90-TM-232	23	1.210+	1	1.660+	0	71 3498	14 N,GAMMA
N 90-TM-232	23	1.210+	1	2.730+	0	74 3498	29 N,GAMMA
90-TM-232	23	1.910+	1	1.170+	0	63 774	22 N,GAMMA
90-TM-232	23	2.000+	1	2.000+	1	58 363	2 N,GAMMA
90-TM-232	23	2.200+	1	2.200+	1	60 633	1 N,GAMMA
90-TM-232	23	3.000+	1	1.200+	0	59 627	10 N,GAMMA
90-TM-232	23	1.450+	1	1.450+	1	67 521	1 N,GAMMA
90-TM-232	24	7.000+	1	1.050+	0	61 11	114 N,X GAMMA
90-TM-232	43	4.200-	8	4.200-	8	62 1275	1 COHERENT SCATTERING
N 90-TM-232	45	3.500+	4	3.500+	4	64 3650	1 POTENTIAL SCATTERING
90-TM-232	46	1.390+	0	4.020+	0	65 1074	4 NU-BAR PROMPT
90-TM-232	46	1.400+	0	1.400+	0	59 1151	1 NU-BAR PROMPT
90-TM-232	46	1.420+	0	1.480+	1	65 1378	7 NU-BAR PROMPT
N 90-TM-232	46	1.420+	0	1.490+	1	65 1138	9 NU-BAR PROMPT
C 90-TM-232	46	1.480+	0	3.470+	0	68 219	7 NU-BAR PROMPT
90-TM-232	46	2.300+	0	1.570+	1	61 1079	3 NU-BAR PROMPT
90-TM-232	46	4.000+	0	4.000+	0	58 1447	1 NU-BAR PROMPT
90-TM-232	46	1.410+	1	1.410+	1	56 1321	1 NU-BAR PROMPT

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-305 ***

ZA = 90232

07/04/76

EC5IL-7600 REACTION INDEX (ZA ORDERED)

ZA = 90232

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
90-TH-232	46		1.420	1.420	1 58 1330	1	NU-BAR PROMPT
90-TH-232	47		2.000	2.000	0 1 55 1341	1	NU-BAR DELAYED
90-TH-232	47		2.400	1.500	1 59 1425	3	NU-BAR DELAYED
90-TH-232	47		3.100	1.490	1 69 1533	2	NU-BAR DELAYED
N 90-TH-232	47		1.400	1.400	1 61 1410	1	NU-BAR DELAYED
90-TH-232	47		1.400	1.400	1 68 2357	1	NU-BAR DELAYED
90-TH-232	47		1.450	1.450	1 61 1423	1	NU-BAR DELAYED
90-TH-232	48		1.400	1.400	1 63 277	1	ETA
90-TH-232	51		3.500	4.600	2 61 408	33	TOTAL
90-TH-232	52		2.500	2.500	8 51 1303	1	ELASTIC
90-TH-232	52		2.500	2.500	8 51 1397	1	ELASTIC
N 90-TH-232	52		2.530	2.530	8 73 3482	1	ELASTIC
90-TH-232	62		2.000	2.000	0 58 1519	1	N,2N
90-TH-232	71		2.500	2.500	8 55 1406	1	ABSORPTION
90-TH-232	71		2.500	2.500	8 57 1478	1	ABSORPTION
90-TH-232	72		2.500	2.500	8 59 1540	1	N,F
90-TH-232	72		2.500	2.500	8 68 1525	1	N,F
90-TH-232	73		2.500	2.500	8 44 1444	1	N,GAMMA
90-TH-232	73		2.500	2.500	8 44 1458	1	N,GAMMA
90-TH-232	73		2.500	2.500	8 52 342	1	N,GAMMA
90-TH-232	73		2.500	2.500	8 57 339	1	N,GAMMA
90-TH-232	93		2.500	2.500	8 51 1397	1	COHERENT SCATTERING
90-TH-232	96		3.500	3.500	0 58 1198	1	NU-BAR PROMPT
90-TH-232	97		2.000	2.000	0 55 1427	1	NU-BAR DELAYED
90-TH-232	97		2.000	2.000	0 57 1066	1	NU-BAR DELAYED
90-TH-232	97		1.400	1.400	1 50 1422	1	NU-BAR DELAYED
90-TH-232	102		5.000	1.550	0 55 1495	2	ELASTIC
90-TH-232	102		5.600	1.500	0 62 693	41	ELASTIC
90-TH-232	102		6.000	1.600	0 68 2351	31	ELASTIC
90-TH-232	102		8.000	1.800	0 61 1257	47	ELASTIC
N 90-TH-232	102		8.733	1.733	1 72 3546	8	ELASTIC
90-TH-232	102		1.000	1.000	0 54 103	9	ELASTIC
90-TH-232	102		1.000	1.000	0 54 1032	5	ELASTIC
90-TH-232	102		3.000	7.000	0 65 1264	39	ELASTIC
90-TH-232	102		3.100	3.100	0 61 846	10	ELASTIC
90-TH-232	102		5.000	5.000	0 66 1254	13	ELASTIC
90-TH-232	102		1.420	1.420	1 63 1256	12	ELASTIC
90-TH-232	105		6.000	2.350	0 56 231	85	TOTAL SCATTERING
90-TH-232	105		2.000	2.000	0 55 1264	11	TOTAL SCATTERING
90-TH-232	111		5.600	1.560	1 62 693	20	N,N'
90-TH-232	111		1.350	1.580	0 59 1274	3	N,N'
90-TH-232	111		1.350	1.580	0 59 1274	2	N,N'
90-TH-232	122		1.410	1.410	1 70 3303	21	N,F
C 90-TH-232	521		4.000	1.500	1 2 68 937	1	ABSORPTION
C 90-TH-232	521		4.000	1.000	0 70 3335	1	ABSORPTION
C 90-TH-232	521		4.900	1.500	1 57 1054	1	ABSORPTION
C 90-TH-232	521		5.000	1.500	1 60 697	1	ABSORPTION
C 90-TH-232	521		5.500	1.500	1 66 1491	1	ABSORPTION
C 90-TH-232	523		4.000	1.500	1 2 68 937	1	N,GAMMA
C 90-TH-232	523		4.000	1.700	0 70 3335	1	N,GAMMA
N 90-TH-232	523		4.000	1.500	1 56 1405	1	N,GAMMA
C 90-TH-232	523		4.900	1.500	1 63 358	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-505 ***

ZA = 90232

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 90232

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	90-TH-232	523		5.000-	7 1.500+	1 44 1444	1	N,GAMMA RESONANCE INTEGRAL
C	90-TH-232	523		5.000-	7 1.500+	1 57 339	1	N,GAMMA RESONANCE INTEGRAL
C	90-TH-232	523		5.000-	7 1.500+	1 60 333	1	N,GAMMA RESONANCE INTEGRAL
C	90-TH-232	523		5.000-	7 1.500+	1 64 287	1	N,GAMMA RESONANCE INTEGRAL
C	90-TH-232	523		5.000-	7 1.500+	1 64 288	1	N,GAMMA RESONANCE INTEGRAL
C	90-TH-232	523		5.000-	7 1.500+	1 65 270	1	N,GAMMA RESONANCE INTEGRAL
C	90-TH-232	523		5.000-	7 1.460+	1 65 1298	1	N,GAMMA RESONANCE INTEGRAL
N	90-TH-232	527		5.000-	7 1.500+	1 69 3680	1	N,GAMMA RESONANCE INTEGRAL
C	90-TH-232	523		5.200-	7 1.500+	1 62 344	1	N,GAMMA RESONANCE INTEGRAL
	90-TH-232	605		1.520+	1 1.520+	1 62 1268	32	TOTAL SCATTERING ANGULAR DIST.-INTEGRAL E1-E2
	90-TH-232	861	1	7.400-	1 7.400-	1 59 1274	2	N,N' CROSS SECTION RATIO
	90-TH-232	872		1.400+	1 1.400+	1 50 1413	1	N,N' CROSS SECTION RATIO
	90-TH-232	873		2.530-	8 2.530-	8 55 191	1	N,GAMMA CROSS SECTION RATIO
N	90-TH-232	873		1.210-	1 2.730+	0 71 3498	16	N,GAMMA CROSS SECTION RATIO
	90-TH-232	896		1.400+	0 1.400+	0 59 1151	1	NU-BAR PROMPT CROSS SECTION RATIO
	90-TH-232	896		1.420+	1 1.420+	1 58 1330	1	NU-BAR PROMPT CROSS SECTION RATIO
	90-TH-232	897		2.000+	0 2.000+	0 1 55 1341	1	NU-BAR DELAYED CROSS SECTION RATIO
N	90-TH-232	897		1.400+	1 1.400+	1 69 3958	1	NU-BAR DELAYED CROSS SECTION RATIO
	90-TH-232			3.000+	0 7.000+	0 65 1264	6	NUCLEAR TEMPERATURE
	90-TH-232			1.400+	1 1.400+	1 58 1339	1	NUCLEAR TEMPERATURE
	90-TH-232			1.410+	1 1.410+	1 68 2535	1	NUCLEAR TEMPERATURE
	90-TH-232			1.430+	1 1.430+	1 69 2360	2	NUCLEAR TEMPERATURE
C	90-TH-232			0.000+	0 1.400-	4 54 459	3	AVERAGE RESONANCE PARAMETERS
C	90-TH-232			0.000+	0 1.971-	3 71 2945	2	AVERAGE RESONANCE PARAMETERS
N	90-TH-232			0.030+	0 2.000-	3 58 1191	1	AVERAGE RESONANCE PARAMETERS
N	90-TH-232			0.000+	0 3.000-	3 64 1496	3	AVERAGE RESONANCE PARAMETERS
N	90-TH-232			0.000+	0 3.000-	3 1 71 3140	3	AVERAGE RESONANCE PARAMETERS
N	90-TH-232			0.000+	0 3.900-	3 65 814	2	AVERAGE RESONANCE PARAMETERS
N	90-TH-232			0.000+	0 4.000-	3 70 3556	11	AVERAGE RESONANCE PARAMETERS
C	90-TH-232			8.000-	6 1.030-	4 64 388	1	AVERAGE RESONANCE PARAMETERS
N	90-TH-232			8.000-	6 3.060-	4 64 3650	4	AVERAGE RESONANCE PARAMETERS
C	90-TH-232			2.170-	5 1.980-	4 66 409	2	AVERAGE RESONANCE PARAMETERS
C	90-TH-232			2.200-	5 2.950-	4 56 201	2	AVERAGE RESONANCE PARAMETERS
C	90-TH-232			3.000-	4 1.300-	3 61 408	5	AVERAGE RESONANCE PARAMETERS
C	90-TH-232			3.290-	4 1.300-	3 62 1499	1	AVERAGE RESONANCE PARAMETERS
C	90-TH-232			1.000-	3 1.000-	1 68 2090	2	AVERAGE RESONANCE PARAMETERS
C	90-TH-232			3.000-	3 6.500+	1 64 1226	2	AVERAGE RESONANCE PARAMETERS
C	90-TH-232			1.000-	2 1.000-	1 64 1227	2	AVERAGE RESONANCE PARAMETERS
C	90-TH-232			1.000-	2 1.000+	0 65 1320	5	AVERAGE RESONANCE PARAMETERS
	90-TH-232			-7.000-	6 -7.000-	6 58 903	1	RESONANCE PARAMETERS
	90-TH-232			-5.100-	6 -5.100-	6 68 2094	1	RESONANCE PARAMETERS
	90-TH-232			-3.500-	6 -3.500-	6 61 1455	2	RESONANCE PARAMETERS
	90-TH-232			8.240-	6 8.652-	4 66 409	72	RESONANCE PARAMETERS
N	90-TH-232			8.316-	6 3.007-	3 64 3650	657	RESONANCE PARAMETERS
	90-TH-232			8.340-	6 1.036-	4 64 388	18	RESONANCE PARAMETERS
	90-TH-232			2.169-	5 3.412-	4 63 1480	31	RESONANCE PARAMETERS
	90-TH-232			2.173-	5 6.902-	5 63 1481	5	RESONANCE PARAMETERS
	90-TH-232			2.178-	5 6.913-	5 67 273	12	RESONANCE PARAMETERS
N	90-TH-232			2.178-	5 3.994-	3 70 3556	691	RESONANCE PARAMETERS
	90-TH-232			2.180-	5 1.700-	4 64 465	13	RESONANCE PARAMETERS
	90-TH-232			2.180-	5 1.710-	4 64 470	28	RESONANCE PARAMETERS
	90-TH-232			2.180-	5 2.219-	4 65 1479	19	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-307 ***

ZA = 90232

07/04/76

ELSL-7600 REACTION INDEX (ZA ORDERED)

ZA = 90232

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
90-TH-232			2.200-	3.100- 4	55 520	30	RESONANCE PARAMETERS
90-TH-232			2.200-	3.500- 4	56 201	50	RESONANCE PARAMETERS
90-TH-232			2.210-	1.330- 4	54 459	21	RESONANCE PARAMETERS
90-TH-232			3.690-	1.971- 3	71 2946	329	RESONANCE PARAMETERS
90-TH-232			1.123-	4 0.000- 3	65 814	239	RESONANCE PARAMETERS
90-TH-232			1.950-	4 2.630- 4	59 498	20	RESONANCE PARAMETERS
90-TH-232			3.290-	4 1.300- 3	62 1499	90	RESONANCE PARAMETERS
90-TH-233	22		1.500+ 0	2.000+ 0	70 2273	3	N.F.
90-TH-233	72		2.500- 8	2.500- 8	56 1204	1	N.F.
90-TH-233	73		2.500- 8	2.500- 8	48 1503	1	N.GAMMA
90-TH-233	73		2.500- 8	2.500- 8	60 333	1	N.GAMMA
C 90-TH-233	523		5.000- 7	1.500+ 1	60 333	1	N.GAMMA
90-TH-234			2.500- 8	2.500- 8	50 365	1	N.GAMMA
91-PA-231	1		1.523- 8	2.141- 3	62 410	1238	TOTAL
91-PA-231	22		1.002- 1	2.965+ 0	1 71 3219	332	N.F.
91-PA-231	22		1.330- 1	1.730+ 0	64 957	46	N.F.
91-PA-231	22		4.300- 1	3.000+ 0	44 240	15	N.F.
91-PA-231	22		1.480+ 1	1.480+ 1	69 2521	1	N.F.
N 91-PA-231	23		2.530- 8	2.530- 8	72 4030	1	N.GAMMA
91-PA-231	72		2.500- 8	2.500- 8	46 1174	1	N.F.
91-PA-231	73		2.500- 8	2.500- 8	46 1174	1	N.GAMMA
91-PA-231	73		2.500- 8	2.500- 8	52 334	2	N.GAMMA
91-PA-231	73		2.500- 8	2.500- 8	52 1203	1	N.GAMMA
91-PA-231	73		2.500- 8	2.500- 8	53 14	1	N.GAMMA
91-PA-231	73		2.500- 8	2.500- 8	56 675	1	N.GAMMA
C 91-PA-231			0.000+ 0	1.250- 5	62 362	2	AVERAGE RESONANCE PARAMETERS
C 91-PA-231			0.000+ 0	2.000- 3	62 410	4	AVERAGE RESONANCE PARAMETERS
91-PA-231			-3.180- 7	1.073- 5	62 410	76	RESONANCE PARAMETERS
91-PA-231			3.960- 7	7.450- 7	61 1208	6	RESONANCE PARAMETERS
91-PA-231			4.000- 7	9.900- 5	62 362	123	RESONANCE PARAMETERS
91-PA-232	73		2.500- 8	2.500- 8	53 14	1	N.GAMMA
91-PA-232	73		2.500- 8	2.500- 8	56 675	1	N.GAMMA
91-PA-233	1		1.100- 8	1.067- 2	68 1309	847	TOTAL
91-PA-233	1		2.530- 8	2.530- 8	87 1309	1	TOTAL
91-PA-233	23		2.530- 8	2.530- 8	62 1483	1	N.GAMMA
91-PA-233	23		2.530- 8	2.530- 8	70 2109	1	N.GAMMA
91-PA-233	23	3	2.530- 8	2.530- 8	58 1153	1	N.GAMMA
91-PA-233	72		2.000+ 0	2.000+ 0	67 510	1	N.F.
91-PA-233	73		2.500- 8	2.500- 8	52 1202	1	N.GAMMA
91-PA-233	73		2.500- 8	2.500- 8	53 1485	1	N.GAMMA
91-PA-233	73		2.500- 8	2.500- 8	55 1484	1	N.GAMMA
91-PA-233	73		2.500- 8	2.500- 8	56 10	1	N.GAMMA
91-PA-233	73		2.500- 8	2.500- 8	64 1512	1	N.GAMMA
91-PA-233	73		2.960- 8	2.960- 8	70 2109	1	N.GAMMA
91-PA-233	73	3	2.500- 8	2.500- 8	55 1484	1	N.GAMMA
91-PA-233	73	3	2.500- 8	2.500- 8	60 328	1	N.GAMMA
91-PA-233	73	4	2.500- 8	2.500- 8	55 1484	1	N.GAMMA
91-PA-233	73	4	2.500- 8	2.500- 8	60 328	1	N.GAMMA
C 91-PA-233	523		5.000- 7	1.500+ 1	70 2109	1	N.GAMMA
C 91-PA-233	523		5.000- 7	1.500+ 1	62 1483	1	N.GAMMA
C 91-PA-233	523	3	5.000- 7	1.500+ 1	55 1484	1	N.GAMMA
C 91-PA-233	523	3	5.000- 7	1.500+ 1	60 328	1	N.GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-308 ***

ZA = 91233

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 91233

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	91-PA-233	523	3	6.000- 7	1.460+ 1	58 1163	1 N, GAMMA
C	91-PA-233	523	4	5.000- 7	1.500+ 1	55 1484	1 N, GAMMA
C	91-PA-233	523	4	5.000- 7	1.500+ 1	60 328	1 N, GAMMA
C	91-PA-233			0.000+ 0	1.800- 5	67 1309	3 AVERAGE RESONANCE PARAMETERS
C	91-PA-233			1.350- 6	5.000- 6	63 1486	3 AVERAGE RESONANCE PARAMETERS
C	91-PA-233			7.950- 7	1.700- 5	67 1309	4 RESONANCE PARAMETERS
C	91-PA-233			1.350- 6	1.610- 5	63 1486	10 RESONANCE PARAMETERS
	92-U -NAT	1		1.000- 9	1.210- 7	54 178	103 TOTAL
	92-U -NAT	1		1.890- 9	7.920- 7	54 1041	71 TOTAL
	92-U -NAT	1		1.000- 8	7.000- 7	55 237	27 TOTAL
	92-U -NAT	1		3.300- 8	7.400- 7	51 26	11 TOTAL
	92-U -NAT	1		1.050- 6	3.820- 6	52 180	17 TOTAL
	92-U -NAT	1		3.650- 6	2.850- 4	55 862	247 TOTAL
	92-U -NAT	1		6.700- 4	1.550- 1	53 184	135 TOTAL
N	92-U -NAT	1		1.000- 2	2.950- 1	66 4017	14 TOTAL
	92-U -NAT	1		2.000- 2	1.412+ 0	50 314	63 TOTAL
	92-U -NAT	1		1.000- 1	2.000+ 1	54 105	41 TOTAL
N	92-U -NAT	1		1.500- 1	6.000- 1	67 3638	10 TOTAL
	92-U -NAT	1		5.000- 1	4.350+ 0	70 3330	3162 TOTAL
	92-U -NAT	1		8.180- 1	1.490+ 0	65 1513	35 TOTAL
	92-U -NAT	1		9.000- 1	9.000- 1	41 170	1 TOTAL
	92-U -NAT	1		1.610+ 0	1.448+ 1	63 330	74 TOTAL
	92-U -NAT	1		2.254+ 0	1.491+ 1	67 750	244 TOTAL
	92-U -NAT	1		2.900+ 0	1.410+ 1	54 504	20 TOTAL
N	92-U -NAT	1		3.340+ 0	5.105+ 0	65 3667	60 TOTAL
	92-U -NAT	1		1.360+ 1	1.476+ 1	58 349	22 TOTAL
	92-U -NAT	1		1.400+ 1	1.400+ 1	52 81	1 TOTAL
	92-U -NAT	1		1.483+ 1	1.480+ 1	50 368	1 TOTAL
	92-U -NAT	1		1.580+ 1	1.175+ 2	61 789	60 TOTAL
	92-U -NAT	1		1.797+ 1	2.007+ 1	53 274	3 TOTAL
	92-U -NAT	1		2.840+ 1	2.840+ 1	61 233	1 TOTAL
	92-U -NAT	1		4.600+ 1	1.620+ 2	53 1395	10 TOTAL
	92-U -NAT	1		9.000+ 1	9.000+ 1	49 286	1 TOTAL
	92-U -NAT	1		3.790+ 2	1.731+ 3	71 3264	15 TOTAL
	92-U -NAT	1		1.400+ 3	1.400+ 3	55 2056	1 TOTAL
	92-U -NAT	1		5.700+ 3	5.700+ 3	69 3160	1 TOTAL
	92-U -NAT	1		2.700+ 4	2.700+ 4	68 2350	1 TOTAL
N	92-U -NAT	1	9	4.960- 9	2.630- 8	66 3659	64 TOTAL
	92-U -NAT	2		2.530- 8	2.530- 8	54 1279	1 ELASTIC
	92-U -NAT	2		3.000- 1	5.000- 1	64 1255	2 ELASTIC
	92-U -NAT	2		5.000- 1	1.000+ 0	57 444	2 ELASTIC
	92-U -NAT	2		8.000- 1	8.000- 1	64 870	1 ELASTIC
N	92-U -NAT	2		8.715- 1	8.715- 1	72 3546	1 ELASTIC
	92-U -NAT	2		1.450+ 1	1.450+ 1	58 403	1 ELASTIC
	92-U -NAT	3		1.500- 1	5.000- 1	57 444	3 NONELASTIC
	92-U -NAT	3		2.900- 1	1.020+ 0	56 353	3 NONELASTIC
	92-U -NAT	3		1.000+ 0	2.500+ 0	56 151	2 NONELASTIC
	92-U -NAT	3		4.000+ 0	4.500+ 0	55 1383	2 NONELASTIC
	92-U -NAT	3		1.400+ 1	1.400+ 1	58 877	1 NONELASTIC
	92-U -NAT	3		1.470+ 1	1.470+ 1	63 1271	1 NONELASTIC
	92-U -NAT	3		3.790+ 2	1.731+ 3	71 3264	15 NONELASTIC
	92-U -NAT	3		1.400+ 3	1.400+ 3	55 2056	1 NONELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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... 1-309 ...

ZA = 92000

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92000

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U	-NAT	3	8	1.000+ 0	1.000+ 0	57 444	1 NONELASTIC
92-U	-NAT	5		5.000- 2	2.250+ 0	60 571	31 TOTAL SCATTERING
92-U	-NAT	5		9.800- 1	9.800- 1	53 879	1 TOTAL SCATTERING
92-U	-NAT	5	8	1.520+ 1	1.520+ 1	62 1268	1 TOTAL SCATTERING
92-U	-NAT	11		4.000- 1	1.000+ 0	63 773	4 N,N'
92-U	-NAT	11	1	4.000- 1	1.000+ 0	63 773	13 N,N'
92-U	-NAT	21		2.530- 8	2.530- 8	55 1317	1 ABSORPTION
92-U	-NAT	21		2.530- 8	2.530- 8	61 2369	1 ABSORPTION
92-U	-NAT	43		0.000+ 0	0.000+ 0	54 1279	1 COHERENT SCATTERING
92-U	-NAT	43		0.000+ 0	0.000+ 0	61 1408	1 COHERENT SCATTERING
92-U	-NAT	43		4.200- 8	4.200- 8	62 1275	1 COHERENT SCATTERING
92-U	-NAT	48		1.400+ 1	1.400+ 1	58 877	1 ETA
92-U	-NAT	52		2.500- 8	2.500- 8	51 1397	1 ELASTIC
92-U	-NAT	71		2.500- 8	2.500- 8	55 1406	1 ABSORPTION
92-U	-NAT	93		2.500- 8	2.500- 8	51 1397	1 COHERENT SCATTERING
92-U	-NAT	98		2.500- 8	2.500- 8	53 1317	1 ETA
92-U	-NAT	102		3.000- 1	5.000- 1	64 1255	16 ELASTIC
92-U	-NAT	102		5.000- 1	1.000+ 0	57 444	18 ELASTIC
92-U	-NAT	102		5.500- 1	5.500- 1	58 397	15 ELASTIC
92-U	-NAT	102		5.700- 1	5.700- 1	65 1260	7 ELASTIC
92-U	-NAT	102		5.750- 1	8.400+ 0	71 3404	187 ELASTIC
92-U	-NAT	102		6.000- 1	1.600+ 0	68 2351	31 ELASTIC
92-U	-NAT	102		8.000- 1	8.000- 1	64 870	8 ELASTIC
92-U	-NAT	102		8.000- 1	2.800+ 0	61 1257	47 ELASTIC
92-U	-NAT	102		8.300- 1	8.300- 1	66 1259	7 ELASTIC
92-U	-NAT	102		8.715- 1	8.715- 1	72 3546	8 ELASTIC
92-U	-NAT	102		9.900- 1	9.900- 1	63 879	8 ELASTIC
92-U	-NAT	102		1.000+ 0	1.000+ 0	53 1505	9 ELASTIC
92-U	-NAT	102		1.500+ 0	1.500+ 1	61 1262	32 ELASTIC
92-U	-NAT	102		2.500+ 0	7.000+ 0	56 565	44 ELASTIC
92-U	-NAT	102		4.000+ 0	4.000+ 0	67 204	8 ELASTIC
92-U	-NAT	102		5.000+ 0	5.000+ 0	66 1254	13 ELASTIC
92-U	-NAT	102		1.400+ 1	1.400+ 1	61 1263	3 ELASTIC
92-U	-NAT	102		1.410+ 1	1.410+ 1	58 403	13 ELASTIC
92-U	-NAT	102		1.420+ 1	1.420+ 1	63 1256	13 ELASTIC
92-U	-NAT	102		1.470+ 1	1.470+ 1	68 2510	10 ELASTIC
92-U	-NAT	102		1.480+ 1	1.480+ 1	73 3547	10 ELASTIC
92-U	-NAT	102		1.800+ 1	1.200+ 2	63 1261	48 ELASTIC
92-U	-NAT	102		2.840+ 1	2.840+ 1	61 233	1 ELASTIC
92-U	-NAT	102		9.600+ 1	9.600+ 1	60 1045	7 ELASTIC
92-U	-NAT	102	80	9.000- 2	8.000- 2	55 1258	5 ELASTIC
92-U	-NAT	105		5.000- 2	2.250+ 0	60 571	248 TOTAL SCATTERING
92-U	-NAT	105		8.300- 1	8.300- 1	66 1259	10 TOTAL SCATTERING
92-U	-NAT	105	8	2.000+ 0	2.000+ 0	58 397	15 TOTAL SCATTERING
92-U	-NAT	124	10	1.480+ 1	1.480+ 1	64 1728	10 N,X GAMMA
92-U	-NAT	124	10	1.480+ 1	1.480+ 1	64 1730	33 N,X GAMMA
92-U	-NAT	521		4.900- 7	1.500+ 1	57 1054	1 ABSORPTION
92-U	-NAT	605		5.500+ 1	2.000+ 0	59 77	45 TOTAL SCATTERING
92-U	-NAT	605		1.520+ 1	1.520+ 1	62 1269	32 TOTAL SCATTERING
92-U	-232	1		1.005- 8	9.282- 3	66 1308	931 TOTAL
92-U	-232	1		2.000- 2	3.500- 1	65 4017	8 TOTAL
92-U	-232	21		2.530- 8	2.530- 8	71 3943	1 ABSORPTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-310 ***

ZA = 92232

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92232

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	92-U-232	22	2.530-8	2.530-8	71 3943	1	N,F
	92-U-232	22	3.691-6	2.601-4	64 369	403	N,F
	92-U-232	22	5.050-6	1.927-3	68 898	707	N,F
C	92-U-232	22	4.155-5	2.133-2	70 943	2083	N,F
	92-U-232	22	1.250-1	1.480+0	70 3313	22	N,F
N	92-U-232	23	2.530-8	2.530-8	71 3943	1	N,GAMMA
	92-U-232	46	2.530-8	2.530-8	61 1088	1	NU-BAR PROMPT
N	92-U-232	49	2.530-8	2.530-8	71 3943	1	ALPHA
	92-U-232	72	2.500-8	2.500-8	46 1174	1	N,F
	92-U-232	72	2.500-8	2.500-8	53 1140	1	N,F
	92-U-232	72	2.500-8	2.500-8	61 1522	1	N,F
	92-U-232	73	2.500-8	2.500-8	53 1140	1	N,GAMMA
	92-U-232	73	2.500-8	2.500-8	65 1109	1	N,GAMMA
C	92-U-232	323	4.000-7	1.460+1	65 1189	1	N,GAMMA
	92-U-232		0.000+0	6.000-5	64 369	2	AVERAGE RESONANCE PARAMETERS
C	92-U-232		6.500-5	1.650-4	58 2099	3	AVERAGE RESONANCE PARAMETERS
	92-U-232		-6.000-7	2.775-5	66 1308	12	RESONANCE PARAMETERS
	92-U-232		-6.000-7	7.424-5	68 859	28	RESONANCE PARAMETERS
	92-U-232		5.945-6	7.500-5	65 1103	12	RESONANCE PARAMETERS
	92-U-232		5.990-6	2.580-4	64 369	25	RESONANCE PARAMETERS
	92-U-233	1	8.180-10	8.180-8	60 1396	33	TOTAL
	92-U-233	1	1.568-9	1.140-5	56 1409	265	TOTAL
	92-U-233	1	5.690-9	1.100-7	55 1470	35	TOTAL
	92-U-233	1	1.000-8	1.000-4	55 965	133	TOTAL
N	92-U-233	1	1.822-8	3.000-5	74 3802	1359	TOTAL
	92-U-233	1	1.840-8	9.580-8	60 935	40	TOTAL
	92-U-233	1	1.840-8	8.332-3	63 413	1528	TOTAL
	92-U-233	1	2.030-8	2.169-4	60 1249	1071	TOTAL
N	92-U-233	1	3.250-8	9.390-7	73 4074	29	TOTAL
	92-U-233	1	3.400-8	9.204-7	52 54	19	TOTAL
	92-U-233	1	3.500-8	1.104-5	65 1011	673	TOTAL
	92-U-233	1	3.000-7	1.126-5	55 1471	255	TOTAL
N	92-U-233	1	6.769-7	7.535-4	70 3601	1154	TOTAL
	92-U-233	1	1.860-6	6.890-5	55 902	343	TOTAL
	92-U-233	1	1.000-5	1.150-4	54 467	101	TOTAL
	92-U-233	1	8.974-5	1.551-2	58 1440	222	TOTAL
	92-U-233	1	3.400-3	1.611+0	62 1343	45	TOTAL
	92-U-233	1	1.000-2	1.610+0	61 668	23	TOTAL
C	92-U-233	1	5.049-1	9.887+0	73 3341	696	TOTAL
	92-U-233	1	5.049-1	9.916+0	71 3341	1384	TOTAL
	92-U-233	1	2.257+0	1.495+1	67 750	244	TOTAL
	92-U-233	2	2.700-7	3.310-6	58 396	11	ELASTIC
	92-U-233	2	6.400-7	3.600-4	67 1493	300	ELASTIC
	92-U-233	2	1.020-6	3.128-5	68 1530	192	ELASTIC
	92-U-233	2	1.700-6	1.860-5	62 1291	55	ELASTIC
	92-U-233	3	1.470+0	1.600+0	55 516	2	NONELASTIC
N	92-U-233	5	9.700-8	4.600-7	73 4074	11	TOTAL SCATTERING
	92-U-233	21	2.500-8	2.500-8	55 1317	1	ABSORPTION
	92-U-233	21	2.530-8	2.530-8	46 1313	1	ABSORPTION
	92-U-233	21	2.530-8	2.530-8	57 1404	1	ABSORPTION
	92-U-233	22	4.500-9	9.600-7	55 968	18	N,F
	92-U-233	22	9.060-9	2.820-5	57 435	197	N,F

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-311 ***

ZA = 92233

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92233

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	92-U	-233	22	1.060-	8	4.860- 5	51 991	113 N,F
	92-U	-233	22	1.170-	8	7.430- 4	55 956	224 N,F
	92-U	-233	22	1.679-	8	1.063- 6	69 2514	50 N,F
	92-U	-233	22	1.679-	8	1.063- 6	70 3155	50 N,F
	92-U	-233	22	1.841-	8	3.008- 3	70 3205	5382 N,F
	92-U	-233	22	1.940-	8	9.597- 4	60 1249	953 N,F
	92-U	-233	22	2.180-	8	4.650- 7	44 177	13 N,F
	92-U	-233	22	2.530-	8	2.530- 8	46 1313	1 N,F
	92-U	-233	22	2.530-	8	2.530- 8	58 1184	1 N,F
	92-U	-233	22	2.530-	8	2.530- 8	59 1178	1 N,F
N	92-U	-233	22	2.530-	8	2.530- 8	68 209	1 N,F
	92-U	-233	22	3.500-	8	1.104- 5	65 1011	673 N,F
	92-U	-233	22	1.738-	6	6.282- 5	64 1240	2036 N,F
	92-U	-233	22	6.000-	6	3.003- 2	74 3920	7532 N,F
	92-U	-233	22	1.002-	5	2.845+ 0	70 943	2911 N,F
	92-U	-233	22	2.005-	5	9.779- 1	66 1061	3051 N,F
	92-U	-233	22	2.984-	5	2.048+ 3	68 1025	2677 N,F
	92-U	-233	22	1.120-	4	6.500+ 0	66 1173	72 N,F
	92-U	-233	22	2.000-	3	2.000+ 3	68 2095	1 N,F
	92-U	-233	22	3.400-	3	7.800- 1	59 612	24 N,F
	92-U	-233	22	1.130-	2	1.015+ 0	69 2599	47 N,F
	92-U	-233	22	1.300-	2	3.050+ 0	56 152	61 N,F
	92-U	-233	22	2.400-	2	2.400- 2	65 1072	1 N,F
	92-U	-233	22	3.000-	2	3.000+ 0	57 218	25 N,F
	92-U	-233	22	3.000-	2	6.900+ 0	57 18	50 N,F
	92-U	-233	22	4.000-	2	4.150- 1	65 1091	5 N,F
	92-U	-233	22	2.000-	1	2.630+ 0	62 993	42 N,F
	92-U	-233	22	3.500-	1	2.670+ 0	68 2195	48 N,F
	92-U	-233	22	7.000-	1	3.360+ 0	56 984	34 N,F
	N	92-U	-233	22	1.000+	0	1.410+ 1	64 1090
92-U		-233	22	2.000+	0	1.026+ 1	58 352	19 N,F
92-U		-233	22	3.000+	0	8.300+ 0	58 1234	13 N,F
92-U		-233	22	9.050+	0	2.160+ 1	63 983	10 N,F
92-U		-233	22	1.400+	1	1.400+ 1	50 1413	1 N,F
92-U		-233	22	1.410+	1	1.410+ 1	56 771	1 N,F
92-U		-233	22	1.410+	1	1.410+ 1	70 3867	1 N,F
92-U		-233	23	1.679-	8	1.063- 6	69 2514	50 N,GAMMA
92-U		-233	23	1.679-	8	1.063- 6	70 3155	50 N,GAMMA
92-U		-233	23	2.530-	8	2.530- 8	46 1313	1 N,GAMMA
N	92-U	-233	23	2.530-	8	2.530- 8	63 1441	1 N,GAMMA
	92-U	-233	23	2.530-	8	2.530- 8	71 3931	1 N,GAMMA
	92-U	-233	23	3.500-	8	1.104- 5	65 1011	659 N,GAMMA
	92-U	-233	23	4.050-	7	2.048- 3	68 1025	2982 N,GAMMA
	92-U	-233	23	3.000-	2	1.000+ 0	62 709	9 N,GAMMA
N	92-U	-233	46	0.000+	0	0.000+ 0	55 1097	1 NU-BAR PROMPT
	92-U	-233	46	0.000+	0	0.000+ 0	55 1099	1 NU-BAR PROMPT
	92-U	-233	46	0.000+	0	0.000+ 0	56 1065	1 NU-BAR PROMPT
	92-U	-233	46	0.000+	0	0.000+ 0	58 1172	1 NU-BAR PROMPT
	92-U	-233	46	0.000+	0	0.000+ 0	59 1092	1 NU-BAR PROMPT
	92-U	-233	46	0.000+	0	0.000+ 0	65 1085	1 NU-BAR PROMPT
	92-U	-233	46	0.000+	0	0.000+ 0	66 1335	1 NU-BAR PROMPT
	92-U	-233	46	0.000+	0	0.000+ 0	67 1417	1 NU-BAR PROMPT

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-312 ***

ZA = 92233

11/04/75

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92233

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	92-U	-233	46	0.000+ 0	1.400- 0	73 4052	21	NU-BAR PROMPT
N	92-U	-233	46	0.000+ 0	3.930+ 0	63 1073	6	NU-BAR PROMPT
N	92-U	-233	46	0.000+ 0	4.000+ 0	65 1074	5	NU-BAR PROMPT
N	92-U	-233	46	1.000- 8	1.115- 4	73 3596	54	NU-BAR PROMPT
N	92-U	-233	46	2.530- 8	2.530- 8	46 1313	1	NU-BAR PROMPT
N	92-U	-233	46	2.530- 8	2.530- 8	55 1099	1	NU-BAR PROMPT
N	92-U	-233	46	2.530- 8	2.140+ 0	72 4027	20	NU-BAR PROMPT
N	92-U	-233	46	7.000- 2	1.560+ 0	72 4021	15	NU-BAR PROMPT
N	92-U	-233	46	8.000- 2	8.000- 2	56 1145	1	NU-BAR PROMPT
N	92-U	-233	46	8.000- 2	7.000- 1	67 226	7	NU-BAR PROMPT
N	92-U	-233	46	3.000- 1	1.870+ 0	70 3879	7	NU-BAR PROMPT
N	92-U	-233	46	5.800- 1	2.580+ 0	63 3878	5	NU-BAR PROMPT
N	92-U	-233	46	4.000+ 0	1.500+ 1	58 1121	2	NU-BAR PROMPT
N	92-U	-233	46	1.400+ 1	1.400+ 1	61 1269	1	NU-BAR PROMPT
N	92-U	-233	46	1.410+ 1	1.410+ 1	56 1321	1	NU-BAR PROMPT
N	92-U	-233	46	1.480+ 1	1.480+ 1	58 1122	1	NU-BAR PROMPT
N	92-U	-233	47	2.500- 8	2.500- 8	45 1461	1	NU-BAR DELAYED
N	92-U	-233	47	2.500- 8	2.500- 8	55 1426	1	NU-BAR DELAYED
N	92-U	-233	47	2.500- 8	2.500- 8	57 1066	1	NU-BAR DELAYED
N	92-U	-233	47	2.500- 8	2.500- 8	71 3159	1	NU-BAR DELAYED
N	92-U	-233	47	5.000- 2	6.600+ 0	72 3495	25	NU-BAR DELAYED
N	92-U	-233	47	2.000+ 0	2.000+ 0	55 1341	1	NU-BAR DELAYED
N	92-U	-233	47	3.100+ 0	1.480+ 1	69 1533	2	NU-BAR DELAYED
N	92-U	-233	47	1.400+ 1	1.400+ 1	61 1410	1	NU-BAR DELAYED
N	92-U	-233	47	1.500+ 1	1.500+ 1	63 2527	1	NU-BAR DELAYED
N	92-U	-233	48	1.040- 8	9.900- 8	56 890	14	ETA
N	92-U	-233	48	1.679- 8	1.063- 6	69 2514	50	ETA
N	92-U	-233	48	1.679- 8	1.063- 6	70 3155	50	ETA
N	92-U	-233	48	2.500- 8	2.500- 8	55 1099	1	ETA
N	92-U	-233	48	2.500- 8	5.700- 8	65 1076	2	ETA
N	92-U	-233	48	2.530- 8	2.530- 8	46 1313	1	ETA
N	92-U	-233	48	2.530- 8	2.530- 8	48 1314	1	ETA
N	92-U	-233	48	2.530- 8	2.530- 8	54 1385	1	ETA
N	92-U	-233	48	2.530- 8	2.530- 8	59 1285	1	ETA
N	92-U	-233	48	2.530- 8	2.530- 8	60 1287	1	ETA
N	92-U	-233	48	2.530- 8	2.530- 8	70 1289	1	ETA
N	92-U	-233	48	2.530- 8	2.530- 8	70 1290	1	ETA
N	92-U	-233	48	2.600- 8	2.600- 8	56 1416	1	ETA
N	92-U	-233	48	3.500- 8	1.104- 5	65 1011	673	ETA
N	92-U	-233	40	4.800- 8	2.160- 6	57 1411	27	ETA
N	92-U	-233	48	9.200- 8	7.300- 6	56 1436	77	ETA
N	92-U	-233	48	9.976- 7	8.207- 4	61 1440	155	ETA
N	92-U	-233	48	2.400- 2	9.000- 1	56 1360	5	ETA
N	92-U	-233	48	1.400+ 1	1.400+ 1	61 1269	1	ETA
N	92-U	-233	48 80	8.800- 9	3.000- 6	55 1212	21	ETA
N	92-U	-233	49	1.100- 9	1.100- 9	58 1280	1	ALPHA
N	92-U	-233	49	1.040- 8	9.900- 8	56 990	14	ALPHA
N	92-U	-233	49	2.500- 8	2.500- 8	55 1099	1	ALPHA
N	92-U	-233	49	2.500- 8	5.700- 8	65 1076	2	ALPHA
N	92-U	-233	49	2.530- 8	2.530- 8	46 1313	1	ALPHA
N	92-U	-233	49	2.530- 8	2.530- 8	48 1314	1	ALPHA
N	92-U	-233	49	2.530- 8	2.530- 8	54 1385	1	ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92233

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92233

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
92-U	-233	49	2.530-	8	2.530- 8	59 1285	1 ALPHA	
92-U	-233	49	2.530-	8	2.530- 8	60 1287	1 ALPHA	
92-U	-233	49	2.530-	8	2.530- 8	62 1289	1 ALPHA	
92-U	-233	49	2.530-	8	2.530- 8	62 1290	1 ALPHA	
92-U	-233	49	2.530-	8	2.530- 8	64 1433	1 ALPHA	
92-U	-233	49	2.530-	8	2.530- 8	66 1077	1 ALPHA	
92-U	-233	49	2.530-	8	2.530- 8	66 1312	1 ALPHA	
92-U	-233	49	2.530-	8	2.530- 8	69 2915	1 ALPHA	
92-U	-233	49	2.600-	8	2.600- 8	56 1416	1 ALPHA	
C	92-U	-233	49	3.500-	8	1.104- 5	65 1011	658 ALPHA
92-U	-233	49	9.200-	8	7.300- 6	56 1436	77 ALPHA	
92-U	-233	49	9.976-	7	8.207- 4	61 1440	155 ALPHA	
92-U	-233	49	1.070-	6	2.160- 6	57 1411	12 ALPHA	
92-U	-233	49	2.966-	4	6.491- 4	67 190	375 ALPHA	
92-U	-233	49	2.400-	2	2.500- 1	56 1360	4 ALPHA	
92-U	-233	49	3.000-	2	1.000+ 0	62 709	9 ALPHA	
N	92-U	-233	52	2.530-	8	2.530- 8	73 3482	1 ELASTIC
92-U	-233	71	2.500-	8	2.500- 8	55 1414	1 ABSORPTION	
92-U	-233	72	2.500-	8	2.500- 8	55 968	1 N.F.	
92-U	-233	72	2.500-	8	2.500- 8	55 1158	1 N.F.	
92-U	-233	72	2.500-	8	2.500- 8	59 1176	2 N.F.	
N	92-U	-233	72	2.500-	8	2.500- 8	55 1400	1 N.F.
92-U	-233	72	7.500-	3	1.500- 1	72 3263	11 N.F.	
92-U	-233	72	3.000-	2	5.000+ 0	57 198	5 N.F.	
92-U	-233	72	2.300-	1	2.300- 1	65 1125	1 N.F.	
92-U	-233	73	2.500-	8	2.500- 8	55 1158	1 N.GAMMA	
92-U	-233	73	2.500-	8	2.500- 8	55 1414	1 N.GAMMA	
92-U	-233	73	2.500-	8	2.500- 8	63 1441	1 N.GAMMA	
N	92-U	-233	96	2.530-	8	2.530- 8	67 1417	1 NU-BAR PROMPT
92-U	-233	96	1.400+	0	1.670+ 0	58 1161	2 NU-BAR PROMPT	
92-U	-233	96	2.000+	0	2.000+ 0	57 1120	1 NU-BAR PROMPT	
92-U	-233	97	2.000+	0	2.000+ 0	55 1427	1 NU-BAR DELAYED	
92-U	-233	97	2.000+	0	2.000+ 0	57 1066	1 NU-BAR DELAYED	
92-U	-233	98	2.500-	8	2.500- 8	55 1316	1 ETA	
92-U	-233	98	2.500-	8	2.500- 8	55 1317	1 ETA	
92-U	-233	98	2.500-	8	2.500- 8	58 1172	1 ETA	
92-U	-233	98 80	3.300-	7	6.900- 5	55 1159	5 ETA	
92-U	-233	99	2.500-	8	2.500- 8	64 1433	1 ALPHA	
92-U	-233	99	2.500-	8	2.500- 8	66 1077	1 ALPHA	
92-U	-233	99	2.500-	8	2.500- 8	67 1442	1 ALPHA	
92-U	-233	222 80	2.500-	8	2.500- 8	55 267	22 N.F.	
92-U	-233	222 80	2.500-	8	2.500- 8	56 1200	16 N.F.	
C	92-U	-233	522	4.140-	7	1.222- 3	70 3205	35 N.F.
C	92-U	-233	522	4.500-	7	1.460+ 1	64 1175	1 N.F.
C	92-U	-233	522	5.000-	7	1.500+ 1	55 1548	1 N.F.
C	92-U	-233	522	5.000-	7	1.500+ 1	67 1442	1 N.F.
C	92-U	-233	522	5.000-	7	1.500+ 1	68 2085	3 N.F.
N	92-U	-233	522	5.000-	7	1.400+ 1	64 1278	1 N.F.
N	92-U	-233	522	5.000-	7	1.460+ 1	65 1298	1 N.F.
N	92-U	-233	522	5.000-	7	1.500+ 1	71 3270	2 N.F.
C	92-U	-233	523	5.000-	7	1.500+ 1	67 1442	1 N.GAMMA
C	92-U	-233	523	5.000-	7	1.500+ 1	68 2086	3 N.GAMMA
								SPECTRUM AVERAGED CROSS SECTION
								SPECTRUM AVERAGED CROSS SECTION
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								SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 92233

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92233

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	92-U -233	523	5.000-	7 1.400+	1 64 1278	1	N.GAMMA RESONANCE INTEGRAL
N	92-U -233	523	5.000-	7 1.500+	1 71 3270	2	N.GAMMA RESONANCE INTEGRAL
C	92-U -233	523	5.400-	7 1.500+	1 63 1441	1	N.GAMMA RESONANCE INTEGRAL
C	92-U -233	549	5.000-	7 1.500+	1 67 1442	1	ALPHA RESONANCE INTEGRAL
C	92-U -233	549	5.000-	7 1.500+	1 68 2086	2	ALPHA RESONANCE INTEGRAL
N	92-U -233	549	5.000-	7 1.400+	1 64 1278	1	ALPHA RESONANCE INTEGRAL
C	92-U -233	549	5.400-	7 1.500+	1 63 1441	1	ALPHA RESONANCE INTEGRAL
92-U	-233	872	2.530-	8 2.530-	8 70 2915	1	N.F. CROSS SECTION RATIO
92-U	-233	872	3.250-	8 7.750-	0 66 1173	587	N.F. CROSS SECTION RATIO
92-U	-233	872	2.400-	4 2.400-	2 70 2526	26	N.F. CROSS SECTION RATIO
N	92-U -233	872	1.035-	3 2.848+	1 75 3619	215	N.F. CROSS SECTION RATIO
92-U	-233	872	5.200-	3 1.015+	0 68 2599	49	N.F. CROSS SECTION RATIO
92-U	-233	872	3.000-	2 3.000+	0 57 218	43	N.F. CROSS SECTION RATIO
92-U	-233	872	4.000-	2 5.050-	1 65 1091	6	N.F. CROSS SECTION RATIO
N	92-U -233	872	1.440-	1 7.372+	0 71 3462	20	N.F. CROSS SECTION RATIO
92-U	-233	872	3.500-	1 2.570+	0 68 2195	48	N.F. CROSS SECTION RATIO
92-U	-233	872	1.000+	0 1.410+	1 64 1090	4	N.F. CROSS SECTION RATIO
92-U	-233	872	1.400+	1 1.400+	1 50 1413	1	N.F. CROSS SECTION RATIO
N	92-U -233	896	0.000+	0 1.400+	0 73 4052	14	NU-BAR PROMPT CROSS SECTION RATIO
92-U	-233	896	2.500-	8 2.500-	8 55 1098	1	NU-BAR PROMPT CROSS SECTION RATIO
92-U	-233	896	2.500-	8 2.500-	8 55 1099	1	NU-BAR PROMPT CROSS SECTION RATIO
92-U	-233	896	2.500-	8 2.500-	8 56 1065	1	NU-BAR PROMPT CROSS SECTION RATIO
92-U	-233	896	2.500-	8 2.500-	8 58 1063	1	NU-BAR PROMPT CROSS SECTION RATIO
92-U	-233	896	2.500-	8 2.500-	8 59 1092	1	NU-BAR PROMPT CROSS SECTION RATIO
92-U	-233	896	2.500-	8 2.500-	8 65 1085	1	NU-BAR PROMPT CROSS SECTION RATIO
92-U	-233	896	2.530-	8 2.530-	8 58 1172	1	NU-BAR PROMPT CROSS SECTION RATIO
92-U	-233	897	2.500-	8 2.500-	8 45 1461	1	NU-BAR DELAYED CROSS SECTION RATIO
N	92-U -233	897	2.530-	8 2.530-	8 69 3958	1	NU-BAR DELAYED CROSS SECTION RATIO
92-U	-233	897	2.000+	0 2.000+	0 55 1341	1	NU-BAR DELAYED CROSS SECTION RATIO
92-U	-233	898	2.500-	8 2.500-	8 65 1099	1	ETA CROSS SECTION RATIO
92-U	-233		1.400+	1 1.400+	1 58 1339	2	NUCLEAR TEMPERATURE AVERAGE RESONANCE PARAMETERS
C	92-U -233		-5.900-	7 1.037-	5 67 979	2	AVERAGE RESONANCE PARAMETERS
C	92-U -233		0.000+	0 2.000-	5 57 1209	1	AVERAGE RESONANCE PARAMETERS
C	92-U -233		0.000+	0 2.000-	5 60 1249	1	AVERAGE RESONANCE PARAMETERS
C	92-U -233		0.000+	0 3.000-	5 70 2205	2	AVERAGE RESONANCE PARAMETERS
N	92-U -233		0.000+	0 5.130-	5 68 549	3	AVERAGE RESONANCE PARAMETERS
C	92-U -233		0.000+	0 2.000-	3 58 1191	1	AVERAGE RESONANCE PARAMETERS
N	92-U -233		1.700-	6 3.000-	5 65 1242	3	AVERAGE RESONANCE PARAMETERS
N	92-U -233		2.500-	6 3.000-	5 70 3601	3	AVERAGE RESONANCE PARAMETERS
N	92-U -233		6.900-	6 1.240-	4 74 3920	3	AVERAGE RESONANCE PARAMETERS
C	92-U -233		2.000-	5 5.000-	5 67 1190	2	AVERAGE RESONANCE PARAMETERS
92-U	-233		-5.000-	6 4.700-	6 56 1437	14	RESONANCE PARAMETERS
92-U	-233		-1.001-	6 3.548-	5 60 1239	56	RESONANCE PARAMETERS
92-U	-233		-5.900-	7 1.037-	5 67 979	42	RESONANCE PARAMETERS
92-U	-233		-5.000-	7 2.290-	6 62 1224	15	RESONANCE PARAMETERS
92-U	-233		1.000-	7 6.770-	6 60 1220	21	RESONANCE PARAMETERS
92-U	-233		1.950-	7 1.047-	5 60 1250	48	RESONANCE PARAMETERS
92-U	-233		1.450-	6 1.220-	5 55 1212	20	RESONANCE PARAMETERS
92-U	-233		1.453-	6 6.130-	5 68 549	159	RESONANCE PARAMETERS
92-U	-233		1.470-	6 1.900-	5 58 1248	16	RESONANCE PARAMETERS
92-U	-233		1.550-	6 2.954-	5 71 3327	36	RESONANCE PARAMETERS
92-U	-233		1.590-	6 3.076-	5 68 1530	70	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92233

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92233

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
92-U	-233		1.700-	6 2.100-	5 55 985	9	RESONANCE PARAMETERS	
92-U	-233		1.775-	5 9.810-	5 55 902	38	RESONANCE PARAMETERS	
92-U	-233		1.780-	6 1.100-	5 56 1409	6	RESONANCE PARAMETERS	
92-U	-233		1.785-	6 1.040-	5 55 1243	25	RESONANCE PARAMETERS	
92-U	-233		1.800-	6 1.200-	5 55 968	6	RESONANCE PARAMETERS	
92-U	-233		1.820-	6 1.600-	5 55 956	8	RESONANCE PARAMETERS	
92-U	-233		1.823-	6 2.954-	5 65 1242	148	RESONANCE PARAMETERS	
C	92-U	-233	2.800-	6 5.215-	5 70 2205	143	RESONANCE PARAMETERS	
N	92-U	-237	2.800-	6 5.215-	5 70 3601	216	RESONANCE PARAMETERS	
92-U	-233		3.210-	6 1.900-	5 55 520	33	RESONANCE PARAMETERS	
N	92-U	-233	5.890-	6 1.241-	4 74 3920	473	RESONANCE PARAMETERS	
92-U	-233		6.080-	6 1.100-	4 57 1209	83	RESONANCE PARAMETERS	
92-U	-233		2.058-	5 6.272-	5 67 190	136	RESONANCE PARAMETERS	
92-U	-233		3.123-	5 3.805-	5 64 1241	27	RESONANCE PARAMETERS	
C	92-U	-234	1	1.020-	8 2.030-	5 58 436	97	TOTAL
92-U	-234	1	1.990-	8 4.440-	8 59 948	25	TOTAL	
92-U	-234	1	2.700-	6 6.900-	4 58 1116	250	TOTAL	
92-U	-234	2	2.530-	8 2.530-	8 58 436	1	ELASTIC	
92-U	-234	21	2.530-	8 2.530-	8 58 436	1	ABSORPTION	
92-U	-234	22	4.180-	6 5.680-	6 60 1197	18	N,F	
92-U	-234	22	2.400-	2 2.400-	2 65 1072	1	N,F	
92-U	-234	22	4.000-	2 5.050-	1 65 1091	5	N,F	
92-U	-234	22	1.360-	1 1.326+	0 62 293	73	N,F	
92-U	-234	22	3.000-	1 1.500+	0 57 18	21	N,F	
92-U	-234	22	1.000+	0 1.410+	1 64 1090	4	N,F	
92-U	-234	22	1.348+	0 4.054+	0 58 293	90	N,F	
92-U	-234	22	1.300+	1 1.800+	1 62 1089	5	N,F	
92-U	-234	23	2.530-	8 2.530-	8 70 2915	1	N,GAMMA	
C	92-U	-234	46	9.900-	1 4.000+	0 65 1074	4	NU-BAR PROMPT
92-U	-234	71	2.500-	8 2.500-	8 52 1095	1	ABSORPTION	
92-U	-234	71	2.500-	8 2.500-	8 55 1158	1	ABSORPTION	
92-U	-234	71	2.500-	8 2.500-	8 57 1177	1	ABSORPTION	
N	92-U	-234	73	2.530-	8 2.530-	8 71 3922	2	N,GAMMA
92-U	-234	872	4.000-	2 5.050-	1 65 1091	5	N,F	
92-U	-234	872	5.000-	2 1.326+	0 62 293	74	N,F	
N	92-U	-234	872	1.257-	1 3.282+	1 75 3619	74	N,F
92-U	-234	872	1.000+	0 1.410+	1 64 1090	4	N,F	
C	92-U	-234		0.000+	0 1.550-	4 58 1116	3	AVERAGE RESONANCE PARAMETERS
C	92-U	-234		0.000+	0 2.000-	3 58 1191	1	AVERAGE RESONANCE PARAMETERS
92-U	-234		5.000-	6 2.100-	4 69 2530	2	AVERAGE RESONANCE PARAMETERS	
92-U	-234		-2.000-	6 5.190-	6 58 436	6	RESONANCE PARAMETERS	
92-U	-234		-1.310-	6 -1.310-	6 61 1455	2	RESONANCE PARAMETERS	
92-U	-234		5.180-	6 5.180-	6 57 1209	4	RESONANCE PARAMETERS	
92-U	-234		5.190-	6 5.190-	6 71 1483	1	RESONANCE PARAMETERS	
92-U	-234		5.190-	6 8.176-	4 69 2530	75	RESONANCE PARAMETERS	
92-U	-234		5.190-	6 1.394-	2 68 2087	51	RESONANCE PARAMETERS	
N	92-U	-234		5.150-	6 5.190-	6 70 3402	1	RESONANCE PARAMETERS
92-U	-234		5.200-	6 5.200-	6 60 1197	1	RESONANCE PARAMETERS	
92-U	-234		5.200-	6 5.200-	6 61 1208	1	RESONANCE PARAMETERS	
92-U	-234		5.200-	6 3.690-	4 58 1116	41	RESONANCE PARAMETERS	
92-U	-235	1	8.180-	10 8.180-	8 59 1286	31	TOTAL	
92-U	-235	1	1.730-	9 1.620-	7 55 1460	55	TOTAL	

TARGET	CODE	S	E-MIN-MEV	F-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92235

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92235

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
N	92-U	-235	1	2.530-	9 4.730-	9 58 1196	10	TOTAL	
	92-U	-235	1	4.560-	9 5.610-	7 61 1332	31	TOTAL	
	92-U	-235	1	4.700-	9 1.921-	7 57 918	56	TOTAL	
	92-U	-235	1	5.700-	9 5.800-	7 55 902	56	TOTAL	
	92-U	-235	1	1.000-	8 8.600-	5 55 965	132	TOTAL	
	92-U	-235	1	1.190-	8 4.800-	2 58 1222	223	TOTAL	
	92-U	-235	1	1.720-	8 9.900-	7 58 1463	2	TOTAL	
	92-U	-235	1	1.810-	8 1.589-	7 60 935	41	TOTAL	
	92-U	-235	1	2.070-	8 8.030-	8 60 1030	115	TOTAL	
	92-U	-235	1	2.340-	8 2.210-	6 62 1359	130	TOTAL	
	92-U	-235	1	2.500-	8 2.500-	8 54 1300	1	TOTAL	
	92-U	-235	1	2.530-	8 2.530-	8 53 1384	1	TOTAL	
	92-U	-235	1	2.530-	8 2.530-	8 54 1279	1	TOTAL	
	92-U	-235	1	3.500-	8 2.001-	4 65 1011	2418	TOTAL	
	92-U	-235	1	4.250-	8 9.390-	7 73 4074	27	TOTAL	
	92-U	-235	1	8.770-	8 1.001-	5 58 406	461	TOTAL	
	92-U	-235	1	4.500-	6 3.625-	5 56 1037	221	TOTAL	
	92-U	-235	1	1.105-	5 9.790-	5 56 1038	458	TOTAL	
	C	92-U	-235	1	1.739-	5 3.459-	4 65 814	7405	TOTAL
		92-U	-235	1	1.500+	4 9.500-	1 66 1328	57	TOTAL
92-U		-235	1	2.130+	4 7.856-	3 58 5	194	TOTAL	
92-U		-235	1	2.684+	4 7.585-	2 64 4	487	TOTAL	
92-U		-235	1	6.550+	4 1.550-	1 54 788	134	TOTAL	
92-U		-235	1	7.242+	4 9.974-	3 66 1466	3981	TOTAL	
92-U		-235	1	1.000-	3 1.600-	1 54 6	2	TOTAL	
92-U		-235	1	2.000-	3 2.000-	3 2 69 2905	1	TOTAL	
92-U		-235	1	5.823-	3 2.697-	1 71 3643	4093	TOTAL	
92-U		-235	1	4.050-	2 2.050+	1 52 951	71	TOTAL	
92-U		-235	1	1.070-	1 5.990+	0 73 3945	388	TOTAL	
92-U		-235	1	1.905-	1 1.277+	2 66 1514	1934	TOTAL	
92-U		-235	1	4.960-	1 1.517+	1 73 3255	1680	TOTAL	
92-U		-235	1	5.000+	1 9.500-	1 60 696	4	TOTAL	
92-U		-235	1	5.067+	1 9.916+	0 73 3341	888	TOTAL	
92-U		-235	1	8.063+	1 1.497+	0 64 1028	69	TOTAL	
92-U		-235	1	1.500+	0 2.300+	0 72 3788	3	TOTAL	
92-U		-235	1	1.900+	0 8.000+	0 61 581	16	TOTAL	
92-U		-235	1	2.253+	0 1.490+	1 67 750	486	TOTAL	
N		92-U	-235	1	7.050+	0 1.425+	1 57 22	5	TOTAL
	92-U	-235	1	1.730+	1 2.690+	1 60 673	4	TOTAL	
	92-U	-235	1	7.490-	6 7.243-	4 64 963	5769	TOTAL	
	92-U	-235	2	1.900-	7 2.900-	6 55 1329	33	ELASTIC	
	92-U	-235	2	2.710-	7 7.740-	6 58 395	7	ELASTIC	
	92-U	-235	2	6.500-	7 9.450-	5 2 67 1493	216	ELASTIC	
	92-U	-235	2	1.030-	6 2.990-	5 68 1530	234	ELASTIC	
	92-U	-235	2	7.388-	6 1.907+	4 66 3649	1364	ELASTIC	
	92-U	-235	2	3.000-	1 1.495+	0 64 1273	28	ELASTIC	
	92-U	-235	2	4.000-	1 6.000-	1 66 1331	24	ELASTIC	
	92-U	-235	2	5.000-	1 1.000+	0 55 149	2	ELASTIC	
	92-U	-235	2	5.000-	1 1.000+	0 57 444	2	ELASTIC	
	92-U	-235	2	1.500+	0 2.300+	0 72 3788	3	ELASTIC	
	92-U	-235	3	5.000-	1 1.000+	0 56 149	2	NONELASTIC	
	92-U	-235	3	9.000-	1 9.000-	1 61 754	1	NONELASTIC	

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92235

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92235

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	92-U	-235	3	1.000+ 0	2.530+ 0	56 151	2	NONELASTIC
	92-U	-235	3	3.000+ 0	3.000+ 0	55 1448	1	NONELASTIC
	92-U	-235	3	4.000+ 0	4.500+ 0	55 1383	2	NONELASTIC
	92-U	-235	3	8.100+ 0	8.100+ 0	65 1228	1	NONELASTIC
	92-U	-235	3	8.100+ 0	1.410+ 1	58 592	3	NONELASTIC
	92-U	-235	3	1.340+ 1	1.870+ 1	61 706	4	NONELASTIC
	92-U	-235	3	2.500+ 1	1.000+ 0	57 444	4	NONELASTIC
N	92-U	-235	5	5.500+ 1	2.000+ 0	59 77	3	TOTAL SCATTERING
	92-U	-235	11	9.000+ 1	9.000+ 1	61 754	1	N,N'
N	92-U	-235	11	1.500+ 0	2.300+ 0	72 3788	3	N,N'
	92-U	-235	11	2.000+ 0	4.000+ 0	69 2592	3	N,N'
	92-U	-235	11	4.000+ 0	7.500+ 0	69 2916	3	N,N'
N	92-U	-235	11	1.500+ 0	2.300+ 0	72 3788	15	N,N'
	92-U	-235	11	1.300+ 1	1.500+ 0	66 1377	54	N,N'
C	92-U	-235	11	5.500+ 1	2.000+ 0	59 77	7	N,N'
N	92-U	-235	11	1.500+ 0	2.300+ 0	72 3788	15	N,N'
	92-U	-235	12	7.000+ 0	8.000+ 0	2 69 2092	2	N,2N
	92-U	-235	21	3.000+ 9	1.630+ 7	53 1460	33	ABSORPTION
	92-U	-235	21	2.340+ 8	2.210+ 6	62 1359	131	ABSORPTION
	92-U	-235	21	2.500+ 8	2.500+ 8	54 1300	1	ABSORPTION
	92-U	-235	21	2.500+ 8	2.500+ 8	55 1317	1	ABSORPTION
	92-U	-235	21	2.530+ 8	2.530+ 8	46 1313	1	ABSORPTION
	92-U	-235	21	2.530+ 8	2.530+ 8	54 1279	1	ABSORPTION
N	92-U	-235	21	8.934+ 7	1.746+ 3	75 3263	1702	ABSORPTION
	92-U	-235	21	1.025+ 6	1.210+ 6	58 1463	9	ABSORPTION
	92-U	-235	21	4.400+ 3	4.880+ 2	56 16	6	ABSORPTION
	92-U	-235	21	2.400+ 2	2.400+ 2	65 1364	1	ABSORPTION
	92-U	-235	21	2.400+ 2	8.800+ 1	58 1338	3	ABSORPTION
	92-U	-235	22	1.450+ 9	1.001+ 4	55 968	196	N,F
	92-U	-235	22	2.860+ 9	9.500+ 7	57 918	82	N,F
	92-U	-235	22	3.800+ 9	9.480+ 7	58 1021	31	N,F
	92-U	-235	22	5.300+ 9	1.020+ 4	55 250	325	N,F
	92-U	-235	22	1.098+ 8	1.186+ 7	61 1281	26	N,F
	92-U	-235	22	1.110+ 8	4.020+ 2	58 1222	338	N,F
	92-U	-235	22	1.170+ 8	9.700+ 4	55 956	209	N,F
	92-U	-235	22	1.340+ 8	7.975+ 5	66 1013	1592	N,F
N	92-U	-235	22	1.720+ 8	1.528+ 7	72 3895	80	N,F
N	92-U	-235	22	2.018+ 8	1.098+ 5	68 3640	870	N,F
	92-U	-235	22	2.530+ 8	2.530+ 8	56 1333	1	N,F
	92-U	-235	22	2.530+ 8	2.530+ 8	58 1184	1	N,F
	92-U	-235	22	2.530+ 8	2.530+ 8	58 1389	1	N,F
	92-U	-235	22	2.530+ 8	2.530+ 8	59 1176	1	N,F
	92-U	-235	22	2.530+ 8	2.530+ 8	59 1302	1	N,F
	92-U	-235	22	2.530+ 8	2.530+ 8	65 1214	1	N,F
	92-U	-235	22	2.530+ 8	2.530+ 8	68 209	1	N,F
	92-U	-235	22	2.530+ 8	2.530+ 8	68 2105	1	N,F
	92-U	-235	22	2.530+ 8	6.260+ 8	65 1372	3	N,F
N	92-U	-235	22	2.530+ 8	2.530+ 8	68 3646	1	N,F
N	92-U	-235	22	2.530+ 8	2.530+ 8	72 3291	1	N,F
N	92-U	-235	22	2.530+ 8	2.530+ 8	73 3291	1	N,F
	92-U	-235	22	3.050+ 8	2.015+ 5	64 966	731	N,F
	92-L	-235	22	3.500+ 8	2.001+ 4	65 1011	2421	N,F

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92235

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92235

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U	-235	22	1.001- 7	1.000- 5	58 406	278	N,F
92-U	-235	22	2.196- 7	3.062- 2	65 1292	2913	N,F
92-U	-235	22	3.788- 7	5.466- 5	64 963	1496	N,F
92-U	-235	22	4.043- 7	1.029- 2	67 1025	5724	N,F
92-U	-235	22	8.243- 7	1.686- 4	66 1293	1860	N,F
N	92-U	-235	8.934- 7	1.746- 3	75 3263	1702	N,F
92-U	-235	22	5.320- 6	1.970- 3	56 148	447	N,F
N	92-U	-235	5.999- 6	3.006- 3	68 1544	9763	N,F
92-U	-235	22	7.208- 6	2.100- 2	60 1017	2732	N,F
92-U	-235	22	8.050- 6	1.995- 4	72 3262	2430	N,F
92-U	-235	22	1.001- 5	2.840+ 0	70 943	3600	N,F
N	92-U	-235	1.750- 5	3.011- 2	73 3125	8077	N,F
C	92-U	-235	2.000- 5	9.993- 2	71 3052	6845	N,F
92-U	-235	22	2.004- 5	1.007- 3	69 2394	2801	N,F
92-U	-235	22	2.005- 5	9.779- 1	66 1061	3090	N,F
N	92-U	-235	1.500- 4	6.650- 1	75 3951	40	N,F
N	92-U	-235	2.000- 4	3.460- 2	70 3315	26	N,F
92-U	-235	22	7.200- 4	4.400- 2	54 245	28	N,F
N	92-U	-235	1.013- 3	1.004+ 0	75 3899	304	N,F
92-U	-235	22	1.480- 3	9.600- 2	70 2912	92	N,F
92-U	-235	22	2.000- 3	2.000- 3	69 2096	1	N,F
92-U	-235	22	3.400- 3	7.800- 1	59 612	24	N,F
N	92-U	-235	1.000- 2	2.993- 2	71 3933	239	N,F
92-U	-235	22	1.002- 2	1.191- 2	66 1025	20	N,F
92-U	-235	22	2.080- 2	6.900+ 0	57 18	59	N,F
92-U	-235	22	2.400- 2	2.400- 2	85 1072	1	N,F
92-U	-235	22	3.000- 2	6.400- 2	67 1388	2	N,F
92-U	-235	22	3.000- 2	1.470+ 0	68 912	14	N,F
92-U	-235	22	3.000- 2	3.000+ 0	57 218	24	N,F
N	92-U	-235	3.450- 2	3.500+ 0	73 3467	138	N,F
92-U	-235	22	4.000- 2	1.410+ 1	65 1293	12	N,F
92-U	-235	22	1.500- 1	3.360- 1	66 1304	10	N,F
N	92-U	-235	2.650- 1	2.650- 1	75 3949	1	N,F
92-U	-235	22	3.000- 1	2.620+ 0	62 993	53	N,F
92-U	-235	22	3.600- 1	6.550- 1	66 1331	56	N,F
92-U	-235	22	4.030- 1	1.620+ 0	57 155	14	N,F
92-U	-235	22	5.520- 1	6.440- 1	70 3241	2	N,F
N	92-U	-235	7.540- 1	4.129+ 0	75 3952	27	N,F
N	92-U	-235	9.640- 1	9.640- 1	75 3499	1	N,F
N	92-U	-235	1.000+ 0	6.000+ 0	73 3947	41	N,F
92-U	-235	22	1.020+ 0	3.850+ 0	55 1024	28	N,F
N	92-U	-235	1.500+ 0	2.300+ 0	72 3793	3	N,F
92-U	-235	22	2.180+ 0	8.070+ 0	67 1500	14	N,F
92-U	-235	22	2.220+ 0	2.163+ 1	68 352	27	N,F
N	92-U	-235	2.500+ 0	2.500+ 0	73 4085	1	N,F
92-U	-235	22	2.900+ 0	8.300+ 0	58 1234	10	N,F
92-U	-235	22	6.100+ 0	2.570+ 1	63 983	30	N,F
92-U	-235	22	1.060+ 1	2.130+ 1	60 740	16	N,F
92-U	-235	22	1.320+ 1	1.940+ 1	61 744	13	N,F
92-U	-235	22	1.400+ 1	1.400+ 1	50 1413	1	N,F
92-U	-235	22	1.410+ 1	1.410+ 1	56 771	1	N,F
N	92-U	-235	1.410+ 1	1.410+ 1	70 3867	1	N,F

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 92235

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92235

TARGET	CODE	S	E-MIN-KEV	E-MAX-KEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	92-U-235	22	1.460+1	1.460+1	5R 608	1	N F
N	92-U-235	22	1.460+1	1.460+1	75 3901	1	N F
N	92-U-235	22	1.460+1	1.460+1	55 1461	2	N F
N	92-U-235	22	5.200-5	1.920+2	55 2930	23	N F
N	92-U-235	22	7.530-1	2.010+1	75 3621	89	N F
N	92-U-235	22	2.530-8	2.010+1	60 1360	69	N F
C	92-U-235	23	3.500-6	3.020+3	65 1036	2393	N-GAMMA
C	92-U-235	23	3.500-6	3.020+3	67 1035	2393	N-GAMMA
C	92-U-235	23	4.043-7	3.020+3	72 1262	5342	N-GAMMA
C	92-U-235	23	8.050-6	1.995+4	2408	2408	N-GAMMA
C	92-U-235	23	1.230-2	6.900-1	64 1351	26	N-GAMMA
C	92-U-235	23	1.770-2	6.900-1	66 1342	41	N-GAMMA
C	92-U-235	23	2.400-2	2.400-2	55 1342	4	N-GAMMA
C	92-U-235	23	2.400-2	6.800-1	58 1338	3	N-GAMMA
C	92-U-235	23	2.400-2	6.800-1	55 1360	5	N-GAMMA
C	92-U-235	23	3.000-2	1.000+0	62 709	9	N-GAMMA
C	92-U-235	23	1.800-1	1.000+0	58 1301	9	N-GAMMA
C	92-U-235	23	1.090+0	1.480+1	65 1027	6	N F
C	92-U-235	24	1.450+1	1.450+1	59 550	1	N F
N	92-U-235	24	6.000-5	6.000-5	66 3649	1	POTENTIAL SCATTERING
N	92-U-235	45	0.000+0	0.000+0	56 1085	1	NU-BAR PROMPT
N	92-U-235	45	0.000+0	0.000+0	64 1153	1	NU-BAR PROMPT
N	92-U-235	46	0.000+0	0.000+0	55 1085	1	NU-BAR PROMPT
N	92-U-235	46	0.000+0	0.000+0	66 1071	1	NU-BAR PROMPT
N	92-U-235	46	0.000+0	0.000+0	66 1323	1	NU-BAR PROMPT
N	92-U-235	46	0.000+0	0.000+0	70 3415	13	NU-BAR PROMPT
N	92-U-235	46	0.000+0	1.515+0	70 3292	13	NU-BAR PROMPT
N	92-U-235	46	0.000+0	1.900+0	70 3278	15	NU-BAR PROMPT
N	92-U-235	46	0.000+0	1.450+1	63 1073	7	NU-BAR PROMPT
N	92-U-235	46	0.000+0	1.460+1	55 1319	4	NU-BAR PROMPT
N	92-U-235	46	1.200-8	2.640-5	73 3536	37	NU-BAR PROMPT
N	92-U-235	46	2.530-8	2.530-8	44 1318	1	NU-BAR PROMPT
N	92-U-235	46	2.530-8	2.530-8	58 1320	1	NU-BAR PROMPT
N	92-U-235	46	3.000-2	1.760+0	62 1154	6	NU-BAR PROMPT
N	92-U-235	46	4.000-2	1.000+0	67 1327	18	NU-BAR PROMPT
N	92-U-235	46	4.000-2	7.960+0	85 1074	18	NU-BAR PROMPT
N	92-U-235	46	7.500-2	1.420+1	61 1068	3	NU-BAR PROMPT
N	92-U-235	46	8.000-2	8.000-2	56 1145	1	NU-BAR PROMPT
N	92-U-235	46	8.000-2	7.000-1	66 4082	7	NU-BAR PROMPT
N	92-U-235	46	8.000-2	9.900-1	67 226	13	NU-BAR PROMPT
N	92-U-235	46	1.000-1	2.570+0	63 3878	9	NU-BAR PROMPT
N	92-U-235	46	1.200-1	1.690+0	69 4054	10	NU-BAR PROMPT
N	92-U-235	46	2.100-1	1.580+0	61 1334	4	NU-BAR PROMPT
N	92-U-235	46	2.250-1	2.279+0	69 211	75	NU-BAR PROMPT
N	92-U-235	46	3.700-1	1.363+0	75 3904	22	NU-BAR PROMPT
N	92-U-235	46	3.700-1	3.250+0	67 219	14	NU-BAR PROMPT
N	92-U-235	46	6.500-1	2.130+0	69 3281	21	NU-BAR PROMPT
N	92-U-235	46	6.500-1	6.600+0	70 3314	37	NU-BAR PROMPT
N	92-U-235	46	7.000-0	7.000-0	55 1374	1	NU-BAR PROMPT
N	92-U-235	46	1.000+0	1.000+0	55 1373	1	NU-BAR PROMPT
N	92-U-235	46	1.250+0	4.800+0	57 1190	2	NU-BAR PROMPT
N	92-U-235	46	1.360+0	1.479+1	67 211	27	NU-BAR PROMPT

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ZA = 92235

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92235

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U	-235	46	2.500+ 0	1.410+ 1	56 1321	2	NU-BAR PROMPT
92-U	-235	46	4.000+ 0	4.500+ 0	55 1383	2	NU-BAR PROMPT
92-U	-235	46	4.000+ 0	1.500+ 1	58 1121	2	NU-BAR PROMPT
92-U	-235	46	7.000+ 0	8.000+ 0	69 2092	2	NU-BAR PROMPT
92-U	-235	46	1.400+ 1	1.400+ 1	58 1324	1	NU-BAR PROMPT
92-U	-235	46	1.430+ 1	1.430+ 1	60 1325	1	NU-BAR PROMPT
92-U	-235	46	1.480+ 1	1.480+ 1	58 1322	1	NU-BAR PROMPT
N 92-U	-235	46 80	8.000- 2	9.900- 1	67 226	21	NU-BAR PROMPT
92-U	-235	47	2.500- 8	2.500- 8	48 1421	1	NU-BAR DELAYED
92-U	-235	47	2.500- 8	2.500- 8	57 1066	1	NU-BAR DELAYED
92-U	-235	47	2.500- 8	2.500- 8	69 2899	1	NU-BAR DELAYED
N 92-U	-235	47	2.500- 8	2.500- 8	71 3159	1	NU-BAR DELAYED
N 92-U	-235	47	5.000- 2	6.700+ 0	72 3495	27	NU-BAR DELAYED
92-U	-235	47	2.400+ 0	1.500+ 1	59 1425	3	NU-BAR DELAYED
92-U	-235	47	3.100+ 0	1.490+ 1	69 1533	2	NU-BAR DELAYED
92-U	-235	47	1.400+ 1	1.400+ 1	60 1410	1	NU-BAR DELAYED
92-U	-235	48	6.000- 9	5.000- 8	56 1390	8	ETA
92-U	-235	48	1.020- 8	1.690- 7	56 990	20	ETA
92-U	-235	48	1.410- 8	9.280- 6	55 1022	83	ETA
92-U	-235	48	2.500- 8	2.500- 8	65 1076	1	ETA
92-U	-235	48	2.530- 8	2.530- 8	46 1313	1	ETA
92-U	-235	48	2.530- 8	2.530- 8	54 1385	1	ETA
92-U	-235	48	2.530- 8	2.530- 8	59 1285	1	ETA
92-U	-235	48	2.530- 8	2.530- 8	60 1287	1	ETA
92-U	-235	48	2.530- 8	2.530- 8	70 1290	1	ETA
92-U	-235	48	3.020- 8	1.245- 6	64 955	58	ETA
92-U	-235	48	3.500- 8	2.001- 4	65 1011	2422	ETA
92-U	-235	48	2.400- 2	2.400- 2	65 1342	1	ETA
92-U	-235	48	2.400- 2	8.800- 1	58 1338	3	ETA
92-U	-235	48	2.400- 2	5.000- 1	56 1360	5	ETA
92-U	-235	48	1.400+ 1	1.400+ 1	58 1324	1	ETA
92-U	-235	48 80	1.020- 8	1.200- 6	55 1212	17	ETA
92-U	-235	49	1.100- 9	1.100- 9	58 1280	1	ALPHA
92-U	-235	49	2.900- 9	2.900- 9	59 1302	1	ALPHA
92-U	-235	49	3.800- 9	4.920- 7	58 1021	27	ALPHA
92-U	-235	49	3.000- 9	5.000- 8	58 1390	8	ALPHA
92-U	-235	49	1.020- 8	1.690- 7	56 990	20	ALPHA
92-U	-235	49	1.410- 8	9.280- 6	55 1022	79	ALPHA
92-U	-235	49	2.500- 8	2.500- 8	64 1282	1	ALPHA
92-U	-235	49	2.500- 8	2.500- 8	65 1076	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	46 1313	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	54 1385	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	59 1285	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	59 1452	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	60 1287	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	62 1007	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	62 1290	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	66 1077	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	66 1311	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	66 1312	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	67 1539	1	ALPHA
92-U	-235	49	2.530- 8	2.530- 8	69 2915	1	ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92235

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	92-U -235	49	3.000- 8	4.500- 7	55 1381	21	ALPHA
	92-U -235	49	3.020- 8	1.999- 5	64 956	497	ALPHA
C	92-U -235	49	3.500- 6	1.992- 4	63 1011	2336	ALPHA
	92-U -235	49	2.000- 3	2.450- 2	74 4043	2	ALPHA
N	92-U -235	49	1.230- 2	6.903- 1	64 1297	26	ALPHA
	92-U -235	49	1.240- 2	1.100+ 0	71 3318	47	ALPHA
	92-U -235	49	1.770- 2	6.000- 1	66 1025	41	ALPHA
	92-U -235	49	2.400- 2	2.400- 2	65 1342	1	ALPHA
	92-U -235	49	2.400- 2	8.800- 1	59 1338	3	ALPHA
	92-U -235	49	2.400- 2	9.000- 1	56 1360	5	ALPHA
	92-U -235	49	3.000- 2	1.000+ 0	62 709	9	ALPHA
	92-U -235	49	1.800- 1	1.000+ 0	58 1301	9	ALPHA
	92-U -235	52	2.500- 8	2.500- 8	51 1303	1	ELASTIC
C	92-U -235	71	1.100- 8	1.975- 1	75 3263	274	ABSORPTION
	92-U -235	71	1.500- 4	1.500- 1	72 3263	28	ABSORPTION
C	92-U -235	71	2.025- 2	9.975- 2	76 3263	160	ABSORPTION
N	92-U -235	72	1.100- 8	1.975- 1	75 3263	274	N.F.
	92-U -235	72	2.500- 8	2.500- 8	59 1176	2	N.F.
	92-U -235	72	2.500- 8	2.500- 8	60 360	1	N.F.
	92-U -235	72	7.500- 5	9.975- 3	72 3262	199	N.F.
N	92-U -235	72	1.500- 4	9.500- 3	72 3263	19	N.F.
	92-U -235	72	1.500- 4	2.750- 2	65 1034	32	N.F.
	92-U -235	72	2.025- 3	9.998- 2	72 3269	1960	N.F.
N	92-U -235	72	2.025- 2	9.975- 2	76 3263	160	N.F.
N	92-U -235	72	2.050- 2	2.450- 2	71 3933	5	N.F.
	92-U -235	72	3.000- 2	5.000+ 0	57 198	5	N.F.
	92-U -235	72	2.350- 1	2.300+ 1	65 1125	1	N.F.
N	92-U -235	72	1.000+ 0	1.000+ 0	68 3730	1	N.F.
N	92-U -235	72	1.500+ 0	9.500+ 2	75 3899	27	N.F.
	92-U -235	72	2.000+ 0	2.000+ 0	55 3363	1	N.F.
	92-U -235	72	2.130+ 0	2.130+ 0	72 3344	1	N.F.
	92-U -235	73	2.500- 8	2.500- 8	46 1412	1	N.GAMMA
	92-U -235	73	2.500- 8	2.500- 8	60 360	1	N.GAMMA
	92-U -235	73	7.300- 5	9.975- 3	72 3262	184	N.GAMMA
	92-U -235	73	1.500- 4	2.750- 2	65 1034	32	N.GAMMA
	92-U -235	73	1.500- 4	1.500- 1	72 3263	28	N.GAMMA
N	92-U -235	96	2.530- 8	2.530- 8	67 1417	1	NU-BAR PROMPT
	92-U -235	96	1.200+ 0	1.200+ 0	59 1136	1	NU-BAR PROMPT
	92-U -235	96	2.000+ 0	2.000+ 0	57 1130	1	NU-BAR PROMPT
	92-U -235	96	2.000+ 0	2.000+ 0	70 3385	1	NU-BAR PROMPT
	92-U -235	97	2.000+ 0	2.000+ 0	55 1427	1	NU-BAR DELAYED
	92-U -235	97	2.000+ 0	2.000+ 0	57 1066	1	NU-BAR DELAYED
	92-U -235	98	2.500- 8	2.500- 8	44 1318	1	ETA
	92-U -235	98	2.500- 8	2.500- 8	55 1316	1	ETA
	92-U -235	98	2.500- 8	2.500- 8	55 1317	1	ETA
	92-U -235	98 80	3.300- 7	6.900- 5	55 1159	3	ETA
	92-U -235	99	2.500- 8	2.500- 8	46 1412	1	ALPHA
	92-U -235	99	2.500- 8	2.500- 8	46 1545	1	ALPHA
	92-U -235	99	2.500- 8	2.500- 8	55 1315	1	ALPHA
	92-U -235	99	2.500- 8	2.500- 8	55 1382	1	ALPHA
	92-U -235	99	2.500- 8	2.500- 8	58 1386	1	ALPHA
	92-U -235	99	2.500- 8	2.500- 8	59 1452	1	ALPHA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92235

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U	-235	99	2.500- 8	2.500- 8	60 360	1	ALPHA
92-U	-235	99	2.500- 8	2.500- 8	66 1077	1	ALPHA
92-U	-235	99	2.500- 8	2.500- 8	67 1442	1	ALPHA
92-U	-235	99	2.500- 8	2.500- 8	67 1539	1	ALPHA
92-U	-235	99	1.500- 4	1.135- 2	69 2358	15	ALPHA
92-U	-235	99	1.500- 4	2.750- 2	65 1034	32	ALPHA
92-U	-235	102	1.300- 1	1.900+ 0	1 66 1377	7	ELASTIC
92-U	-235	102	5.000- 1	1.000+ 0	57 444	18	ELASTIC
N	92-U	-235	1.500+ 0	5.500+ 0	72 3788	137	ELASTIC
92-U	-235	102	2.000+ 0	4.000+ 0	69 2598	27	ELASTIC
92-U	-235	102	2.500+ 0	2.500+ 0	55 1448	10	ELASTIC
92-U	-235	124	1.090+ 0	1.480+ 1	66 1027	6	N,X GAMMA
N	92-U	-235	1.000+ 0	8.700+ 0	74 3569	126	N,X GAMMA
92-U	-235	124	1.090+ 0	1.480+ 1	66 1027	60	N,X GAMMA
N	92-U	-235	1.400+ 1	1.400+ 1	74 3544	45	N,X GAMMA
92-U	-235	203	2.000+ 0	4.000+ 0	69 2598	60	NONELASTIC
92-U	-235	211	2.000+ 0	4.000+ 0	69 2598	42	N,N'
N	92-U	-235	0.000+ 0	0.000+ 0	74 3948	1300	N,F
N	92-U	-235	1.500+ 0	1.500+ 0	72 3788	56	N,F
92-U	-235	222	2.500- 8	2.500- 8	55 267	7	N,F
92-U	-235	222	1.000- 1	1.000- 1	65 1265	42	N,F
N	92-U	-235	4.000- 1	4.000- 1	73 3784	91	N,F
N	92-U	-235	5.300- 1	5.300- 1	72 3670	54	N,F
N	92-U	-235	6.390- 6	3.941- 5	69 3644	46	N,X GAMMA
N	92-U	-235	1.000+ 0	2.000+ 0	72 3443	28	N,X GAMMA
92-U	-235	324	4.000+ 0	7.500+ 0	69 2916	73	N,X GAMMA
N	92-U	-235	5.000+ 0	8.000+ 0	73 3466	97	N,X GAMMA
92-U	-235	403	2.000+ 0	3.000+ 0	69 2598	2	NONELASTIC
92-U	-235	452	3.000- 1	1.495+ 0	64 1273	152	ELASTIC
92-U	-235	452	4.000- 1	6.000- 1	66 1331	120	ELASTIC
C	92-U	-235	4.500- 7	1.460+ 1	64 1175	1	N,F
C	92-U	-235	4.900- 7	2.000+ 0	55 1365	1	N,F
C	92-U	-235	5.000- 7	1.500+ 1	67 1442	1	N,F
C	92-U	-235	5.000- 7	1.500+ 1	68 2086	3	N,F
N	92-U	-235	5.000- 7	2.050- 5	68 3640	6	N,F
N	92-U	-235	5.000- 7	1.000+ 0	66 1299	1	N,F
N	92-U	-235	5.000- 7	1.400+ 1	64 1277	1	N,F
N	92-U	-235	5.000- 7	1.400+ 1	64 1278	1	N,F
N	92-U	-235	5.000- 7	1.460+ 1	61 1137	1	N,F
N	92-U	-235	5.000- 7	1.500+ 1	71 3270	2	N,F
N	92-U	-235	5.000- 7	1.500+ 1	74 3621	1	N,F
C	92-U	-235	6.000- 1	1.400+ 1	63 1310	1	N,F
C	92-U	-235	5.000- 7	1.500+ 1	67 1442	1	N,GAMMA
C	92-U	-235	5.000- 7	1.500+ 1	68 2086	3	N,GAMMA
N	92-U	-235	5.000- 7	1.400+ 1	64 1277	1	N,GAMMA
N	92-U	-235	5.000- 7	1.400+ 1	64 1278	1	N,GAMMA
N	92-U	-235	5.000- 7	1.400+ 1	66 1311	1	N,GAMMA
N	92-U	-235	5.000- 7	1.500+ 1	71 3270	2	N,GAMMA
C	92-U	-235	5.000- 7	1.560+ 1	67 192	1	ALPHA
C	92-U	-235	5.000- 7	1.500+ 1	67 1442	1	ALPHA
C	92-U	-235	5.000- 7	1.500+ 1	68 2086	3	ALPHA
N	92-U	-235	5.000- 7	1.400+ 1	64 1277	1	ALPHA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 92235

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92235

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	92-U	-235	5.49	5.000- 7	1.400+ 1	64 1278	1 ALPHA RESONANCE INTEGRAL
N	92-U	-235	5.49	5.000- 7	1.400+ 1	68 1428	1 ALPHA RESONANCE INTEGRAL
C	92-U	-235	5.49	5.100- 7	1.500+ 1	65 1443	1 ALPHA RESONANCE INTEGRAL
N	92-U	-235	5.49	1.000- 5	5.000- 3	70 4042	16 ALPHA RESONANCE INTEGRAL
C	92-U	-235	5.49	1.000- 4	2.500- 2	70 2531	1 ALPHA RESONANCE INTEGRAL
N	9-U	-235	5.49	5.000- 3	1.400- 1	71 3412	32 ALPHA RESONANCE INTEGRAL
N	92-U	-235	5.49	8.000- 3	6.000- 2	71 3656	21 ALPHA RESONANCE INTEGRAL
N	92-U	-235	6.05	5.500- 1	2.000+ 0	59 77	46 TOTAL SCATTERING ANGULAR DIST.-INTEGRAL E1-E2
N	92-U	-235	8.72	1.500- 4	9.500- 1	75 3951	43 N,F CROSS SECTION RATIO
N	92-U	-235	8.72	3.000- 2	3.000+ 0	57 218	20 N,F CROSS SECTION RATIO
N	92-U	-235	8.72	6.500- 2	5.450- 1	76 3956	20 N,F CROSS SECTION RATIO
N	92-U	-235	8.72	1.000+ 0	6.000+ 0	73 3947	41 N,F CROSS SECTION RATIO
N	92-U	-235	8.72	1.400+ 1	1.400+ 1	50 1413	1 N,F CROSS SECTION RATIO
N	92-U	-235	8.72	1.400+ 1	1.460+ 1	58 608	1 N,F CROSS SECTION RATIO
N	92-U	-235	8.71	2.500- 4	6.500- 3	73 4086	14 N,GAMMA CROSS SECTION RATIO
N	92-U	-235	896	1.010- 1	2.572+ 0	85 1085	9 NU-BAR PROMPT CROSS SECTION RATIO
N	92-U	-235	897	2.500- 8	2.500- 8	48 1421	1 NU-BAR DELAYED CROSS SECTION RATIO
N	92-U	-235		2.500- 8	2.500- 8	67 1501	1 NUCLEAR TEMPERATURE
N	92-U	-235		2.500- 8	2.500- 8	69 2356	1 NUCLEAR TEMPERATURE
N	92-U	-235		4.000- 2	1.500+ 0	65 1335	2 NUCLEAR TEMPERATURE
N	92-U	-235		1.000- 1	1.000- 1	65 1265	1 NUCLEAR TEMPERATURE
N	92-U	-235		4.000- 1	4.000- 1	73 3784	1 NUCLEAR TEMPERATURE
N	92-U	-235		5.300- 1	5.300- 1	72 3670	1 NUCLEAR TEMPERATURE
N	92-U	-235		1.100+ 0	1.100+ 0	69 2511	1 NUCLEAR TEMPERATURE
N	92-U	-235		3.000+ 0	3.000+ 0	69 2598	1 NUCLEAR TEMPERATURE
N	92-U	-235		1.400+ 1	1.400+ 1	58 1339	2 NUCLEAR TEMPERATURE
N	92-U	-235		1.410+ 1	1.410+ 1	68 2535	1 NUCLEAR TEMPERATURE
N	92-U	-235		1.430+ 1	1.430+ 1	60 1325	2 NUCLEAR TEMPERATURE
C	92-U	-235		-2.000- 6	1.940- 5	64 966	1 AVERAGE RESONANCE PARAMETERS
C	92-U	-235		0.000+ 0	1.800- 5	56 1038	3 AVERAGE RESONANCE PARAMETERS
C	92-U	-235		0.000+ 0	2.000- 5	56 1037	4 AVERAGE RESONANCE PARAMETERS
N	92-U	-235		0.000+ 0	2.000- 5	57 1209	1 AVERAGE RESONANCE PARAMETERS
N	92-U	-235		0.000+ 0	3.500- 5	63 1219	1 AVERAGE RESONANCE PARAMETERS
N	92-U	-235		0.000+ 0	4.000- 5	69 3644	2 AVERAGE RESONANCE PARAMETERS
N	92-U	-235		0.000+ 0	4.700- 5	59 1221	1 AVERAGE RESONANCE PARAMETERS
N	92-U	-235		0.000+ 0	6.000- 5	65 1035	8 AVERAGE RESONANCE PARAMETERS
N	92-U	-235		0.000+ 0	1.000- 4	71 3125	6 AVERAGE RESONANCE PARAMETERS
N	92-U	-235		0.000+ 0	2.000- 3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	92-U	-235		0.000+ 0	3.000- 2	65 1034	6 AVERAGE RESONANCE PARAMETERS
C	92-U	-235		2.000- 7	3.000- 5	67 2083	3 AVERAGE RESONANCE PARAMETERS
N	92-U	-235		2.900- 7	5.647- 5	73 3781	2 AVERAGE RESONANCE PARAMETERS
C	92-U	-235		2.700- 6	5.500- 5	71 3122	1 AVERAGE RESONANCE PARAMETERS
C	92-U	-235		6.000- 6	5.000- 5	59 1223	1 AVERAGE RESONANCE PARAMETERS
C	92-U	-235		6.000- 6	1.500- 4	68 1544	7 AVERAGE RESONANCE PARAMETERS
N	92-U	-235		8.000- 6	5.700- 5	66 3649	2 AVERAGE RESONANCE PARAMETERS
C	92-U	-35		1.667- 5	7.088- 5	67 1488	4 AVERAGE RESONANCE PARAMETERS
C	92-U	-235		1.667- 5	7.088- 5	69 1488	4 AVERAGE RESONANCE PARAMETERS
C	92-U	-235		1.000- 4	5.000- 3	58 1222	1 AVERAGE RESONANCE PARAMETERS
N	92-U	-235		1.000- 4	3.000- 2	71 4050	2 AVERAGE RESONANCE PARAMETERS
C	92-U	-235		3.000- 4	3.000- 2	65 1361	2 AVERAGE RESONANCE PARAMETERS
C	92-U	-235		1.000- 3	1.000+ 0	66 1328	2 AVERAGE RESONANCE PARAMETERS
C	92-U	-235		1.000- 2	1.000- 1	64 1227	2 AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92235

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92235

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION	DESCRIPTION	
C	92-U	-235		-2.000	6	7.090	6	63 1225	30	RESONANCE PARAMETERS
	92-U	-235		-2.000	6	1.940	5	64 966	50	RESONANCE PARAMETERS
	92-U	-235		-1.450	6	3.140	6	62 1224	12	RESONANCE PARAMETERS
	92-U	-235		-1.450	6	8.795	6	58 476	24	RESONANCE PARAMETERS
	92-U	-235		-1.450	6	6.244	5	67 1469	290	RESONANCE PARAMETERS
	92-U	-235		-1.001	6	1.230	5	55 1212	6	RESONANCE PARAMETERS
	92-U	-235		-9.500	7	3.160	6	60 1220	15	RESONANCE PARAMETERS
	92-U	-235		2.750	7	2.080	6	68 1346	3	RESONANCE PARAMETERS
	92-U	-235		2.900	7	8.950	6	58 1222	40	RESONANCE PARAMETERS
	92-U	-235		2.900	7	1.400	5	55 968	6	RESONANCE PARAMETERS
	92-U	-235		2.900	7	3.530	5	56 1037	131	RESONANCE PARAMETERS
	92-U	-235		2.900	7	3.540	5	57 1209	150	RESONANCE PARAMETERS
	92-U	-235		2.900	7	6.390	6	71 3453	5	RESONANCE PARAMETERS
N	92-U	-235		2.500	7	1.400	5	74 3483	15	RESONANCE PARAMETERS
N	92-U	-235		2.900	7	5.020	5	70 3402	569	RESONANCE PARAMETERS
	92-U	-235		3.000	7	1.800	5	55 956	8	RESONANCE PARAMETERS
	92-U	-235		3.000	7	3.400	5	55 250	16	RESONANCE PARAMETERS
	92-U	-235		3.000	7	9.600	5	55 902	17	RESONANCE PARAMETERS
	92-U	-235		3.000	7	3.400	5	55 965	11	RESONANCE PARAMETERS
N	92-U	-235		1.130	6	3.941	5	68 1734	24	RESONANCE PARAMETERS
N	92-U	-235		1.130	6	5.660	5	73 3839	53	RESONANCE PARAMETERS
N	92-U	-235		1.130	6	5.870	5	73 3477	65	RESONANCE PARAMETERS
C	92-U	-235		1.140	6	8.143	5	71 2528	500	RESONANCE PARAMETERS
	92-U	-235		1.150	6	2.420	5	59 254	16	RESONANCE PARAMETERS
	92-U	-235		2.026	6	5.020	5	65 1034	572	RESONANCE PARAMETERS
	92-U	-235		2.030	6	1.473	4	65 1035	644	RESONANCE PARAMETERS
N	92-U	-235		2.040	6	3.205	5	73 3500	6	RESONANCE PARAMETERS
N	92-U	-235		2.040	6	4.190	5	73 3781	14	RESONANCE PARAMETERS
	92-U	-235		2.775	6	4.942	5	71 3122	270	RESONANCE PARAMETERS
	92-U	-235		4.850	6	3.935	5	63 1219	84	RESONANCE PARAMETERS
	92-U	-235		6.100	6	4.850	5	59 1223	39	RESONANCE PARAMETERS
	92-U	-235		6.200	6	6.440	5	59 1221	102	RESONANCE PARAMETERS
N	92-U	-235		6.390	6	3.205	5	72 3780	12	RESONANCE PARAMETERS
	92-U	-235		6.390	6	3.941	5	69 2534	17	RESONANCE PARAMETERS
N	92-U	-235		6.390	6	3.941	5	69 3644	18	RESONANCE PARAMETERS
	92-U	-235		6.390	6	1.474	4	68 1544	312	RESONANCE PARAMETERS
	92-U	-235		8.780	6	5.649	5	70 3065	35	RESONANCE PARAMETERS
N	92-U	-235		8.780	6	5.649	5	66 3649	52	RESONANCE PARAMETERS
	92-U	-235		8.790	6	1.929	5	71 1493	3	RESONANCE PARAMETERS
	92-U	-235		8.800	6	1.240	5	66 1357	6	RESONANCE PARAMETERS
	92-U	-235		8.800	6	1.930	5	56 148	4	RESONANCE PARAMETERS
	92-U	-235		9.250	6	6.100	5	56 1038	48	RESONANCE PARAMETERS
	92-U	-235		9.280	6	1.474	4	71 3125	473	RESONANCE PARAMETERS
	92-U	-235		1.667	5	7.088	5	67 1468	160	RESONANCE PARAMETERS
C	92-U	-235		1.667	5	7.088	5	69 1468	80	RESONANCE PARAMETERS
	92-U	-235		1.804	5	3.005	4	65 814	269	RESONANCE PARAMETERS
	92-U	-235		1.930	5	6.110	5	70 2207	38	RESONANCE PARAMETERS
	92-U	-235		5.048	5	9.552	5	60 1017	38	RESONANCE PARAMETERS
	92-U	-236	1	1.050	8	1.660	5	58 436	53	TOTAL
	92-U	-236	1	2.750	8	7.000	4	58 1116	241	TOTAL
	92-U	-236	1	4.100	6	9.500	6	52 1457	15	TOTAL
	92-U	-236	2	2.530	8	2.530	8	58 436	1	ELASTIC

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-325 ***

ZA = 92236

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92236

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
C	92-U	-236	21	2.530- 8	2.530- 8	58 436	1	ABSORPTION
	92-U	-236	22	3.525- 5	2.935+ 0	70 943	1967	N,F
	92-U	-236	22	1.270- 1	5.050- 1	65 1091	3	N,F
	92-U	-236	22	6.900- 1	4.050+ 0	55 132	79	N,F
	92-U	-236	22	1.000+ 0	5.000+ 0	68 1362	16	N,F
	92-U	-236	22	1.000+ 0	1.410+ 1	64 1090	4	N,F
	92-U	-236	22	5.200+ 0	6.920+ 0	57 18	9	N,F
	92-U	-236	22	1.400+ 1	1.400+ 1	50 1413	1	N,F
	92-U	-236	23	1.070- 8	1.600- 2	68 1531	57	N,GAMMA
	92-U	-236	23	2.500- 8	2.500- 8	55 1127	1	N,GAMMA
	92-U	-236	23	2.500- 8	2.500- 8	58 438	1	N,GAMMA
	92-U	-236	23	2.530- 0	2.530- 8	58 1163	1	N,GAMMA
	92-U	-236	23	3.000- 1	1.446+ 0	61 648	7	N,GAMMA
	92-U	-236	23	3.600- 1	3.970+ 0	61 712	14	N,GAMMA
N	92-U	-236	46	-6.400+ 0	-6.400+ 0	69 2509	1	NU-BAR PROMPT
	92-U	-236	46	7.700- 1	6.700+ 0	71 3882	21	NU-BAR PROMPT
	92-U	-236	46	7.700- 1	6.700+ 0	71 2509	21	NU-BAR PROMPT
	92-U	-236	71	2.500- 8	2.500- 8	52 1095	1	ABSORPTION
	92-U	-236	73	2.500- 8	2.500- 8	50 1207	1	N,GAMMA
	92-U	-236	73	2.500- 8	2.500- 8	52 1178	1	N,GAMMA
	92-U	-236	73	2.500- 8	2.500- 8	55 966	1	N,GAMMA
	92-U	-236	73	2.500- 8	2.500- 8	56 1119	1	N,GAMMA
	92-U	-236	73	2.500- 8	2.500- 8	58 1185	1	N,GAMMA
	92-U	-236	73	2.500- 8	2.500- 8	59 1393	1	N,GAMMA
	92-U	-236	73	2.500- 8	2.500- 8	64 1392	1	N,GAMMA
	92-U	-236	73	2.500- 8	2.500- 8	60 2098	1	N,GAMMA
	92-U	-236	73	2.530- 8	2.530- 8	71 3922	2	N,GAMMA
	92-U	-236	523	4.000- 7	1.500+ 1	58 1393	1	N,GAMMA
C	92-U	-236	523	4.000- 7	1.500+ 1	62 1392	1	N,GAMMA
	92-U	-236	523	5.000- 7	1.500+ 1	68 193	2	N,GAMMA
	92-U	-236	523	5.000- 7	1.500+ 1	69 2098	1	N,GAMMA
	92-U	-236	523	5.000- 7	1.460+ 1	58 438	1	N,GAMMA
	92-U	-236	523	6.000- 7	1.460+ 1	58 1163	1	N,GAMMA
	92-U	-236	872	1.152- 1	3.289+ 1	75 3619	64	N,F
	92-U	-236	872	1.270- 1	5.050- 1	65 1091	3	N,F
	92-U	-236	872	1.000+ 0	5.000+ 0	68 1362	16	N,F
	92-U	-236	872	1.000+ 0	1.410+ 1	64 1090	4	N,F
	92-U	-236	872	1.400+ 1	1.400+ 1	50 1413	1	N,F
	92-U	-236		0.000+ 0	1.400- 4	59 1116	3	AVERAGE RESONANCE PARAMETERS
	92-U	-236		0.000+ 0	1.691- 3	73 3790	4	AVERAGE RESONANCE PARAMETERS
	92-U	-236		0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
	92-U	-236		0.000+ 0	2.000- 2	68 1531	6	AVERAGE RESONANCE PARAMETERS
N	92-U	-236		-9.700- 6	9.960- 4	68 1531	75	RESONANCE PARAMETERS
	92-U	-236		-8.000- 6	5.480- 6	58 436	6	RESONANCE PARAMETERS
	92-U	-236		5.460- 6	3.760- 4	69 946	14	RESONANCE PARAMETERS
	92-U	-236		5.480- 6	5.480- 6	68 193	2	RESONANCE PARAMETERS
	92-U	-236		5.490- 6	5.490- 6	61 1208	1	RESONANCE PARAMETERS
	92-U	-236		5.490- 6	3.840- 4	58 1116	27	RESONANCE PARAMETERS
	92-U	-236		3.412- 5	1.814- 3	73 3790	261	RESONANCE PARAMETERS
	92-U	-237	21	2.530- 8	2.530- 8	67 195	1	ABSORPTION
	92-U	-237	22	4.300- 5	1.830+ 0	70 943	1083	N,F
	92-U	-237	22	1.500+ 0	2.250+ 0	70 2273	4	N,F

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92237

07/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 92237

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U	-237	71	2.500- 8	2.500- 8	67 195	1	ABSORPTION
92-U	-237	72	5.500- 4	5.500- 4	68 2081	1	N,F
92-U	-237	72	2.500- 1	5.000- 1	2 68 2101	2	N,F
92-U	-238	1	2.300-10	2.520- 8	53 1460	92	TOTAL
92-U	-238	1	1.570- 8	7.700- 7	51 26	27	TOTAL
92-U	-238	1	1.120- 6	3.910- 4	57 1247	401	TOTAL
92-U	-238	1	2.200- 5	7.800- 5	58 903	31	TOTAL
92-U	-238	1	3.205- 5	4.080- 3	65 814	6728	TOTAL
92-U	-238	1	6.461- 5	1.407- 2	70 3602	10616	TOTAL
92-U	-238	1	2.000- 4	1.225- 3	56 1469	144	TOTAL
92-U	-238	1	4.010- 4	1.942- 3	63 1251	670	TOTAL
92-U	-238	1	1.150- 3	1.150- 3	54 6	1	TOTAL
92-U	-238	1	6.500- 3	9.500- 1	66 1328	34	TOTAL
92-U	-238	1	3.000- 2	6.500- 1	64 381	102	TOTAL
92-U	-238	1	1.022- 1	1.498+ 0	69 2849	523	TOTAL
92-U	-238	1	1.120- 1	1.200+ 0	73 3945	303	TOTAL
92-U	-238	1	4.838- 1	1.520+ 1	73 3255	1706	TOTAL
92-U	-238	1	5.000- 1	9.500- 1	60 696	4	TOTAL
92-U	-238	1	6.067- 1	1.403+ 0	69 2848	5	TOTAL
92-U	-238	1	7.004- 1	2.998+ 1	72 3238	747	TOTAL
92-U	-238	1	1.700+ 0	1.430+ 1	74 4014	12	TOTAL
92-U	-238	1	2.000+ 0	7.000+ 0	65 1264	4	TOTAL
92-U	-238	1	2.254+ 0	1.491+ 1	67 750	488	TOTAL
92-U	-238	1	2.700+ 0	2.700+ 0	67 1527	1	TOTAL
92-U	-238	1	7.050+ 0	1.425+ 1	57 22	5	TOTAL
92-U	-238	1	1.410+ 1	1.410+ 1	68 2085	1	TOTAL
92-U	-238	1	1.467+ 1	1.467+ 1	61 711	1	TOTAL
92-U	-238	1	1.730+ 1	2.890+ 1	60 673	4	TOTAL
92-U	-238	1	4.200+ 1	4.200+ 1	50 281	1	TOTAL
92-U	-238	1	9.500+ 1	9.500+ 1	50 12	1	TOTAL
92-U	-238	1	9.940+ 1	1.519+ 2	68 2189	6	TOTAL
92-U	-238	1	3.400+ 4	2.730+ 5	74 3618	7	TOTAL
92-U	-238	2	3.000- 1	1.495+ 0	63 1272	30	ELASTIC
92-U	-238	2	2.000+ 0	7.000+ 0	65 1264	4	ELASTIC
92-U	-238	2	1.410+ 1	1.410+ 1	68 2085	1	ELASTIC
92-U	-238	3	1.500- 1	5.000- 1	57 156	3	NONELASTIC
92-U	-238	3	2.500- 1	3.000+ 0	45 1450	9	NONELASTIC
92-U	-238	3	9.000- 1	9.000- 1	61 754	1	NONELASTIC
92-U	-238	3	1.000+ 0	7.100+ 0	55 1448	4	NONELASTIC
92-U	-238	3	4.000+ 0	1.550+ 1	55 1451	6	NONELASTIC
92-U	-238	3	8.100+ 0	1.410+ 1	58 592	3	NONELASTIC
92-U	-238	3	8.100+ 0	1.750+ 1	65 1228	3	NONELASTIC
92-U	-238	3	1.335+ 1	1.654+ 1	61 743	7	NONELASTIC
92-U	-238	3	1.340+ 1	1.840+ 1	61 706	4	NONELASTIC
92-U	-238	3	1.400+ 1	1.400+ 1	51 1449	1	NONELASTIC
92-U	-238	5	6.000- 2	1.368+ 0	56 231	28	TOTAL SCATTERING
92-U	-238	5	5.000- 1	1.000+ 0	56 149	2	TOTAL SCATTERING
92-U	-238	5	8.500- 1	1.495+ 0	63 1272	13	TOTAL SCATTERING
92-U	-238	5	1.500+ 0	5.500+ 0	71 3645	7	TOTAL SCATTERING
92-U	-238	5	4.340+ 0	4.920+ 0	73 3453	2	TOTAL SCATTERING
92-U	-238	6	3.000+ 0	7.000+ 0	65 1264	3	NONELASTIC EMISSION
92-U	-238	6	1.400+ 1	1.400+ 1	57 338	1	NONELASTIC EMISSION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-327 ***

ZA = 92239

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92238

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U	-238	6	1.410+ 1	1.410+ 1	68 2085	1	NONELASTIC EMISSION
92-U	-238	11	1.500- 1	5.000- 1	57 156	3	N,N'
92-U	-238	11	5.000- 1	1.000+ 0	56 215	6	N,N'
92-U	-238	11	9.000- 1	9.000- 1	61 754	1	N,N'
92-U	-238	11	1.400+ 1	1.400+ 1	57 338	1	N,N'
92-U	-238	11	1.410+ 1	1.410+ 1	61 652	1	N,N'
92-U	-238	11	1.410+ 1	1.410+ 1	61 1270	1	N,N'
92-U	-238	11	1.420+ 1	1.420+ 1	62 1347	1	N,N'
92-U	-238	11	9.500- 2	9.500- 2	65 1266	1	N,N'
92-U	-238	11	1.500- 1	5.000- 1	57 156	5	N,N'
92-U	-238	11	8 3.500- 1	1.500+ 0	63 1272	80	N,N'
92-U	-238	11	8 5.000- 1	1.000+ 0	56 215	6	N,N'
N 92-U	-238	11	8 1.500+ 0	2.300+ 0	71 3645	14	N,N'
92-U	-238	11	8 1.600+ 0	3.000+ 0	65 1264	6	N,N'
92-U	-238	12	6.420+ 0	1.600+ 1	66 359	26	N,2N
92-U	-238	12	7.000+ 0	8.000+ 0	2 69 2092	2	N,2N
N 92-U	-238	12	7.930+ 0	1.476+ 1	75 3607	15	N,2N
N 92-U	-238	12	1.370+ 1	1.494+ 1	73 3450	7	N,2N
92-U	-238	12	1.400+ 1	1.400+ 1	57 338	1	N,2N
92-U	-238	12	1.406+ 1	1.406+ 1	2 69 2519	1	N,2N
92-U	-238	12	1.410+ 1	1.410+ 1	56 1398	1	N,2N
92-U	-238	12	1.410+ 1	1.410+ 1	2 68 2092	1	N,2N
92-U	-238	12	1.450+ 1	1.450+ 1	61 745	1	N,2N
92-U	-238	12	1.500+ 1	1.500+ 1	58 580	1	N,2N
N 92-U	-238	13	1.236+ 1	1.476+ 1	75 3607	6	N,3N
92-U	-238	13	1.260+ 1	1.880+ 1	62 1347	6	N,3N
92-U	-238	13	1.400+ 1	1.400+ 1	57 338	1	N,3N
92-U	-238	13	1.406+ 1	1.406+ 1	2 69 2519	1	N,3N
92-U	-238	13	1.410+ 1	1.410+ 1	61 1270	1	N,3N
92-U	-238	13	1.410+ 1	1.410+ 1	2 68 2092	1	N,3N
92-U	-238	19	1.780+ 1	1.880+ 1	62 1347	2	N,4N
92-U	-238	21	2.530- 8	2.530- 8	44 1432	1	ABSORPTION
92-U	-238	21	2.530- 8	2.530- 8	53 1431	1	ABSORPTION
92-U	-238	21	2.530- 8	2.530- 8	54 1279	1	ABSORPTION
92-U	-238	21	2.530- 8	2.530- 8	55 1205	1	ABSORPTION
92-U	-238	21	2.530- 8	2.530- 8	69 2520	1	ABSORPTION
92-U	-238	21	2.400- 2	2.400- 2	65 1364	1	ABSORPTION
92-U	-238	21	2.400- 2	2.400- 2	66 1541	1	ABSORPTION
92-U	-238	21	2.500- 2	8.300- 1	58 364	3	ABSORPTION
92-U	-238	22	4.900- 1	4.180+ 0	55 268	69	N,F
N 92-U	-238	22	5.500- 1	1.450+ 0	71 3414	19	N,F
92-U	-238	22	1.000+ 0	3.000+ 0	57 218	6	N,F
92-U	-238	22	1.000+ 0	2.407+ 1	68 352	44	N,F
92-U	-238	22	1.010+ 0	4.000+ 0	56 1472	28	N,F
92-U	-238	22	1.190+ 0	1.680+ 0	67 1500	2	N,F
92-U	-238	22	1.300+ 0	6.950+ 0	57 18	33	N,F
92-U	-238	22	1.500+ 0	5.000+ 0	68 1362	14	N,F
92-U	-238	22	1.700+ 0	4.580+ 0	65 188	59	N,F
92-U	-238	22	2.250+ 0	1.410+ 1	64 1090	3	N,F
N 92-U	-238	22	2.500+ 0	2.500+ 0	71 3405	1	N,F
92-U	-238	22	3.100+ 0	6.500+ 0	58 1234	7	N,F
92-U	-238	22	5.100+ 0	3.660+ 1	63 983	35	N,F

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92238

07/04/76

EUSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92236

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION	DESCRIPTION
92-U-236	22		6.800+ 0	2.030+ 1	60 740	33	N.F	
92-U-238	22		8.800+ 0	1.386+ 1	57 720	5	N.F	
92-U-238	22		1.270+ 0	1.940+ 1	61 744	14	N.F	
92-U-238	22		1.350+ 1	1.490+ 1	61 746	3	N.F	
92-U-238	22		1.360+ 1	1.360+ 1	68 1330	8	N.F	
92-U-238	22		1.360+ 1	1.475+ 1	63 6913	6	N.F	
92-U-238	22		1.370+ 1	1.400+ 1	42 1434	8	N.F	
92-U-238	22		1.400+ 1	1.400+ 1	56 775	1	N.F	
92-U-238	22		1.450+ 1	1.450+ 1	58 610	1	N.F	
92-U-238	22		1.460+ 1	1.460+ 1	69 2354	2	N.F	
92-U-238	22		1.200+ 2	1.800+ 2	75 3901	1	N.F	
92-U-238	22	80	1.700+ 0	4.580+ 0	65 168	2	N.F	
92-U-238	23		2.530- 8	2.530- 8	55 191	59	N.F	
92-U-238	23		2.530- 8	2.530- 8	55 1415	1	N.GANNA	
92-U-238	23		2.530- 8	2.530- 8	69 2156	1	N.GANNA	
92-U-238	23		5.299- 6	9.173- 3	66 1365	122	N.GANNA	
92-U-238	23		2.000- 4	3.460- 2	70 3315	26	N.GANNA	
92-U-238	23		5.500- 4	9.500- 2	69 2518	23	N.GANNA	
92-U-238	23		1.005- 3	2.520- 1	70 3063	93	N.GANNA	
92-U-238	23		3.000- 3	2.200- 1	60 727	17	N.GANNA	
92-U-238	23		3.000- 3	5.900+ 0	46 313	14	N.GANNA	
92-U-238	23		1.008- 2	5.635- 2	63 1880	92	N.GANNA	
92-U-238	23		1.300- 2	1.700- 1	64 454	126	N.GANNA	
92-U-238	23		1.800- 2	3.000- 1	63 1438	10	N.GANNA	
92-U-238	23		2.000- 2	1.200+ 0	62 1407	8	N.GANNA	
92-U-238	23		2.300- 2	2.300+ 0	74 3535	54	N.GANNA	
92-U-238	23		2.370- 2	2.370- 2	69 2190	1	N.GANNA	
92-U-238	23		2.400- 2	2.400- 2	75 3309	1	N.GANNA	
92-U-238	23		2.470- 2	2.430- 2	77 305	1	N.GANNA	
92-U-238	23		2.470- 2	3.030- 1	74 3565	9	N.GANNA	
92-U-238	23		2.300- 2	8.400- 1	68 1577	3	N.GANNA	
92-U-238	23		2.300- 2	6.500- 2	60 633	10	N.GANNA	
92-U-238	23		3.000- 5	6.500- 2	59 1462	2	N.GANNA	
92-U-238	23		3.000- 2	6.500- 2	61 1577	2	N.GANNA	
92-U-238	23		3.000- 2	9.000- 1	63 171	2	N.GANNA	
92-U-238	23		1.210- 1	2.730+ 0	69 2523	4	N.GANNA	
92-U-238	23		1.270- 1	2.730+ 0	71 3498	53	N.GANNA	
92-U-238	23		1.750- 1	1.950+ 0	64 1401	23	N.GANNA	
92-U-238	23		1.950- 1	1.950+ 0	60 674	13	N.GANNA	
92-U-238	23		2.000- 1	3.000+ 0	59 525	7	N.GANNA	
92-U-238	23		4.000- 1	4.000+ 0	58 363	3	N.GANNA	
92-U-238	23		1.200+ 0	4.000+ 0	45 1403	5	N.GANNA	
92-U-238	23		5.000+ 0	2.000+ 1	71 3821	2	N.GANNA	
92-U-238	23		1.400+ 1	1.400+ 1	72 4019	11	N.GANNA	
92-U-238	23		1.450+ 1	1.450+ 1	72 4048	7	N.GANNA	
92-U-238	23		1.450+ 1	1.450+ 1	71 3194	1	N.GANNA	
92-U-238	23				57 521	1	N.GANNA	

*** 1-329 ***

ZA = 92238

ZA - 92238

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92238

07/04/76

EC5IL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92238

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	92-U	-238	72	2.130+ 0	2.130+ 0	72 3344	1	N,F SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	2.500+ 0	2.500+ 0	44 1444	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	2.500+ 0	2.500+ 0	44 1458	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	2.500+ 0	2.500+ 0	52 1456	2	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	2.500+ 0	2.500+ 0	58 1185	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	1.500+ 4	9.500+ 2	72 3269	27	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	1.500+ 3	9.500+ 2	71 3937	10	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	1.000+ 0	1.000+ 0	68 3750	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	1.000+ 0	1.000+ 0	71 4063	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	2.000+ 0	2.000+ 0	58 363	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	96	1.400+ 0	1.670+ 0	58 1161	3	NU-BAR PROMPT SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	96	2.800+ 0	2.800+ 0	60 1133	1	NU-BAR PROMPT SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	96	3.100+ 0	3.100+ 0	58 1198	1	NU-BAR PROMPT SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	97	2.000+ 0	2.000+ 0	55 1427	1	NU-BAR DELAYED SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	97	2.000+ 0	2.000+ 0	56 1340	1	NU-BAR DELAYED SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	97	2.000+ 0	2.000+ 0	57 1065	1	NU-BAR DELAYED SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	97	1.400+ 1	1.400+ 1	50 1422	1	NU-BAR DELAYED SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	102	7.500+ 0	9.900+ 1	66 1267	54	ELASTIC ANGULAR DISTRIBUTION
	92-U	-238	102	3.600+ 1	1.000+ 0	63 1272	19	ELASTIC ANGULAR DISTRIBUTION
	92-U	-238	102	8.910+ 1	2.730+ 0	75 3944	9	ELASTIC ANGULAR DISTRIBUTION
	92-U	-238	102	3.000+ 0	7.000+ 0	65 1264	39	ELASTIC ANGULAR DISTRIBUTION
	92-U	-238	102	7.000+ 0	1.400+ 1	73 3633	16	ELASTIC ANGULAR DISTRIBUTION
	92-U	-238	102	1.410+ 1	1.410+ 1	68 2085	15	ELASTIC ANGULAR DISTRIBUTION
	92-U	-238	105	1.500+ 0	5.500+ 0	71 7645	119	TOTAL SCATTERING ANGULAR DISTRIBUTION
	92-U	-238	105	1.4340+ 0	4.920+ 0	73 3453	39	TOTAL SCATTERING ANGULAR DISTRIBUTION
	92-U	-238	105	2.000+ 0	2.000+ 0	69 1284	11	TOTAL SCATTERING ANGULAR DISTRIBUTION
	92-U	-238	111	1.060+ 1	1.620+ 0	68 1267	95	N,N' ANGULAR DISTRIBUTION
	92-U	-238	111	1.250+ 1	1.250+ 0	70 3283	93	N,N' ANGULAR DISTRIBUTION
	92-U	-238	111	5.500+ 1	1.890+ 0	58 397	18	N,N' ANGULAR DISTRIBUTION
	92-U	-238	111	8.910+ 1	2.730+ 0	75 3944	18	N,N' ANGULAR DISTRIBUTION
	92-U	-238	111	1.350+ 0	1.580+ 0	59 1274	4	N,N' ANGULAR DISTRIBUTION
	92-U	-238	111	2.450+ 0	2.450+ 0	56 476	1	N,N' ANGULAR DISTRIBUTION
	92-U	-238	111	1.350+ 0	1.580+ 0	59 1274	2	N,N' ANGULAR DISTRIBUTION
	92-U	-238	111	1.500+ 0	2.300+ 0	71 7645	119	N,N' ANGULAR DISTRIBUTION
	92-U	-238	111	2.000+ 0	2.000+ 0	58 397	2	N,N' ANGULAR DISTRIBUTION
	92-U	-238	111	2.000+ 0	2.000+ 0	65 1264	18	N,N' ANGULAR DISTRIBUTION
	92-U	-238	111	2.000+ 1	1.100+ 0	70 3283	36	N,N' ANGULAR DISTRIBUTION
	92-U	-238	122	1.410+ 1	1.410+ 1	70 3303	21	N,F ANGULAR DISTRIBUTION
	92-U	-238	122	1.470+ 1	1.470+ 1	67 3294	8	N,F ANGULAR DISTRIBUTION
	92-U	-238	122	1.500+ 0	2.300+ 0	71 7645	3	N,F ANGULAR DISTRIBUTION
	92-U	-238	124	1.090+ 0	1.480+ 1	66 1027	6	N,X GAMMA ANGULAR DISTRIBUTION
	92-U	-238	124	1.040+ 0	1.040+ 0	59 1019	3	N,X GAMMA ANGULAR DISTRIBUTION
	92-U	-238	124	3.020+ 1	3.020+ 1	59 1019	22	N,X GAMMA ANGULAR DISTRIBUTION
	92-U	-238	124	1.090+ 0	1.480+ 1	66 1027	52	N,X GAMMA ANGULAR DISTRIBUTION
	92-U	-238	204	1.400+ 1	1.400+ 1	57 338	31	NEUTRON EMISSION ENERGY DISTRIBUTION
	92-U	-238	222	2.086+ 0	4.908+ 0	65 1265	79	N,F ENERGY DISTRIBUTION
	92-U	-238	224	2.500+ 0	2.500+ 0	66 1561	56	N,X GAMMA ENERGY DISTRIBUTION
	92-U	-238	311	6.440+ 0	8.560+ 0	73 3453	1184	N,N' DIFF. ENERGY-ANGLE DISTRIBUTION
	92-U	-238	452	3.000+ 1	1.170+ 0	63 1272	85	ELASTIC LEGENDRE EXPANSIONS OF ANGULAR DIST.
	92-U	-238	455	8.500+ 1	1.495+ 0	63 1272	130	TOTAL SCATTERING LEGENDRE EXPANSIONS OF ANGULAR DIST.
	92-U	-238	521	5.000+ 7	1.500+ 1	60 897	1	ABSORPTION RESONANCE INTEGRAL
	92-U	-238	523	4.000+ 7	1.500+ 1	56 1405	1	N,GAMMA RESONANCE INTEGRAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92238

07/04/76

ECLIL-7500 REACTION INDEX (ZA ORDERED)

ZA = 92238

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	92-U-238 523	5.000-	7	1.400+	1	63 1310	1 N,GAMMA RESONANCE INTEGRAL
N	92-U-238 523	5.000-	7	1.500+	1	69 3680	1 N,GAMMA RESONANCE INTEGRAL
N	92-U-238 523	5.000-	7	1.500+	1	74 3621	1 N,GAMMA RESONANCE INTEGRAL
C	92-U-238 523	5.200-	7	1.500+	1	62 344	1 N,GAMMA RESONANCE INTEGRAL
C	92-U-238 523	5.500-	7	1.500+	1	62 1435	1 N,GAMMA RESONANCE INTEGRAL
N	92-U-238 606	1.400+	1	1.400+	1	57 338	9 NONELASTIC EMISSION ANGULAR DIST.-INTEGRAL E1-E2
N	92-U-238 872	1.442-	1	2.917+	1	75 3619	239 N,F CROSS SECTION RATIO
N	92-U-238 872	4.000-	1	1.400+	0	70 3173	5 N,F CROSS SECTION RATIO
N	92-U-238 872	6.437-	1	2.193+	1	75 3805	224 N,F CROSS SECTION RATIO
C	92-U-238 872	8.980-	1	5.330+	0	72 3249	22 N,F CROSS SECTION RATIO
N	92-U-238 872	1.090+	0	3.031+	0	75 3592	30 N,F CROSS SECTION RATIO
N	92-U-238 872	1.324+	0	3.041+	1	74 3800	147 N,F CROSS SECTION RATIO
N	92-U-238 872	1.500+	0	5.000+	0	68 1362	14 N,F CROSS SECTION RATIO
N	92-U-238 872	2.000+	0	3.000+	0	72 3190	6 N,F CROSS SECTION RATIO
N	92-U-238 872	2.250+	0	1.410+	1	64 1090	3 N,F CROSS SECTION RATIO
N	92-U-238 872	5.330+	0	1.032+	1	72 3629	20 N,F CROSS SECTION RATIO
N	92-U-238 872	1.460+	1	1.460+	1	75 3901	1 N,F CROSS SECTION RATIO
N	92-U-238 873	2.530-	8	2.530-	8	55 191	1 N,GAMMA CROSS SECTION RATIO
N	92-U-238 873	2.000-	2	1.200+	0	74 3535	54 N,GAMMA CROSS SECTION RATIO
N	92-U-238 873	1.210-	1	2.730+	0	71 3498	48 N,GAMMA CROSS SECTION RATIO
N	92-U-238 873	1.300-	1	1.400+	0	70 3173	12 N,GAMMA CROSS SECTION RATIO
N	92-U-238 873	4.000-	1	4.000-	1	71 3821	1 N,GAMMA CROSS SECTION RATIO
N	92-U-238 897	2.000+	0	2.000+	0	55 1341	1 NU-BAR DELAYED CROSS SECTION RATIO
N	92-U-238 897	1.400+	1	1.400+	1	69 3958	1 NU-BAR DELAYED CROSS SECTION RATIO
N	92-U-238	2.530-	8	2.530-	8	70 4040	1 NUCLEAR TEMPERATURE
N	92-U-238	1.900+	0	2.300+	0	71 3645	2 NUCLEAR TEMPERATURE
N	92-U-238	2.086+	0	4.908+	0	65 1265	2 NUCLEAR TEMPERATURE
N	92-U-238	3.000+	0	7.000+	0	65 1264	6 NUCLEAR TEMPERATURE
N	92-U-238	1.400+	1	1.400+	1	58 1339	1 NUCLEAR TEMPERATURE
N	92-U-238	1.410+	1	1.410+	1	68 2085	2 NUCLEAR TEMPERATURE
N	92-U-238	1.410+	1	1.410+	1	68 2535	1 NUCLEAR TEMPERATURE
N	92-U-238	1.430+	1	1.430+	1	60 1325	2 NUCLEAR TEMPERATURE
N	92-U-238	1.430+	1	1.430+	1	69 2360	2 NUCLEAR TEMPERATURE
N	92-U-238	1.470+	1	1.470+	1	69 2359	1 NUCLEAR TEMPERATURE
C	92-U-238	0.000+	0	1.000+	4	68 1245	1 AVERAGE RESONANCE PARAMETERS
N	92-U-238	0.000+	0	1.890+	4	57 1247	4 AVERAGE RESONANCE PARAMETERS
N	92-U-238	0.000+	0	2.000+	4	55 862	4 AVERAGE RESONANCE PARAMETERS
N	92-U-238	0.000+	0	3.000+	4	56 201	4 AVERAGE RESONANCE PARAMETERS
N	92-U-238	0.000+	0	8.230+	4	68 1464	7 AVERAGE RESONANCE PARAMETERS
N	92-U-238	0.000+	0	1.000+	3	60 139	3 AVERAGE RESONANCE PARAMETERS
N	92-U-238	0.000+	0	1.000+	3	63 1251	3 AVERAGE RESONANCE PARAMETERS
N	92-U-238	0.000+	0	2.000+	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	92-U-238	0.000+	0	2.400+	3	71 3121	2 AVERAGE RESONANCE PARAMETERS
N	92-U-238	0.000+	0	3.900+	3	65 814	2 AVERAGE RESONANCE PARAMETERS
N	92-U-238	0.000+	0	4.600+	3	70 3556	12 AVERAGE RESONANCE PARAMETERS
C	92-U-238	6.600-	6	8.200+	4	66 1355	2 AVERAGE RESONANCE PARAMETERS
C	92-U-238	6.700-	6	3.710+	5	56 1238	2 AVERAGE RESONANCE PARAMETERS
C	92-U-238	2.000-	5	2.000+	4	56 1237	4 AVERAGE RESONANCE PARAMETERS
C	92-U-238	3.700-	5	2.370+	4	72 3256	1 AVERAGE RESONANCE PARAMETERS
N	92-U-238	6.000-	5	2.000+	3	70 3602	3 AVERAGE RESONANCE PARAMETERS
N	92-U-238	6.000-	5	2.000+	3	71 3127	3 AVERAGE RESONANCE PARAMETERS
N	92-U-238	6.350-	5	1.550+	3	75 3907	3 AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 92238

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 92238

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C 92-U	-238		6.600-	5 1.055-	3 70 3064	1	AVERAGE RESONANCE PARAMETERS
N 92-U	-238		6.600-	5 2.000-	3 70 3061	3	AVERAGE RESONANCE PARAMETERS
C 92-U	-238		1.000-	3 1.000-	1 68 2090	2	AVERAGE RESONANCE PARAMETERS
C 92-U	-238		3.000-	3 6.500-	1 64 1225	2	AVERAGE RESONANCE PARAMETERS
C 92-U	-238		1.000-	2 1.000-	1 64 1227	2	AVERAGE RESONANCE PARAMETERS
C 92-U	-238		1.000-	2 1.000-	0 66 1328	2	AVERAGE RESONANCE PARAMETERS
C 92-U	-238		3.000-	2 2.000-	1 60 727	2	AVERAGE RESONANCE PARAMETERS
92-U	-238		4.410-	6 1.733-	4 68 1245	31	RESONANCE PARAMETERS
92-U	-238		4.410-	6 2.051-	3 68 1464	475	RESONANCE PARAMETERS
92-U	-238		6.650-	6 6.650-	6 52 1236	2	RESONANCE PARAMETERS
92-U	-238		6.650-	6 8.231-	4 66 1355	65	RESONANCE PARAMETERS
N 92-U	-238		6.650-	6 4.593-	3 70 3556	641	RESONANCE PARAMETERS
92-U	-238		6.670-	6 6.620-	5 71 1493	3	RESONANCE PARAMETERS
92-U	-238		6.670-	6 2.100-	4 55 902	54	RESONANCE PARAMETERS
92-U	-238		6.670-	6 2.370-	4 57 1247	68	RESONANCE PARAMETERS
N 92-U	-238		6.670-	6 1.169-	4 76 3955	22	RESONANCE PARAMETERS
92-U	-238		6.680-	6 6.680-	6 63 19	1	RESONANCE PARAMETERS
92-U	-238		6.680-	6 1.020-	5 61 1208	2	RESONANCE PARAMETERS
92-U	-238		6.690-	6 4.050-	4 56 201	54	RESONANCE PARAMETERS
92-U	-238		6.700-	6 3.710-	5 56 1238	18	RESONANCE PARAMETERS
92-U	-238		6.700-	6 4.180-	4 55 862	44	RESONANCE PARAMETERS
92-U	-238		1.020-	5 2.639-	4 71 3142	5	RESONANCE PARAMETERS
N 92-U	-238		2.090-	5 4.662-	3 75 3908	352	RESONANCE PARAMETERS
92-U	-238		2.120-	5 2.000-	4 56 1237	32	RESONANCE PARAMETERS
92-U	-238		3.640-	5 1.802-	3 63 1251	182	RESONANCE PARAMETERS
92-U	-238		3.653-	5 7.050-	4 62 1253	42	RESONANCE PARAMETERS
N 92-U	-238		6.351-	5 1.548-	3 75 3907	114	RESONANCE PARAMETERS
92-U	-238		6.600-	5 1.053-	3 70 3064	56	RESONANCE PARAMETERS
92-U	-238		6.600-	5 5.762-	3 70 3061	106	RESONANCE PARAMETERS
N 92-U	-238		6.600-	5 1.197-	3 71 3317	69	RESONANCE PARAMETERS
N 92-U	-238		6.600-	5 5.762-	3 70 3602	754	RESONANCE PARAMETERS
92-U	-238		1.028-	4 9.970-	4 60 139	172	RESONANCE PARAMETERS
92-U	-238		2.374-	4 3.904-	3 65 814	213	RESONANCE PARAMETERS
N 92-U	-238		5.185-	4 5.952-	4 73 3269	22	RESONANCE PARAMETERS
92-U	-238		7.652-	4 3.598-	3 71 3127	141	RESONANCE PARAMETERS
92-U	-239	22	1.500+	0 2.250+	0 70 2273	4	N.F.
92-U	-239	72	2.500-	8 2.500-	8 56 1204	1	N.F.
92-U	-239	72	2.500-	8 2.500-	8 57 1195	1	N.F.
92-U	-242	73	2.000-	2 2.000-	2 68 2088	1	N.GAMMA
92-U	-243	73	2.000-	2 2.000-	2 68 2088	1	N.GAMMA
92-U	-244	73	2.000-	2 2.000-	2 68 2088	1	N.GAMMA
92-U	-245	73	2.000-	2 2.000-	2 68 2088	1	N.GAMMA
92-U	-246	73	2.000-	2 2.000-	2 68 2088	1	N.GAMMA
92-U	-247	73	2.000-	2 2.000-	2 68 2088	1	N.GAMMA
92-U	-248	73	2.000-	2 2.000-	2 68 2088	1	N.GAMMA
92-U	-249	99	2.000-	2 2.000-	2 68 2088	3	ALPHA
UO2		1	1.281-	9 6.180-	8 68 2191	125	TOTAL
UO2		5	2.510-10	1.092-	9 69 2508	7	TOTAL SCATTERING
UO2		21	2.510-10	1.092-	9 69 2508	7	ABSORPTION
C 93-NP	-235	73	0.000+	0 0.000+	0 69 2508	366	THERMAL SCATTERING LAW-S(ALPHA,BETA)
93-NP	-235	22	2.500-	8 2.500-	8 72 3267	1	N.GAMMA
						1	N.F.

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 93236

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 93235

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	93-NP-236	46	2.530-8	2.530-8	61 1088	1	NU-TAR PROMPT
	93-NP-236	72	2.500-8	2.500-8	55 13	1	N,F
N	93-NP-236	862	1.400+1	1.400+1	75 3559	1	SPECTRUM AVERAGED CROSS SECTION
	93-NP-237	1	8.400-9	9.700-6	55 956	88	CROSS SECTION RATIO
	93-NP-237	1	2.016-8	2.876-6	57 982	310	TOTAL
	93-NP-237	1	2.157-7	4.133-5	61 948	744	TOTAL
N	93-NP-237	1	6.263-7	3.998-3	73 1498	13789	TOTAL
	93-NP-237	1	2.700-6	1.200-2	59 68	190	TOTAL
N	93-NP-237	12	1.377+1	1.495+1	73 3450	5	N,2N
	93-NP-237	12	1.450+1	1.450+1	61 745	1	N,2N
	93-NP-237	12	1.377+1	1.495+1	69 2913	5	N,2N
N	93-NP-237	12	1.377+1	1.495+1	73 3450	5	N,2N
	93-NP-237	22	2.530-8	5.250-6	59 241	97	N,F
N	93-NP-237	22	2.729-6	3.525-2	73 3921	3687	N,F
N	93-NP-237	22	2.009-5	5.197-5	71 3646	807	N,F
C	93-NP-237	22	3.509-5	2.848-0	70 943	2300	N,F
	93-NP-237	22	1.000-2	1.500+0	59 624	24	N,F
	93-NP-237	22	2.400-2	2.400-2	65 1072	1	N,F
	93-NP-237	22	4.000-2	5.050-1	65 1081	5	N,F
N	93-NP-237	22	9.991-2	2.100+0	73 3900	1582	N,F
N	93-NP-237	22	2.002-1	7.657+0	71 3496	102	N,F
	93-NP-237	22	2.500-1	3.000+0	47 179	16	N,F
	93-NP-237	22	4.600-1	1.400+1	57 345	52	N,F
	93-NP-237	22	9.000-1	1.970+0	59 551	58	N,F
	93-NP-237	22	1.000+0	4.500+0	68 1362	12	N,F
	93-NP-237	22	1.003+0	1.410+1	64 1090	4	N,F
	93-NP-237	22	1.070+0	8.070+0	67 1500	17	N,F
	93-NP-237	22	2.500+0	8.300+0	58 1234	12	N,F
	93-NP-237	22	2.500+0	2.640+1	63 983	28	N,F
N	93-NP-237	22	3.500+0	4.300+0	73 3749	7	N,F
	93-NP-237	22	9.500+0	2.170+1	60 740	17	N,F
	93-NP-237	22	1.250+1	1.750+1	67 1507	11	N,F
N	93-NP-237	22	1.410+1	1.410+1	70 3867	1	N,F
	93-NP-237	22	1.460+1	1.460+1	58 528	1	N,F
	93-NP-237	23	2.530-8	2.530-8	56 166	1	N,GAMMA
N	93-NP-237	23	1.210-1	7.790-1	71 3498	7	N,GAMMA
N	93-NP-237	23	1.210-1	2.730+0	74 3498	23	N,GAMMA
	93-NP-237	23	1.520+1	1.505+0	67 115	8	N,GAMMA
	93-NP-237	26	1.450+1	1.450+1	59 550	1	N,P
	93-NP-237	43	0.000+0	0.000+0	67 3182	1	COHERENT SCATTERING
N	93-NP-237	62	1.090+1	1.090+1	74 3893	1	N,2N
	93-NP-237	71	2.500-8	2.500-8	58 1162	1	ABSORPTION
	93-NP-237	72	2.500-8	2.500-8	46 1174	1	N,F
	93-NP-237	72	2.300-1	2.300-1	65 1125	1	N,F
N	93-NP-237	72	1.000+0	1.000+0	73 3749	2	N,F
	93-NP-237	73	2.500-8	2.500-8	69 2098	1	N,GAMMA
	93-NP-237	96	1.403+0	1.670+0	58 1161	2	NU-P-9 PROMPT
	93-NP-237	96	2.000+0	2.000+0	61 1124	1	NU-TAR PROMPT
	93-NP-237	96	2.500+0	2.500+0	58 1198	1	NU-TAR PROMPT
C	93-NP-237	521	5.000-7	1.500+1	58 1162	1	ABSORPTION
C	93-NP-237	521	5.000-7	1.500+1	68 2779	1	ABSORPTION
C	93-NP-237	523	5.000-7	1.500+1	69 2098	1	N,GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-334 ***

ZA = 93237

07/04/76

EC5IL-7600 REACTION INDEX (ZA ORDERED)

ZA = 93237

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	93-NP-237	872	4.000-	2 5.050-	1 65 1091	5	N,F CROSS SECTION RATIO
	93-NP-237	872	1.000+	0 4.500+	0 68 1352	12	N,F CROSS SECTION RATIO
	93-NP-237	872	1.000+	0 1.410+	1 64 1090	4	N,F CROSS SECTION RATIO
N	93-NP-237	873	1.210-	1 2.730+	0 71 3498	15	N,GAMMA CROSS SECTION RATIO
C	93-NP-237		0.000+	0 2.400-	5 58 944	2	AVERAGE RESONANCE PARAMETERS
N	93-NP-237		0.000+	0 4.000-	5 66 1499	3	AVERAGE RESONANCE PARAMETERS
N	93-NP-237		0.000+	0 5.000-	5 71 3111	3	AVERAGE RESONANCE PARAMETERS
C	93-NP-237		0.000+	0 1.200-	2 59 68	2	AVERAGE RESONANCE PARAMETERS
C	93-NP-237		4.890-	7 1.488-	6 57 982	1	AVERAGE RESONANCE PARAMETERS
C	93-NP-237		4.900-	7 3.200-	5 59 295	5	RESONANCE PARAMETERS
	93-NP-237		4.890-	7 1.488-	6 57 982	2	RESONANCE PARAMETERS
	93-NP-237		4.890-	7 3.510-	5 59 295	60	RESONANCE PARAMETERS
	93-NP-237		4.890-	7 3.512-	5 59 295	32	RESONANCE PARAMETERS
	93-NP-237		4.900-	7 1.470-	6 61 1215	3	RESONANCE PARAMETERS
	93-NP-237		4.900-	7 7.500-	6 70 3080	14	RESONANCE PARAMETERS
	93-NP-237		5.000-	7 4.000-	6 55 956	3	RESONANCE PARAMETERS
C	93-NP-237		1.320-	6 2.353-	4 73 1498	508	RESONANCE PARAMETERS
N	93-NP-237		1.470-	6 8.840-	4 73 3838	112	RESONANCE PARAMETERS
	93-NP-237		3.860-	6 1.890-	5 59 68	15	RESONANCE PARAMETERS
N	93-NP-237		3.960-	6 1.554-	4 73 3921	379	RESONANCE PARAMETERS
	93-NP-237		4.293-	6 1.014-	4 61 1001	69	RESONANCE PARAMETERS
	93-NP-237		5.770-	6 5.040-	5 71 3111	42	RESONANCE PARAMETERS
N	93-NP-237		2.040-	5 5.037-	5 71 3645	28	RESONANCE PARAMETERS
C	93-NP-238	72	2.500-	8 2.500-	8 69 2525	1	N,F SPECTRUM AVERAGED CROSS SECTION
C	93-NP-238	522	5.000-	7 1.500+	1 69 2525	1	N,F RESONANCE INTEGRAL
	93-NP-239	73	2.500-	8 2.500-	8 56 168	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	93-NP-239	73	2.500-	8 2.500-	8 56 168	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-PU-236	46	-7.350+	0 -7.350+	0 56 1146	1	NU-BAR PROMPT
	94-PU-236	46	-7.350+	0 -7.350+	0 56 1147	1	NU-BAR PROMPT
	94-PU-236	72	2.500-	8 2.500-	8 59 1152	1	N,F SPECTRUM AVERAGED CROSS SECTION
	94-PU-236	72	2.500-	8 2.500-	8 61 1522	1	N,F SPECTRUM AVERAGED CROSS SECTION
	94-PU-237	72	2.500-	8 2.500-	8 59 1152	1	N,F SPECTRUM AVERAGED CROSS SECTION
	94-PU-237	72	2.500-	8 2.500-	8 61 1522	1	N,F SPECTRUM AVERAGED CROSS SECTION
	94-PU-238	1	8.200-	9 6.496-	3 67 1387	595	TOTAL
	94-PU-238	1	2.530-	8 2.530-	8 62 1210	1	TOTAL
	94-PU-238	21	2.530-	8 2.530-	8 67 1387	1	ABSORPTION
	94-PU-238	22	2.380-	8 4.200+	4 66 1305	197	N,F
	94-PU-238	22	2.530-	8 2.530-	8 58 1183	1	N,F
C	94-PU-238	22	2.090-	6 2.992+	4 66 1083	209	N,F
C	94-PU-238	22	1.791-	5 2.966+	0 69 2364	6215	N,F
C	94-PU-238	22	3.187-	5 2.983+	0 70 943	2366	N,F
C	94-PU-238	22	2.400-	3 2.400+	0 70 2522	31	N,F
	94-PU-238	22	4.500-	2 1.400+	0 66 1069	28	N,F
	94-PU-238	22	1.400-	1 1.740+	0 63 1081	75	N,F
	94-PU-238	22	4.400-	1 3.620+	0 70 2911	14	N,F
	94-PU-238	22	5.000-	1 1.690+	1 68 2353	20	N,F
	94-PU-238	22	1.000+	0 1.490+	1 67 1363	4	N,F
	94-PU-238	22	1.450+	1 1.450+	1 67 1518	1	N,F
	94-PU-238	23	2.500-	8 2.500-	8 57 1348	1	N,GAMMA
C	94-PU-238	23	1.779-	5 1.993-	1 71 3273	3460	N,GAMMA
	94-PU-238	46	-7.010+	0 -7.010+	0 56 1146	1	NU-BAR PROMPT
	94-PU-238	46	-7.010+	0 -7.010+	0 56 1147	1	NU-BAR PROMPT

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** I-335 ***

ZA = 94238

07/04/76

EC31L-7600 REACTION INDEX (ZA ORDERED)

ZA = 94238

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-238	72		2.500- 8	2.500- 8	51 1188	1	N,F SPECTRUM AVERAGED CROSS SECTION
94-PU-238	72		2.500- 8	2.500- 8	57 386	1	N,F SPECTRUM AVERAGED CROSS SECTION
94-PU-238	72		2.500- 8	2.500- 8	68 2353	1	N,F SPECTRUM AVERAGED CROSS SECTION
94-PU-238	72		2.000+ 0	2.000+ 0	65 1168	1	N,F SPECTRUM AVERAGED CROSS SECTION
94-PU-238	73		2.500- 8	2.500- 8	48 1179	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
94-PU-238	73		2.500- 8	2.500- 8	57 386	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
94-PU-238	73		2.500- 8	2.500- 8	57 1348	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
94-PU-238	522		6.000- 7	1.460+ 1	58 1163	1	N,F RESONANCE INTEGRAL
94-PU-238	523		5.000- 7	1.500+ 1	57 1348	1	N,GAMMA RESONANCE INTEGRAL
94-PU-238		C	0.000+ 0	1.900- 5	66 1252	2	AVERAGE RESONANCE PARAMETERS
94-PU-238		C	0.000+ 0	1.900- 4	67 1387	3	AVERAGE RESONANCE PARAMETERS
94-PU-238		C	2.900- 6	2.800- 4	66 1083	1	AVERAGE RESONANCE PARAMETERS
94-PU-238		N	1.860- 5	4.960- 4	73 3273	1	AVERAGE RESONANCE PARAMETERS
94-PU-238			-1.001- 5	1.920- 4	67 1387	24	RESONANCE PARAMETERS
94-PU-238			-5.000- 7	-5.000- 7	65 1235	1	RESONANCE PARAMETERS
94-PU-238			-5.000- 7	8.320- 5	62 1210	12	RESONANCE PARAMETERS
94-PU-238			2.890- 6	8.320- 5	66 1305	8	RESONANCE PARAMETERS
94-PU-238			2.910- 6	1.220- 4	66 1252	29	RESONANCE PARAMETERS
94-PU-238		N	1.860- 5	4.960- 4	73 3273	147	RESONANCE PARAMETERS
94-PU-238			1.510- 4	2.800- 4	66 1083	6	RESONANCE PARAMETERS
94-PU-238			1.140- 9	6.550- 7	55 995	174	TOTAL
94-PU-238			1.570- 8	1.870- 5	56 958	179	TOTAL
94-PU-238			2.910- 9	1.000- 7	61 1288	17	TOTAL
94-PU-238			4.070- 9	7.380- 7	51 308	56	TOTAL
94-PU-238			1.250- 8	1.100- 4	55 965	135	TOTAL
94-PU-238			1.380- 8	8.070- 5	58 936	324	TOTAL
94-PU-238			2.530- 8	2.530- 8	45 1246	1	TOTAL
94-PU-238			2.530- 8	5.000- 7	56 989	22	TOTAL
94-PU-238			2.250- 7	7.933- 2	58 959	508	TOTAL
94-PU-238			1.602- 6	1.023- 5	65 1011	337	TOTAL
94-PU-238		N	5.400- 6	3.999- 3	75 3919	17684	TOTAL
94-PU-238			5.480- 6	1.208- 4	57 964	742	TOTAL
94-PU-238			3.724- 5	4.707- 4	64 988	4090	TOTAL
94-PU-238			3.890- 5	1.065- 4	64 966	153	TOTAL
94-PU-238			1.500- 3	1.600- 1	54 6	2	TOTAL
94-PU-238			2.000- 3	2.000- 3	2 69 2905	1	TOTAL
94-PU-238			4.000- 2	2.000+ 1	52 951	61	TOTAL
94-PU-238			1.600- 1	5.990+ 0	73 3945	148	TOTAL
94-PU-238		N	4.960- 1	1.517+ 1	73 3255	1680	TOTAL
94-PU-238		C	6.505- 1	1.499+ 0	72 3146	392	TOTAL
94-PU-238			2.258+ 0	1.496+ 1	67 750	243	TOTAL
94-PU-238			7.050+ 0	1.425+ 1	57 22	5	TOTAL
94-PU-238			1.730+ 1	2.890+ 1	60 673	4	TOTAL
94-PU-238			2.850- 6	2.439- 4	2 67 1493	266	ELASTIC
94-PU-238			2.000- 3	2.000- 3	2 69 2905	1	ELASTIC
94-PU-238		C	3.000- 1	1.500+ 0	72 3146	148	ELASTIC
94-PU-238			5.000- 1	1.000+ 0	56 149	2	ELASTIC
94-PU-238			5.000- 1	1.000+ 0	57 444	2	ELASTIC
94-PU-238			5.000- 1	1.000+ 0	56 149	2	NONELASTIC
94-PU-238			9.000- 1	9.000- 1	61 754	1	NONELASTIC
94-PU-238			4.000+ 0	4.500+ 0	55 1383	2	NONELASTIC
94-PU-238			8.100+ 0	1.410+ 1	58 592	3	NONELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-336 ***

ZA = 94239

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 94239

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	94-PU-239	3		1.540+	1 1.840+	1 65 1228	2	NDNElastic
	94-PU-239	3		1.680+	1 1.680+	1 61 706	1	NDNElastic
	94-PU-239	3	8	2.500-	1 1.000+	0 57 444	4	NDNElastic
	94-PU-239	5	8	1.900-	1 3.800-	1 69 2898	5	TOTAL SCATTERING
	94-PU-239	5	8	3.000-	1 1.450+	0 2 67 885	127	TOTAL SCATTERING
N	94-PU-239	5	8	5.500-	1 2.000+	0 59 77	3	TOTAL SCATTERING
	94-PU-239	11		9.000-	1 9.000-	1 61 754	1	N,N'
	94-PU-239	11		2.000+	0 4.000+	0 69 2598	3	N,N'
	94-PU-239	11	8	2.500-	1 1.000+	0 2 68 2089	8	N,N'
C	94-PU-239	11	8	5.500-	1 2.000+	0 59 77	6	N,N'
	94-PU-239	21		2.500-	8 2.500-	8 55 1317	1	ABSORPTION
	94-PU-239	21		2.530-	8 2.530-	8 66 1131	1	ABSORPTION
	94-PU-239	21		2.530-	8 2.530-	8 66 1311	1	ABSORPTION
	94-PU-239	21		2.530-	8 2.530-	8 2 69 2915	1	ABSORPTION
N	94-PU-239	21		7.022-	7 1.941-	3 75 3263	1944	ABSORPTION
	94-PU-239	21		4.400-	3 4.880-	2 56 116	6	ABSORPTION
	94-PU-239	21		2.400-	2 2.400-	2 65 1364	1	ABSORPTION
	94-PU-239	21		2.400-	2 8.800-	1 58 1338	3	ABSORPTION
	94-PU-239	22		7.600-10	3.970-	9 70 3279	38	N,F
	94-PU-239	22		2.530-	9 4.730-	9 58 1196	10	N,F
	94-PU-239	22		4.300-	9 9.800-	7 55 968	56	N,F
	94-PU-239	22		5.000-	9 2.500-	6 56 967	143	N,F
	94-PU-239	22		6.800-	9 6.900-	4 56 955	176	N,F
	94-PU-239	22		1.060-	8 5.400-	7 51 991	78	N,F
	94-PU-239	22		1.220-	8 9.720-	4 55 956	237	N,F
	94-PU-239	22		1.919-	8 1.995-	6 70 2106	702	N,F
N	94-PU-239	22		1.981-	8 2.015-	5 70 3641	580	N,F
	94-PU-239	22		2.120-	8 9.800-	7 53 1430	31	N,F
C	94-PU-239	22		2.400-	8 3.460-	2 58 936	632	N,F
N	94-PU-239	22		2.526-	8 2.526-	8 70 3291	1	N,F
	94-PU-239	22		2.530-	8 2.530-	8 56 1199	1	N,F
	94-PU-239	22		2.530-	8 2.530-	8 57 1391	1	N,F
	94-PU-239	22		2.530-	8 2.530-	8 58 1164	1	N,F
	94-PU-239	22		2.530-	8 2.530-	8 59 1176	1	N,F
	94-PU-239	22		2.530-	8 2.530-	8 66 1311	1	N,F
	94-PU-239	22		2.530-	8 2.530-	8 66 1356	3	N,F
	94-PU-239	22		2.530-	8 2.530-	8 68 209	1	N,F
	94-PU-239	22		2.530-	8 1.000-	7 57 1181	2	N,F
	94-PU-239	22		2.530-	8 2.750-	7 65 1372	4	N,F
N	94-PU-239	22		2.530-	8 2.530-	8 68 3648	1	N,F
	94-PU-239	22		7.022-	7 1.941-	3 75 3263	1949	N,F
	94-PU-239	22		1.602-	6 1.023-	5 65 1011	337	N,F
C	94-PU-239	22		2.003-	6 1.976-	3 71 2106	2933	N,F
	94-PU-239	22		3.100-	6 9.860-	5 64 966	647	N,F
	94-PU-239	22		4.459-	6 2.088-	4 66 1349	2995	N,F
N	94-PU-239	22		5.550-	6 2.159-	2 66 1376	1395	N,F
C	94-PU-239	22		5.550-	6 2.305-	2 66 1294	1309	N,F
C	94-PU-239	22		1.191-	5 6.522-	3 65 604	4004	N,F
C	94-PU-239	22		2.003-	5 2.977-	2 66 1561	2804	N,F
N	94-PU-239	22		9.937-	5 9.863-	3 70 4055	96	N,F
C	94-PU-239	22		1.000-	4 2.993-	2 68 1080	5289	N,F
	94-PU-239	22		1.006-	4 2.864-	2 69 2358	314	N,F

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-337 ***

ZA = 94239

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 94239

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	94-PU-239	22		2.000-	4 3.460-	2 70 3315	26	N,F
N	94-PU-239	22		1.005-	3 1.004+	0 75 3905	294	N,F
	94-PU-239	22		1.014-	3 1.498-	2 64 992	99	N,F
	94-PU-239	22		1.630-	3 1.390+	0 64 957	42	N,F
	94-PU-239	22		2.000-	3 2.000-	3 68 2095	1	N,F
	94-PU-239	22		2.000-	3 2.000-	3 2 69 2906	1	N,F
	94-PU-239	22		4.500-	3 1.800-	1 66 1337	77	N,F
	94-PU-239	22		1.110-	2 1.008+	0 69 2599	46	N,F
	94-PU-239	22		2.400-	2 2.400-	2 65 1072	1	N,F
	94-PU-239	22		3.000-	2 3.000+	0 57 218	22	N,F
	94-PU-239	22		4.000-	2 5.050-	1 65 1091	5	N,F
	94-PU-239	22		5.000-	2 1.380+	0 57 18	13	N,F
	94-PU-239	22		1.170-	1 3.680-	1 2 68 2532	9	N,F
N	94-PU-239	22		1.400-	1 9.640-	1 75 3950	3	N,F
	94-PU-239	22		2.900-	1 2.530+	0 62 993	44	N,F
	94-PU-239	22		3.400-	1 2.560+	0 68 2195	47	N,F
	94-PU-239	22		6.800-	1 3.360+	0 58 994	40	N,F
	94-PU-239	22		1.000+	0 1.410+	1 64 1090	4	N,F
	94-PU-239	22		2.000+	0 2.110+	1 68 352	26	N,F
	94-PU-239	22		3.000+	0 8.300+	0 58 1234	13	N,F
	94-PU-239	22		1.310+	1 1.530+	1 66 1439	5	N,F
	94-PU-239	22		1.340+	1 1.940+	1 61 744	13	N,F
	94-PU-239	22		1.400+	1 1.400+	1 50 1413	1	N,F
	94-PU-239	22		1.410+	1 1.410+	1 58 771	1	N,F
	94-PU-239	22		1.410+	1 1.410+	1 70 3867	1	N,F
N	94-PU-239	22	9	4.008-	5 2.006-	2 68 3204	7052	N,F
C	94-PU-239	23		1.919-	8 1.987-	6 70 2106	695	N,GAMMA
	94-PU-239	23		2.530-	8 2.530-	8 63 1453	1	N,GAMMA
	94-PU-239	23		2.530-	8 2.530-	8 66 1131	1	N,GAMMA
C	94-PU-239	23		2.003-	6 1.976-	3 71 2108	2642	N,GAMMA
C	94-PU-239	23		1.006-	4 2.864-	2 69 2358	304	N,GAMMA
N	94-PU-239	23		2.000-	4 6.000-	3 70 3315	22	N,GAMMA
	94-PU-239	23		1.770-	2 6.000-	1 66 1025	41	N,GAMMA
	94-PU-239	23		2.400-	2 2.400-	2 65 1342	1	N,GAMMA
	94-PU-239	23		2.400-	2 2.400-	1 53 1338	2	N,GAMMA
	94-PU-239	23		2.400-	2 9.000-	1 56 1360	5	N,GAMMA
	94-PU-239	23		3.000-	2 1.000+	0 62 709	9	N,GAMMA
	94-PU-239	24		1.090+	0 1.480+	1 66 1027	6	N,X GAMMA
	94-PU-239	26		1.450+	1 1.450+	1 59 550	1	N,P
N	94-PU-239	43		4.200-	8 4.200-	8 62 1275	1	COHERENT SCATTERING
N	94-PU-239	46		0.000+	0 0.000+	0 55 1097	1	NU-BAR PROMPT
N	94-PU-239	46		0.000+	0 0.000+	0 55 1098	1	NU-BAR PROMPT
N	94-PU-239	46		0.000+	0 0.000+	0 56 1065	1	NU-BAR PROMPT
N	94-PU-239	46		0.000+	0 0.000+	0 58 1063	1	NU-BAR PROMPT
N	94-PU-239	46		0.000+	0 0.000+	0 58 1172	1	NU-BAR PROMPT
N	94-PU-239	46		0.000+	0 0.000+	0 59 1092	1	NU-BAR PROMPT
N	94-PU-239	46		0.000+	0 0.000+	0 65 1085	1	NU-BAR PROMPT
N	94-PU-239	46		0.000+	0 0.000+	0 67 1417	1	NU-BAR PROMPT
N	94-PU-239	46		0.000+	0 1.630+	0 72 3884	22	NU-BAR PROMPT
N	94-PU-239	46		0.000+	0 4.020+	0 65 1074	5	NU-BAR PROMPT
N	94-PU-239	46		0.000+	0 1.450+	1 63 1073	7	NU-BAR PROMPT
N	94-PU-239	46		2.500-	8 1.600+	0 73 4035	23	NU-BAR PROMPT

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-338 ***

ZA = 94239

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 94239

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-239	46		2.530- 8	2.530- 8	44 1318	1	NU-BAR PROMPT
94-PU-239	46		2.530- 8	2.530- 8	44 1300	1	NU-BAR PROMPT
94-PU-239	46		2.530- 8	2.530- 8	55 1099	1	NU-BAR PROMPT
94-PU-239	46		2.530- 8	2.530- 8	58 1445	1	NU-BAR PROMPT
94-PU-239	46		7.700- 2	1.150+ 0	69 2600	16	NU-BAR PROMPT
94-PU-239	46		8.000- 2	8.000- 2	56 1145	1	NU-BAR PROMPT
N 94-PU-239	46		8.000- 2	1.150+ 0	70 1866	18	NU-BAR PROMPT
N 94-PU-239	46		8.000- 2	1.610+ 0	72 4021	16	NU-BAR PROMPT
N 94-PU-239	46		2.000- 1	1.900+ 0	72 3880	8	NU-BAR PROMPT
N 94-PU-239	46		2.100- 1	2.279+ 1	69 211	75	NU-BAR PROMPT
94-PU-239	46		5.000- 1	1.000+ 0	56 149	2	NU-BAR PROMPT
94-PU-239	46		8.900- 1	4.700+ 0	70 3314	41	NU-BAR PROMPT
94-PU-239	46		1.360+ 0	1.479+ 1	67 211	27	NU-BAR PROMPT
94-PU-239	46		4.000+ 0	4.500+ 0	55 1393	2	NU-BAR PROMPT
94-PU-239	46		4.000+ 0	1.500+ 1	58 1121	2	NU-BAR PROMPT
94-PU-239	46		4.220+ 0	1.480+ 1	68 1087	5	NU-BAR PROMPT
94-PU-239	46		8.000+ 0	8.000+ 0	69 2092	1	NU-BAR PROMPT
94-PU-239	46		1.400+ 1	1.400+ 1	61 1269	1	NU-BAR PROMPT
94-PU-239	46		1.410+ 1	1.410+ 1	56 1321	1	NU-BAR PROMPT
94-PU-239	46		1.420+ 1	1.420+ 1	60 1375	1	NU-BAR PROMPT
N 94-PU-239	46 80		1.500- 8	2.350- 5	73 4089	5	NU-BAR PROMPT
N 94-PU-239	46 80		2.500- 8	1.600+ 0	73 4035	23	NU-BAR PROMPT
C 94-PU-239	46 80		1.090- 5	1.671- 4	71 3246	46	NU-BAR PROMPT
94-PU-239	47		2.500- 8	2.500- 8	47 1418	1	NU-BAR DELAYED
94-PU-239	47		2.500- 8	2.500- 8	47 1419	1	NU-BAR DELAYED
94-PU-239	47		2.500- 8	2.500- 8	47 1420	1	NU-BAR DELAYED
94-PU-239	47		2.500- 8	2.500- 8	57 1066	1	NU-BAR DELAYED
94-PU-239	47		2.500- 8	2.500- 8	71 3159	1	NU-BAR DELAYED
N 94-PU-239	47		5.000- 2	1.750+ 0	72 3495	18	NU-BAR DELAYED
94-PU-239	47		2.000+ 0	2.000+ 0	55 1341	1	NU-BAR DELAYED
94-PU-239	47		3.100+ 0	1.490+ 1	69 1533	2	NU-BAR DELAYED
94-PU-239	47		1.450+ 1	1.450+ 1	61 1423	1	NU-BAR DELAYED
94-PU-239	48		7.000- 9	3.600- 7	58 1390	17	ETA
94-PU-239	48		1.750- 2	6.800- 7	56 990	28	ETA
94-PU-239	48		2.500- 8	2.500- 8	55 1099	1	ETA
94-PU-239	48		2.500- 8	5.700- 8	65 1076	2	ETA
94-PU-239	48		2.530- 8	2.530- 8	59 1285	1	ETA
94-PU-239	48		2.530- 8	2.530- 8	62 1296	1	ETA
94-PU-239	48		2.530- 8	2.530- 8	67 1523	1	ETA
94-PU-239	48		2.530- 8	2.530- 8	70 1289	1	ETA
94-PU-239	48		3.900- 9	1.104- 5	65 1011	553	ETA
94-PU-239	48		4.100- 9	3.510- 7	56 2318	10	ETA
C 94-PU-239	48		1.000- 4	9.063- 4	68 1080	3762	ETA
94-PU-239	48		2.400- 2	2.400- 2	65 1342	1	ETA
94-PU-239	48		2.400- 2	8.800- 1	58 1338	3	ETA
94-PU-239	48		2.400- 2	9.000- 1	56 1360	5	ETA
94-PU-239	48		1.400+ 1	1.400+ 1	61 1269	1	ETA
94-PU-239	48 80		1.020- 8	3.000- 6	55 1212	20	ETA
94-PU-239	48 80		2.530- 8	5.000- 7	56 989	30	ETA
C 94-PU-239	48 80		3.700- 8	6.100- 5	56 954	260	ETA
94-PU-239	49		1.100- 9	1.100- 9	58 1280	1	ALPHA
94-PU-239	49		7.000- 9	3.600- 7	58 1390	17	ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 94239

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 94239

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-239	49		1.750-8	6.800-7	56 990	28	ALPHA
94-PU-239	49		1.750-8	3.530-5	59 936	130	ALPHA
94-PU-239	49		2.500-8	2.500-8	55 1099	1	ALPHA
94-PU-239	49		2.500-8	5.700-8	65 1076	2	ALPHA
94-PU-239	49		2.530-8	2.530-8	59 1285	1	ALPHA
94-PU-239	49		2.530-8	2.530-8	62 1289	1	ALPHA
94-PU-239	49		2.530-8	2.530-8	62 1296	1	ALPHA
94-PU-239	49		2.530-8	2.530-8	66 1131	1	ALPHA
94-PU-239	49		2.530-8	2.530-8	66 1311	1	ALPHA
94-PU-239	49		2.530-8	2.530-8	66 1312	1	ALPHA
94-PU-239	49		2.530-8	2.530-8	67 1523	1	ALPHA
94-PU-239	49		2.530-8	2.530-8	70 2915	1	ALPHA
N 94-PU-239	49		2.530-8	5.000-7	56 989	30	ALPHA
94-PU-239	49		3.700-8	6.100-5	56 984	260	ALPHA
94-PU-239	49		3.900-8	1.104-5	65 1011	517	ALPHA
C 94-PU-239	49		6.952-6	2.864-2	69 2358	1130	ALPHA
N 94-PU-239	49		7.850-6	9.863-3	70 4055	101	ALPHA
N 94-PU-239	49		2.000-4	6.000-3	70 3315	22	ALPHA
N 94-PU-239	49		2.000-4	1.250-2	71 4045	25	ALPHA
94-PU-239	49		2.000-3	2.000-3	2 69 2906	1	ALPHA
N 94-PU-239	49		2.000-3	1.400-1	74 4043	4	ALPHA
94-PU-239	49		9.400-3	1.000+0	71 3318	52	ALPHA
94-PU-239	49		1.770-2	6.000-1	66 1025	41	ALPHA
94-PU-239	49		2.400-2	2.400-2	65 1342	1	ALPHA
94-PU-239	49		2.400-2	2.400-1	58 1338	2	ALPHA
94-PU-239	49		2.400-2	9.000-1	56 1360	5	ALPHA
94-PU-239	49		3.000-2	1.000+0	62 709	9	ALPHA
94-PU-239	51		1.500-4	1.150-1	64 988	24	TOTAL
N 94-PU-239	71		1.100-8	1.975-1	75 3263	280	SPECTRUM AVERAGED CROSS SECTION
94-PU-239	71		2.500-8	2.500-8	66 1131	1	ABSORPTION
N 94-PU-239	72		1.100-8	1.975-1	75 3263	251	N.F.
94-PU-239	72		2.500-8	2.500-8	59 1176	2	N.F.
N 94-PU-239	72		2.530-8	2.530-8	73 3469	1	N.F.
94-PU-239	72		1.200-6	2.458-2	2 65 1094	49	N.F.
N 94-PU-239	72		1.500-5	9.500-3	73 3828	27	N.F.
N 94-PU-239	72		7.500-5	1.500-1	72 3263	21	N.F.
94-PU-239	72		1.500-4	2.500-2	70 2106	40	N.F.
94-PU-239	72		1.500-4	2.530-2	2 69 2358	17	N.F.
N 94-PU-239	72		1.500-4	2.500-2	68 1080	29	N.F.
N 94-PU-239	72		1.250-3	9.500-1	75 3905	33	N.F.
94-PU-239	72		3.000-2	5.000+0	57 198	5	N.F.
94-PU-239	72		2.300-1	2.300-1	65 1125	1	N.F.
94-PU-239	73		2.500-8	2.500-8	57 1186	1	N.GAMMA
94-PU-239	73		2.500-8	2.500-8	66 1131	1	N.GAMMA
94-PU-239	73		1.500-4	2.530-2	2 69 2358	17	N.GAMMA
N 94-PU-239	73		1.500-4	2.500-2	68 1080	20	N.GAMMA
94-PU-239	73		1.500-4	1.500-1	72 3263	28	N.GAMMA
N 94-PU-239	96		2.530-8	2.530-8	67 1417	1	NU-BAR PROMPT
94-PU-239	96		1.400+0	1.670+0	58 1161	3	NU-BAR PROMPT
94-PU-239	96		2.000+0	2.000+0	56 1139	1	NU-BAR PROMPT
94-PU-239	96		2.000+0	2.000+0	57 1120	1	NU-BAR PROMPT
94-PU-239	96		2.000+0	2.000+0	58 1445	1	NU-BAR PROMPT

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-340 ***

ZA = 94239

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 94239

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-239	96		2.000+ 0	2.000+ 0	70 3385	1	NU-BAR PROMPT
94-PU-239	97		6.000- 1	6.000- 1	45 1424	1	NU-BAR DELAYED
94-PU-239	97		2.000+ 0	2.000+ 0	55 1427	1	NU-BAR DELAYED
94-PU-239	97		2.000+ 0	2.000+ 0	57 1066	1	NU-BAR DELAYED
94-PU-239	98		2.500- 8	2.500- 8	44 1318	1	ETA
94-PU-239	98		2.500- 8	2.500- 8	55 1316	1	ETA
94-PU-239	98		2.500- 8	2.500- 8	55 1317	1	ETA
94-PU-239	98		2.500- 8	2.500- 8	58 1172	1	ETA
94-PU-239	98	80	3.300- 7	1.380- 5	55 1159	4	ETA
94-PU-239	99		2.500- 8	2.500- 8	55 1315	1	ALPHA
94-PU-239	99		2.500- 8	2.500- 8	66 1131	1	ALPHA
94-PU-239	99		3.000- 7	2.705- 2	70 2106	58	ALPHA
94-PU-239	99		3.000- 7	2.705- 2	69 2358	33	ALPHA
94-PU-239	99		2.350- 5	1.500- 4	65 1229	4	ALPHA
94-PU-239	99		1.500- 4	2.500- 2	68 1080	20	ALPHA
94-PU-239	99		3.500- 4	2.750- 2	68 2107	20	ALPHA
94-PU-239	102		5.000- 1	1.000+ 0	57 444	17	ELASTIC
94-PU-239	102		1.500+ 0	5.500+ 0	71 265	74	ELASTIC
94-PU-239	102		2.000+ 0	4.000+ 0	69 2598	27	ELASTIC
94-PU-239	105	1	1.490- 1	9.840- 1	2 68 2059	72	TOTAL SCATTERING
94-PU-239	105	8	1.302+ 0	1.565+ 0	2 68 2089	22	TOTAL SCATTERING
94-PU-239	111	1	2.450- 1	1.334+ 0	2 68 2089	39	N,N'
94-PU-239	111	8	6.680- 1	1.334+ 0	2 68 2089	6	N,N'
94-PU-239	124		1.090+ 0	1.480+ 1	66 1027	6	N,X GAMMA
94-PU-239	124	10	3.020+ 1	3.020+ 1	69 1019	24	N,X GAMMA
94-PU-239	124	10	1.000+ 0	2.000+ 0	74 3569	28	N,X GAMMA
94-PU-239	124	10	1.090+ 0	1.480+ 1	66 1027	63	N,X GAMMA
94-PU-239	124	10	1.400+ 1	1.400+ 1	74 3544	45	N,X GAMMA
94-PU-239	203		2.000+ 0	4.000+ 0	69 2598	60	NONELASTIC
94-PU-239	211		2.000+ 0	4.000+ 0	69 2598	40	N,N'
94-PU-239	222	80	2.530- 8	2.530- 8	68 2363	18	N,F
94-PU-239	222	80	1.300- 1	1.300- 1	65 1265	48	N,F
94-PU-239	324		1.000+ 0	2.000+ 0	72 3443	28	N,X GAMMA
94-PU-239	324		4.000+ 0	7.500+ 0	70 1497	51	N,X GAMMA
94-PU-239	403		2.000+ 0	4.000+ 0	69 2598	3	NONELASTIC
94-PU-239	452		3.000- 1	1.500+ 0	72 3146	723	ELASTIC
94-PU-239	455	8	3.000- 1	1.450+ 0	2 67 685	604	TOTAL SCATTERING
94-PU-239	522		4.500- 7	1.450+ 1	64 1175	1	N,F
94-PU-239	522		5.000- 7	1.000+ 0	66 1299	1	N,F
94-PU-239	522		5.000- 7	1.450+ 1	61 1137	1	N,F
94-PU-239	522		5.000- 7	1.500+ 1	67 3755	1	N,F
94-PU-239	522		3.000- 6	1.500+ 1	68 2086	1	N,F
94-PU-239	522		3.000- 6	1.500+ 1	71 3270	1	N,F
94-PU-239	522		6.000- 6	3.000- 5	70 3641	6	N,F
94-PU-239	523		3.000- 6	1.500+ 1	68 2086	1	N,GAMMA
94-PU-239	523		3.000- 6	1.500+ 1	71 3270	1	N,GAMMA
94-PU-239	549		3.000- 6	1.500+ 1	68 2086	1	ALPHA
94-PU-239	549		5.000- 5	2.000- 1	73 3828	29	ALPHA
94-PU-239	549		1.000- 4	2.500- 2	70 2531	1	ALPHA
94-PU-239	549		1.000- 4	1.000- 2	70 4055	45	ALPHA
94-PU-239	549		1.000- 4	2.950- 2	70 3391	36	ALPHA
94-PU-239	549		1.000- 4	3.000- 2	70 3615	20	ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 94239

07/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 94239

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	94-PU-239	549	8.0L	3	6.000-2	71 3656	21	ALPHA
	94-PU-239	605	5.500-1	2	2.000+0	59 77	46	TOTAL SCATTERING
N	94-PU-239	872	0.000+0	0	0.000+0	75 3905	33	N,F
	94-PU-239	872	2.530-8	8	2.530-8	57 1391	1	N,F
	94-PU-239	872	2.530-8	8	2.530-8	70 2915	2	N,F
	94-PU-239	872	2.530-8	8	5.450-7	66 1356	8	N,F
	94-PU-239	872	3.216-8	8	6.260-8	65 1372	2	N,F
N	94-PU-239	872	2.000-4	4	3.460-2	70 3315	26	N,F
	94-PU-239	872	2.400-4	4	2.400-2	70 2526	26	N,F
N	94-PU-239	872	2.500-4	4	9.500-3	73 4086	17	N,F
	94-PU-239	872	4.500-3	3	1.800-1	66 1337	77	N,F
	94-PU-239	872	5.200-3	3	1.008+0	69 2599	48	N,F
	94-PU-239	872	3.000-2	2	5.490+0	72 3179	27	N,F
	94-PU-239	872	4.000-2	2	5.050-1	65 1091	5	N,F
N	94-PU-239	872	1.011-1	1	2.958+1	75 3953	165	N,F
	94-PU-239	872	1.500-1	1	3.250-1	2 69 2902	4	N,F
	94-PU-239	872	1.500-1	1	1.400+0	70 3173	11	N,F
	94-PU-239	872	3.400-1	1	2.560+0	68 2195	47	N,F
N	94-PU-239	872	8.200-1	1	5.350+0	69 3390	35	N,F
	94-PU-239	872	1.000+0	0	1.410+1	64 1090	4	N,F
	94-PU-239	872	1.400+1	1	1.400+1	50 1413	1	N,F
	94-PU-239	896	2.500-8	8	2.500-8	74 1318	1	NU-BAR PROMPT
	94-PU-239	896	2.500-8	8	2.500-8	44 1380	1	NU-BAR PROMPT
	94-PU-239	896	2.500-8	8	2.500-8	55 1098	1	NU-BAR PROMPT
	94-PU-239	896	2.500-8	8	2.500-8	55 1099	1	NU-BAR PROMPT
	94-PU-239	896	2.500-8	8	2.500-8	58 1063	2	NU-BAR PROMPT
	94-PU-239	896	2.500-8	8	2.500-8	56 1092	1	NU-BAR PROMPT
	94-PU-239	896	2.500-8	8	2.500-8	65 1085	1	NU-BAR PROMPT
	94-PU-239	896	2.530-8	8	2.530-8	56 1065	1	NU-BAR PROMPT
	94-PU-239	896	2.530-8	8	2.530-8	58 1172	1	NU-BAR PROMPT
	94-PU-239	896	2.530-8	8	2.530-8	58 1445	1	NU-BAR PROMPT
	94-PU-239	896	5.000-1	1	1.000+0	56 149	2	NU-BAR PROMPT
	94-PU-239	897	2.500-8	8	2.500-8	47 1418	1	NU-BAR DELAYED
	94-PU-239	897	2.500-8	8	2.500-8	47 1419	1	NU-BAR DELAYED
	94-PU-239	897	2.500-8	8	2.500-8	47 1420	1	NU-BAR DELAYED
N	94-PU-239	897	2.530-8	8	2.530-8	69 3958	1	NU-BAR DELAYED
	94-PU-239	897	2.000+0	0	2.000+0	1 55 1341	1	NU-BAR DELAYED
	94-PU-239	898	-2.600-7	7	3.530-5	58 936	131	ETA
	94-PU-239	898	2.500-8	8	2.500-8	55 1099	1	ETA
	94-PU-239	898	2.530-8	8	2.530-8	67 1523	1	ETA
	94-PU-239	898	2.500-8	8	2.500-8	69 2363	1	NUCLEAR TEMPERATURE
	94-PU-239	898	4.000-2	2	4.000-2	65 1335	1	NUCLEAR TEMPERATURE
	94-PU-239	898	1.300-1	1	1.300-1	65 1265	1	NUCLEAR TEMPERATURE
	94-PU-239	898	1.500-1	0	1.500+0	69 2089	2	NUCLEAR TEMPERATURE
	94-PU-239	898	1.500+0	0	5.500+0	70 265	13	NUCLEAR TEMPERATURE
	94-PU-239	898	2.000+0	0	3.000+0	69 2598	2	NUCLEAR TEMPERATURE
	94-PU-239	898	1.400+1	1	1.400+1	58 1339	2	NUCLEAR TEMPERATURE
C	94-PU-239	898	-1.200-6	4	4.500-5	62 1230	2	AVERAGE RESONANCE PARAMETERS
C	94-PU-239	898	0.000+0	0	4.900-5	56 954	1	AVERAGE RESONANCE PARAMETERS
C	94-PU-239	898	0.000+0	0	5.000-5	57 1209	1	AVERAGE RESONANCE PARAMETERS
C	94-PU-239	898	0.000+0	0	5.000-5	58 936	4	AVERAGE RESONANCE PARAMETERS
C	94-PU-239	898	0.000+0	0	7.000-5	64 966	2	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-342 ***

ZA = 94239

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 94239

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	94-PU-239	0.000+	0	8.000-	5	66 1376	5	AVERAGE RESONANCE PARAMETERS
N	94-PU-239	0.000+	0	2.000-	4	65 604	1	AVERAGE RESONANCE PARAMETERS
N	94-PU-239	0.000+	0	2.040-	4	75 3919	10	AVERAGE RESONANCE PARAMETERS
N	94-PU-239	0.000+	0	3.000-	4	66 1349	9	AVERAGE RESONANCE PARAMETERS
N	94-PU-239	0.000+	0	6.590-	4	70 3120	5	AVERAGE RESONANCE PARAMETERS
N	94-PU-239	0.000+	0	6.600-	4	70 1963	14	AVERAGE RESONANCE PARAMETERS
N	94-PU-239	0.000+	0	2.000-	3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	94-PU-239	0.000+	0	1.000-	2	64 988	16	AVERAGE RESONANCE PARAMETERS
N	94-PU-239	0.000+	0	5.100-	2	58 959	3	AVERAGE RESONANCE PARAMETERS
C	94-PU-239	1.400-	5	9.000-	5	68 1465	8	AVERAGE RESONANCE PARAMETERS
C	94-PU-239	1.000-	4	3.000-	4	65 1350	2	AVERAGE RESONANCE PARAMETERS
N	94-PU-239	1.000-	4	3.000-	2	71 4020	2	AVERAGE RESONANCE PARAMETERS
C	94-PU-239	1.000-	2	1.000-	1	64 1227	2	AVERAGE RESONANCE PARAMETERS
	94-PU-239	-1.200-	6	1.550-	5	60 1220	15	RESONANCE PARAMETERS
	94-PU-239	-1.001-	6	2.280-	5	55 1212	21	RESONANCE PARAMETERS
	94-PU-239	-2.600-	7	5.260-	5	58 936	113	RESONANCE PARAMETERS
	94-PU-239	-2.300-	7	2.550-	5	51 308	10	RESONANCE PARAMETERS
	94-PU-239	-1.900-	7	2.990-	7	55 967	4	RESONANCE PARAMETERS
	94-PU-239	0.000+	0	4.920-	5	56 954	26	RESONANCE PARAMETERS
	94-PU-239	1.000-	8	1.600-	5	56 958	9	RESONANCE PARAMETERS
	94-PU-239	2.950-	7	2.950-	7	45 1246	2	RESONANCE PARAMETERS
	94-PU-239	2.950-	7	2.950-	7	55 995	2	RESONANCE PARAMETERS
	94-PU-239	2.950-	7	1.370-	5	55 956	5	RESONANCE PARAMETERS
	94-PU-239	2.950-	7	9.600-	5	55 965	14	RESONANCE PARAMETERS
	94-PU-239	2.960-	7	3.220-	5	58 959	44	RESONANCE PARAMETERS
	94-PU-239	2.960-	7	1.570-	4	70 3119	157	RESONANCE PARAMETERS
N	94-PU-239	2.960-	7	5.010-	5	73 3783	12	RESONANCE PARAMETERS
	94-PU-239	2.970-	7	1.500-	5	55 968	5	RESONANCE PARAMETERS
	94-PU-239	2.970-	7	2.680-	5	56 955	16	RESONANCE PARAMETERS
	94-PU-239	2.980-	7	9.000-	5	69 2082	18	RESONANCE PARAMETERS
	94-PU-239	3.000-	7	3.000-	7	51 991	2	RESONANCE PARAMETERS
	94-PU-239	3.000-	7	3.000-	7	55 1192	4	RESONANCE PARAMETERS
	94-PU-239	3.000-	7	2.610-	5	57 1231	29	RESONANCE PARAMETERS
	94-PU-239	3.000-	7	4.180-	5	70 3071	2	RESONANCE PARAMETERS
	94-PU-239	3.000-	7	8.170-	5	66 1232	21	RESONANCE PARAMETERS
	94-PU-239	3.000-	7	6.583-	4	71 2439	413	RESONANCE PARAMETERS
N	94-PU-239	3.000-	7	4.170-	5	71 3459	2	RESONANCE PARAMETERS
N	94-PU-239	3.000-	7	6.583-	4	70 1963	209	RESONANCE PARAMETERS
	94-PU-239	7.800-	6	4.850-	5	62 1230	24	RESONANCE PARAMETERS
	94-PU-239	7.800-	6	7.360-	5	65 1371	19	RESONANCE PARAMETERS
C	94-PU-239	7.813-	6	2.986-	4	71 2528	474	RESONANCE PARAMETERS
	94-PU-239	7.820-	6	7.500-	5	67 2194	10	RESONANCE PARAMETERS
	94-PU-239	7.820-	6	2.512-	4	66 1349	504	RESONANCE PARAMETERS
N	94-PU-239	7.820-	6	1.190-	4	71 1493	23	RESONANCE PARAMETERS
N	94-PU-239	7.820-	6	6.583-	4	75 3919	826	RESONANCE PARAMETERS
	94-PU-239	7.830-	6	2.034-	4	65 604	138	RESONANCE PARAMETERS
	94-PU-239	7.840-	6	8.570-	5	66 1376	124	RESONANCE PARAMETERS
	94-PU-239	7.840-	6	9.550-	5	64 966	62	RESONANCE PARAMETERS
	94-PU-239	7.840-	6	2.700-	4	65 1229	54	RESONANCE PARAMETERS
N	94-PU-239	7.840-	6	2.260-	5	63 1225	8	RESONANCE PARAMETERS
	94-PU-239	7.850-	6	3.250-	5	56 227	19	RESONANCE PARAMETERS
	94-PU-239	7.850-	6	4.448-	5	70 2106	11	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 94239

67/04/76

EGSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 94239

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-239			7.850-6	8.590-5	57 1209	104	RESONANCE PARAMETERS
94-PU-239			7.900-6	8.560-5	65 1233	43	RESONANCE PARAMETERS
94-PU-239			1.094-5	1.094-5	64 1114	1	RESONANCE PARAMETERS
94-PU-239			1.429-5	8.560-5	68 1465	141	RESONANCE PARAMETERS
C 94-PU-239			1.468-5	3.032-4	37 1345	97	RESONANCE PARAMETERS
94-PU-239			1.470-5	6.585-4	70 3120	113	RESONANCE PARAMETERS
94-PU-239			4.177-5	1.179-4	69 2854	24	RESONANCE PARAMETERS
94-PU-239			5.580-5	8.560-5	65 1351	10	RESONANCE PARAMETERS
94-PU-239			6.094-5	1.002-4	68 1167	26	RESONANCE PARAMETERS
94-PU-239			1.029-4	2.981-4	65 1350	162	RESONANCE PARAMETERS
94-PU-240	1		1.100-9	1.372-6	58 959	48	TOTAL
94-PU-240	1		2.050-8	1.520-7	59 948	40	TOTAL
94-PU-240	1		2.530-8	7.884-7	59 1105	289	TOTAL
94-PU-240	1		3.550-8	4.320-5	57 1394	216	TOTAL
94-PU-240	1		8.176-7	1.414-6	56 1106	52	TOTAL
94-PU-240	1		9.640-7	1.173-6	59 1136	50	TOTAL
N 94-PU-240	1		1.966-5	5.705-3	66 3612	38562	TOTAL
94-PU-240	1		1.160-1	1.467-0	71 3146	55	TOTAL
94-PU-240	1 80		9.640-7	1.136-6	59 1136	50	TOTAL
94-PU-240	2		3.000-1	1.500-0	71 3146	30	ELASTIC
N 94-PU-240	5 80		1.860-5	2.989-3	68 3647	7114	TOTAL SCATTERING
94-PU-240	11 8		3.500-1	1.900-0	71 3146	60	N,N'
94-PU-240	21		2.500-8	2.500-8	57 412	1	ABSORPTION
94-PU-240	21		2.500-8	2.500-8	59 1130	1	ABSORPTION
94-PU-240	21		2.530-8	2.530-8	58 1162	1	ABSORPTION
94-PU-240	21		2.530-8	2.530-8	62 1183	1	ABSORPTION
94-PU-240	21		8.000-8	8.000-8	71 3239	1	ABSORPTION
94-PU-240	22		2.530-8	2.530-8	56 1199	1	N,F
94-PU-240	22		2.530-8	2.530-8	58 1163	1	N,F
C 94-PU-240	22		3.150-7	1.282-6	56 1104	45	N,F
C 94-PU-240	22		2.004-5	9.779-1	66 1061	1388	N,F
94-PU-240	22		2.000-4	7.962-3	68 1537	1799	N,F
94-PU-240	22		1.350-2	1.750-1	66 1337	10	N,F
94-PU-240	22		2.400-2	2.400-2	65 1072	1	N,F
94-PU-240	22		3.000-2	4.000-1	65 1101	11	N,F
94-PU-240	22		4.000-2	3.900-0	60 632	75	N,F
94-PU-240	22		6.100-2	4.850-1	63 1093	14	N,F
94-PU-240	22		6.100-2	4.850-1	64 1102	13	N,F
94-PU-240	22		1.400-1	4.000-0	58 529	18	N,F
94-PU-240	22		2.700-1	8.120-0	57 517	21	N,F
94-PU-240	22		1.000-0	1.410-1	64 1090	4	N,F
94-PU-240	22		2.500-0	1.460-1	60 635	2	N,F
94-PU-240	23		2.530-8	2.530-8	60 1171	1	N,GAMMA
94-PU-240	23		2.530-8	2.530-8	66 1131	1	N,GAMMA
94-PU-240	23		2.530-8	2.530-8	70 2915	1	N,GAMMA
N 94-PU-240	23		3.482-3	3.668-1	73 3828	2488	N,GAMMA
94-PU-240	43		2.500-8	2.500-8	71 3239	1	COHERENT SCATTERING
94-PU-240	43		2.530-8	2.530-8	70 3242	1	COHERENT SCATTERING
94-PU-240	46		-6.680-0	-6.680-0	51 1369	1	NU-BAR PROMPT
94-PU-240	46		-6.680-0	-6.680-0	53 1132	1	NU-BAR PROMPT
94-PU-240	46		-6.680-0	-6.680-0	55 1097	1	NU-BAR PROMPT
94-PU-240	46		-6.680-0	-6.680-0	55 1193	1	NU-BAR PROMPT

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ZA = 94240

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 94240

TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-240	46		-6.680+ 0	-6.680+ 0	55 1367	2	NU-BAR PROMPT
94-PU-240	46		-6.680+ 3	-6.680+ 0	56 1145	1	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	56 1147	1	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	56 1321	1	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	58 1053	1	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	51 1058	1	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	63 1072	1	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	55 1085	1	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	55 1085	1	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	56 1358	1	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	58 1543	1	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	56 1070	1	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	70 3314	24	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	74 3681	22	NU-BAR PROMPT
94-PU-240	46		-6.680+ 0	-6.680+ 0	51 1078	1	NU-BAR PROMPT
94-PU-240	71		-6.680+ 0	-6.680+ 0	55 1206	1	NU-BAR PROMPT
94-PU-240	71		-6.680+ 0	-6.680+ 0	59 1162	1	NU-BAR PROMPT
94-PU-240	71		-6.680+ 0	-6.680+ 0	73 3828	28	NU-BAR PROMPT
94-PU-240	72		-6.680+ 0	-6.680+ 0	56 1149	1	NU-BAR PROMPT
94-PU-240	72		-6.680+ 0	-6.680+ 0	58 1429	1	NU-BAR PROMPT
94-PU-240	72		-6.680+ 0	-6.680+ 0	57 198	4	NU-BAR PROMPT
94-PU-240	72		-6.680+ 0	-6.680+ 0	65 1125	1	NU-BAR PROMPT
94-PU-240	72		-6.680+ 0	-6.680+ 0	58 1217	1	NU-BAR PROMPT
94-PU-240	73		-6.680+ 0	-6.680+ 0	56 1135	1	NU-BAR PROMPT
94-PU-240	73		-6.680+ 0	-6.680+ 0	57 1186	1	NU-BAR PROMPT
94-PU-240	73		-6.680+ 0	-6.680+ 0	66 1131	1	NU-BAR PROMPT
94-PU-240	73		-6.680+ 0	-6.680+ 0	70 3112	11	NU-BAR PROMPT
94-PU-240	96		-6.680+ 0	-6.680+ 0	58 1161	2	NU-BAR PROMPT
94-PU-240	96		-6.680+ 0	-6.680+ 0	61 1216	1	NU-BAR PROMPT
94-PU-240	96		-6.680+ 0	-6.680+ 0	58 1217	1	NU-BAR PROMPT
94-PU-240	97		-6.680+ 0	-6.680+ 0	57 1066	1	NU-BAR PROMPT
94-PU-240	452		-6.680+ 0	-6.680+ 0	71 3146	150	NU-BAR PROMPT
94-PU-240	521		-6.680+ 0	-6.680+ 0	57 412	1	NU-BAR PROMPT
94-PU-240	521		-6.680+ 0	-6.680+ 0	56 1118	1	NU-BAR PROMPT
94-PU-240	521		-6.680+ 0	-6.680+ 0	58 1162	1	NU-BAR PROMPT
94-PU-240	521		-6.680+ 0	-6.680+ 0	56 1205	1	NU-BAR PROMPT
94-PU-240	522		-6.680+ 0	-6.680+ 0	58 1153	1	NU-BAR PROMPT
94-PU-240	872		-6.680+ 0	-6.680+ 0	65 1357	10	NU-BAR PROMPT
94-PU-240	872		-6.680+ 0	-6.680+ 0	65 3350	26	NU-BAR PROMPT
94-PU-240	872		-6.680+ 0	-6.680+ 0	65 1095	1	NU-BAR PROMPT
94-PU-240	805		-6.680+ 0	-6.680+ 0	57 121	1	NU-BAR PROMPT
94-PU-240	240		-6.680+ 0	-6.680+ 0	58 1353	2	NU-BAR PROMPT
94-PU-240	240		-6.680+ 0	-6.680+ 0	68 1534	3	NU-BAR PROMPT
94-PU-240	240		-6.680+ 0	-6.680+ 0	68 3842	1	NU-BAR PROMPT
94-PU-240	240		-6.680+ 0	-6.680+ 0	71 3112	2	NU-BAR PROMPT
94-PU-240	240		-6.680+ 0	-6.680+ 0	68 1535	1	NU-BAR PROMPT
94-PU-240	240		-6.680+ 0	-6.680+ 0	68 1537	1	NU-BAR PROMPT
94-PU-240	240		-6.680+ 0	-6.680+ 0	53 1213	19	NU-BAR PROMPT
94-PU-240	240		-6.680+ 0	-6.680+ 0	56 1106	3	NU-BAR PROMPT
94-PU-240	240		-6.680+ 0	-6.680+ 0	59 1115	10	NU-BAR PROMPT
94-PU-240	240		-6.680+ 0	-6.680+ 0	55 1205	2	NU-BAR PROMPT

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ZA = 94240

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 94240

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-240		1.056	-6	1.056	-6	59 1136	1 RESONANCE PARAMETERS
94-PU-240		1.057	-6	1.057	-6	59 1105	3 RESONANCE PARAMETERS
94-PU-240		1.057	-6	3.780	-5	58 959	6 RESONANCE PARAMETERS
94-PU-240		1.059	-6	1.059	-6	70 3066	6 RESONANCE PARAMETERS
94-PU-240		1.060	-6	1.060	-6	51 308	4 RESONANCE PARAMETERS
94-PU-240		1.060	-6	1.060	-6	56 958	4 RESONANCE PARAMETERS
94-PU-240		1.060	-6	1.060	-6	61 1215	2 RESONANCE PARAMETERS
94-PU-240		1.060	-6	1.190	-4	57 1211	18 RESONANCE PARAMETERS
94-PU-240		1.075	-6	1.075	-6	55 1192	5 RESONANCE PARAMETERS
94-PU-240		1.080	-6	1.080	-6	55 1212	1 RESONANCE PARAMETERS
94-PU-240		2.045	-5	2.871	-4	68 1535	14 RESONANCE PARAMETERS
94-PU-240		2.045	-5	5.692	-3	68 1534	526 RESONANCE PARAMETERS
N 94-PU-240		2.045	-5	2.871	-4	68 3647	28 RESONANCE PARAMETERS
94-PU-240		2.046	-5	4.994	-4	71 3112	50 RESONANCE PARAMETERS
94-PU-240		2.046	-5	6.789	-4	66 1354	55 RESONANCE PARAMETERS
94-PU-240		2.050	-5	1.451	-3	68 1353	101 RESONANCE PARAMETERS
94-PU-240		3.820	-5	3.820	-5	64 1352	1 RESONANCE PARAMETERS
94-PU-240		3.834	-5	8.204	-4	68 1535	50 RESONANCE PARAMETERS
N 94-PU-240		3.834	-5	6.655	-4	68 3642	93 RESONANCE PARAMETERS
N 94-PU-240		7.490	-4	2.033	-3	70 3112	13 RESONANCE PARAMETERS
94-PU-240		7.500	-4	3.381	-3	68 1537	34 RESONANCE PARAMETERS
N 94-PU-241	1	1.040	-9	3.554	-6	74 3502	363 TOTAL
94-PU-241	1	1.050	-9	5.400	-7	58 1111	45 TOTAL
C 94-PU-241	1	1.596	-8	6.324	-4	61 1112	1753 TOTAL
94-PU-241	1	2.500	-8	1.000	-3	64 1113	718 TOTAL
94-PU-241	1	2.530	-8	2.530	-8	69 2903	1 TOTAL
N 94-PU-241	1	6.790	-7	7.346	-4	70 3603	6990 TOTAL
C 94-PU-241	1	2.342	-6	2.086	-4	64 1114	2079 TOTAL
94-PU-241	2	3.040	-6	3.277	-5	68 1530	302 ELASTIC
94-PU-241	21	2.530	-8	2.530	-8	66 1131	1 ABSORPTION
94-PU-241	22	2.530	-9	4.730	-9	58 1196	10 N.F.
C 94-PU-241	22	6.150	-9	7.510	-6	56 955	75 N.F.
94-PU-241	22	6.890	-9	9.670	-8	66 1492	161 N.F.
C 94-PU-241	22	8.427	-9	2.462	-3	65 1107	1620 N.F.
94-PU-241	22	1.170	-8	7.430	-4	55 956	157 N.F.
N 94-PU-241	22	1.954	-8	5.600	-7	75 3906	328 N.F.
94-PU-241	22	2.360	-8	1.968	-6	64 1109	448 N.F.
94-PU-241	22	2.530	-8	2.530	-8	55 1182	1 N.F.
94-PU-241	22	2.530	-8	2.530	-8	55 1205	1 N.F.
94-PU-241	22	2.530	-8	2.530	-8	57 1391	1 N.F.
94-PU-241	22	2.530	-8	2.510	-8	58 1164	1 N.F.
94-PU-241	22	2.530	-8	2.530	-8	59 1180	1 N.F.
94-PU-241	22	2.530	-8	2.530	-8	66 1356	3 N.F.
94-PU-241	22	2.530	-8	1.000	-7	57 1181	2 N.F.
94-PU-241	22	2.570	-8	9.380	-7	58 1108	62 N.F.
94-PU-241	22	2.247	-6	9.951	-5	64 1110	1019 N.F.
C 94-PU-241	22	2.722	-6	4.043	-3	70 3208	10422 N.F.
94-PU-241	22	3.503	-6	2.975	-2	73 3125	7853 N.F.
N 94-PU-241	22	2.004	-5	9.780	-1	66 1061	2554 N.F.
94-PU-241	22	2.000	-3	2.000	-3	68 2095	1 N.F.
94-PU-241	22	2.100	-2	1.025	0	61 591	90 N.F.
94-PU-241	22	2.400	-2	2.400	-2	65 1072	1 N.F.

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 94241

07/04/76

ECSIL-7600 REACTION INDEX (2A ORDERED)

2A = 94241

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	94-PU-241	549	1.000-	5	2.500-	1	73 3828	38 ALPHA
	94-PU-241	872	1.600-	8	5.450-	7	66 1356	9 N.F.
	94-PU-241	872	2.530-	8	2.530-	8	55 1205	1 N.F.
	94-PU-241	872	2.530-	8	2.530-	8	57 1391	1 N.F.
N	94-PU-241	872	1.249-	2	3.433+	1	75 3954	166 N.F.
	94-PU-241	872	4.000-	2	5.050-	1	65 1091	5 N.F.
	94-PU-241	872	1.200-	1	2.100-	1	62 689	33 N.F.
	94-PU-241	872	1.000+	0	1.410+	1	64 1090	4 N.F.
	94-PU-241	896	2.500-	8	2.500-	8	55 1098	1 NU-BAR PROMPT
	94-PU-241	896	2.500-	8	2.500-	8	55 1099	1 NU-BAR PROMPT
	94-PU-241	896	2.500-	8	2.500-	8	56 1065	1 NU-BAR PROMPT
	94-PU-241	896	2.500-	8	2.500-	8	59 1092	1 NU-BAR PROMPT
	94-PU-241	896	2.500-	8	2.500-	8	61 1153	1 NU-BAR PROMPT
	94-PU-241	896	2.500-	8	2.500-	8	65 1085	1 NU-BAR PROMPT
	94-PU-241	896	2.530-	8	2.530-	8	58 1172	1 NU-BAR PROMPT
	94-PU-241	898	2.530-	8	2.530-	8	67 1523	1 ETA
	94-PU-241	898	2.500-	8	2.500-	8	61 1334	1 NUCLEAR TEMPERATURE
N	94-PU-241	898	2.500-	8	2.500-	8	61 1153	1 NUCLEAR TEMPERATURE
C	94-PU-241	0.000+	0	2.000-	5	64 1107	2 AVERAGE RESONANCE PARAMETERS	
C	94-PU-241	0.000+	0	3.100-	5	64 1113	2 AVERAGE RESONANCE PARAMETERS	
C	94-PU-241	0.000+	0	1.600-	4	71 3126	5 AVERAGE RESONANCE PARAMETERS	
C	94-PU-241	0.000+	0	2.000-	3	61 1112	3 AVERAGE RESONANCE PARAMETERS	
N	94-PU-241	0.000+	0	5.000-	3	64 1114	2 AVERAGE RESONANCE PARAMETERS	
C	94-PU-241	4.300-	6	3.090-	5	68 1530	2 AVERAGE RESONANCE PARAMETERS	
C	94-PU-241	1.200-	5	7.000-	5	71 3115	4 AVERAGE RESONANCE PARAMETERS	
	94-PU-241	-1.600-	7	1.020-	5	61 1194	18 RESONANCE PARAMETERS	
	94-PU-241	2.500-	7	2.500-	7	58 1111	4 RESONANCE PARAMETERS	
	94-PU-241	2.550-	7	4.450-	6	56 955	3 RESONANCE PARAMETERS	
	94-PU-241	4.270-	6	3.090-	5	68 1530	120 RESONANCE PARAMETERS	
	94-PU-241	4.275-	6	3.490-	5	64 1110	42 RESONANCE PARAMETERS	
	94-PU-241	4.280-	6	1.605-	4	71 3126	377 RESONANCE PARAMETERS	
	94-PU-241	4.290-	6	4.815-	5	70 2907	137 RESONANCE PARAMETERS	
	94-PU-241	4.310-	6	6.800-	6	58 959	4 RESONANCE PARAMETERS	
	94-PU-241	4.320-	6	8.610-	5	59 1180	6 RESONANCE PARAMETERS	
	94-PU-241	4.330-	6	1.785-	5	61 1165	14 RESONANCE PARAMETERS	
	94-PU-241	1.275-	5	5.040-	5	64 1114	66 RESONANCE PARAMETERS	
	94-PU-241	1.277-	5	9.950-	5	71 3115	130 RESONANCE PARAMETERS	
	94-PU-241	1.284-	5	1.670-	5	64 1107	12 RESONANCE PARAMETERS	
	94-PU-241	1.473-	5	5.208-	5	66 1358	112 RESONANCE PARAMETERS	
	94-PU-241	1.474-	5	3.103-	5	64 1113	48 RESONANCE PARAMETERS	
N	94-PU-242	1	1.300-	5	7.726-	3	68 1446	1017 TOTAL
	94-PU-242	1	1.330-	5	2.006-	6	71 3217	79 TOTAL
C	94-PU-242	1	2.500-	8	3 882-	4	66 1082	183 TOTAL
	94-PU-242	1	2.336-	6	5.470-	5	59 1115	50 TOTAL
	94-PU-242	21	2.530-	8	2.530-	8	58 2103	1 ABSORPTION
	94-PU-242	21	7.000-	8	7.000-	8	71 3239	1 ABSORPTION
C	94-PU-242	22	5.115-	5	2.963+	0	70 943	1307 N.F.
C	94-PU-242	22	2.001+	4	9.573+	0	72 3236	5497 N.F.
	94-PU-242	22	1.410-	1	1.663+	0	60 569	65 N.F.
	94-PU-242	22	1.020+	0	8.300+	0	70 2911	14 N.F.
	94-PU-242	22	1.450+	1	1.450+	1	67 1518	1 N.F.
	94-PU-242	23	2.500-	8	2.500-	8	57 1348	1 N.GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-348 ***

2A = 94242

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 94242

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	94-PU-242	23	2.530- 8	2.530- 6	2 89 2914	1	N,GAMMA
	94-PU-242	23	6.271- 3	8.530- 2	74 3540	250	N,GAMMA
	94-PU-242	43	2.500- 8	2.500- 8	71 3239	1	COHERENT SCATTERING
	94-PU-242	46	-6.360+ 0	-5.360+ 0	56 1147	1	NU-BAR PROMPT
	94-PU-242	46	-6.360+ 0	-5.360+ 0	56 1147	1	NU-BAR PROMPT
	94-PU-242	46	-6.360+ 0	-6.360+ 0	58 1543	1	NU-BAR PROMPT
	94-PU-242	46	-6.360+ 0	-6.360+ 0	68 2361	1	NU-BAR PROMPT
	94-PU-242	46	-6.360+ 0	-6.360+ 0	72 3495	4	NU-BAR DELAYED
N	94-PU-242	47	6.400- 1	1.250+ 0	57 1348	1	N,F
	94-PU-242	72	2.500- 8	2.500- 8	54 1141	1	N,GAMMA
	94-PU-242	73	2.500- 3	2.500- 8	57 1348	1	N,GAMMA
	94-PU-242	73	2.500- 3	2.500- 8	56 1977	1	N,GAMMA
	94-PU-242	73	2.500- 3	2.500- 8	70 3185	1	N,GAMMA
	94-PU-242	73	7.000- 3	6.500- 2	74 3540	15	N,GAMMA
N	94-PU-242	222 80	-6.360+ 0	-6.360+ 0	68 2363	19	N,F
C	94-PU-242	521	9.200- 7	1.000+ 1	68 2103	1	ABSORPTION
C	94-PU-242	523	5.000- 7	1.500+ 1	57 1348	1	N,GAMMA
	94-PU-242		-6.360+ 0	-6.360+ 0	69 2363	1	NUCLEAR TEMPERATURE
C	94-PU-242		0.000+ 0	5.360- 5	59 1115	1	AVERAGE RESONANCE PARAMETERS
C	94-PU-242		0.000+ 0	1.500- 4	67 1446	4	AVERAGE RESONANCE PARAMETERS
N	94-PU-242		0.000+ 0	3.500- 4	65 1218	2	AVERAGE RESONANCE PARAMETERS
N	94-PU-242		0.000+ 0	1.000- 3	71 3109	1	AVERAGE RESONANCE PARAMETERS
N	94-PU-242		0.000+ 0	8.700- 2	74 3540	4	AVERAGE RESONANCE PARAMETERS
C	94-PU-242		2.000- 8	4.000- 4	66 1082	1	AVERAGE RESONANCE PARAMETERS
N	94-PU-242		2.680- 6	1.000- 3	73 3782	4	AVERAGE RESONANCE PARAMETERS
C	94-PU-242		5.000- 5	6.000- 4	71 2209	1	AVERAGE RESONANCE PARAMETERS
	94-PU-242		-5.000- 6	3.800- 4	87 1446	24	RESONANCE PARAMETERS
	94-PU-242		2.640- 6	3.830- 4	56 1082	16	RESONANCE PARAMETERS
	94-PU-242		2.650- 6	2.650- 6	81 1208	1	RESONANCE PARAMETERS
	94-PU-242		2.650- 6	5.360- 5	59 1115	7	RESONANCE PARAMETERS
	94-PU-242		2.667- 6	2.667- 6	64 1114	1	RESONANCE PARAMETERS
	94-PU-242		2.670- 6	2.670- 6	58 959	2	RESONANCE PARAMETERS
N	94-PU-242		2.680- 6	1.786- 3	73 3782	97	RESONANCE PARAMETERS
	94-PU-242		1.460- 5	6.320- 4	65 1218	42	RESONANCE PARAMETERS
	94-PU-242		3.340- 5	7.882- 4	71 2209	23	RESONANCE PARAMETERS
N	94-PU-242		5.340- 5	7.882- 4	70 943	39	RESONANCE PARAMETERS
N	94-PU-242		2.050- 4	3.824- 4	74 3540	5	RESONANCE PARAMETERS
N	94-PU-242		2.050- 4	3.824- 4	75 3540	5	RESONANCE PARAMETERS
	94-PU-242		3.740- 4	3.830- 3	71 3109	61	RESONANCE PARAMETERS
	94-PU-242		7.670- 4	4.960- 2	69 2352	7	RESONANCE PARAMETERS
	94-PU-243	22	1.500+ 0	2.000+ 0	70 2203	3	N,F
	94-PU-243	72	2.500- 8	2.500- 8	58 1517	1	N,F
	94-PU-243	72	2.000- 2	2.000- 2	66 2088	1	N,F
	94-PU-243	73	2.500- 8	2.500- 8	54 1141	1	N,GAMMA
	94-PU-243	73	2.500- 8	2.500- 8	55 1187	1	N,GAMMA
	94-PU-243	73	2.500- 8	2.500- 8	66 1977	1	N,GAMMA
	94-PU-243	73	2.000- 2	2.000- 2	68 2088	1	N,GAMMA
C	94-PU-244	22	2.056- 5	9.653+ 0	72 3236	5805	N,F
	94-PU-244	46	-6.020+ 0	-6.020+ 0	71 3156	1	NU-BAR PROMPT
	94-PU-244	73	2.500- 8	2.500- 8	55 1129	1	N,GAMMA
	94-PU-244	73	2.500- 8	2.500- 8	55 1187	1	N,GAMMA
	94-PU-244	73	2.500- 8	2.500- 8	56 1150	1	N,GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ZA = 94244

07/04/76

EC5IL-76JG REACTION INDEX (ZA ORDERED)

ZA = 9424

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PJ-244	73		2,500-8	2,530-8	2 69 2904	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
94-PJ-244	523		5,000-7	1,500-1	2 69 2904	1	N,GAMMA RESONANCE INTEGRAL
94-PJ-244			3,000-5	6,000-5	71 3105	1	AVERAGE RESONANCE PARAMETERS
94-PJ-244			3,070-5	2,850-4	71 3109	13	RESONANCE PARAMETERS
94-PJ-245	72		2,000-2	2,000-2	68 2088	1	N,F SPECTRUM AVERAGED CROSS SECTION
94-PJ-245	73		2,530-8	2,500-8	55 1187	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
94-PJ-245	73		2,000-2	2,000-2	68 2088	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
94-PJ-247	72		2,000-2	2,000-2	68 2088	1	N,F SPECTRUM AVERAGED CROSS SECTION
94-PJ-247	73		2,000-2	2,000-2	68 2088	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
94-PJ-246	73		2,000-2	2,030-2	68 2088	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
94-PJ-251	72		2,000-2	2,000-2	68 2088	1	N,F SPECTRUM AVERAGED CROSS SECTION
94-PJ-251	73		2,000-2	2,000-2	68 2088	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
95-AM-241	1		6,050-9	8,210-5	55 956	178	TOTAL
95-AM-241	1		2,550-7	4,135-5	59 948	453	TOTAL
95-AM-241	1		7,846-7	1,077-3	75 3806	13840	TOTAL
95-AM-241	12	1	1,410-1	1,410-1	67 2319	1	N,2N
95-AM-241	21		9,340-9	3,772-1	73 3828	4564	ABSORPTION
95-AM-241	22		4,000-9	4,200-7	62 1477	15	N,F
95-AM-241	22		2,310-8	5,030-5	66 1305	539	N,F
95-AM-241	22		2,500-8	2,500-8	66 3740	1	N,F
95-AM-241	22		2,530-8	5,250-6	59 241	108	N,F
95-AM-241	22		3,210-8	9,000-4	65 1084	467	N,F
95-AM-241	22		9,997-7	4,004-5	75 3806	1802	N,F
95-AM-241	22		2,024-5	9,779-1	66 1061	2240	N,F
95-AM-241	22		8,000-3	3,300-0	69 3389	43	N,F
95-AM-241	22		4,900-1	7,340-0	55 518	13	N,F
95-AM-241	22		1,020-0	8,300-0	70 2911	14	N,F
95-AM-241	22		2,500-0	1,460-1	60 635	2	N,F
95-AM-241	22		1,410-1	1,410-1	70 3867	1	N,F
95-AM-241	22		1,450-1	1,450-1	67 1518	2	N,F
95-AM-241	22		1,460-1	1,460-1	59 611	1	N,F
95-AM-241	23	2	3,070-1	6,800-0	70 1526	9	N,GAMMA
95-AM-241	23	4	2,530-8	2,530-8	73 3503	1	N,GAMMA
95-AM-241	23	6	2,500-8	2,500-8	50 1476	1	N,GAMMA
95-AM-241	23	6	2,530-8	2,530-8	73 3503	1	N,GAMMA
95-AM-241	46		2,530-8	2,530-8	58 1123	1	NU-BAR PROMPT
95-AM-241	46		2,530-8	2,530-8	69 1912	1	NU-BAR PROMPT
95-AM-241	71		2,500-8	2,500-8	51 456	1	ABSORPTION
95-AM-241	71		2,500-8	2,500-8	55 267	1	ABSORPTION
95-AM-241	71		1,500-5	2,250-1	73 3828	38	ABSORPTION
95-AM-241	72		2,500-8	2,500-8	51 564	1	N,F
95-AM-241	72		2,500-8	2,500-8	51 1188	1	N,F
95-AM-241	72		2,500-8	2,500-8	57 386	1	N,F
95-AM-241	72		2,500-8	2,500-8	67 2193	1	N,F
95-AM-241	72		2,000-0	2,000-0	67 1518	1	N,F
95-AM-241	73		2,500-8	2,500-8	46 1174	1	N,GAMMA
95-AM-241	73		1,000-0	1,000-0	71 4073	1	N,GAMMA
95-AM-241	73	2	2,500-8	2,530-8	69 3026	1	N,GAMMA
95-AM-241	73	4	2,500-8	2,500-8	46 1174	1	N,GAMMA
95-AM-241	73	4	2,500-8	2,500-8	52 563	1	N,GAMMA
95-AM-241	73	4	2,500-8	2,500-8	59 825	1	N,GAMMA
95-AM-241	73	4	2,500-8	2,500-8	64 1494	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-350 ***

ZA = 95241

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 95241

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
95-AM-241	73	4	2.500-8	2.500-8	67 2193	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
95-AM-241	73	6	2.500-8	2.500-8	52 563	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
95-AM-241	73	6	2.500-8	2.500-8	59 825	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
95-AM-241	73	6	2.500-8	2.500-8	67 2193	1	N,GAMMA SPECTRUM AVERAGED CROSS SECTION
C 95-AM-241	522		5.000-7	1.500+1	67 2193	1	N,F RESONANCE INTEGRAL
N 95-AM-241	523	4	3.690-7	1.500+1	73 3503	1	N,GAMMA RESONANCE INTEGRAL
C 95-AM-241	523	4	5.000-7	1.500+1	64 1494	1	N,GAMMA RESONANCE INTEGRAL
C 95-AM-241	523	4	5.000-7	1.500+1	67 2193	1	N,GAMMA RESONANCE INTEGRAL
C 95-AM-241	523	4	5.000-7	1.500+1	69 2098	1	N,GAMMA RESONANCE INTEGRAL
N 95-AM-241	523	6	3.690-7	1.500+1	73 3503	1	N,GAMMA RESONANCE INTEGRAL
C 95-AM-241	523	6	5.000-7	1.500+1	67 2193	1	N,GAMMA RESONANCE INTEGRAL
C 95-AM-241	523	6	5.000-7	1.500+1	69 2098	1	N,GAMMA RESONANCE INTEGRAL
95-AM-241	896		2.500-8	2.500-8	58 1123	1	NU-BAR PROMPT CROSS SECTION RATIO
N 95-AM-241			0.000+0	5.000-5	75 3806	5	AVERAGE RESONANCE PARAMETERS
C 95-AM-241			3.060-7	1.200-5	59 948	2	AVERAGE RESONANCE PARAMETERS
C 95-AM-241			3.070-7	1.265-6	59 241	1	AVERAGE RESONANCE PARAMETERS
95-AM-241			3.000-7	1.900-6	55 956	5	RESONANCE PARAMETERS
95-AM-241			3.050-7	4.325-5	61 1001	53	RESONANCE PARAMETERS
95-AM-241			3.060-7	1.504-5	66 1305	13	RESONANCE PARAMETERS
95-AM-241			3.060-7	1.700-5	59 948	25	RESONANCE PARAMETERS
95-AM-241			3.070-7	1.265-6	61 1215	3	RESONANCE PARAMETERS
95-AM-241			3.070-7	4.000-6	59 241	16	RESONANCE PARAMETERS
95-AM-241			3.100-7	1.504-5	65 1084	26	RESONANCE PARAMETERS
N 95-AM-241			1.276-6	1.491-4	75 3806	303	RESONANCE PARAMETERS
95-AM-241			1.922-6	2.325-6	1 64 1114	2	RESONANCE PARAMETERS
95-AM-242	22		1.950-8	5.691+0	67 1117	1191	N,F
C 95-AM-242	22		2.002-5	9.292-1	56 1061	1828	N,F
95-AM-242	23		2.500-8	2.500-8	50 1476	1	N,GAMMA
95-AM-242	46		2.530-8	2.530-8	66 1336	1	NU-BAR PROMPT
95-AM-242	46		2.530-8	2.530-8	69 1912	1	NU-BAR PROMPT
95-AM-242	71		2.500-8	2.500-8	52 563	1	ABSORPTION
N 95-AM-242	71		2.500-8	2.500-8	51 1188	1	ABSORPTION
95-AM-242	72		2.500-8	2.500-8	51 1188	1	N,F
95-AM-242	72		2.500-8	2.500-8	52 563	1	N,F
95-AM-242	72		2.500-8	2.500-8	57 386	1	N,F
95-AM-242	72		2.500-8	2.500-8	66 368	1	N,F
95-AM-242	72		2.500-8	2.500-8	66 1284	1	N,F
95-AM-242	73		2.500-8	2.500-8	52 563	1	N,GAMMA
C 95-AM-242	521		5.000-7	1.500+1	69 2098	1	ABSORPTION
C 95-AM-242			0.000+0	3.250-6	67 1117	3	AVERAGE RESONANCE PARAMETERS
95-AM-242			1.730-7	3.250-6	67 1117	30	RESONANCE PARAMETERS
95-AM-243	1		1.360-9	1.544-5	59 1115	200	TOTAL
95-AM-243	1		8.040-9	2.560-5	70 2097	922	TOTAL
95-AM-243	1		5.000-7	1.003-3	72 3497	8022	TOTAL
N 95-AM-243	12	2	8.000+0	1.440+1	67 196	11	N,2N
95-AM-243	12	2	1.400+1	1.400+1	65 1521	1	N,2N
95-AM-243	21		2.530-8	2.530-8	68 2103	1	ABSORPTION
95-AM-243	21		2.530-8	2.530-8	68 2104	1	ABSORPTION
95-AM-243	22		4.890-5	2.973+0	70 943	2195	N,F
95-AM-243	22		3.000-1	1.670+0	61 591	65	N,F
95-AM-243	22		3.000-1	4.000+0	62 2900	12	N,F
95-AM-243	22		1.450+1	1.450+1	67 1518	2	N,F

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-351 ***

ZA = 95243

TARGET	CODE	S	E-MIN-KEV	E-MAX-KEV	REFERENCE	POINTS	REACTION DESCRIPTION
95-AM-243	23		2 500- 8	2 500- 8	54 1474	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	57 1348	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	59 2900	13	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	50 1518	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	54 1473	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	57 1348	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	57 2193	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	56 1877	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	56 1877	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	59 2058	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	58 2103	1	ABSORPTION
95-AM-243	23		2 500- 8	2 500- 8	57 1348	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	57 2193	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	59 2058	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	57 2193	6	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	57 2058	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	57 2058	13	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	54 1475	1	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	59 1115	1	AVERAGE RESONANCE PARAMETERS
95-AM-243	23		2 500- 8	2 500- 8	72 3497	250	RESONANCE PARAMETERS
95-AM-243	23		2 500- 8	2 500- 8	59 1115	4	RESONANCE PARAMETERS
95-AM-243	23		2 500- 8	2 500- 8	59 1115	39	RESONANCE PARAMETERS
95-AM-243	23		2 500- 8	2 500- 8	61 1276	1	NU-BAR PROMPT
95-AM-243	23		2 500- 8	2 500- 8	52 563	1	N F
95-AM-243	23		2 500- 8	2 500- 8	57 2193	1	N F
95-AM-243	23		2 500- 8	2 500- 8	54 56	1	N F
95-AM-243	23		2 500- 8	2 500- 8	70 4040	1	NUCLEAR TEMPERATURE
95-AM-243	23		2 500- 8	2 500- 8	61 1622	1	N F
95-AM-243	23		2 500- 8	2 500- 8	57 1518	1	N F
95-AM-243	23		2 500- 8	2 500- 8	53 1184	1	NU-BAR PROMPT
95-AM-243	23		2 500- 8	2 500- 8	56 1146	1	NU-BAR PROMPT
95-AM-243	23		2 500- 8	2 500- 8	56 1147	1	N F
95-AM-243	23		2 500- 8	2 500- 8	51 188	1	N F
95-AM-243	23		2 500- 8	2 500- 8	59 2058	134	N GAMMA
95-AM-243	23		2 500- 8	2 500- 8	59 1912	1	NU-BAR PROMPT
95-AM-243	23		2 500- 8	2 500- 8	57 385	1	N F
95-AM-243	23		2 500- 8	2 500- 8	72 3520	1	ABSORPTION
95-AM-243	23		2 500- 8	2 500- 8	71 2008	34	RESONANCE PARAMETERS
95-AM-243	23		2 500- 8	2 500- 8	72 3520	49	RESONANCE PARAMETERS
95-AM-243	23		2 500- 8	2 500- 8	64 1978	315	TOTAL
95-AM-243	23		2 500- 8	2 500- 8	68 2103	1	ABSORPTION
95-AM-243	23		2 500- 8	2 500- 8	68 2104	1	ABSORPTION
95-AM-243	23		2 500- 8	2 500- 8	72 3232	1	N F
95-AM-243	23		2 500- 8	2 500- 8	71 3062	43	N F
95-AM-243	23		2 500- 8	2 500- 8	58 2861	3	N F
95-AM-243	23		2 500- 8	2 500- 8	57 1518	2	N F
95-AM-243	23		2 500- 8	2 500- 8	57 1518	1	N F
95-AM-243	23		2 500- 8	2 500- 8	58 2100	1	N F

TARGET CODE S E-MIN-KEV E-MAX-KEV REFERENCE POINTS REACTION DESCRIPTION

... 1-352 ...

07/04/76

ECSIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 96244

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	96-CM-244	23	2.500- 8	2.500- 8	54 1474	1	N,GAMMA
C	96-CM-244	23	2.001- 5	9.951- 3	71 3062	3491	N,GAMMA
N	96-CM-244	46	-6.860+ 0	-5.860+ 0	72 3429	1	NU-BAR PROMPT
N	96-CM-244	46	-6.860+ 0	-6.860+ 0	55 1143	1	NU-BAR PROMPT
N	96-CM-244	46	-6.860+ 0	-6.860+ 0	55 1144	1	NU-BAR PROMPT
N	96-CM-244	46	-6.860+ 0	-6.860+ 0	56 1145	1	NU-BAR PROMPT
N	96-CM-244	46	-6.860+ 0	-6.860+ 0	56 1146	1	NU-BAR PROMPT
N	96-CM-244	46	-6.860+ 0	-6.860+ 0	56 1147	1	NU-BAR PROMPT
N	96-CM-244	46	-6.860+ 0	-6.860+ 0	64 2091	1	NU-BAR PROMPT
N	96-CM-244	46	-6.860+ 0	-6.860+ 0	69 1912	1	NU-BAR PROMPT
N	96-CM-244	46	0.000+ 0	0.000+ 0	70 4040	1	NU-BAR PROMPT
N	96-CM-244	46	0.000+ 0	0.000+ 0	73 4058	1	NU-BAR PROMPT
N	96-CM-244	46	0.000+ 0	0.000+ 0	74 4087	1	NU-BAR PROMPT
	96-CM-244	49	2.530- 8	2.530- 8	68 2103	1	ALPHA
	96-CM-244	72	2.000+ 0	2.000+ 0	67 1518	2	N,F
	96-CM-244	73	2.500- 8	2.500- 8	66 1977	1	N,GAMMA
N	96-CM-244	222 80	-6.860+ 0	-6.860+ 0	69 2363	24	N,F
N	96-CM-244	521	4.000- 7	1.500+ 1	72 3520	1	ABSORPTION
C	96-CM-244	521	8.300- 7	1.000+ 1	68 2103	1	ABSORPTION
C	96-CM-244	522	6.250- 1	1.500+ 1	72 3232	1	N,F
C	96-CM-244	523	5.000- 7	1.500+ 1	69 2098	1	N,GAMMA
	96-CM-244		-6.860+ 0	-5.860+ 0	69 2363	1	NUCLEAR TEMPERATURE
H	96-CM-244		0.000+ 0	0.000+ 0	70 4040	1	NUCLEAR TEMPERATURE
C	96-CM-244		0.000+ 0	1.950- 4	71 2908	2	AVERAGE RESONANCE PARAMETERS
N	96-CM-244		0.000+ 0	2.740- 4	64 1978	1	AVERAGE RESONANCE PARAMETERS
C	96-CM-244		2.000- 5	9.720- 4	71 737	4	AVERAGE RESONANCE PARAMETERS
	96-CM-244		-1.480- 6	1.950- 4	71 2908	14	RESONANCE PARAMETERS
N	96-CM-244		7.660- 6	8.540- 5	72 3520	21	RESONANCE PARAMETERS
	96-CM-244		7.730- 6	7.680- 4	64 1978	30	RESONANCE PARAMETERS
	96-CM-244		2.285- 5	9.715- 4	71 797	119	RESONANCE PARAMETERS
N	96-CM-245	1	2.530- 8	2.530- 8	72 3520	1	TOTAL
N	96-CM-245	22	2.500- 8	2.500- 8	72 3232	1	N,F
	96-CM-245	22	2.500- 8	2.500- 8	70 3326	1	N,F
	96-CM-245	22	1.999- 5	2.831+ 0	71 3062	4301	N,F
	96-CM-245	23	2.500- 8	2.500- 8	54 1474	1	N,GAMMA
	96-CM-245	24	2.500- 8	2.500- 8	69 3325	1	N,GAMMA
	96-CM-245	46	2.530- 8	2.530- 8	69 1912	1	NU-BAR PROMPT
N	96-CM-245	46	2.530- 8	2.530- 8	70 4040	1	NU-BAR PROMPT
	96-CM-245	49	2.530- 8	2.530- 8	68 2103	1	ALPHA
	96-CM-245	71	2.500- 8	2.500- 8	68 2104	1	ABSORPTION
	96-CM-245	72	2.500- 8	2.500- 8	55 1187	1	N,F
	96-CM-245	72	2.500- 8	2.500- 8	57 386	1	N,F
	96-CM-245	72	2.500- 8	2.500- 8	66 1977	1	N,F
	96-CM-245	72	2.500- 8	2.500- 8	68 1517	1	N,F
	96-CM-245	72	2.500- 8	2.500- 8	68 2104	1	N,F
	96-CM-245	73	2.500- 8	2.500- 8	66 1977	1	N,GAMMA
N	96-CM-245	521	4.000- 7	1.500+ 1	72 3520	1	ABSORPTION
C	96-CM-245	521	5.000- 7	1.500+ 1	69 2098	1	ABSORPTION
C	96-CM-245	521	6.200- 7	1.000+ 1	68 2103	1	ABSORPTION
C	96-CM-245	522	5.400- 7	1.500+ 1	70 3326	1	N,F
C	96-CM-245	522	6.250- 1	1.500+ 1	72 3232	1	N,F
C	96-CM-245	523	5.400- 7	1.500+ 1	69 3325	1	N,GAMMA

SPECTRUM AVERAGED CROSS SECTION
SPECTRUM AVERAGED CROSS SECTION
ENERGY DISTRIBUTION
RESONANCE INTEGRAL
RESONANCE INTEGRAL
RESONANCE INTEGRAL
RESONANCE INTEGRAL

SPECTRUM AVERAGED CROSS SECTION
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RESONANCE INTEGRAL
RESONANCE INTEGRAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-353 ***

ZA = 96245

07/04/76

EC51L-7600 REACTION INDEX (ZA ORDERED)

ZA = 96245

TARGET	CODE	S	E	-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	RESONANCE INTEGRAL	SECTION
C	95-CM-245	549	5	200	7	1.000	1	1. ALPHA	68 2103	1
N	95-CM-245		2	530	8	2.530	0	1. NUCLEAR TEMPERATURE	70 4040	1
N	95-CM-245		2	100	5	5.000	0	3. AVERAGE RESONANCE PARAMETERS	71 797	3
N	95-CM-245		1	950	5	2.930	5	30. RESONANCE PARAMETERS	72 3520	30
N	95-CM-245		1	955	5	5.828	5	22. RESONANCE PARAMETERS	71 2508	22
N	95-CM-245		2	136	5	5.999	5	52. RESONANCE PARAMETERS	71 797	52
N	95-CM-245	21	2	530	8	2.530	8	1. ABSORPTION	68 2103	1
N	95-CM-245	22	2	500	8	2.500	8	1. N.F.	72 3232	1087
N	95-CM-245	22	2	551	5	2.830	0	1. N.F.	71 3062	1087
N	95-CM-245	23	2	500	8	2.500	8	1. N.GAMMA	54 1474	1
N	95-CM-245	23	2	500	8	2.500	8	1. N.GAMMA	69 3325	1
N	95-CM-245	23	2	500	8	2.500	8	1. N.GAMMA	71 3062	107
N	95-CM-245	46	6	416	5	3.821	4	1. NU-BAR PROMPT	70 3470	1
N	95-CM-245	46	6	450	0	6.450	0	1. NU-BAR PROMPT	72 3429	1
N	95-CM-245	46	6	450	0	6.450	0	1. NU-BAR PROMPT	73 4051	1
N	95-CM-245	46	6	000	0	0.000	0	1. NU-BAR PROMPT	73 4058	1
N	95-CM-245	46	6	000	0	0.000	0	1. NU-BAR PROMPT	74 4087	1
N	95-CM-245	521	6	200	7	1.000	1	1. ABSORPTION	68 2103	1
N	95-CM-245	522	6	250	1	1.500	1	1. N.F.	72 3232	1
N	95-CM-245	523	5	000	7	1.500	1	1. N.GAMMA	69 2098	1
N	95-CM-245	523	5	400	7	1.500	1	1. N.GAMMA	69 3325	1
N	95-CM-245	523	5	400	5	3.810	4	1. AVERAGE RESONANCE PARAMETERS	71 797	5
N	95-CM-245		3	308	6	1.580	4	5. RESONANCE PARAMETERS	71 2908	5
N	95-CM-245		4	310	6	1.529	5	6. RESONANCE PARAMETERS	72 3520	6
N	95-CM-245		4	315	5	1.585	4	11. RESONANCE PARAMETERS	74 3622	11
N	95-CM-245		4	330	5	8.450	5	6. RESONANCE PARAMETERS	64 1978	6
N	95-CM-245		8	443	5	3.811	4	17. RESONANCE PARAMETERS	71 797	17
N	95-CM-245	22	2	500	8	2.500	8	1. N.F.	72 3232	1
N	95-CM-245	22	2	500	8	2.500	8	1. N.F.	70 3326	1
N	95-CM-245	22	2	500	8	2.500	8	1. N.F.	71 3062	4111
N	95-CM-245	22	2	500	8	2.500	8	1. N.F.	68 2104	1
N	95-CM-245	71	2	500	8	2.500	8	1. N.F.	66 1977	1
N	95-CM-245	72	2	500	8	2.500	8	1. N.F.	68 1517	1
N	95-CM-245	72	2	500	8	2.500	8	1. N.F.	68 2104	1
N	95-CM-245	73	2	500	8	2.500	8	1. N.GAMMA	55 1187	1
N	95-CM-245	73	2	500	8	2.500	8	1. N.GAMMA	66 1977	1
N	95-CM-245	522	5	400	7	1.500	1	1. N.F.	70 3326	1
N	95-CM-245	522	5	400	5	1.500	1	1. N.F.	72 3232	1
N	95-CM-245	522	5	400	5	6.000	5	3. AVERAGE RESONANCE PARAMETERS	71 797	3
N	95-CM-245	522	5	400	5	5.965	5	58. RESONANCE PARAMETERS	71 797	58
N	95-CM-245	22	2	130	5	5.965	5	1. N.F.	72 3232	1947
N	95-CM-245	22	2	500	8	2.500	8	1. N.F.	71 3062	106
N	95-CM-245	23	2	522	5	2.830	0	1. N.GAMMA	71 3062	1
N	95-CM-245	46	6	210	0	1.002	4	1. NU-BAR PROMPT	71 3156	1
N	95-CM-245	46	6	210	0	6.210	0	1. NU-BAR PROMPT	72 3429	1
N	95-CM-245	46	6	000	0	0.000	0	1. ABSORPTION	74 4087	1
N	95-CM-245	71	2	500	8	2.500	8	1. N.F.	68 2104	1
N	95-CM-245	522	5	400	5	1.500	1	1. N.F.	72 3232	2
N	95-CM-245	522	5	400	5	1.500	1	1. N.F.	71 797	17
N	95-CM-245	522	5	400	5	2.414	5	17. RESONANCE PARAMETERS	74 4087	17
N	95-CM-245	522	5	400	5	4.150	5	1. N.F.	71 797	1
N	95-CM-245	522	5	400	5	2.500	8	1. N.F.	72 3232	1

TARGET CODE S E -MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

... 1-354 ...

ZA = 96249

07/04/76

ECLIL-7600 REACTION INDEX (ZA ORDERED)

ZA = 96249

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	96-CM-249	522	6.250-	1 1.500-	1 72 3232	1	N.F. RESONANCE INTEGRAL
	96-CM-250	46	-5.003+	0 -5.000+	0 71 3156	1	NU-BAR PROMPT
	97-BK-249	21	2.530-	8 2.530-	8 68 2103	1	ABSORPTION
	97-BK-249	22	5.000+	0 5.000+	0 69 2378	1	N.F.
N	97-BK-249	46	-5.460+	0 -5.460+	0 72 3422	1	NU-BAR PROMPT
	97-BK-249	73	2.500-	8 2.500-	8 54 1473	1	N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	97-BK-249	73	2.500-	8 2.500-	8 74 1979	1	N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	97-BK-249	73	2.500-	8 2.500-	8 66 1977	1	N.GAMMA SPECTRUM AVERAGED CROSS SECTION
C	97-BK-249	521	5.500-	7 1.000+	1 68 2103	1	ABSORPTION RESONANCE INTEGRAL
	97-BK-250	72	2.500-	8 2.500-	8 68 1517	1	N.F. SPECTRUM AVERAGED CROSS SECTION
	98-CF-249	22	2.500-	8 2.500-	8 70 3326	1	N.F.
	98-CF-249	22	1.301-	5 2.897+	0 72 3274	5184	N.F.
	98-CF-249	22	5.000-	1 5.000-	1 69 2378	1	N.F.
N	98-CF-249	22	5.000-	1 5.020+	0 72 4044	7	N.F.
N	98-CF-249	22	5.000-	1 7.000+	0 74 4066	13	N.F.
	98-CF-249	23	2.500-	8 2.500-	8 71 3323	1	N.GAMMA
N	98-CF-249	46	2.530-	8 2.530-	8 71 3421	1	NU-BAR PROMPT
	98-CF-249	71	2.500-	8 2.500-	8 54 1473	1	ABSORPTION
	98-CF-249	72	2.500-	8 2.500-	8 64 1980	1	N.F. SPECTRUM AVERAGED CROSS SECTION
	98-CF-249	73	2.500-	8 2.500-	8 54 1473	1	N.F. SPECTRUM AVERAGED CROSS SECTION
C	98-CF-249	522	5.400-	7 1.500+	1 70 3326	1	N.F. RESONANCE INTEGRAL
C	98-CF-249	523	5.000-	7 1.500+	1 71 3323	1	N.GAMMA RESONANCE INTEGRAL
N	98-CF-249	872	5.000-	1 7.000+	0 74 4066	13	N.F. CROSS SECTION RATIO
N	98-CF-249		0.000+	0 7.000-	5 72 3274	2	AVERAGE RESONANCE PARAMETERS
N	98-CF-249		7.080-	7 1.682-	5 72 3616	35	RESONANCE PARAMETERS
N	98-CF-249		1.600-	5 6.930-	5 72 3274	86	RESONANCE PARAMETERS
	98-CF-250	21	2.530-	8 2.530-	8 68 2103	1	ABSORPTION
	98-CF-250	23	2.500-	8 2.500-	8 71 3323	1	N.GAMMA
	98-CF-250	46	-6.620+	0 -6.620+	0 71 3156	1	NU-BAR PROMPT
	98-CF-250	71	2.530-	8 2.530-	8 68 2104	1	ABSORPTION
	98-CF-250	73	2.500-	8 2.500-	8 66 1977	1	N.GAMMA SPECTRUM AVERAGED CROSS SECTION
C	98-CF-250	521	6.200-	7 1.000+	1 68 2103	1	ABSORPTION RESONANCE INTEGRAL
C	98-CF-250	523	5.000-	7 1.500+	1 71 3323	1	N.GAMMA RESONANCE INTEGRAL
	98-CF-251	21	2.530-	8 2.530-	8 68 2103	1	ABSORPTION
	98-CF-251	23	2.500-	8 2.500-	8 71 3323	1	N.GAMMA
	98-CF-251	49	2.530-	8 2.530-	8 68 2103	1	ALPHA
	98-CF-251	71	2.500-	8 2.500-	8 68 2104	1	ABSORPTION
	98-CF-251	72	2.500-	8 2.500-	8 64 1980	1	N.F. SPECTRUM AVERAGED CROSS SECTION
	98-CF-251	72	2.500-	8 2.500-	8 66 1977	1	N.F. SPECTRUM AVERAGED CROSS SECTION
	98-CF-251	72	2.500-	8 2.500-	8 68 2104	1	N.F. SPECTRUM AVERAGED CROSS SECTION
N	98-CF-251	72	2.530-	8 2.530-	8 74 3172	1	N.F. SPECTRUM AVERAGED CROSS SECTION
	98-CF-251	73	2.500-	8 2.500-	8 54 1979	1	N.F. SPECTRUM AVERAGED CROSS SECTION
	98-CF-251	73	2.500-	8 2.500-	8 66 1977	1	N.GAMMA SPECTRUM AVERAGED CROSS SECTION
C	98-CF-251	521	6.200-	7 1.000+	1 68 2103	1	ABSORPTION RESONANCE INTEGRAL
C	98-CF-251	523	5.000-	7 1.500+	1 71 3323	1	N.GAMMA RESONANCE INTEGRAL
	98-CF-252	21	2.530-	8 2.530-	8 68 2103	1	ABSORPTION
N	98-CF-252	22	2.500-	8 2.500-	8 71 3325	1	N.F.
N	98-CF-252	22	2.407-	5 4.744+	0 71 3141	4222	N.F.
	98-CF-252	23	2.530-	8 2.530-	8 69 2102	1	N.GAMMA
	98-CF-252	46	-6.350+	0 -6.350+	0 55 1142	1	NU-BAR PROMPT
	98-CF-252	46	-6.350+	0 -6.350+	0 55 1143	1	NU-BAR PROMPT
	98-CF-252	46	-6.350+	0 -6.350+	0 56 1145	1	NU-BAR PROMPT

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 1-355 ***

ZA = 98252

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	98-CF-252	46		-6.350+	0	-6.350+ 0	56 1146	1 NU-BAR PROMPT
	98-CF-252	44		-6.350+	0	-6.350+ 0	56 1147	1 NU-BAR PROMPT
	98-CF-252	46		-6.350+	0	-6.350+ 0	58 1160	1 NU-BAR PROMPT
	98-CF-252	46		-6.350+	0	-6.350+ 0	61 1062	1 NU-BAR PROMPT
	98-CF-252	46		-6.350+	0	-6.350+ 0	61 1166	1 NU-BAR PROMPT
	98-CF-252	45		-6.350+	0	-6.350+ 0	61 1334	1 NU-BAR PROMPT
	98-CF-252	46		-6.350+	0	-6.350+ 0	62 1154	1 NU-BAR PROMPT
	98-CF-252	46		-6.350+	0	-6.350+ 0	63 1073	1 NU-BAR PROMPT
	98-CF-252	46		-6.350+	0	-6.350+ 0	63 1538	1 NU-BAR PROMPT
	98-CF-252	46		-6.350+	0	-6.350+ 0	65 1085	1 NU-BAR PROMPT
	98-CF-252	46		-6.350+	0	-6.350+ 0	66 1071	1 NU-BAR PROMPT
	98-CF-252	46		-6.350+	0	-6.350+ 0	66 1323	1 NU-BAR PROMPT
	98-CF-252	46		-6.350+	0	-6.350+ 0	68 1504	1 NU-BAR PROMPT
	98-CF-252	46		-6.350+	0	-6.350+ 0	69 2301	1 NU-BAR PROMPT
C	98-CF-252	46		-6.350+	0	-6.350+ 0	70 4040	1 NU-BAR PROMPT
N	98-CF-252	46		-6.350+	0	-6.350+ 0	71 1417	1 NU-BAR PROMPT
N	98-CF-252	46		-6.350+	0	-6.350+ 0	73 4088	1 NU-BAR PROMPT
	98-CF-252	47		-6.350+	0	-6.350+ 0	58 705	1 NU-BAR DELAYED
	98-CF-252	72		2.500-	8	2.500- 8	70 3233	1 N,F
	98-CF-252	73		2.500-	8	2.500- 8	54 1473	1 N,GAMMA
	98-CF-252	73		2.500-	8	2.500- 8	54 1979	1 N,GAMMA
	98-CF-252	73		2.500-	8	2.500- 8	70 3233	1 N,GAMMA
N	98-CF-252	222		0.000+	0	0.000+ 0	73 3792	183 N,F
N	98-CF-252	222	80	0.000+	0	0.000+ 0	71 3812	88 N,F
C	98-CF-252	521		9.200-	7	1.000+ 1	68 2103	1 ABSORPTION
N	98-CF-252	522		5.400-	6	1.500+ 1	71 3522	1 N,F
C	98-CF-252	523		5.400-	7	1.500+ 1	69 2102	1 N,GAMMA
	98-CF-252	836		-6.350+	0	-6.350+ 0	65 1085	1 NU-BAR PROMPT
	98-CF-252			-6.350+	0	-6.350+ 0	65 1335	1 NUCLEAR TEMPERATURE
N	98-CF-252			0.000+	0	0.000+ 0	70 4040	1 NUCLEAR TEMPERATURE
	98-CF-252			2.455+	5	9.835+ 4	71 3141	35 RESONANCE PARAMETERS
	98-CF-253	71		2.500-	8	2.500- 8	68 2104	1 ABSORPTION
N	98-CF-253	72		2.530-	8	2.530- 8	73 3469	1 N,F
N	98-CF-253	72		5.400-	7	5.400- 7	70 2102	1 N,F
N	98-CF-253	73		5.400-	7	5.400- 7	70 2102	1 N,GAMMA
	98-CF-254	46		-5.000+	0	-5.000+ 0	71 3156	1 NU-BAR PROMPT
	99-ES-253	21		2.530-	8	2.530- 8	68 2103	1 ABSORPTION
	99-ES-253	73		2.500-	8	2.500- 8	54 1473	1 N,GAMMA
N	99-ES-253	73	4	2.530-	8	2.530- 8	73 3522	1 N,GAMMA
N	99-ES-253	73	5	2.530-	8	2.530- 8	73 3522	1 N,GAMMA
C	99-ES-253	521		5.500-	7	1.000+ 1	68 2103	1 ABSORPTION
N	99-ES-253	523	4	4.120-	7	1.500+ 1	73 3522	1 N,GAMMA
N	99-ES-253	523	5	4.120-	7	1.500+ 1	73 3522	1 N,GAMMA
	99-ES-254	72		2.500-	8	2.500- 8	68 1517	1 N,F
N	99-ES-254	72		2.530-	8	2.530- 8	72 3485	1 N,F
N	99-ES-254	522		6.250-	7	1.500+ 1	72 3485	1 N,F
	99-ES-254M	72		2.500-	8	2.500- 8	68 1517	1 N,F
	100-FM-254	46		-6.780+	0	-6.780+ 0	56 1148	1 NU-BAR PROMPT
	100-FM-255	72		2.530-	8	2.530- 8	74 3472	1 N,F
N	100-FM-256	46		-6.370+	0	-6.370+ 0	72 3430	1 NU-BAR PROMPT
	100-FM-257	46		-4.960+	0	-4.960+ 0	71 3192	1 NU-BAR PROMPT
	100-FM-257	46		-4.960+	0	-4.960+ 0	73 3454	1 NU-BAR PROMPT

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/76

EGSIL-7600 REACTION INDEX (ZA ORDERED)

ZA =100257

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 100-FM-257	72		2.530-	8	2.530- 8	73 3469	1 N.F

SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 1-357 ***

ZA =100257

07/04/76

ECSIL-7600 RFACTION INDEX (REACTION NO. ORDERED)

C = 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	1-H	-1	2.800- 7	7.051- 4	71 3176	64	TOTAL
	1-H	-1	1.300- 5	1.650- 3	49 53	21	TOTAL
	1-H	-1	3.500- 2	4.900- 1	46 175	3	TOTAL
	1-H	-1	6.000- 2	5.500- 1	55 210	5	TOTAL
	1-H	-1	2.200- 1	4.050+ 0	50 311	10	TOTAL
	1-H	-1	4.925- 1	3.205+ 0	63 280	2	TOTAL
	1-H	-1	5.011- 1	2.463+ 1	71 3163	425	TOTAL
	1-H	-1	5.260- 1	5.260- 1	71 3248	1	TOTAL
	1-H	-1	7.014- 1	3.199+ 1	69 3329	1066	TOTAL
	1-H	-1	7.200- 1	6.000+ 0	46 174	7	TOTAL
	1-H	-1	7.980- 1	1.578+ 0	49 183	4	TOTAL
	1-H	-1	8.410- 1	5.858+ 0	69 3332	10	TOTAL
	1-H	-1	9.000- 1	9.000- 1	41 170	1	TOTAL
	1-H	-1	1.000+ 0	1.000+ 0	50 185	1	TOTAL
	1-H	-1	1.005+ 0	2.540+ 0	54 106	2	TOTAL
	1-H	-1	1.315+ 0	1.315+ 0	54 112	1	TOTAL
	1-H	-1	1.447+ 0	1.497+ 1	69 2941	1652	TOTAL
	1-H	-1	1.500+ 0	2.752+ 1	71 3156	27	TOTAL
	1-H	-1	2.302+ 0	1.469+ 1	67 750	238	TOTAL
	1-H	-1	2.532+ 0	2.532+ 0	53 208	1	TOTAL
	1-H	-1	2.533+ 0	2.533+ 0	71 3187	1	TOTAL
	1-H	-1	2.770+ 0	2.770+ 0	65 1562	1	TOTAL
	1-H	-1	2.890+ 0	2.890+ 0	39 42	1	TOTAL
	1-H	-1	2.950+ 0	1.318+ 1	54 504	38	TOTAL
	1-H	-1	3.100+ 0	3.100+ 0	50 205	1	TOTAL
	1-H	-1	4.749+ 0	4.749+ 0	53 87	1	TOTAL
	1-H	-1	6.500+ 0	6.500+ 0	47 181	1	TOTAL
	1-H	-1	7.170+ 0	1.402+ 1	57 22	6	TOTAL
	1-H	-1	1.340+ 1	1.390+ 1	51 65	1	TOTAL
	1-H	-1	1.400+ 1	1.400+ 1	52 207	1	TOTAL
	1-H	-1	1.408+ 1	1.408+ 1	51 206	1	TOTAL
	1-H	-1	1.410+ 1	1.410+ 1	52 78	1	TOTAL
	1-H	-1	1.410+ 1	1.410+ 1	53 464	1	TOTAL
	1-H	-1	1.410+ 1	1.410+ 1	59 532	1	TOTAL
	1-H	-1	1.410+ 1	1.410+ 1	70 3056	1	TOTAL
	1-H	-1	1.410+ 1	1.800+ 1	54 107	8	TOTAL
	1-H	-1	1.580+ 1	1.150+ 2	61 789	59	TOTAL
	1-H	-1	1.780+ 1	2.900+ 1	60 573	5	TOTAL
	1-H	-1	1.957+ 1	2.795+ 1	66 1575	3	TOTAL
	1-H	-1	1.958+ 1	3.046+ 1	65 927	5	TOTAL
	1-H	-1	1.957+ 1	1.967+ 1	59 835	1	TOTAL
	1-H	-1	1.993+ 1	1.993+ 1	53 274	1	TOTAL
	1-H	-1	2.463+ 1	5.935+ 1	70 3151	8	TOTAL
	1-H	-1	2.540+ 1	2.540+ 1	45 307	1	TOTAL
	1-H	-1	3.800+ 1	1.530+ 2	53 355	5	TOTAL
	1-H	-1	4.200+ 1	4.200+ 1	50 281	1	TOTAL
	1-H	-1	8.800+ 1	8.800+ 1	54 343	1	TOTAL
	1-H	-1	8.820+ 1	1.509+ 2	66 1055	7	TOTAL
	1-H	-1	9.000+ 1	9.000+ 1	49 286	1	TOTAL
	1-H	-1	9.340+ 1	1.068+ 2	55 282	4	TOTAL
	1-H	-1	9.500+ 1	9.500+ 1	50 12	1	TOTAL
	1-H	-1	1.000+ 2	1.260+ 3	65 1597	30	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2- 1 ***

C = 1

*TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

1-1	1	2.000	2	2.000	2	62 1601	1	TOTAL
1-1	1	7.350	2	1.400	3	57 3650	26	TOTAL
1-1	1	1.400	3	1.400	3	56 1506	1	TOTAL
1-1	1	2.600	3	9.300	3	65 1506	5	TOTAL
1-1	1	5.000	3	5.700	3	69 3180	2	TOTAL
1-1	1	5.000	3	5.000	3	61 1566	1	TOTAL
1-1	1	8.300	3	8.300	3	62 1600	1	TOTAL
1-1	1	1.200	4	2.650	4	71 3180	4	TOTAL
1-1	1	1.460	4	2.700	4	68 1948	4	TOTAL
1-1	1	3.400	4	2.730	5	74 3620	7	TOTAL
1-1	1	2.240	2	9.926	1	72 3595	446	TOTAL
1-1	1	1.000	1	2.000	1	55 214	3	TOTAL
1-1	1	1.000	1	1.320	0	53 795	3	TOTAL
1-1	1	2.600	1	3.800	0	50 311	14	TOTAL
1-1	1	2.620	1	2.962	0	53 290	9	TOTAL
1-1	1	2.670	1	2.185	1	55 120	29	TOTAL
1-1	1	3.500	1	6.000	0	46 176	15	TOTAL
1-1	1	5.010	1	2.991	1	71 3163	432	TOTAL
1-1	1	1.500	0	2.752	1	71 3166	27	TOTAL
1-1	1	2.250	0	1.493	1	67 750	242	TOTAL
1-1	1	2.790	0	3.570	0	64 791	31	TOTAL
1-1	1	4.500	0	5.500	0	51 285	2	TOTAL
1-1	1	7.170	0	1.401	1	57 22	5	TOTAL
1-1	1	1.400	1	1.400	1	52 207	1	TOTAL
1-1	1	1.410	1	1.410	1	52 78	1	TOTAL
1-1	1	1.750	1	1.800	1	54 107	8	TOTAL
1-1	1	1.750	1	1.125	2	85 2015	28	TOTAL
1-1	1	1.750	1	1.225	2	63 263	28	TOTAL
1-1	1	2.463	1	2.900	1	60 673	4	TOTAL
1-1	1	4.200	1	5.935	1	72 3571	8	TOTAL
1-1	1	8.820	1	1.503	2	66 1055	7	TOTAL
1-1	1	9.000	1	9.000	1	49 286	1	TOTAL
1-1	1	9.340	1	1.068	2	55 282	4	TOTAL
1-1	1	9.480	1	1.073	2	94 39	4	TOTAL
1-1	1	9.500	1	9.500	1	50 12	1	TOTAL
1-1	1	7.250	2	3.400	3	73 3630	26	TOTAL
1-1	1	4.000	3	5.700	3	69 3160	2	TOTAL
1-1	1	1.460	3	2.700	4	68 1948	2	TOTAL
1-1	1	3.400	4	5.730	4	71 3180	1	TOTAL
1-1	1	2.600	1	1.000	1	59 532	23	TOTAL
1-1	1	3.300	0	5.500	1	57 431	2	TOTAL
1-1	1	1.000	10	3.500	6	59 53	42	TOTAL
1-1	1	6.400	10	9.050	9	61 760	13	TOTAL
1-1	1	1.310	9	1.833	5	60 160	20	TOTAL
1-1	1	3.320	9	5.265	5	60 752	107	TOTAL
1-1	1	3.540	9	1.390	5	59 53	40	TOTAL
1-1	1	1.011	8	1.538	5	66 894	133	TOTAL
1-1	1	1.200	8	5.300	7	67 1884	243	TOTAL
1-1	1	4.222	7	1.715	3	61 779	29	TOTAL
1-1	1					64 793	47	TOTAL

*TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

H20	1	1.440-6	1.440-6	65 949	1	TOTAL
H20	1	3.500-0	6.000+0	46 176	15	TOTAL
H20	1	9.500+1	9.500+1	50 12	2	TOTAL
D20	1	3.49-10	4.565-9	53 794	36	TOTAL
D20	1	1.10-8	8.000-6	48 173	37	TOTAL
D20	1	1.440-6	1.440-6	65 949	1	TOTAL
D20	1	5.550-6	1.980-3	59 778	96	TOTAL
D20	1	3.500+1	6.000+0	46 176	15	TOTAL
D20	1	9.500+1	9.500+1	50 12	1	TOTAL
2-HE-NAT	1	2.100-9	2.510-8	63 777	24	TOTAL
2-HE-NAT	1	1.871-7	6.195-6	69 2998	11	TOTAL
2-HE-NAT	1	1.220-1	6.227+0	60 570	105	TOTAL
2-HE-NAT	1	7.015-1	2.962+1	72 3237	482	TOTAL
2-HE-NAT	1	9.400-1	2.007+1	59 532	20	TOTAL
2-HE-NAT	1	6.990+0	1.201+1	62 694	4	TOTAL
2-HE-NAT	1	1.797+1	2.007+1	53 274	3	TOTAL
2-HE-NAT	1	2.000-1	2.900+1	64 796	26	TOTAL
2-HE-NAT	1	4.750+1	8.800+1	54 343	2	TOTAL
2-HE-NAT	1	7.200+1	1.509+2	66 1056	5	TOTAL
2-HE-NAT	1	5.700+3	5.700+3	69 3160	1	TOTAL
2-HE-3	1	3.028-10	1.104-5	64 776	22	TOTAL
2-HE-3	1	1.400-9	3.190-8	49 775	7	TOTAL
2-HE-3	1	1.400-1	1.480+1	54 503	30	TOTAL
2-HE-3	1	7.002-1	2.994+1	73 3237	976	TOTAL
2-HE-3	1	1.500+1	2.140+1	59 532	10	TOTAL
3-LI-NAT	1	1.700-9	3.000-5	46 961	35	TOTAL
3-LI-NAT	1	1.000-3	3.320-1	64 681	463	TOTAL
3-LI-NAT	1	2.000-2	1.538+0	68 3005	871	TOTAL
3-LI-NAT	1	1.840-1	1.835+0	59 762	583	TOTAL
3-LI-NAT	1	1.490-1	3.730-1	51 713	28	TOTAL
3-LI-NAT	1	1.330+0	3.370+0	51 72	68	TOTAL
3-LI-NAT	1	2.272+0	1.495+1	67 760	243	TOTAL
3-LI-NAT	1	2.370+0	7.840+0	54 505	19	TOTAL
3-LI-NAT	1	2.800+0	9.700+0	54 504	26	TOTAL
3-LI-NAT	1	3.250+0	4.520+0	61 755	4	TOTAL
3-LI-NAT	1	3.290+0	3.290+0	55 505	1	TOTAL
3-LI-NAT	1	4.170+0	6.060+0	66 1620	40	TOTAL
3-LI-NAT	1	4.320+0	8.730+0	56 141	76	TOTAL
3-LI-NAT	1	1.410+1	1.600+1	54 107	8	TOTAL
3-LI-NAT	1	1.480+1	1.480+1	57 368	1	TOTAL
3-LI-NAT	1	4.200+1	4.200+1	50 281	1	TOTAL
3-LI-NAT	1	9.000+1	9.000+1	49 286	1	TOTAL
3-LI-6	1	1.000-3	1.000-3	54 6	1	TOTAL
3-LI-6	1	1.000-2	4.500-1	56 522	17	TOTAL
3-LI-6	1	1.380-2	1.360+0	68 3005	704	TOTAL
3-LI-6	1	4.000-2	6.463+1	68 3054	125	TOTAL
3-LI-6	1	1.003-1	1.499+0	72 3154	987	TOTAL
3-LI-6	1	3.910-1	4.155+0	54 114	179	TOTAL
3-LI-6	1	7.003-1	2.983+1	72 3191	507	TOTAL
3-LI-6	1	2.258+0	1.488+1	67 750	237	TOTAL
3-LI-6	1	2.500+0	1.400+1	57 493	2	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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N

07/04/76

EC51L-500 REACTION INDEX REACTION NO. ORDERED)

C - 1

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

3-11-5	1	2.800	0	9.700	0	54	504	26	TOTAL
3-11-6	1	7.010	0	1.398	1	57	52	5	TOTAL
3-11-6	1	1.400	1	1.400	1	52	61	1	TOTAL
3-11-6	1	1.610	1	2.770	1	60	673	118	TOTAL
3-11-7	1	1.000	3	2.800	3	54	1062	11	TOTAL
3-11-7	1	2.800	3	2.800	3	52	552	17	TOTAL
3-11-7	1	1.000	2	1.500	0	58	305	596	TOTAL
3-11-7	1	1.000	2	1.268	0	70	313	940	TOTAL
3-11-7	1	2.570	1	2.570	0	54	528	601	TOTAL
3-11-7	1	7.008	1	1.984	1	71	318	235	TOTAL
3-11-7	1	2.565	0	1.494	1	67	750	5	TOTAL
3-11-7	1	2.500	0	1.400	1	57	423	2	TOTAL
3-11-7	1	7.010	0	1.398	1	57	81	1	TOTAL
3-11-7	1	1.400	1	1.400	1	52	81	4	TOTAL
3-11-7	1	1.810	1	2.770	1	60	673	501	TOTAL
4-8E-9	1	4.521	9	1.161	5	71	4053	504	TOTAL
4-8E-9	1	4.521	9	1.161	5	72	4053	504	TOTAL
4-8E-9	1	5.200	9	1.870	7	47	3099	47	TOTAL
4-8E-9	1	1.500	8	3.800	7	62	851	23	TOTAL
4-8E-9	1	2.240	7	3.070	5	58	3100	11	TOTAL
4-8E-9	1	1.500	6	3.850	3	52	803	26	TOTAL
4-8E-9	1	1.150	4	3.000	4	49	814	2	TOTAL
4-8E-9	1	1.150	4	3.000	2	54	1002	59	TOTAL
4-8E-9	1	2.000	2	2.400	1	49	49	20	TOTAL
4-8E-9	1	2.350	2	2.350	2	75	3897	1	TOTAL
4-8E-9	1	5.300	2	5.510	1	62	720	798	TOTAL
4-8E-9	1	7.000	2	5.550	0	66	4017	14	TOTAL
4-8E-9	1	1.200	1	1.090	0	50	234	20	TOTAL
4-8E-9	1	1.220	1	1.200	0	71	3795	275	TOTAL
4-8E-9	1	1.870	1	2.120	1	62	772	11	TOTAL
4-8E-9	1	2.250	1	1.443	0	50	63	83	TOTAL
4-8E-9	1	4.964	1	1.992	1	71	3162	3450	TOTAL
4-8E-9	1	5.055	1	8.500	1	64	92	58	TOTAL
4-8E-9	1	9.000	1	9.000	1	41	170	1	TOTAL
4-8E-9	1	1.370	0	3.350	0	51	72	117	TOTAL
4-8E-9	1	1.911	0	4.555	0	59	1642	182	TOTAL
4-8E-9	1	2.000	0	5.960	0	51	335	16	TOTAL
4-8E-9	1	2.259	0	1.480	1	67	750	254	TOTAL
4-8E-9	1	2.480	0	4.100	0	60	1645	7	TOTAL
4-8E-9	1	2.500	0	1.392	1	54	504	33	TOTAL
4-8E-9	1	2.770	0	2.700	0	67	1527	1	TOTAL
4-8E-9	1	3.370	0	1.592	1	61	602	171	TOTAL
4-8E-9	1	3.770	0	8.000	0	57	153	140	TOTAL
4-8E-9	1	4.000	0	4.000	0	67	1643	1	TOTAL
4-8E-9	1	4.120	0	4.100	0	55	296	1	TOTAL
4-8E-9	1	4.350	0	8.735	0	56	141	96	TOTAL
4-8E-9	1	5.000	0	6.000	0	59	500	2	TOTAL
4-8E-9	1	6.830	0	1.411	1	57	22	5	TOTAL
4-8E-9	1	1.374	1	1.460	1	68	3102	21	TOTAL
4-8E-9	1	1.390	1	1.390	1	51	65	1	TOTAL
4-8E-9	1	1.400	1	1.400	1	52	81	1	TOTAL

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

... 2- 4 ...

C - 1

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
4-BE-9	I	1	1.400+	1	1.400+	52 207	1 TOTAL
4-BE-9	I	1	1.400+	1	1.400+	58 609	1 TOTAL
4-BE-9	I	1	1.410+	1	1.800+	54 107	8 TOTAL
4-BE-9	I	1	1.450+	1	1.450+	70 3300	1 TOTAL
4-BE-9	I	1	1.467+	1	1.467+	61 711	1 TOTAL
4-BE-9	I	1	1.480+	1	1.480+	57 368	1 TOTAL
4-BE-9	I	1	1.750+	1	2.790+	60 673	4 TOTAL
N 4-BE-9	I	1	2.070+	1	4.415+	74 3527	10 TOTAL
4-BE-9	I	1	3.634+	1	5.890+	72 3196	5 TOTAL
4-BE-9	I	1	4.200+	1	4.200+	50 281	1 TOTAL
4-BE-9	I	1	9.000+	1	9.000+	49 286	1 TOTAL
4-BE-9	I	1	9.500+	1	9.500+	50 12	1 TOTAL
4-BE-9	I	1	3.790+	2	1.731+	71 3264	15 TOTAL
4-BE-9	I	1	1.400+	3	1.400+	55 2056	1 TOTAL
4-BE-9	I	1	5.700+	3	5.700+	69 3160	1 TOTAL
4-BE-9	I	1	2.650+	4	2.650+	71 3180	1 TOTAL
4-BE-9	I	1	2.700+	4	2.700+	68 2350	1 TOTAL
N 4-BE-9	I	1	3.400+	4	2.730+	74 3618	7 TOTAL
5-B -NAT	I	1	6.620+	10	2.930+	53 809	60 TOTAL
5-B -NAT	I	1	4.600+	9	1.010+	60 805	10 TOTAL
5-B -NAT	I	1	6.010+	9	8.200+	63 463	50 TOTAL
5-B -NAT	I	1	1.200+	8	2.820+	52 969	31 TOTAL
5-B -NAT	I	1	1.150+	4	3.000+	49 844	2 TOTAL
5-B -NAT	I	1	1.700+	4	1.580+	54 1002	112 TOTAL
5-B -NAT	I	1	2.300+	3	2.300+	50 247	1 TOTAL
5-B -NAT	I	1	1.100+	2	4.970+	66 2012	54 TOTAL
5-B -NAT	I	1	1.770+	1	8.370+	50 63	30 TOTAL
5-B -NAT	I	1	8.700+	1	3.407+	51 72	140 TOTAL
5-B -NAT	I	1	9.501+	1	1.350+	62 690	47 TOTAL
5-B -NAT	I	1	2.266+	0	1.498+	67 750	243 TOTAL
5-B -NAT	I	1	2.820+	0	9.700+	54 504	26 TOTAL
5-B -NAT	I	1	3.240+	0	5.110+	62 642	59 TOTAL
5-B -NAT	I	1	3.250+	0	4.520+	61 755	4 TOTAL
5-B -NAT	I	1	3.310+	0	1.528+	61 682	180 TOTAL
5-B -NAT	I	1	4.350+	0	6.635+	56 141	66 TOTAL
5-B -NAT	I	1	1.450+	1	1.450+	70 3300	1 TOTAL
5-B -NAT	I	1	4.200+	1	4.200+	50 281	1 TOTAL
5-B -10	I	1	4.600+	9	1.010+	60 805	10 TOTAL
5-B -10	I	1	6.010+	9	8.200+	63 463	50 TOTAL
5-B -10	I	1	1.850+	3	4.040+	60 385	84 TOTAL
5-B -10	I	1	5.438+	5	1.304+	58 823	49 TOTAL
5-B -10	I	1	7.491+	5	2.987+	67 1550	2537 TOTAL
5-B -10	I	1	2.800+	3	2.800+	52 252	1 TOTAL
5-B -10	I	1	3.000+	3	8.210+	63 802	41 TOTAL
5-B -10	I	1	2.000+	2	3.390+	51 72	197 TOTAL
5-B -10	I	1	2.000+	1	3.000+	45 257	7 TOTAL
N 5-B -10	I	1	2.032+	0	4.823+	70 3794	7 TOTAL
5-B -10	I	1	2.820+	0	9.700+	54 504	26 TOTAL
5-B -10	I	1	3.240+	0	5.110+	62 642	59 TOTAL
5-B -10	I	1	3.330+	0	1.532+	61 682	138 TOTAL
5-B -10	I	1	4.350+	0	8.640+	56 141	84 TOTAL
N 5-B -10	I	1	9.720+	0	9.720+	70 3938	1 TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2- 5 ***

C = 1

07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

C • 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
5-B	-10	1	1.400*	1	52 81	1	TOTAL
5-B	-10	1	1.410*	1	54 107	8	TOTAL
5-B	-11	1	1.300-2	1	66 2012	52	TOTAL
5-B	-11	1	8.030-2	1	73 3797	436	TOTAL
5-B	-11	1	3.000-1	2.193+	0 70 3133	95	TOTAL
5-B	-11	1	1.130+0	7.345+	0 73 3796	501	TOTAL
5-B	-11	1	2.032+0	4.623+	0 70 3794	7	TOTAL
5-B	-11	1	9.720+0	9.720+	0 70 3938	1	TOTAL
5-B	-11	1	1.400*	1	52 81	1	TOTAL
5-B	-11	1	1.410*	1	54 107	8	TOTAL
5-B	-11	1	5.313-9	1.005-7	64 776	5	TOTAL
5-B	-11	1	8.300-10	1.170-7	71 3756	163	TOTAL
5-B	-11	1	1.290-9	1.200-7	57 433	94	TOTAL
5-B	-11	1	1.850-9	1.850-	61 1716	1	TOTAL
5-B	-11	1	1.850-9	9.600-5	61 1026	163	TOTAL
5-B	-11	1	1.440-6	1.440-6	65 949	2	TOTAL
5-B	-11	1	1.460-6	1.460-6	55 1471	1	TOTAL
5-B	-11	1	4.270-6	5.900-4	52 798	49	TOTAL
5-B	-11	1	1.342-5	1.033-3	64 37	56	TOTAL
5-B	-11	1	7.400-5	2.600-3	56 304	74	TOTAL
5-B	-11	1	1.150-4	1.200-4	54 844	12	TOTAL
5-B	-11	1	5.030-4	6.198-	54 1785	109	TOTAL
5-B	-11	1	1.030-3	5.865-	1 71 3783	683	TOTAL
5-B	-11	1	3.000-2	2.065-	1 71 3783	683	TOTAL
5-B	-11	1	1.080-2	2.065-	1 71 3783	683	TOTAL
5-B	-11	1	2.000-2	2.000-2	50 166	1	TOTAL
5-B	-11	1	2.350-2	2.350-2	75 3897	2	TOTAL
5-B	-11	1	3.500-2	9.500-2	45 175	2	TOTAL
5-B	-11	1	6.000-2	1.200-	56 210	4	TOTAL
5-B	-11	1	1.003-1	6.487-	1 56 1515	547	TOTAL
5-B	-11	1	1.600-1	1.170+	0 73 3945	21	TOTAL
5-B	-11	1	1.811-	2.945+	1 72 3458	3701	TOTAL
5-B	-11	1	1.850-1	6.950-	1 61 732	103	TOTAL
5-B	-11	1	2.200-1	4.050+	0 50 311	12	TOTAL
5-B	-11	1	4.330-1	2.370+	0 73 3505	18	TOTAL
5-B	-11	1	4.938-	1.503+	1 70 3051	3369	TOTAL
5-B	-11	1	5.000-1	1.101+	1 71 3341	942	TOTAL
5-B	-11	1	5.044-	1.253+	0 60 665	660	TOTAL
5-B	-11	1	5.400-1	4.840+	0 50 64	72	TOTAL
5-B	-11	1	6.400-1	1.002+	0 63 455	75	TOTAL
5-B	-11	1	6.468-	1.555+	0 70 3153	456	TOTAL
5-B	-11	1	7.480-1	3.194+	1 70 2517	4300	TOTAL
5-B	-11	1	8.591-	4.998+	1 66 1654	931	TOTAL
5-B	-11	1	9.000-1	2.999+	1 70 3157	1800	TOTAL
5-B	-11	1	9.000-1	9.000-	1 41 170	1	TOTAL
5-B	-11	1	1.000-0	4.830+	0 74 4009	55	TOTAL
5-B	-11	1	1.250+0	3.350+	0 51 72	122	TOTAL
5-B	-11	1	1.315+0	1.315+	0 54 112	1	TOTAL
5-B	-11	1	1.500+0	2.000+	0 45 174	12	TOTAL
5-B	-11	1	1.700+0	1.430+	1 74 4014	12	TOTAL

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C • 1

07/04/75

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
6-C	-NAT	1	2.041+ 0	2.118+ 0	58 322	23	TOTAL
6-C	-NAT	1	2.210+ 0	2.770+ 0	53 94	14	TOTAL
6-C	-NAT	1	2.250+ 0	2.800+ 0	57 817	14	TOTAL
6-C	-NAT	1	2.260+ 0	1.482+ 1	67 750	244	TOTAL
6-C	-NAT	1	2.606+ 0	2.850+ 0	85 1562	9	TOTAL
6-C	-NAT	1	2.625+ 0	2.907+ 0	58 384	40	TOTAL
6-C	-NAT	1	2.920+ 0	1.356+ 1	54 504	38	TOTAL
6-C	-NAT	1	3.290+ 0	1.591+ 1	61 682	217	TOTAL
6-C	-NAT	1	3.370+ 0	5.070+ 0	60 643	83	TOTAL
6-C	-NAT	1	3.615+ 0	7.300+ 0	52 785	126	TOTAL
6-C	-NAT	1	3.780+ 0	8.090+ 0	57 153	41	TOTAL
6-C	-NAT	1	3.910+ 0	4.845+ 0	53 87	39	TOTAL
6-C	-NAT	1	4.000+ 0	4.000+ 0	67 1643	1	TOTAL
6-C	-NAT	1	4.040+ 0	5.590+ 0	71 3214	3	TOTAL
6-C	-NAT	1	4.100+ 0	4.100+ 0	55 296	1	TOTAL
6-C	-NAT	1	4.380+ 0	8.595+ 0	56 141	96	TOTAL
6-C	-NAT	1	7.040+ 0	1.434+ 1	62 787	85	TOTAL
6-C	-NAT	1	8.770+ 0	1.437+ 1	57 22	6	TOTAL
6-C	-NAT	1	1.253+ 1	1.700+ 1	63 378	27	TOTAL
6-C	-NAT	1	1.314+ 1	1.560+ 1	58 324	6	TOTAL
6-C	-NAT	1	1.317+ 1	1.735+ 1	63 781	25	TOTAL
6-C	-NAT	1	1.373+ 1	1.460+ 1	72 3102	21	TOTAL
6-C	-NAT	1	1.377+ 1	1.476+ 1	58 349	19	TOTAL
6-C	-NAT	1	1.390+ 1	1.390+ 1	51 65	1	TOTAL
6-C	-NAT	1	1.400+ 1	1.400+ 1	52 81	1	TOTAL
6-C	-NAT	1	1.400+ 1	1.400+ 1	52 207	1	TOTAL
6-C	-NAT	1	1.408+ 1	1.408+ 1	51 206	1	TOTAL
6-C	-NAT	1	1.410+ 1	1.410+ 1	52 78	1	TOTAL
6-C	-NAT	1	1.410+ 1	1.800+ 1	54 107	8	TOTAL
6-C	-NAT	1	1.450+ 1	1.450+ 1	70 3300	1	TOTAL
6-C	-NAT	1	1.467+ 1	1.467+ 1	61 711	1	TOTAL
6-C	-NAT	1	1.468+ 1	1.468+ 1	66 1653	1	TOTAL
6-C	-NAT	1	1.468+ 1	1.468+ 1	68 1941	1	TOTAL
6-C	-NAT	1	1.480+ 1	1.480+ 1	57 368	1	TOTAL
6-C	-NAT	1	1.580+ 1	1.175+ 2	61 789	60	TOTAL
6-C	-NAT	1	1.670+ 1	2.039+ 1	69 3708	44	TOTAL
6-C	-NAT	1	1.720+ 1	2.007+ 1	53 274	3	TOTAL
6-C	-NAT	1	1.750+ 1	2.097+ 1	65 950	25	TOTAL
6-C	-NAT	1	1.780+ 1	2.910+ 1	60 673	5	TOTAL
6-C	-NAT	1	1.958+ 1	3.046+ 1	65 927	5	TOTAL
6-C	-NAT	1	2.100+ 1	4.415+ 1	74 3527	17	TOTAL
6-C	-NAT	1	2.463+ 1	5.890+ 1	72 3196	8	TOTAL
6-C	-NAT	1	2.540+ 1	2.540+ 1	45 307	1	TOTAL
6-C	-NAT	1	3.700+ 1	1.530+ 2	53 355	11	TOTAL
6-C	-NAT	1	3.910+ 1	1.940+ 2	53 310	27	TOTAL
6-C	-NAT	1	4.200+ 1	4.200+ 1	50 281	1	TOTAL
6-C	-NAT	1	4.750+ 1	8.800+ 1	54 343	2	TOTAL
6-C	-NAT	1	6.100+ 1	1.068+ 2	55 282	12	TOTAL
6-C	-NAT	1	6.150+ 1	1.079+ 2	54 39	12	TOTAL
6-C	-NAT	1	8.820+ 1	1.509+ 2	66 1056	7	TOTAL
6-C	-NAT	1	9.000+ 1	9.000+ 1	49 286	1	TOTAL
6-C	-NAT	1	9.500+ 1	9.500+ 1	50 12	1	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 1

07/04/76

ECS/L-1500 REACTION INDEX (REACTION NO. ORDERED)

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

6-C -NAT	1	3.750*	2	1.731*	3	71 3264	15	TOTAL
6-C -NAT	1	1.400*	3	1.400*	3	55 2056	1	TOTAL
6-C -NAT	1	3.800*	3	3.800*	3	70 3195	1	TOTAL
6-C -NAT	1	5.000*	3	5.000*	3	61 1566	1	TOTAL
6-C -NAT	1	5.700*	3	5.700*	3	69 3160	1	TOTAL
6-C -NAT	1	8.300*	3	8.300*	3	82 1657	1	TOTAL
6-C -NAT	1	1.200*	4	2.650*	4	71 3180	4	TOTAL
6-C -NAT	1	2.700*	4	2.700*	4	68 2350	1	TOTAL
6-C -NAT	1	3.400*	4	2.730*	5	74 3618	7	TOTAL
6-C -13	1	1.120*	4	2.280*	1	61 678	210	TOTAL
CBH6	1	1.800-10	3.600-	8	61 780	8	TOTAL	
7-N -NAT	1	7.079-9	2.113-	5	72 3874	140	TOTAL	
7-N -NAT	1	3.900-7	1.800-	1	49 53	25	TOTAL	
7-N -NAT	1	5.000-3	1.400-	1	59 855	39	TOTAL	
7-N -NAT	1	5.000-3	4.800-	1	61 2585	89	TOTAL	
7-N -NAT	1	9.400-2	8.490-	1	62 720	751	TOTAL	
7-N -NAT	1	1.500-1	1.458-	0	51 2865	112	TOTAL	
7-N -NAT	1	1.580-1	1.788-	0	52 75	213	TOTAL	
7-N -NAT	1	5.077-1	8.974-	0	69 2511	689	TOTAL	
7-N -NAT	1	1.533-0	3.973-	0	52 264	115	TOTAL	
7-N -NAT	1	1.910-0	3.810-	0	53 29	91	TOTAL	
7-N -NAT	1	2.863-0	1.500*	1	57 750	61	TOTAL	
7-N -NAT	1	2.700-0	1.320*	1	54 504	241	TOTAL	
7-N -NAT	1	4.375-0	8.585*	0	56 141	93	TOTAL	
7-N -NAT	1	4.990-0	1.160*	1	61 546	6	TOTAL	
7-N -NAT	1	1.410-1	1.410*	1	52 78	1	TOTAL	
7-N -NAT	1	1.410-1	1.412*	1	52 81	1	TOTAL	
7-N -NAT	1	1.412-1	1.470*	1	71 3815	1	TOTAL	
7-N -NAT	1	1.70-1	2.970*	1	71 3850	1	TOTAL	
7-N -NAT	1	1.720-1	5.890*	1	60 673	5	TOTAL	
7-N -NAT	1	3.530-1	4.890*	1	52 3185	5	TOTAL	
7-N -NAT	1	4.750-1	6.200*	1	50 501	3	TOTAL	
7-N -NAT	1	8.820-1	1.509*	2	66 1561	7	TOTAL	
7-N -NAT	1	9.000-1	9.000*	1	49 2066	1	TOTAL	
7-N -15	1	4.500-1	2.241*	0	64 445	109	TOTAL	
7-N -15	1	8.955-1	3.198*	1	70 3398	2572	TOTAL	
7-N -15	1	1.505-0	3.460*	0	62 248	54	TOTAL	
7-N -15	1	2.800-0	3.610*	0	59 621	28	TOTAL	
7-N -15	1	2.800-0	3.620*	0	56 33	25	TOTAL	
NE GAS	1	3.100-9	5.500-	6	49 53	38	TOTAL	
8-O -NAT	1	8.100-10	3.240-	9	55 2057	12	TOTAL	
8-O -NAT	1	2.700-6	5.200-	5	48 2035	11	TOTAL	
8-O -NAT	1	1.500-5	1.310-	1	49 53	15	TOTAL	
8-O -NAT	1	1.150-4	3.000-	4	49 844	2	TOTAL	
8-O -NAT	1	2.000-2	2.350-	1	49 49	13	TOTAL	
8-O -NAT	1	2.350-2	2.350-	2	75 3897	1	TOTAL	
8-O -NAT	1	1.874-1	4.86*	1	72 3458	3688	TOTAL	
8-O -NAT	1	2.140-1	6.840-	1	45 123	34	TOTAL	
8-O -NAT	1	2.600-1	3.800*	0	50 311	13	TOTAL	
8-O -NAT	1	3.500-1	6.000*	0	46 176	15	TOTAL	

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

... 2- B ...

07/04/76

EC5IL-7600 REACTION INDEX (REACTION NO. ORDERED)

C 4 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	11-NA-23	1	1.468	1	68 1941	1	TOTAL
	11-NA-23	1	1.476	1	65 3097	1	TOTAL
	11-NA-23	1	1.620	1	58 975	1	TOTAL
	11-NA-23	1	2.840	1	61 233	1	TOTAL
	11-NA-23	1	4.200	1	50 281	1	TOTAL
N	12-MG-NAT	1	2.350	8	65.500-9	48 173	1 TOTAL
	12-MG-NAT	1	1.440	6	65 949	1	TOTAL
	12-MG-NAT	1	4.000	6	4.988-1	74 3591	388 TOTAL
	12-MG-NAT	1	3.700	3	9.500-3	56 243	19 TOTAL
	12-MG-NAT	1	3.850	3	2.080-2	56 824	21 TOTAL
N	12-MG-NAT	1	1.100	2	3.700-1	59 534	64 TOTAL
	12-MG-NAT	1	1.300	1	6.410-1	69 914	420 TOTAL
	12-MG-NAT	1	3.700	1	7.900-1	51 89	43 TOTAL
	12-MG-NAT	1	4.040	1	1.342-0	58 451	939 TOTAL
	12-MG-NAT	1	5.083	1	1.496-0	65 2197	527 TOTAL
N	12-MG-NAT	1	5.350	1	1.865-0	50 64	57 TOTAL
	12-MG-NAT	1	6.000	1	3.150-0	66 4017	11 TOTAL
	12-MG-NAT	1	1.995	0	1.005-1	67 1508	347 TOTAL
	12-MG-NAT	1	2.000	0	5.000-0	62 691	3 TOTAL
	12-MG-NAT	1	2.060	0	3.140-0	60 613	18 TOTAL
N	12-MG-NAT	1	2.170	0	2.830-0	58 1703	5 TOTAL
	12-MG-NAT	1	2.250	0	2.750-0	57 817	14 TOTAL
	12-MG-NAT	1	2.296	0	1.498-1	67 750	246 TOTAL
	12-MG-NAT	1	2.780	0	5.210-0	63 419	92 TOTAL
	12-MG-NAT	1	2.780	0	1.325-1	54 504	30 TOTAL
N	12-MG-NAT	1	4.000	0	8.050-0	58 400	38 TOTAL
	12-MG-NAT	1	4.500	0	1.420-1	67 1747	531 TOTAL
	12-MG-NAT	1	5.200	0	6.200-0	68 3288	28 TOTAL
	12-MG-NAT	1	7.170	0	1.407-1	57 22	5 TOTAL
	12-MG-NAT	1	1.230	1	1.460-1	66 1702	24 TOTAL
N	12-MG-NAT	1	1.377	1	1.476-1	58 349	19 TOTAL
	12-MG-NAT	1	1.400	1	1.400-1	52 81	1 TOTAL
	12-MG-NAT	1	1.400	1	1.400-1	52 207	1 TOTAL
	12-MG-NAT	1	1.410	1	1.800-1	54 107	3 TOTAL
	12-MG-NAT	1	1.450	1	1.450-1	70 3300	1 TOTAL
N	12-MG-NAT	1	1.480	1	1.480-1	57 368	1 TOTAL
	12-MG-NAT	1	1.750	1	2.760-1	60 573	4 TOTAL
	12-MG-NAT	1	2.840	1	2.840-1	61 233	1 TOTAL
	12-MG-NAT	1	3.634	1	5.890-1	72 3196	5 TOTAL
	12-MG-NAT	1	4.200	1	4.200-1	50 281	1 TOTAL
N	12-MG-NAT	1	9.000	1	9.000-1	49 286	1 TOTAL
	12-MG-25	1	1.400	2	3.690-1	59 534	80 TOTAL
	12-MG-26	1	1.500	2	3.690-1	59 534	36 TOTAL
	MG0	1	1.440	6	1.440-6	65 949	1 TOTAL
	13-AL-27	1	2.770	9	4.740-8	58 858	117 TOTAL
N	13-AL-27	1	2.958	9	5.519-9	62 2429	34 TOTAL
	13-AL-27	1	7.000	8	8.350-7	70 3627	4 TOTAL
	13-AL-27	1	1.130	6	6.600-3	52 216	89 TOTAL
	13-AL-27	1	1.440	6	1.440-6	65 949	1 TOTAL
	13-AL-27	1	1.150	4	3.000-4	49 844	2 TOTAL
C	13-AL-27	1	1.500	3	4.480-1	55 507	518 TOTAL
	13-AL-27	1	3.985	3	2.179-1	65 814	1991 TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07-04-76

EVSII-1500 REACTION INDEX REACTION NO. OPERATED

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

N	13-AL-27	1	4.058	3	4.191	1	75	3600	432	TOTAL
	13-AL-27	1	4.889	3	6.350	3	58	15	18	TOTAL
	13-AL-27	1	2.750	2	1.710	1	64	813	111	TOTAL
N	13-AL-27	1	2.750	2	6.263	0	93	914	919	TOTAL
N	13-AL-27	1	3.000	2	1.193	0	63	319	511	TOTAL
N	13-AL-27	1	3.600	2	2.360	0	75	1017	26	TOTAL
N	13-AL-27	1	3.194	1	4.598	0	65	665	3701	TOTAL
	13-AL-27	1	3.194	1	4.598	0	65	665	873	TOTAL
	13-AL-27	1	4.000	1	2.260	0	61	1805	73	TOTAL
C	13-AL-27	1	5.000	1	1.506	1	69	2820	3384	TOTAL
	13-AL-27	1	4.000	1	3.197	1	70	2317	5101	TOTAL
	13-AL-27	1	5.556	1	6.033	1	57	815	185	TOTAL
	13-AL-27	1	5.810	1	3.800	0	47	47	73	TOTAL
	13-AL-27	1	7.564	1	1.207	0	65	1683	173	TOTAL
	13-AL-27	1	8.000	1	7.760	0	53	429	1	TOTAL
	13-AL-27	1	9.000	1	9.000	0	41	170	198	TOTAL
	13-AL-27	1	9.800	1	3.990	0	62	1012	4	TOTAL
N	13-AL-27	1	1.700	0	1.430	1	74	4014	12	TOTAL
	13-AL-27	1	1.915	0	1.299	1	67	1747	442	TOTAL
	13-AL-27	1	1.850	0	6.880	0	62	826	5	TOTAL
	13-AL-27	1	1.880	0	3.780	0	53	29	96	TOTAL
	13-AL-27	1	1.995	0	1.005	1	67	1508	341	TOTAL
	13-AL-27	1	2.000	0	5.941	0	51	335	28	TOTAL
	13-AL-27	1	2.270	0	1.476	1	67	750	245	TOTAL
	13-AL-27	1	2.420	0	2.580	0	54	111	9	TOTAL
	13-AL-27	1	2.400	0	5.210	0	62	478	100	TOTAL
	13-AL-27	1	2.700	0	2.700	0	67	1527	1	TOTAL
	13-AL-27	1	2.770	0	2.770	0	62	341	1	TOTAL
	13-AL-27	1	2.920	0	1.308	1	65	1562	1	TOTAL
	13-AL-27	1	3.710	0	5.240	0	54	504	35	TOTAL
	13-AL-27	1	4.050	0	8.100	0	65	1737	28	TOTAL
	13-AL-27	1	4.100	0	4.100	0	35	400	37	TOTAL
	13-AL-27	1	7.462	0	7.393	0	55	1003	71	TOTAL
	13-AL-27	1	8.010	0	4.439	0	60	52	6	TOTAL
	13-AL-27	1	8.270	0	8.340	0	66	2025	39	TOTAL
	13-AL-27	1	1.253	1	1.700	1	63	176	20	TOTAL
	13-AL-27	1	1.253	1	1.700	1	63	176	50	TOTAL
	13-AL-27	1	1.275	1	2.080	1	60	622	7	TOTAL
	13-AL-27	1	1.304	1	620	1	55	133	7	TOTAL
	13-AL-27	1	1.370	1	1.476	1	58	349	20	TOTAL
	13-AL-27	1	1.400	1	1.400	1	52	81	1	TOTAL
	13-AL-27	1	1.400	1	1.400	1	52	207	1	TOTAL
	13-AL-27	1	1.400	1	1.400	1	59	567	1	TOTAL
	13-AL-27	1	1.400	1	1.400	1	62	1740	1	TOTAL
	13-AL-27	1	1.410	1	1.800	1	54	107	3	TOTAL
	13-AL-27	1	1.450	1	1.450	1	70	3300	1	TOTAL
	13-AL-27	1	1.467	1	1.467	1	61	711	1	TOTAL
	13-AL-27	1	1.480	1	1.480	1	57	368	1	TOTAL
	13-AL-27	1	1.480	1	1.480	1	69	2988	1	TOTAL
	13-AL-27	1	1.580	1	1.175	2	61	789	60	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
13-AL-27	I	1	1.800+	1	60 673	5	TOTAL	
13-AL-27	I	1	1.900+	1	53 274	1	TOTAL	
N 13-AL-27	I	1	2.140+	1	74 3527	9	TOTAL	
13-AL-27	I	1	2.540+	1	45 307	1	TOTAL	
13-AL-27	I	1	2.840+	1	61 233	1	TOTAL	
13-AL-27	I	1	2.925+	1	5.890+	72 3196	7	TOTAL
13-AL-27	I	1	3.000+	1	1.530+	53 355	9	TOTAL
13-AL-27	I	1	4.200+	1	4.200+	50 281	1	TOTAL
13-AL-27	I	1	4.750+	1	8.800+	54 343	2	TOTAL
13-AL-27	I	1	8.820+	1	1.509+	66 1056	7	TOTAL
13-AL-27	I	1	9.000+	1	9.000+	49 286	1	TOTAL
13-AL-27	I	1	9.340+	1	1.068+	55 282	4	TOTAL
13-AL-27	I	1	9.480+	1	1.079+	54 39	4	TOTAL
13-AL-27	I	1	9.500+	1	9.500+	50 12	1	TOTAL
13-AL-27	I	1	9.940+	1	1.519+	68 2189	1	TOTAL
13-AL-27	I	1	3.790+	2	1.731+	71 3264	15	TOTAL
13-AL-27	I	1	1.400+	3	1.400+	55 2056	1	TOTAL
13-AL-27	I	1	2.800+	3	3.800+	70 3195	1	TOTAL
13-AL-27	I	1	5.000+	3	5.000+	61 1566	1	TOTAL
13-AL-27	I	1	5.700+	3	5.700+	69 3160	1	TOTAL
13-AL-27	I	1	8.300+	3	8.300+	62 1657	1	TOTAL
13-AL-27	I	1	2.650+	4	2.700+	71 3180	1	TOTAL
N 13-AL-27	I	1	2.700+	4	2.700+	68 2350	1	TOTAL
13-AL-27	I	1	3.400+	4	2.730+	74 3618	7	TOTAL
N AL203	I	1	1.440+	6	1.440+	65 949	1	TOTAL
14-SI-NAT	I	1	1.350+	8	2.200+	46 173	58	TOTAL
14-SI-NAT	I	1	1.440+	6	1.440+	65 949	1	TOTAL
14-SI-NAT	I	1	1.200+	3	1.200+	56 243	14	TOTAL
14-SI-NAT	I	1	1.200+	2	7.950+	51 63	73	TOTAL
N 14-SI-NAT	I	1	1.873+	1	4.849+	72 3458	3683	TOTAL
14-SI-NAT	I	1	4.959+	1	2.005+	71 3162	3454	TOTAL
14-SI-NAT	I	1	5.001+	1	3.194+	68 2517	5115	TOTAL
14-SI-NAT	I	1	5.083+	1	1.256+	65 1755	438	TOTAL
14-SI-NAT	I	1	5.440+	1	1.210+	63 455	161	TOTAL
14-SI-NAT	I	1	5.800+	1	4.810+	50 64	107	TOTAL
N 14-SI-NAT	I	1	6.000+	1	1.700+	66 4017	5	TOTAL
N 14-SI-NAT	I	1	1.208+	0	4.952+	73 3945	789	TOTAL
14-SI-NAT	I	1	1.850+	0	3.780+	53 29	98	TOTAL
14-SI-NAT	I	1	2.360+	0	1.489+	67 750	243	TOTAL
14-SI-NAT	I	1	2.760+	0	5.210+	63 419	84	TOTAL
14-SI-NAT	I	1	2.940+	0	1.320+	54 504	41	TOTAL
C 14-SI-NAT	I	1	3.051+	0	5.048+	63 642	59	TOTAL
N 14-SI-NAT	I	1	3.100+	0	3.100+	72 3973	1	TOTAL
N 14-SI-NAT	I	1	3.340+	0	5.105+	65 3667	63	TOTAL
14-SI-NAT	I	1	4.500+	0	1.431+	67 1747	506	TOTAL
N 14-SI-NAT	I	1	4.750+	0	1.402+	69 2370	311	TOTAL
14-SI-NAT	I	1	5.429+	0	8.530+	66 1003	53	TOTAL
14-SI-NAT	I	1	1.253+	1	1.700+	63 378	27	TOTAL
14-SI-NAT	I	1	1.400+	1	1.400+	52 81	1	TOTAL
14-SI-NAT	I	1	1.450+	1	1.450+	70 3300	1	TOTAL
14-SI-NAT	I	1	1.800+	1	2.760+	60 673	4	TOTAL
14-SI-NAT	I	1	1.900+	1	1.900+	53 274	1	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 1

07/04/76

1051-1000 REACTION INDEX REACTION NO ORDERED

TARGET	CODE	S	E-MIN-KEV	E-MAX-KEV	REFERENCE	POINTS	REACTION DESCRIPTION
14-S	-NAT	1	2.925	1	5.890	7	TOTAL
14-S	-NAT	1	9.340	1	1.068	2	55 282
14-S	-NAT	1	9.480	1	1.073	2	54 39
5102		1	8.000-10	1	3.000	65	1773
5102		1	1.440-6	1	1.440	65	949
5102		1	1.874	1	4.867	1	TOTAL
15-P	-31	1	1.150	4	3.000	4	844
15-P	-31	1	6.250	3	1.950	2	58 15
15-P	-31	1	2.400	2	2.400	2	37 46
15-P	-31	1	4.050	2	1.780	1	58 819
15-P	-31	1	1.250	1	0.310	1	53 99
15-P	-31	1	1.330	1	5.440	1	53 93
15-P	-31	1	7.000	1	9.010	0	73 3936
15-P	-31	1	8.300	1	1.199	0	63 455
15-P	-31	1	2.267	0	1.492	1	67 750
15-P	-31	1	2.220	0	5.170	0	60 638
15-P	-31	1	2.510	0	3.670	0	51 38
15-P	-31	1	2.800	0	1.310	1	54 504
15-P	-31	1	3.050	0	5.050	0	62 642
15-P	-31	1	3.239	0	4.447	0	63 642
15-P	-31	1	5.373	0	8.545	0	56 1203
15-P	-31	1	1.400	1	1.400	1	52 81
15-P	-31	1	1.450	1	1.450	1	70 3300
15-P	-31	1	2.840	1	2.040	1	61 233
15-P	-NAT	1	2.400	4	3.000	4	48 173
15-S	-NAT	1	1.150	4	3.000	4	49 844
15-S	-NAT	1	1.100	3	1.300	2	56 243
15-S	-NAT	1	2.000	2	4.000	2	64 335
15-S	-NAT	1	2.500	2	1.400	1	49 51
15-S	-NAT	1	3.000	2	1.195	0	73 3797
15-S	-NAT	1	3.300	2	1.530	1	70 3962
15-S	-NAT	1	1.215	1	2.490	1	66 1062
15-S	-NAT	1	1.420	1	1.415	0	51 58
15-S	-NAT	1	4.150	1	1.180	0	58 450
15-S	-NAT	1	5.001	1	3.134	1	70 2517
15-S	-NAT	1	5.570	1	6.020	1	56 273
15-S	-NAT	1	8.200	1	3.550	0	66 4017
15-S	-NAT	1	1.050	0	2.250	0	61 1000
15-S	-NAT	1	1.033	0	4.952	0	73 3945
15-S	-NAT	1	1.410	0	1.920	0	50 64
15-S	-NAT	1	1.792	0	2.607	0	69 2014
15-S	-NAT	1	1.900	0	3.670	0	51 38
15-S	-NAT	1	2.000	0	5.800	0	51 336
15-S	-NAT	1	2.259	0	1.489	1	67 750
15-S	-NAT	1	2.880	0	2.880	0	39 42
15-S	-NAT	1	2.920	0	5.170	0	60 618
15-S	-NAT	1	2.920	0	1.320	0	54 504
15-S	-NAT	1	3.051	0	4.030	0	62 542
15-S	-NAT	1	3.660	0	3.660	0	55 559
15-S	-NAT	1	3.660	0	4.028	0	63 455
15-S	-NAT	1	4.500	0	1.334	1	67 174
15-S	-NAT	1	4.932	0	6.644	0	56 003

... IN ...

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
16-S	-NAT	1	5.360	0	6.280	0	69 3289
16-S	-NAT	1	1.400	1	1.400	1	52 81
16-S	-NAT	1	1.410	1	1.800	1	54 107
16-S	-NAT	1	2.840	1	2.840	1	61 233
16-S	-NAT	1	4.200	1	4.200	1	50 281
16-S	-32	1	5.800	1	5.920	1	58 322
17-CL	-NAT	1	3.068	8	1.500	2	56 304
N 17-CL	-NAT	1	3.026	5	3.991	1	74 3634
17-CL	-NAT	1	3.000	4	3.000	4	49 844
17-CL	-NAT	1	7.000	3	1.930	1	57 154
17-CL	-NAT	1	6.000	2	6.920	1	53 93
17-CL	-NAT	1	1.339	1	1.084	0	53 95
17-CL	-NAT	1	5.000	1	3.194	1	70 2517
17-CL	-NAT	1	2.210	0	2.765	0	53 94
17-CL	-NAT	1	2.259	0	1.498	1	67 750
17-CL	-NAT	1	2.800	0	1.315	1	54 504
N 17-CL	-NAT	1	3.239	0	5.110	0	63 642
17-CL	-NAT	1	1.412	1	1.412	1	52 81
17-CL	-NAT	1	1.450	1	1.450	1	70 3300
17-CL	-NAT	1	2.540	1	2.540	1	45 307
17-CL	-NAT	1	2.840	1	2.840	1	61 233
17-CL	-NAT	1	4.200	1	4.200	1	50 281
17-CL	-NAT	1	7.670	1	1.068	2	55 282
17-CL	-NAT	1	9.000	1	9.000	1	49 286
18-AR	-NAT	1	2.000	9	2.500	8	63 777
18-AR	-NAT	1	7.470	8	6.195	6	69 2998
18-AR	-NAT	1	1.500	5	1.000	1	49 53
18-AR	-NAT	1	1.220	1	1.977	1	60 570
18-AR	-NAT	1	4.430	1	1.101	0	53 98
18-AR	-NAT	1	2.220	0	2.340	0	61 753
N 18-AR	-NAT	1	1.470	1	1.470	1	71 3815
18-AR	-NAT	1	4.750	1	8.800	1	54 343
18-AR	-36	1	7.560	8	7.560	8	57 2029
N 19-K	-NAT	1	1.995	8	1.055	5	55 228
19-K	-NAT	1	1.005	3	3.991	1	73 3632
19-K	-NAT	1	2.000	3	3.160	1	59 508
19-K	-NAT	1	8.000	3	5.970	1	50 55
19-K	-NAT	1	1.320	1	3.150	1	54 509
19-K	-NAT	1	3.600	1	3.198	1	70 2517
19-K	-NAT	1	6.200	1	8.300	1	47 46
19-K	-NAT	1	9.000	1	1.700	0	61 407
19-K	-NAT	1	1.300	0	2.100	0	61 380
19-K	-NAT	1	2.004	0	3.772	0	65 1785
19-K	-NAT	1	2.250	0	2.750	0	57 817
19-K	-NAT	1	2.270	0	1.493	1	67 750
19-K	-NAT	1	2.370	0	1.550	1	67 1786
19-K	-NAT	1	2.880	0	2.880	0	39 42
19-K	-NAT	1	3.660	0	3.660	0	61 637
19-K	-NAT	1	4.130	0	6.310	0	64 440
19-K	-NAT	1	6.580	0	1.159	1	62 452
19-K	-NAT	1	1.400	1	1.400	1	52 81
19-K	-NAT	1	1.450	1	1.450	1	70 3300

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 1

07/04/76

ECSIL-600 REACTION INDEX REACTION NO. ORDERED

TARGET CODE S E-MIN-ME/ E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

19-K -NAT	1	1-468	1	68 1941	1	TOTAL
19-K -NAT	1	2-840	1	51 233	1	TOTAL
19-K -39	1	8-250	3	9 900-3	57 272	16 TOTAL
19-K -41	1	1-800	3	58 15	33	33 TOTAL
20-CA-NAT	1	1-150	4	3 000-4	49 844	2 TOTAL
20-CA-NAT	1	1-616	3	5 485-1	74 3579	702 TOTAL
20-CA-NAT	1	1-100	2	1 050-1	51 736	102 TOTAL
20-CA-NAT	1	1-300	2	1 000-1	61 728	29 TOTAL
20-CA-NAT	1	2-500	2	5 280-1	49 49	69 TOTAL
20-CA-NAT	1	1-300	1	6 840-1	62 747	925 TOTAL
20-CA-NAT	1	2-000	1	2 944-1	72 3458	3493 TOTAL
20-CA-NAT	1	2-200	1	1 000-0	60 732	154 TOTAL
20-CA-NAT	1	4-050	1	1 342-0	59 451	938 TOTAL
20-CA-NAT	1	4-767	1	6 160-0	71 3184	3021 TOTAL
20-CA-NAT	1	5-002	1	3 194-1	70 2517	5113 TOTAL
20-CA-NAT	1	8-650	1	8 650-1	61 632	1 TOTAL
20-CA-NAT	1	1-000	0	6 000-0	58 418	10 TOTAL
20-CA-NAT	1	1-250	0	2 100-0	61 380	18 TOTAL
20-CA-NAT	1	2-110	0	3 100-0	60 613	347 TOTAL
20-CA-NAT	1	2-251	0	1 487-1	67 1508	17 TOTAL
20-CA-NAT	1	2-370	0	1 388-1	67 750	244 TOTAL
20-CA-NAT	1	3-650	0	1 560-0	61 637	7 TOTAL
20-CA-NAT	1	4-100	0	4 100-0	60 576	1 TOTAL
20-CA-NAT	1	4-500	0	6 310-0	64 440	1 TOTAL
20-CA-NAT	1	5-600	0	1 428-1	62 787	61 TOTAL
20-CA-NAT	1	6-500	0	1 550-1	62 432	4 TOTAL
20-CA-NAT	1	7-100	1	1 550-1	58 324	6 TOTAL
20-CA-NAT	1	1-400	1	1 450-1	72 331	1 TOTAL
20-CA-NAT	1	1-450	1	1 450-1	68 341	1 TOTAL
20-CA-NAT	1	1-470	1	1 444-1	71 675	1 TOTAL
20-CA-NAT	1	1-810	1	2 770-1	60 673	4 TOTAL
20-CA-NAT	1	4-200	1	4 200-1	50 280	1 TOTAL
20-CA-40	1	1-797	0	2 176-0	67 280	1393 TOTAL
20-CA-40	1	2-251	0	1 487-1	67 3167	183 TOTAL
20-CA-40	1	2-760	0	2 760-0	67 750	241 TOTAL
20-CA-42	1	6-000	2	6 505-1	63 751	1137 TOTAL
20-CA-42	1	2-402	1	1 488-1	67 750	225 TOTAL
20-CA-44	1	9-000	2	6 505-1	63 751	1140 TOTAL
20-CA-44	1	2-267	0	1 486-1	67 750	252 TOTAL
21-SC-45	1	1-450	0	5 370-3	55 1753	190 TOTAL
21-SC-45	1	2-030	0	5 947-3	63 3845	120 TOTAL
21-SC-45	1	2-914	3	1 344-2	58 548	29 TOTAL
21-SC-45	1	3-000	3	1 050-1	57 157	56 TOTAL
21-SC-45	1	3-060	3	9 800-3	59 855	126 TOTAL
21-SC-45	1	5-500	3	1 400-2	57 154	11 TOTAL
21-SC-45	1	2-000	0	1 429-0	70 3395	524 TOTAL
21-SC-45	1	2-308	0	1 482-1	67 750	216 TOTAL
22-TI-NAT	1	2-220	9	2 878-1	60 1798	93 TOTAL
22-TI-NAT	1	2-500	9	4 415-5	61 887	145 TOTAL

TARGET CODE S E-MIN-ME/ E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

EC51L-1600 REACTION INDEX (REACTION NO. ORDERED)

C * 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
22-TI-NAT	I	1	1.190-	7 7.790-	2 53 1796	102	TOTAL
22-TI-NAT	I	1	1.150-	4 3.000-	4 49 844	2	TOTAL
22-TI-NAT	I	1	5.844-	4 2.165-	1 65 814	3995	TOTAL
22-TI-NAT	I	1	2.800-	3 1.970-	2 59 15	76	TOTAL
22-TI-NAT	I	1	3.000-	3 3.900-	2 54 75	18	TOTAL
22-TI-NAT	I	1	5.000-	3 2.950-	1 61 728	121	TOTAL
22-TI-NAT	I	1	8.300-	2 1.409-	0 50 185	17	TOTAL
N 22-TI-NAT	I	1	9.000-	2 3.280-	0 66 4017	27	TOTAL
22-TI-NAT	I	1	1.071-	1 1.494-	0 70 3128	1014	TOTAL
22-TI-NAT	I	1	1.005-	1 6.489-	1 66 1062	271	TOTAL
N 22-TI-NAT	I	1	1.491-	1 4.035-	0 73 3945	1008	TOTAL
22-TI-NAT	I	1	4.985-	1 4.001-	0 68 2425	2649	TOTAL
22-TI-NAT	I	1	2.210+	0 2.740-	0 53 94	13	TOTAL
22-TI-NAT	I	1	2.253+	0 1.486-	1 67 750	250	TOTAL
22-TI-NAT	I	1	2.700+	0 1.230+	1 54 504	28	TOTAL
22-TI-NAT	I	1	3.660+	0 3.660+	0 61 637	1	TOTAL
22-TI-NAT	I	1	4.100+	0 4.100+	0 55 296	1	TOTAL
22-TI-NAT	I	1	4.500+	0 7.889+	0 67 1747	167	TOTAL
22-TI-NAT	I	1	7.010+	0 1.397+	1 57 32	6	TOTAL
22-TI-NAT	I	1	1.314+	1 1.560+	1 58 324	6	TOTAL
22-TI-NAT	I	1	1.393+	1 1.390+	1 51 65	1	TOTAL
22-TI-NAT	I	1	1.400+	1 1.400+	1 52 81	1	TOTAL
22-TI-NAT	I	1	1.400+	1 1.400+	1 52 207	1	TOTAL
22-TI-NAT	I	1	1.400+	1 1.400+	1 59 567	1	TOTAL
22-TI-NAT	I	1	1.750+	1 2.860+	1 60 673	4	TOTAL
22-TI-NAT	I	1	6.100+	1 1.068+	2 55 282	12	TOTAL
C 22-TI-46	I	1	3.550-	2 3.300-	1 62 747	652	TOTAL
N 22-TI-48	I	1	1.420+	1 1.420+	1 72 4036	1	TOTAL
N 22-TI-47	I	1	1.420+	1 1.420+	1 72 4036	1	TOTAL
C 22-TI-48	I	1	4.600-	2 3.890-	1 62 747	601	TOTAL
N 22-TI-48	I	1	1.420+	1 1.420+	1 72 4036	1	TOTAL
N 22-TI-49	I	1	1.725-	2 2.460-	1 69 3067	1321	TOTAL
N 22-TI-49	I	1	1.420+	1 1.420+	1 72 4036	1	TOTAL
C 22-TI-50	I	1	3.250-	2 5.895-	1 62 747	608	TOTAL
N 22-TI-50	I	1	1.420+	1 1.420+	1 72 4036	1	TOTAL
23-V -NAT	I	1	8.660-	10 3.610-	8 53 1805	48	TOTAL
23-V -NAT	I	1	2.030-	9 2.856-	7 60 1798	93	TOTAL
23-V -NAT	I	1	1.000-	8 4.000-	6 65 1773	4	TOTAL
23-V -NAT	I	1	1.250-	8 5.800-	6 53 2049	30	TOTAL
23-V -NAT	I	1	2.100-	8 5.000-	6 53 874	14	TOTAL
23-V -NAT	I	1	1.440-	6 1.440-	6 65 242	1	TOTAL
23-V -NAT	I	1	4.010-	4 8.945-	2 58 548	103	TOTAL
23-V -NAT	I	1	5.847-	4 5.847-	1 65 814	4841	TOTAL
23-V -NAT	I	1	6.000-	4 2.571-	2 63 1806	309	TOTAL
23-V -NAT	I	1	1.500-	3 9.900-	2 57 157	53	TOTAL
23-V -NAT	I	1	2.000-	3 2.500-	2 52 75	19	TOTAL
C 23-V -NAT	I	1	2.041-	2 2.207-	1 66 1552	1375	TOTAL
N 23-V -NAT	I	1	7.000-	2 7.050+	0 66 4017	13	TOTAL
N 23-V -NAT	I	1	7.200-	2 1.195+	0 73 3797	571	TOTAL
23-V -NAT	I	1	1.000-	1 1.002+	0 50 57	153	TOTAL
23-V -NAT	I	1	1.008-	1 1.441+	0 69 1549	1202	TOTAL
23-V -NAT	I	1	3.600-	1 3.198+	1 70 2517	6178	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C * 1

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
23-V-NAT	1	4	100-	1	1,207+	0	67 971 TOTAL
23-V-NAT	1	1	190+	0	1,032+	0	73 7796 TOTAL
23-V-NAT	1	1	190+	0	1,032+	0	73 7796 TOTAL
23-V-NAT	1	2	250+	0	2,709+	1	67 1509 TOTAL
23-V-NAT	1	1	350+	0	2,486+	1	67 811 TOTAL
23-V-NAT	1	2	633+	0	2,833+	0	65 750 TOTAL
23-V-NAT	1	2	700+	0	2,700+	0	65 1562 TOTAL
23-V-NAT	1	2	700+	0	2,700+	0	67 1527 TOTAL
23-V-NAT	1	3	190+	0	5,210+	0	65 1804 TOTAL
23-V-NAT	1	3	660+	1	3,660+	0	61 537 TOTAL
23-V-NAT	1	1	015+	1	1,737+	1	65 1303 TOTAL
23-V-NAT	1	1	390+	1	1,390+	1	51 65 TOTAL
23-V-NAT	1	1	400+	1	1,400+	1	52 207 TOTAL
23-V-NAT	1	1	750+	1	2,770+	1	60 673 TOTAL
23-V-50	1	9	000-	9	1,000-	6	72 3431 TOTAL
23-V-50	1	3	428-	3	9,031-	2	66 987 TOTAL
24-CR-NAT	1	2	780-	5	3,216-	3	58 548 TOTAL
24-CR-NAT	1	1	150+	4	3,000+	4	49 844 TOTAL
24-CR-NAT	1	3	000-	3	4,090-	1	57 318 TOTAL
24-CR-NAT	1	4	500-	3	1,600-	1	61 736 TOTAL
24-CR-NAT	1	1	007+	1	6,487+	1	65 1062 TOTAL
24-CR-NAT	1	1	811-	1	2,951+	1	72 3521 TOTAL
24-CR-NAT	1	5	000-	1	1,276+	0	63 455 TOTAL
24-CR-NAT	1	5	000-	1	3,194+	1	68 2517 TOTAL
24-CR-NAT	1	5	000-	1	3,120+	0	66 4017 TOTAL
24-CR-NAT	1	1	001+	0	8,696+	0	71 334 TOTAL
24-CR-NAT	1	2	253+	0	2,750+	0	57 817 TOTAL
24-CR-NAT	1	2	339+	0	1,499+	1	67 750 TOTAL
24-CR-NAT	1	2	370+	0	7,840+	0	54 505 TOTAL
24-CR-NAT	1	3	100+	0	3,100+	0	72 3973 TOTAL
24-CR-NAT	1	3	190+	0	5,210+	0	67 972 TOTAL
24-CR-NAT	1	7	050+	0	1,425+	1	52 22 TOTAL
24-CR-NAT	1	1	400+	1	1,400+	1	52 81 TOTAL
24-CR-NAT	1	1	400+	1	1,400+	1	52 207 TOTAL
24-CR-NAT	1	1	750+	1	2,860+	1	60 673 TOTAL
24-CR-50	1	2	000-	2	1,050-	1	61 736 TOTAL
24-CR-50	1	8	000-	2	7,356-	2	66 751 TOTAL
24-CR-50	1	1	490+	0	6,490+	1	72 3521 TOTAL
24-CR-50	1	4	500+	2	9,300+	2	67 4036 TOTAL
24-CR-52	1	2	339+	0	1,499+	1	67 750 TOTAL
24-CR-52	1	2	700+	0	2,700+	0	67 1527 TOTAL
24-CR-52	1	1	420+	1	1,420+	1	72 4036 TOTAL
24-CR-52	1	1	698+	2	3,660+	1	69 3067 TOTAL
24-CR-53	1	2	660+	1	1,483+	1	67 750 TOTAL
24-CR-53	1	1	420+	1	1,420+	1	72 4036 TOTAL
24-CR-54	1	2	000+	3	1,390+	1	61 736 TOTAL
24-CR-54	1	1	005+	1	5,995+	1	63 751 TOTAL
24-CR-54	1	1	465+	1	1,430+	1	72 4036 TOTAL
25-MN-55	1	9	470-	9	2,107-	2	64 1823 TOTAL
25-MN-55	1	1	730-	8	2,100-	2	47 261 TOTAL
25-MN-55	1	1	160+	4	3,000+	4	49 844 TOTAL
25-MN-55	1	5	580-	4	2,151-	3	58 5 TOTAL

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
23-V-NAT	1	4	100-	1	1,207+	0	67 971 TOTAL
23-V-NAT	1	1	190+	0	1,032+	0	73 7796 TOTAL
23-V-NAT	1	1	190+	0	1,032+	0	73 7796 TOTAL
23-V-NAT	1	2	250+	0	2,709+	1	67 1509 TOTAL
23-V-NAT	1	1	350+	0	2,486+	1	67 811 TOTAL
23-V-NAT	1	2	633+	0	2,833+	0	65 750 TOTAL
23-V-NAT	1	2	700+	0	2,700+	0	65 1562 TOTAL
23-V-NAT	1	2	700+	0	2,700+	0	67 1527 TOTAL
23-V-NAT	1	3	190+	0	5,210+	0	65 1804 TOTAL
23-V-NAT	1	3	660+	1	3,660+	0	61 537 TOTAL
23-V-NAT	1	1	015+	1	1,737+	1	65 1303 TOTAL
23-V-NAT	1	1	390+	1	1,390+	1	51 65 TOTAL
23-V-NAT	1	1	400+	1	1,400+	1	52 207 TOTAL
23-V-NAT	1	1	750+	1	2,770+	1	60 673 TOTAL
23-V-50	1	9	000-	9	1,000-	6	72 3431 TOTAL
23-V-50	1	3	428-	3	9,031-	2	66 987 TOTAL
24-CR-NAT	1	2	780-	5	3,216-	3	58 548 TOTAL
24-CR-NAT	1	1	150+	4	3,000+	4	49 844 TOTAL
24-CR-NAT	1	3	000-	3	4,090-	1	57 318 TOTAL
24-CR-NAT	1	4	500-	3	1,600-	1	61 736 TOTAL
24-CR-NAT	1	1	007+	1	6,487+	1	65 1062 TOTAL
24-CR-NAT	1	1	811-	1	2,951+	1	72 3521 TOTAL
24-CR-NAT	1	5	000-	1	1,276+	0	63 455 TOTAL
24-CR-NAT	1	5	000-	1	3,194+	1	68 2517 TOTAL
24-CR-NAT	1	5	000-	1	3,120+	0	66 4017 TOTAL
24-CR-NAT	1	1	001+	0	8,696+	0	71 334 TOTAL
24-CR-NAT	1	2	253+	0	2,750+	0	57 817 TOTAL
24-CR-NAT	1	2	339+	0	1,499+	1	67 750 TOTAL
24-CR-NAT	1	2	370+	0	7,840+	0	54 505 TOTAL
24-CR-NAT	1	3	100+	0	3,100+	0	72 3973 TOTAL
24-CR-NAT	1	3	190+	0	5,210+	0	67 972 TOTAL
24-CR-NAT	1	7	050+	0	1,425+	1	52 22 TOTAL
24-CR-NAT	1	1	400+	1	1,400+	1	52 81 TOTAL
24-CR-NAT	1	1	400+	1	1,400+	1	52 207 TOTAL
24-CR-NAT	1	1	750+	1	2,860+	1	60 673 TOTAL
24-CR-50	1	2	000-	2	1,050-	1	61 736 TOTAL
24-CR-50	1	8	000-	2	7,356-	2	66 751 TOTAL
24-CR-50	1	1	490+	0	6,490+	1	72 3521 TOTAL
24-CR-50	1	4	500+	2	9,300+	2	67 4036 TOTAL
24-CR-52	1	2	339+	0	1,499+	1	67 750 TOTAL
24-CR-52	1	2	700+	0	2,700+	0	67 1527 TOTAL
24-CR-52	1	1	420+	1	1,420+	1	72 4036 TOTAL
24-CR-52	1	1	698+	2	3,660+	1	69 3067 TOTAL
24-CR-53	1	2	660+	1	1,483+	1	67 750 TOTAL
24-CR-53	1	1	420+	1	1,420+	1	72 4036 TOTAL
24-CR-54	1	2	000+	3	1,390+	1	61 736 TOTAL
24-CR-54	1	1	005+	1	5,995+	1	63 751 TOTAL
24-CR-54	1	1	465+	1	1,430+	1	72 4036 TOTAL
25-MN-55	1	9	470-	9	2,107-	2	64 1823 TOTAL
25-MN-55	1	1	730-	8	2,100-	2	47 261 TOTAL
25-MN-55	1	1	160+	4	3,000+	4	49 844 TOTAL
25-MN-55	1	5	580-	4	2,151-	3	58 5 TOTAL

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TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

25-MN-55	1	5.844-	4	5.980-	1	65	814	3857	TOTAL
25-MN-55	1	5.930-	4	9.660-	3	58	1820	96	TOTAL
25-MN-55	1	1.000-	3	1.000-	1	57	157	62	TOTAL
25-MN-55	1	2.570-	2	7.970-	2	52	75	26	TOTAL
25-MN-55	1	4.795-	2	2.573-	1	66	1552	957	TOTAL
25-MN-55	1	3.000-	2	9.300-	1	51	74	173	TOTAL
25-MN-55	1	8.000-	1	3.198+	1	70	2517	5129	TOTAL
25-MN-55	1	8.000-	1	1.206+	0	63	455	91	TOTAL
25-MN-55	1	8.000-	1	1.206+	0	67	771	91	TOTAL
25-MN-55	1	2.510+	0	1.483+	1	66	1891	16	TOTAL
25-MN-55	1	2.700+	0	1.320+	1	54	504	248	TOTAL
25-MN-55	1	3.386+	0	5.144+	0	65	3665	29	TOTAL
25-MN-55	1	1.336+	1	1.348+	1	70	3968	52	TOTAL
25-MN-55	1	1.400+	1	1.400+	1	52	81	1	TOTAL
25-MN-55	1	2.450+	1	1.450+	1	70	3500	1	TOTAL
25-MN-55	1	2.450+	9	2.450+	7	61	2523	1	TOTAL
25-MN-55	1	1.460+	6	1.460+	5	65	2505	362	TOTAL
25-MN-55	1	9.280-	5	4.914-	3	63	836	47	TOTAL
25-MN-55	1	1.460-	3	3.753-	3	55	1875	84	TOTAL
25-MN-55	1	1.000-	3	2.140-	1	67	736	233	TOTAL
25-MN-55	1	1.000-	3	4.090-	1	57	318	363	TOTAL
25-MN-55	1	2.000-	7	2.400-	2	62	75	12	TOTAL
25-MN-55	1	3.995-	3	1.959-	1	65	814	1971	TOTAL
25-MN-55	1	2.356-	2	1.331+	0	73	3923	7608	TOTAL
25-MN-55	1	2.430-	2	2.430-	2	73	3343	1	TOTAL
25-MN-55	1	2.800-	2	6.850-	1	48	48	14	TOTAL
25-MN-55	1	5.400-	2	2.609-	1	66	1552	852	TOTAL
25-MN-55	1	9.000-	2	5.000+	0	66	4017	19	TOTAL
25-MN-55	1	1.275-	1	1.333-	1	64	788	32	TOTAL
25-MN-55	1	1.074-	1	4.461+	1	72	3459	3701	TOTAL
25-MN-55	1	3.326-	1	1.488+	0	60	1546	1469	TOTAL
25-MN-55	1	3.480-	1	1.199+	0	67	971	205	TOTAL
25-MN-55	1	4.500-	1	2.550+	0	61	1000	8	TOTAL
25-MN-55	1	4.621-	1	9.016+	0	69	2516	3722	TOTAL
25-MN-55	1	5.001-	1	1.502+	1	69	2620	3350	TOTAL
25-MN-55	1	6.900-	1	3.194+	1	70	2517	5113	TOTAL
25-MN-55	1	7.726-	1	9.344+	0	51	263	163	TOTAL
25-MN-55	1	1.001+	0	2.023+	0	63	748	39	TOTAL
25-MN-55	1	1.005+	0	3.210+	0	70	3051	39	TOTAL
25-MN-55	1	1.580+	0	1.660+	0	56	146	14	TOTAL
25-MN-55	1	1.792+	0	2.365+	0	68	2014	75	TOTAL
25-MN-55	1	2.010+	0	3.990+	0	65	1016	392	TOTAL
25-MN-55	1	2.200+	0	2.200+	0	59	497	3	TOTAL
25-MN-55	1	2.256+	0	1.464+	1	67	750	246	TOTAL
25-MN-55	1	2.900+	0	1.410+	1	54	504	21	TOTAL
25-MN-55	1	3.660+	0	3.660+	0	59	559	1	TOTAL
25-MN-55	1	4.000+	0	8.200+	0	58	400	39	TOTAL
25-MN-55	1	4.100+	0	4.100+	0	55	296	1	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-FE-NAT	1	4.45+0	7.478+0	67 1747	109	TOTAL
26-FE-NAT	1	7.050+0	1.450+1	57 22	5	TOTAL
26-FE-NAT	1	8.320+0	1.428+1	62 787	62	TOTAL
26-FE-NAT	1	8.940+0	8.940+0	69 2025	1	TOTAL
26-FE-NAT	1	1.250+1	1.430+1	66 1702	17	TOTAL
26-FE-NAT	1	1.279+1	2.000+1	60 622	11	TOTAL
26-FE-NAT	1	1.300+1	1.620+1	55 133	7	TOTAL
26-FE-NAT	1	1.377+1	1.476+1	58 349	19	TOTAL
26-FE-NAT	1	1.400+1	1.400+1	52 81	1	TOTAL
26-FE-NAT	1	1.400+1	1.400+1	52 207	1	TOTAL
26-FE-NAT	1	1.450+1	1.450+1	70 3300	1	TOTAL
26-FE-NAT	1	1.480+1	1.480+1	57 368	1	TOTAL
26-FE-NAT	1	1.480+1	1.480+1	69 2988	1	TOTAL
26-FE-NAT	1	1.730+1	2.780+1	60 673	4	TOTAL
26-FE-NAT	1	1.800+1	1.800+1	53 274	1	TOTAL
26-FE-NAT	1	2.840+1	2.840+1	61 233	1	TOTAL
26-FE-NAT	1	3.480+1	1.940+2	53 310	30	TOTAL
26-FE-NAT	1	4.200+1	4.200+1	50 281	1	TOTAL
26-FE-NAT	1	9.340+1	1.068+2	55 282	4	TOTAL
26-FE-NAT	1	9.480+1	1.079+2	54 39	4	TOTAL
26-FE-NAT	1	3.790+2	1.731+3	71 3264	15	TOTAL
26-FE-NAT	1	5.700+3	5.700+3	69 3160	1	TOTAL
26-FE-NAT	1	2.700+4	2.700+4	68 2350	1	TOTAL
26-FE-NAT	1	3.400+4	2.730+5	74 3618	7	TOTAL
26-FE-54	1	5.000+3	9.200+2	61 736	57	TOTAL
26-FE-54	1	9.200+2	5.160+1	62 747	490	TOTAL
26-FE-54	1	4.040+0	5.600+0	71 3214	3	TOTAL
26-FE-56	1	1.440+6	1.440+6	65 949	1	TOTAL
26-FE-56	1	1.860+1	6.570+1	62 747	485	TOTAL
26-FE-56	1	5.050+6	5.050+0	71 3214	1	TOTAL
26-FE-57	1	2.800+3	2.800+3	52 221	1	TOTAL
26-FE-57	1	2.426+2	2.575+1	66 1552	1244	TOTAL
FE203	1	1.440+6	1.440+6	65 949	1	TOTAL
27-CO-59	1	1.150+4	3.000+4	49 844	2	TOTAL
27-CO-59	1	5.882+4	5.980+1	65 814	5737	TOTAL
27-CO-59	1	1.113+3	3.174+2	59 548	130	TOTAL
27-CO-59	1	1.500+3	1.004+1	57 157	139	TOTAL
27-CO-59	1	2.000+3	9.800+2	52 75	40	TOTAL
27-CO-59	1	2.800+3	6.000+3	60 1850	77	TOTAL
27-CO-59	1	2.830+3	1.217+1	59 855	454	TOTAL
27-CO-59	1	1.500+1	4.770+1	70 3227	76	TOTAL
27-CO-59	1	2.550+1	7.750+0	72 3227	33	TOTAL
27-CO-59	1	3.200+1	1.000+0	51 74	69	TOTAL
27-CO-59	1	3.600+1	3.198+1	70 2517	6178	TOTAL
27-CO-59	1	4.900+1	1.203+0	67 971	186	TOTAL
27-CO-59	1	1.100+0	3.002+0	53 90	13	TOTAL
27-CO-59	1	2.262+0	1.473+1	67 750	244	TOTAL
27-CO-59	1	2.700+0	2.700+0	67 1527	1	TOTAL
27-CO-59	1	2.700+0	1.310+1	54 504	29	TOTAL
27-CO-59	1	3.319+0	5.150+0	65 3665	65	TOTAL
27-CO-59	1	3.660+0	3.660+0	59 559	1	TOTAL
27-CO-59	1	3.770+0	8.090+0	57 153	41	TOTAL

TARGET	CODE	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 1

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

27-CO-59	1	4.000+0	4.000+0	57	1843	1	TOTAL
27-CO-59	1	4.525+0	7.528+0	57	1747	61	TOTAL
27-CO-59	1	1.400+1	1.400+1	52	81	1	TOTAL
27-CO-59	1	1.400+1	1.400+1	59	567	1	TOTAL
27-CO-59	1	1.470+1	1.470+1	71	3815	1	TOTAL
28-NI-NAT	1	1.740+1	5.900+1	60	673	4	TOTAL
28-NI-NAT	1	8.210-10	5.920-9	54	2057	35	TOTAL
28-NI-NAT	1	3.680-9	1.880-7	54	873	102	TOTAL
28-NI-NAT	1	3.300-6	2.700-7	70	3627	4	TOTAL
28-NI-NAT	1	1.010-7	7.900-7	54	1041	10	TOTAL
28-NI-NAT	1	1.440-6	1.440-6	65	949	1	TOTAL
28-NI-NAT	1	2.300-6	9.200-3	53	980	100	TOTAL
28-NI-NAT	1	1.150+4	3.000-4	49	844	2	TOTAL
28-NI-NAT	1	1.700-4	2.200-1	54	1002	200	TOTAL
28-NI-NAT	1	2.000-3	4.100-2	52	75	30	TOTAL
28-NI-NAT	1	2.500-3	9.950-2	53	223	60	TOTAL
28-NI-NAT	1	8.800-2	1.080+0	48	48	63	TOTAL
28-NI-NAT	1	9.700-2	1.201+0	73	3945	295	TOTAL
28-NI-NAT	1	1.010-1	6.489-1	66	1062	547	TOTAL
28-NI-NAT	1	1.260-1	1.350+0	66	4017	13	TOTAL
28-NI-NAT	1	1.300-1	1.300-1	47	46	1	TOTAL
28-NI-NAT	1	1.811-1	2.942+1	72	3521	7402	TOTAL
28-NI-NAT	1	4.500-1	2.950+0	61	1000	8	TOTAL
28-NI-NAT	1	4.727-1	1.513+1	73	3539	3358	TOTAL
28-NI-NAT	1	4.874-1	8.671+0	63	455	888	TOTAL
28-NI-NAT	1	5.000-1	5.193+1	68	2517	5114	TOTAL
28-NI-NAT	1	6.500-1	3.190+0	72	80	15	TOTAL
28-NI-NAT	1	8.185+0	6.190+0	73	768	132	TOTAL
28-NI-NAT	1	2.255+0	1.300+1	67	760	248	TOTAL
28-NI-NAT	1	3.600+0	1.660+0	57	584	28	TOTAL
28-NI-NAT	1	7.050+0	1.020+1	57	382	2	TOTAL
28-NI-NAT	1	1.237+1	2.020+1	60	685	12	TOTAL
28-NI-NAT	1	1.300+1	1.620+1	55	133	1	TOTAL
28-NI-NAT	1	1.400+1	1.400+1	52	207	1	TOTAL
28-NI-NAT	1	1.400+1	1.470+1	71	3815	1	TOTAL
28-NI-NAT	1	1.750+1	2.860+1	60	673	5	TOTAL
28-NI-NAT	1	4.200+1	4.200+1	50	281	1	TOTAL
28-NI-NAT	1	3.790+2	1.731+3	71	3254	15	TOTAL
28-NI-NAT	1	1.440-6	1.440-6	65	949	1	TOTAL
28-NI-NAT	1	1.500-3	2.720-1	58	534	177	TOTAL
28-NI-NAT	1	2.700+0	2.700+0	67	1527	1119	TOTAL
28-NI-NAT	1	5.050+0	5.580+0	71	3214	2	TOTAL
28-NI-NAT	1	1.420+1	1.420+1	67	1869	1	TOTAL
28-NI-NAT	1	2.000-3	2.670-1	59	534	182	TOTAL
28-NI-NAT	1	8.100-2	6.530-1	66	751	1191	TOTAL
28-NI-NAT	1	4.600-1	2.799+1	71	3158	2316	TOTAL
28-NI-NAT	1	5.050+0	5.580+0	71	3214	2	TOTAL
28-NI-NAT	1	1.420+1	1.420+1	67	1869	1	TOTAL

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7500 REACTION: DEX (REACTION NO. ORDERED)

TARGET	CODE	S	E-MIN-KEV	E-MAX-KEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	28-NI-61	1	6.945-3	6.930-2	70 3658	1578	TOTAL
			1.200-2	1.200-2	53 266	12	TOTAL
	28-NI-62	1	3.000-2	7.900-2	66 751	50	TOTAL
C	28-NI-62	1	8.000-2	6.560-1	63 751	1209	TOTAL
			4.000-0	4.000-0	67 1643	1	TOTAL
	28-NI-62	1	1.420-1	1.420-1	67 1869	1	TOTAL
C	28-NI-62	1	9.000-2	6.500-1	63 751	1143	TOTAL
			1.420-1	1.420-1	67 1869	1	TOTAL
	28-NI-64	1	1.420-1	1.420-1	67 1869	1	TOTAL
			2.530-9	4.730-9	58 1196	10	TOTAL
N	29-CU-NAT	1	3.300-8	2.700-7	70 3827	4	TOTAL
			1.440-6	1.440-6	65 949	1	TOTAL
	29-CU-NAT	1	8.470-6	1.671-3	58 903	42	TOTAL
			5.280-5	9.559-3	55 1587	141	TOTAL
	29-CU-NAT	1	1.150-4	3.000-4	49 844	2	TOTAL
			2.003-4	5.207-1	65 814	5002	TOTAL
	29-CU-NAT	1	6.560-7	5.048-2	59 748	253	TOTAL
			1.700-3	1.700-3	63 932	10	TOTAL
	29-CU-NAT	1	6.200-2	6.200-2	63 932	10	TOTAL
N	29-CU-NAT	1	2.200-2	1.430-0	66 9017	14	TOTAL
			2.400-2	1.403-0	50 2058	40	TOTAL
	29-CU-NAT	1	5.500-2	2.500-0	58 546	18	TOTAL
			1.016-1	1.469-0	70 3154	621	TOTAL
	29-CU-NAT	1	4.500-1	2.250-0	61 1000	6	TOTAL
			8.300-1	8.300-1	47 46	1	TOTAL
	29-CU-NAT	1	9.000-1	9.000-1	47 170	1	TOTAL
			1.000-0	3.210-0	52 80	14	TOTAL
	29-CU-NAT	1	2.100-0	3.200-0	58 617	13	TOTAL
			2.262-0	1.48-1	67 750	242	TOTAL
	29-CU-NAT	1	2.900-0	1.410-1	54 504	17	TOTAL
			3.660-0	3.660-0	55 559	1	TOTAL
	29-CU-NAT	1	4.050-0	8.100-0	59 400	37	TOTAL
			4.160-0	6.220-0	65 2051	42	TOTAL
	29-CU-NAT	1	6.830-0	1.403-1	57 22	8	TOTAL
			8.940-0	8.940-0	69 2025	1	TOTAL
	29-CU-NAT	1	1.250-1	1.450-1	66 1702	18	TOTAL
			1.300-1	1.620-1	95 133	7	TOTAL
	29-CU-NAT	1	1.370-1	1.476-1	58 349	20	TOTAL
			1.400-1	1.400-1	52 81	1	TOTAL
	29-CU-NAT	1	1.400-1	1.400-1	52 207	1	TOTAL
			1.400-1	1.400-1	62 1740	1	TOTAL
	29-CU-NAT	1	1.470-1	1.470-1	71 3815	1	TOTAL
			1.480-1	1.480-1	57 368	1	TOTAL
	29-CU-NAT	1	1.480-1	1.480-1	69 2988	1	TOTAL
			1.580-1	1.175-2	61 789	60	TOTAL
	29-CU-NAT	1	1.400-1	2.900-1	60 973	9	TOTAL
			1.500-1	1.500-1	53 674	1	TOTAL
	29-CU-NAT	1	2.500-1	2.500-1	53 674	1	TOTAL
			2.500-1	2.500-1	53 674	1	TOTAL
	29-CU-NAT	1	3.000-1	1.570-2	53 355	10	TOTAL
			4.200-1	4.200-1	53 281	1	TOTAL
	29-CU-NAT	1	4.200-1	4.200-1	54 343	2	TOTAL
			5.100-1	8.800-1	55 282	12	TOTAL
	29-CU-NAT	1	6.100-1	1.068-2	55 282	1	TOTAL

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TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION		
29-CU-NAT	1	9.000*	1	9.000*	1	49	266	1	TOTAL
29-CU-NAT	1	9.500*	1	9.500*	1	50	12	2	TOTAL
29-CU-NAT	1	9.900*	1	1.519*	2	68	2189	6	TOTAL
29-CU-NAT	1	3.790*	2	1.731*	3	71	3264	15	TOTAL
29-CU-NAT	1	1.400*	3	1.400*	3	55	2056	1	TOTAL
29-CU-NAT	1	3.800*	3	3.800*	3	70	3195	1	TOTAL
29-CU-NAT	1	5.000*	3	5.000*	3	61	1566	1	TOTAL
29-CU-NAT	1	5.700*	3	5.700*	3	69	3160	1	TOTAL
29-CU-NAT	1	8.300*	3	8.300*	3	62	1857	1	TOTAL
29-CU-NAT	1	1.200*	4	2.650*	4	71	3180	4	TOTAL
29-CU-NAT	1	2.700*	4	2.700*	4	68	2350	1	TOTAL
29-CU-NAT	1	3.400*	4	2.730*	5	74	3618	7	TOTAL
29-CU-NAT	1	1.000*	3	9.700*	2	57	157	92	TOTAL
29-CU-NAT	1	3.980*	2	1.433*	1	68	3652	880	TOTAL
29-CU-NAT	1	1.420*	1	1.420*	1	72	4036	1	TOTAL
29-CU-NAT	1	1.000*	3	9.700*	2	57	157	97	TOTAL
29-CU-NAT	1	3.948*	2	2.848*	1	68	3652	1152	TOTAL
29-CU-NAT	1	2.500*	6	1.450*	1	62	4036	113	TOTAL
29-CU-NAT	1	2.500*	6	2.653*	3	68	3935	113	TOTAL
30-ZN-NAT	1	1.150*	4	3.006*	4	68	803	9	TOTAL
30-ZN-NAT	1	1.150*	4	3.449*	4	69	814	5723	TOTAL
30-ZN-NAT	1	2.003*	3	3.500*	3	54	255	11	TOTAL
30-ZN-NAT	1	1.000*	3	1.900*	1	58	545	112	TOTAL
30-ZN-NAT	1	1.000*	2	6.400*	1	65	922	89	TOTAL
30-ZN-NAT	1	5.000*	2	2.800*	1	66	917	7	TOTAL
30-ZN-NAT	1	1.001*	1	6.487*	1	66	1062	525	TOTAL
30-ZN-NAT	1	2.110*	1	1.024*	0	57	46	3	TOTAL
30-ZN-NAT	1	2.200*	1	8.300*	0	52	80	14	TOTAL
30-ZN-NAT	1	1.000*	0	3.210*	0	67	750	249	TOTAL
30-ZN-NAT	1	2.251*	0	1.491*	1	54	504	29	TOTAL
30-ZN-NAT	1	2.700*	0	1.310*	1	59	559	1	TOTAL
30-ZN-NAT	1	3.660*	0	3.660*	0	55	559	1	TOTAL
30-ZN-NAT	1	4.000*	0	8.100*	0	58	400	39	TOTAL
30-ZN-NAT	1	4.100*	0	4.100*	0	55	296	1	TOTAL
30-ZN-NAT	1	4.531*	0	7.564*	0	67	1747	61	TOTAL
30-ZN-NAT	1	7.050*	0	1.407*	1	57	22	5	TOTAL
30-ZN-NAT	1	1.237*	1	2.020*	1	50	622	13	TOTAL
30-ZN-NAT	1	1.300*	1	1.850*	1	55	133	7	TOTAL
30-ZN-NAT	1	1.400*	1	1.400*	1	52	81	1	TOTAL
30-ZN-NAT	1	1.400*	1	1.400*	1	52	207	1	TOTAL
30-ZN-NAT	1	1.400*	1	1.400*	1	52	207	1	TOTAL
30-ZN-NAT	1	1.750*	1	2.860*	1	60	3815	4	TOTAL
30-ZN-NAT	1	2.130*	1	4.115*	1	74	3523	8	TOTAL
30-ZN-NAT	1	2.890*	1	2.840*	1	50	281	1	TOTAL
30-ZN-NAT	1	4.200*	1	4.200*	1	49	285	1	TOTAL
30-ZN-NAT	1	9.000*	1	9.000*	1	49	285	1	TOTAL
30-ZN-NAT	1	3.790*	2	1.731*	3	71	3264	15	TOTAL
30-ZN-NAT	1	1.420*	1	1.420*	1	67	1869	1	TOTAL
30-ZN-NAT	1	1.420*	1	1.420*	1	67	1869	1	TOTAL
30-ZN-NAT	1	1.420*	1	1.420*	1	67	1869	1	TOTAL
30-ZN-NAT	1	5.000*	2	5.230*	1	63	751	1123	TOTAL

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ECSL-76-010 REACTION INDEX (REACTION NO. ORDERED)

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

50-ZN-69	1	1.20*	1	1.420*	1	67 1869	1	TOTAL
50-ZN-70	1	1.20*	1	1.420*	1	67 1869	1	TOTAL
31-GA-NAT	1	1.480*	5	6.760*	3	56 138	154	TOTAL
31-GA-NAT	1	1.000*	1	1.200*	1	53 100	47	TOTAL
31-GA-NAT	1	4.000*	3	5.400*	2	57 154	8	TOTAL
31-GA-NAT	1	9.100*	2	4.050*	1	55 4017	24	TOTAL
31-GA-NAT	1	1.400*	1	2.980*	0	53 90	22	TOTAL
31-GA-NAT	1	2.265*	0	1.468*	1	67 750	24	TOTAL
31-GA-NAT	1	2.700*	0	2.700*	0	67 1527	3	TOTAL
31-GA-NAT	1	6.560*	0	1.450*	1	57 22	1	TOTAL
31-GA-NAT	1	1.400*	1	1.400*	1	52 81	1	TOTAL
31-GA-NAT	1	1.470*	1	1.470*	1	71 3815	4	TOTAL
31-GA-NAT	1	1.760*	1	2.860*	1	60 673	25	TOTAL
32-GF-NAT	1	1.390*	8	6.260*	7	47 45	39	TOTAL
32-GF-NAT	1	2.010*	6	6.840*	7	71 3875	156	TOTAL
32-GF-NAT	1	9.250*	6	1.430*	2	53 2331	13	TOTAL
32-GF-NAT	1	6.000*	2	6.250*	1	56 150	287	TOTAL
32-GF-NAT	1	1.846*	1	6.487*	1	67 885	32	TOTAL
32-GF-NAT	1	4.400*	1	3.420*	0	53 264	243	TOTAL
32-GF-NAT	1	2.252*	0	1.480*	1	67 750	41	TOTAL
32-GF-NAT	1	3.560*	0	3.660*	0	62 637	5	TOTAL
32-GF-NAT	1	3.780*	0	8.090*	0	57 153	1	TOTAL
32-GF-NAT	1	7.050*	0	1.407*	1	57 22	1	TOTAL
32-GF-NAT	1	1.450*	1	1.450*	1	70 3300	1	TOTAL
32-GF-NAT	1	1.470*	1	1.470*	1	71 3815	4	TOTAL
32-GF-NAT	1	1.750*	1	2.820*	1	60 673	172	TOTAL
33-AS-75	1	2.050*	9	4.050*	5	61 1716	20	TOTAL
33-AS-75	1	2.722*	9	8.006*	9	83 2198	70	TOTAL
33-AS-75	1	1.000*	8	1.070*	7	53 3859	1	TOTAL
33-AS-75	1	2.330*	8	2.530*	8	60 1716	59	TOTAL
33-AS-75	1	5.500*	8	4.900*	5	83 1928	2	TOTAL
33-AS-75	1	1.572*	5	1.011*	2	59 548	564	TOTAL
33-AS-75	1	1.150*	4	3.020*	4	49 844	96	TOTAL
33-AS-75	1	2.083*	4	1.008*	2	85 814	52	TOTAL
33-AS-75	1	1.010*	3	2.400*	3	61 730	247	TOTAL
33-AS-75	1	5.800*	2	2.931*	0	56 150	44	TOTAL
33-AS-75	1	2.261*	0	1.480*	1	67 750	1	TOTAL
33-AS-75	1	3.300*	0	5.210*	0	67 972	1	TOTAL
33-AS-75	1	1.400*	1	1.400*	1	52 332	1	TOTAL
33-AS-75	1	2.840*	1	2.840*	1	61 233	64	TOTAL
34-SE-NAT	1	1.100*	9	9.800*	6	53 370	264	TOTAL
34-SE-NAT	1	2.722*	9	4.668*	9	83 2198	536	TOTAL
34-SE-NAT	1	2.518*	5	1.702*	2	55 1774	2	TOTAL
34-SE-NAT	1	1.015*	4	1.014*	1	64 1015	100	TOTAL
34-SE-NAT	1	1.150*	4	3.000*	4	49 844	33	TOTAL
34-SE-NAT	1	8.000*	4	7.980*	2	56 143	18	TOTAL
34-SE-NAT	1	3.700*	3	9.000*	3	58 15	12	TOTAL
34-SE-NAT	1	9.900*	2	2.980*	0	53 90	41	TOTAL
34-SE-NAT	1	1.200*	1	6.250*	1	75 150	228	TOTAL
34-SE-NAT	1	3.350*	1	3.310*	0	53 254	28	TOTAL
34-SE-NAT	1	2.465*	0	1.490*	1	67 750	54	TOTAL
34-SE-NAT	1	2.750*	0	1.320*	1	54 504		

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

34-SE-NAT	1	3.650+ 0	3.650+ 0	52	537	1	TOTAL
34-SE-NAT	1	1.400+ 1	1.400+ 1	52	81	1	TOTAL
34-SE-80	1	4.000+ 0	4.000+ 0	67	1843	1	TOTAL
35-BR-NAT	1	5.800+ 0	5.800+ 0	50	1939	54	TOTAL
35-BR-NAT	1	2.850+ 5	1.680+ 3	55	1774	225	TOTAL
35-BR-NAT	1	8.185+ 4	4.003+ 3	65	814	5873	TOTAL
35-BR-NAT	1	1.150+ 4	3.000+ 4	49	844	2	TOTAL
35-BR-NAT	1	1.000+ 3	1.000+ 0	51	70	4	TOTAL
35-BR-NAT	1	5.800+ 2	3.037+ 0	56	150	54	TOTAL
35-BR-NAT	1	2.210+ 0	2.763+ 0	53	94	14	TOTAL
35-BR-NAT	1	2.262+ 0	1.455+ 1	67	750	245	TOTAL
35-BR-NAT	1	2.800+ 0	1.230+ 1	54	504	27	TOTAL
35-BR-NAT	1	3.650+ 0	3.650+ 0	61	637	1	TOTAL
35-BR-NAT	1	1.400+ 1	1.400+ 1	52	81	1	TOTAL
35-BR-NAT	1	1.200+ 1	2.007+ 1	53	274	3	TOTAL
35-BR-NAT	1	2.840+ 1	2.840+ 1	61	633	1	TOTAL
35-BR-NAT	1	4.200+ 1	4.200+ 1	50	581	1	TOTAL
36-KR-NAT	1	3.100+ 9	2.510+ 8	53	777	23	TOTAL
36-KR-NAT	1	1.130+ 8	1.130+ 8	50	2349	63	TOTAL
36-KR-NAT	1	7.000+ 6	6.185+ 6	57	438	14	TOTAL
36-KR-NAT	1	1.000+ 3	1.000+ 3	57	438	14	TOTAL
36-KR-NAT	1	1.150+ 1	1.150+ 1	60	570	135	TOTAL
36-KR-NAT	1	2.160+ 0	2.850+ 0	61	753	2	TOTAL
36-KR-NAT	1	1.985+ 8	4.950+ 6	55	228	453	TOTAL
37-RB-NAT	1	1.000+ 3	1.500+ 2	91	737	52	TOTAL
37-RB-NAT	1	4.500+ 3	6.070+ 3	56	142	9	TOTAL
37-RB-NAT	1	4.750+ 3	2.480+ 2	57	154	51	TOTAL
37-RB-NAT	1	3.505+ 1	1.108+ 0	73	3950	353	TOTAL
37-RB-NAT	1	2.255+ 0	1.491+ 1	67	750	242	TOTAL
37-RB-NAT	1	1.459+ 1	1.496+ 1	66	2074	2	TOTAL
37-RB-85	1	2.500+ 3	1.340+ 2	61	737	47	TOTAL
37-RB-87	1	4.400+ 3	1.000+ 2	57	272	55	TOTAL
37-RB-87	1	4.600+ 3	1.360+ 2	58	15	55	TOTAL
38-SR-NAT	1	7.250+ 3	1.043+ 1	56	143	73	TOTAL
38-SR-NAT	1	1.000+ 2	2.170+ 1	61	728	406	TOTAL
38-SR-NAT	1	5.000+ 2	3.210+ 0	52	80	75	TOTAL
38-SR-NAT	1	2.267+ 0	1.476+ 1	67	750	241	TOTAL
38-SR-NAT	1	3.650+ 0	3.650+ 0	61	637	1	TOTAL
38-SR-NAT	1	1.400+ 1	1.400+ 1	52	81	1	TOTAL
38-SR-NAT	1	1.785+ 1	1.476+ 1	65	3897	1	TOTAL
38-SR-NAT	1	1.820+ 1	1.820+ 1	55	135	1	TOTAL
38-SR-NAT	1	1.820+ 1	1.820+ 1	58	975	1	TOTAL
38-SR-NAT	1	4.200+ 1	4.200+ 1	58	261	1	TOTAL
38-SR-86	1	6.800+ 3	1.650+ 2	58	261	42	TOTAL
39-Y -89	1	6.240+ 10	8.240+ 6	65	2118	1	TOTAL
39-Y -89	1	2.020+ 9	2.878+ 7	60	1768	23	TOTAL
39-Y -89	1	5.570+ 7	4.222+ 3	58	903	41	TOTAL
39-Y -89	1	1.000+ 3	4.830+ 3	74	4009	34	TOTAL
39-Y -89	1	2.000+ 3	3.300+ 2	61	737	119	TOTAL
39-Y -89	1	2.220+ 3	1.800+ 2	58	15	118	TOTAL
39-Y -89	1	5.000+ 3	6.400+ 1	65	922	97	TOTAL
39-Y -89	1	6.500+ 3	2.050+ 2	56	2343	25	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
41-NB-92	1	2.900	5	1.977	2	58 2133	634 TOTAL
41-NB-93	1	3.270	5	6.10	3	55 1987	188 TOTAL
41-NB-93	1	4.710	5	1.669	4	58 903	50 TOTAL
41-NB-93	1	8.171	5	1.009	2	65 814	9874 TOTAL
41-NB-93	1	4.500	4	1.053	2	57 154	30 TOTAL
41-NB-93	1	1.100	3	9.500	1	66 1328	50 TOTAL
41-NB-93	1	1.100	2	1.010	1	65 880	102 TOTAL
41-NB-93	1	1.000	2	5.000	1	66 4017	12 TOTAL
41-NB-93	1	1.000	1	3.210	0	52 80	28 TOTAL
41-NB-93	1	2.720	1	5.000	0	73 3504	146 TOTAL
41-NB-93	1	4.500	1	2.950	0	61 1000	8 TOTAL
41-NB-93	1	4.531	1	1.06	1	71 3341	712 TOTAL
41-NB-93	1	1.500	0	5.000	0	71 3926	8 TOTAL
41-NB-93	1	2.393	0	1.483	1	67 750	234 TOTAL
41-NB-93	1	3.350	0	5.100	0	65 3665	62 TOTAL
41-NB-93	1	3.660	0	3.660	0	61 637	1 TOTAL
41-NB-93	1	4.000	0	4.000	0	67 1643	1 TOTAL
41-NB-93	1	4.531	0	7.514	0	67 1747	60 TOTAL
41-NB-93	1	1.400	1	1.400	1	52 81	1 TOTAL
41-NB-94	1	1.190	1	1.470	1	68 2127	1 TOTAL
41-NB-94	1	1.190	1	1.902	4	70 3643	1023 TOTAL
42-HO-NAT	1	1.190	9	5.610	9	54 178	21 TOTAL
42-HO-NAT	1	2.450	9	8.000	6	50 1939	78 TOTAL
42-HO-NAT	1	1.400	6	1.200	2	62 803	80 TOTAL
42-HO-NAT	1	4.410	6	4.193	3	62 2134	550 TOTAL
42-HO-NAT	1	1.320	9	5.050	4	68 503	23 TOTAL
42-HO-NAT	1	3.380	5	5.350	4	65 862	165 TOTAL
42-HO-NAT	1	5.454	4	5.133	3	65 814	7947 TOTAL
42-HO-NAT	1	1.440	4	2.800	1	65 2042	49 TOTAL
42-HO-NAT	1	2.758	4	1.974	1	62 599	801 TOTAL
42-HO-NAT	1	2.000	3	1.950	2	56 943	68 TOTAL
42-HO-NAT	1	6.000	3	6.010	1	63 922	85 TOTAL
42-HO-NAT	1	1.100	5	3.210	1	52 880	10 TOTAL
42-HO-NAT	1	2.400	5	2.400	0	52 407	43 TOTAL
42-HO-NAT	1	4.400	5	1.454	1	51 74	95 TOTAL
42-HO-NAT	1	1.028	1	1.498	0	72 3438	462 TOTAL
42-HO-NAT	1	4.500	1	2.750	0	61 1005	8 TOTAL
42-HO-NAT	1	1.500	0	5.000	0	72 1928	9 TOTAL
42-HO-NAT	1	2.253	0	1.490	1	67 750	247 TOTAL
42-HO-NAT	1	2.750	0	1.310	1	54 504	29 TOTAL
42-HO-NAT	1	3.660	0	3.660	0	61 637	1 TOTAL
42-HO-NAT	1	4.000	0	8.050	0	58 400	38 TOTAL
42-HO-NAT	1	4.100	0	4.100	0	50 576	1 TOTAL
42-HO-NAT	1	7.090	0	1.450	1	57 22	5 TOTAL
42-HO-NAT	1	1.237	1	2.020	1	60 622	33 TOTAL
42-HO-NAT	1	1.400	1	1.400	1	52 81	1 TOTAL
42-HO-NAT	1	1.400	1	1.400	1	52 207	1 TOTAL
42-HO-NAT	1	1.730	1	2.880	1	60 573	1 TOTAL
42-HO-NAT	1	2.840	1	2.840	1	61 237	1 TOTAL
42-HO-NAT	1	4.200	1	4.200	1	50 281	1 TOTAL

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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07.04/76

ECSIL-1650 REACTION INDEX (REACTION NO. ORDERED)

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TARGET CODE E-MIN-REV E-MAX-REV REFERENCE POINTS REACTION DESCRIPTION

42-MO-92	1	1.013-	1	1.496+	0	72 3439	594	TOTAL
42-MO-92	1	1.300-	1	6.400-	1	67 3638	103	TOTAL
42-MO-94	1	1.015-	1	1.494+	0	72 3439	558	TOTAL
42-MO-94	1	1.102-	1	6.500-	1	67 3638	212	TOTAL
42-MO-95	1	1.300-	1	6.400-	1	67 3638	103	TOTAL
42-MO-96	1	1.277-	1	1.497+	0	72 3439	544	TOTAL
42-MO-96	1	1.300-	1	6.400-	1	67 3638	103	TOTAL
42-MO-98	1	1.278-	1	1.497+	0	72 3439	549	TOTAL
42-MO-98	1	1.300-	1	6.400-	1	67 3638	103	TOTAL
42-MO-98	1	1.794-	1	1.208+	2	65 1514	1934	TOTAL
42-MO-100	1	1.242-	1	1.497+	0	72 3439	552	TOTAL
42-MO-100	1	1.300-	1	6.400-	1	67 3638	103	TOTAL
43-TC-99	1	1.000-	8	1.000-	5	58 2139	185	TOTAL
43-TC-99	1	2.530-	8	2.530-	8	58 2139	1	TOTAL
43-TC-99	1	2.530-	8	2.530-	8	58 2139	1	TOTAL
43-TC-99	1	2.940-	6	1.307-	1	59 574	110	TOTAL
43-TC-99	1	2.286-	0	1.496+	1	67 3638	232	TOTAL
44-RU-NAT	1	1.300-	5	1.400-	3	62 1626	15	TOTAL
44-RU-NAT	1	1.000-	5	1.000-	1	67 3638	102	TOTAL
44-RU-NAT	1	3.300-	2	6.500-	1	67 3638	31	TOTAL
44-RU-NAT	1	1.300-	1	6.400-	1	67 3638	242	TOTAL
44-RU-NAT	1	2.532-	5	1.582+	2	59 2007	157	TOTAL
45-RH-103	1	1.453-	5	1.028+	4	61 2152	1884	TOTAL
45-RH-103	1	2.303-	5	2.956+	4	62 2146	634	TOTAL
45-RH-103	1	2.354-	5	2.906+	4	65 1626	95	TOTAL
45-RH-103	1	1.778-	3	7.525+	4	65 2149	2988	TOTAL
45-RH-103	1	1.000-	2	6.400-	1	65 922	122	TOTAL
45-RH-103	1	1.100-	2	1.010-	1	65 880	110	TOTAL
45-RH-103	1	1.100-	1	6.400-	1	67 3638	106	TOTAL
45-RH-103	1	2.258+	0	1.493+	1	67 750	242	TOTAL
45-RH-103	1	1.970-	9	6.350-	8	62 2161	47	TOTAL
45-RH-103	1	1.800-	9	9.300-	6	67 2162	177	TOTAL
46-F-NAT	1	1.200-	6	1.000-	5	63 2348	25	TOTAL
46-F-NAT	1	6.190-	6	7.614-	2	59 2027	303	TOTAL
46-PO-NAT	1	5.000-	3	2.950-	1	59 2342	61	TOTAL
46-PO-NAT	1	5.000-	3	6.400-	1	65 922	95	TOTAL
46-PO-NAT	1	1.000-	1	1.497+	0	72 3154	670	TOTAL
46-PO-NAT	1	2.265+	0	1.491+	1	67 750	252	TOTAL
46-PO-NAT	1	6.830+	0	1.450+	1	57 22	6	TOTAL
46-PO-NAT	1	1.400+	1	1.400+	1	55 232	1	TOTAL
46-PO-NAT	1	1.480+	1	1.480+	1	57 368	1	TOTAL
46-PO-NAT	1	1.750+	1	2.890+	1	60 673	4	TOTAL
47-AG-NAT	1	5.110-	9	8.180-	8	54 873	20	TOTAL
47-AG-NAT	1	1.482-	8	9.809-	5	46 961	58	TOTAL
47-AG-NAT	1	7.000-	8	6.350-	7	70 3627	4	TOTAL
47-AG-NAT	1	1.440-	6	1.440-	6	65 949	1	TOTAL
47-AG-NAT	1	3.450-	6	1.450-	2	47 261	38	TOTAL
47-AG-NAT	1	5.078-	5	5.000+	4	54 459	154	TOTAL
47-AG-NAT	1	9.830-	6	1.270+	4	58 903	35	TOTAL
47-AG-NAT	1	4.020-	5	6.500+	4	56 1237	123	TOTAL
47-AG-NAT	1	9.108-	5	1.194+	3	65 814	3972	TOTAL

TARGET CODE E-MIN-REV E-MAX-REV REFERENCE POINTS REACTION DESCRIPTION

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*TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

48-CD-NAT	1	1.480	1	1.480	1	5	368	1	TOTAL
48-CD-NAT	1	1.580	1	1.175	2	61	789	60	TOTAL
48-CD-NAT	1	1.730	1	2.880	1	60	673	4	TOTAL
48-CD-NAT	1	3.000	1	1.390	2	53	355	11	TOTAL
48-CD-NAT	1	3.940	1	1.519	2	68	2189	6	TOTAL
48-CD-NAT	1	5.700	3	5.700	3	69	3160	1	TOTAL
48-CD-NAT	1	2.650	4	2.650	4	71	3180	1	TOTAL
48-CD-NAT	1	3.430	4	2.730	5	74	3618	7	TOTAL
48-CD-NAT	1	1.420	1	1.420	1	57	1869	1	TOTAL
48-CD-NAT	1	1.420	1	1.420	1	57	1869	1	TOTAL
48-CD-NAT	1	1.420	1	1.420	1	57	1869	1	TOTAL
48-CD-NAT	1	2.000	8	2.500	7	69	3420	20	TOTAL
48-CD-NAT	1	2.000	8	2.500	7	69	3420	20	TOTAL
48-CD-NAT	1	1.420	1	1.420	1	57	1869	1	TOTAL
48-CD-NAT	1	1.420	1	1.420	1	57	1869	1	TOTAL
48-CD-NAT	1	2.070	3	2.500	7	68	3420	20	TOTAL
48-CD-NAT	1	4.000	0	4.000	0	57	1643	1	TOTAL
48-CD-NAT	1	1.420	1	1.420	1	57	1869	1	TOTAL
48-CD-NAT	1	2.000	8	2.500	7	69	3420	20	TOTAL
48-CD-NAT	1	1.420	1	1.420	1	57	1869	1	TOTAL
48-CD-NAT	1	5.000	9	6.500	8	54	673	12	TOTAL
48-CD-NAT	1	2.910	6	7.609	6	54	2179	311	TOTAL
48-CD-NAT	1	3.100	6	7.600	7	56	961	14	TOTAL
48-CD-NAT	1	1.420	1	7.042	3	55	2027	231	TOTAL
48-CD-NAT	1	1.420	1	2.860	4	59	644	42	TOTAL
48-CD-NAT	1	1.420	1	2.860	4	59	644	42	TOTAL
48-CD-NAT	1	1.000	3	1.000	3	47	2044	10	TOTAL
48-CD-NAT	1	1.000	3	1.010	3	65	880	10	TOTAL
48-CD-NAT	1	2.000	2	1.580	0	49	50	27	TOTAL
48-CD-NAT	1	3.000	2	6.500	1	65	921	101	TOTAL
48-CD-NAT	1	1.200	1	6.500	1	67	3638	32	TOTAL
48-CD-NAT	1	1.000	0	3.210	0	52	80	17	TOTAL
48-CD-NAT	1	2.251	0	1.498	1	67	750	244	TOTAL
48-CD-NAT	1	3.350	0	5.250	0	65	1804	33	TOTAL
48-CD-NAT	1	3.560	0	3.560	0	61	637	1	TOTAL
48-CD-NAT	1	6.700	0	6.700	0	62	2155	1	TOTAL
48-CD-NAT	1	6.830	0	1.445	1	57	22	6	TOTAL
48-CD-NAT	1	1.400	1	1.400	1	52	81	1	TOTAL
48-CD-NAT	1	1.750	1	2.890	1	60	673	5	TOTAL
48-CD-NAT	1	4.000	0	4.000	0	67	1643	1	TOTAL
48-CD-NAT	1	1.420	1	1.420	1	57	1869	1	TOTAL
50-SN-NAT	1	3.270	9	1.200	8	55	2057	10	TOTAL
50-SN-NAT	1	1.700	5	8.150	5	58	903	33	TOTAL
50-SN-NAT	1	2.740	5	6.950	5	55	862	250	TOTAL
50-SN-NAT	1	1.150	4	3.000	4	49	844	2	TOTAL
50-SN-NAT	1	1.000	3	1.000	2	48	189	3	TOTAL
50-SN-NAT	1	1.500	2	6.400	1	65	922	79	TOTAL
50-SN-NAT	1	2.400	2	8.300	1	47	46	6	TOTAL
50-SN-NAT	1	3.200	2	1.401	0	50	2055	18	TOTAL
50-SN-NAT	1	1.001	1	5.489	1	65	1062	541	TOTAL
50-SN-NAT	1	1.000	0	3.210	0	52	80	16	TOTAL

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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50-SN-NAT	1		2.273+ 0	1.479+ 1	67 750	241	TOTAL
50-SN-NAT	1		2.800+ 0	1.320+ 1	54 504	21	TOTAL
50-SN-NAT	1		4.100+ 0	4.100+ 0	55 296	1	TOTAL
50-SN-NAT	1		4.521+ 0	7.564+ 0	67 1747	61	TOTAL
50-SN-NAT	1		6.830+ 0	1.403+ 1	57 82	7	TOTAL
50-SN-NAT	1		8.940+ 0	8.940+ 0	69 2025	1	TOTAL
50-SN-NAT	1		1.237+ 1	2.028+ 1	60 622	13	TOTAL
50-SN-NAT	1		1.300+ 1	1.620+ 1	55 133	7	TOTAL
50-SN-NAT	1		1.400+ 1	1.400+ 1	52 81	1	TOTAL
50-SN-NAT	1		1.400+ 1	1.400+ 1	52 207	1	TOTAL
50-SN-NAT	1		1.460+ 1	1.480+ 1	57 369	1	TOTAL
50-SN-NAT	1		1.730+ 1	2.880+ 1	60 673	4	TOTAL
50-SN-NAT	1		4.200+ 1	4.200+ 1	50 281	1	TOTAL
50-SN-NAT	1		9.000+ 1	9.000+ 1	49 286	1	TOTAL
50-SN-NAT	1		9.500+ 1	9.500+ 1	50 12	1	TOTAL
50-SN-NAT	1		3.790+ 2	1.731+ 3	71 3264	15	TOTAL
50-SN-NAT	1		1.400+ 3	1.400+ 3	55 2056	1	TOTAL
50-SN-NAT	1		5.000+ 3	5.000+ 3	61 1566	1	TOTAL
50-SN-112	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
50-SN-116	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
50-SN-117	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
50-SN-118	1		4.000+ 0	4.000+ 0	67 1643	1	TOTAL
50-SN-118	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
50-SN-119	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
50-SN-120	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
50-SN-122	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
50-SN-124	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
51-SB-NAT	1		2.470- 9	2.282- 7	68 2395	114	TOTAL
51-SB-NAT	1		2.722- 9	9.468- 9	62 2198	22	TOTAL
51-SB-NAT	1		1.477- 8	2.094- 5	46 981	57	TOTAL
51-SB-NAT	1		5.010- 8	3.096- 6	70 3280	32	TOTAL
51-SB-NAT	1		2.150- 6	9.103- 3	36 138	254	TOTAL
51-SB-NAT	1		2.300- 6	5.800- 4	47 261	30	TOTAL
51-SB-NAT	1		5.500- 6	3.090- 5	55 981	62	TOTAL
51-SB-NAT	1		2.171- 5	1.368- 3	55 814	5808	TOTAL
51-SB-NAT	1		3.000- 4	3.000- 4	49 844	1	TOTAL
51-SB-NAT	1		2.000- 2	1.371+ 0	49 50	31	TOTAL
51-SB-NAT	1		3.000- 2	6.500- 1	65 921	102	TOTAL
51-SB-NAT	1		1.030+ 0	3.210+ 0	52 80	17	TOTAL
51-SB-NAT	1		2.271+ 0	1.475+ 1	67 750	242	TOTAL
51-SB-NAT	1		2.800+ 0	1.320+ 1	54 504	20	TOTAL
51-SB-NAT	1		3.660+ 0	3.660+ 0	61 637	1	TOTAL
51-SB-NAT	1		4.100+ 0	4.100+ 0	60 576	1	TOTAL
51-SB-NAT	1		4.531+ 0	7.564+ 0	67 1747	61	TOTAL
51-SB-NAT	1		7.010+ 0	1.437+ 1	57 22	5	TOTAL
51-SB-NAT	1		1.400+ 1	1.400+ 1	52 81	1	TOTAL
51-SB-NAT	1		1.400+ 1	1.400+ 1	52 207	1	TOTAL
51-SB-NAT	1		1.750+ 1	2.880+ 1	60 673	4	TOTAL
51-SB-NAT	1		3.480+ 1	1.940+ 2	53 310	30	TOTAL
51-SB-121	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
51-SB-123	1		1.420+ 1	1.420+ 1	67 1869	1	TOTAL
52-TE-NAT	1		2.722- 9	9.468- 9	62 2198	19	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/76

EC50 1300 REACTION INDEX REACTION NO. ORDERED

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

52-TE-NAT	1	1.050-5	4.030-4	56 2039	191	TOTAL
52-TE-NAT	1	1.150-4	3.000-4	49 844	2	TOTAL
52-TE-NAT	1	1.440-4	2.860-4	55 2042	49	TOTAL
52-TE-NAT	1	1.440-4	6.204-3	70 3608	13105	TOTAL
52-TE-NAT	1	9.000-2	2.977-0	53 90	20	TOTAL
52-TE-NAT	1	2.259-0	1.500-1	67 750	248	TOTAL
52-TE-NAT	1	2.800-0	1.320-0	54 504	24	TOTAL
52-TE-NAT	1	3.650-0	3.660-0	61 637	1	TOTAL
52-TE-NAT	1	1.400-1	1.400-1	52 81	1	TOTAL
52-TE-NAT	1	1.450-1	1.450-1	70 3300	1	TOTAL
52-TE-122	1	1.420-1	1.420-1	67 1869	1	TOTAL
52-TE-124	1	1.420-1	1.420-1	67 1869	1	TOTAL
52-TE-125	1	1.420-1	1.420-1	67 1869	1	TOTAL
52-TE-126	1	1.420-1	1.420-1	67 1869	1	TOTAL
52-TE-128	1	1.000-3	1.202-1	61 728	380	TOTAL
52-TE-130	1	1.420-1	1.420-1	67 1869	1	TOTAL
52-TE-130	1	6.189-5	4.080-3	65 814	6995	TOTAL
53-1-127	1	1.150-4	3.000-4	49 844	2	TOTAL
53-1-127	1	1.000-2	1.000-2	47 45	1	TOTAL
53-1-127	1	2.390-2	1.370-0	49 50	31	TOTAL
53-1-127	1	3.000-2	6.500-1	65 521	102	TOTAL
53-1-127	1	1.000-4	3.210-0	52 80	14	TOTAL
53-1-127	1	2.262-0	1.499-1	67 750	243	TOTAL
53-1-127	1	3.350-0	5.210-0	65 1804	35	TOTAL
53-1-127	1	4.000-0	4.000-0	67 1843	1	TOTAL
53-1-127	1	1.336-1	1.318-1	70 3968	2	TOTAL
53-1-127	1	1.400-1	1.400-1	52 81	1	TOTAL
53-1-127	1	1.450-1	1.450-1	70 3300	1	TOTAL
53-1-127	1	2.470-1	2.470-1	71 3915	1	TOTAL
53-1-127	1	2.800-1	2.800-1	61 533	1	TOTAL
53-1-127	1	4.000-1	4.000-1	50 593	1	TOTAL
53-1-127	1	3.000-8	4.530-8	59 599	22	TOTAL
53-1-127	1	3.300-7	3.530-8	59 773	21	TOTAL
53-1-127	1	2.733-7	1.438-4	52 2043	12	TOTAL
53-1-127	1	5.320-6	4.038-3	68 5653	23768	TOTAL
53-1-127	1	5.320-6	9.178-3	53 2015	55	TOTAL
53-1-127	1	1.260-1	1.978-1	60 270	146	TOTAL
53-1-127	1	1.600-8	3.250-7	59 2311	77	TOTAL
53-1-127	1	1.600-8	4.370-6	65 1959	69	TOTAL
53-1-127	1	2.158-4	1.368-3	65 814	5820	TOTAL
53-1-127	1	2.403-3	1.198-1	71 3990	482	TOTAL
53-1-127	1	2.260-0	1.496-1	67 750	243	TOTAL
53-1-127	1	1.408-1	1.408-1	66 2074	1	TOTAL
53-1-127	1	1.470-1	1.470-1	71 3815	1	TOTAL
53-1-127	1	1.801-5	1.2-7-3	59 498	710	TOTAL
53-1-127	1	1.110-4	2.440-4	58 903	10	TOTAL
53-1-127	1	6.900-3	2.000-1	67 728	453	TOTAL
53-1-127	1	1.550-1	1.015-1	56 143	57	TOTAL
53-1-127	1	2.300-1	3.210-0	52 80	60	TOTAL
53-1-127	1	1.209-1	1.788-0	63 748	24	TOTAL
53-1-127	1	2.254-0	1.483-1	67 750	253	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
56-BA-NAT	1	2.300+	0	2.748+	0	57 817	13 TOTAL
56-BA-NAT	1	4.100+	0	4.100+	0	60 576	1 TOTAL
56-BA-NAT	1	1.314+	1	1.560+	1	58 324	3 TOTAL
56-BA-NAT	1	1.400+	1	1.400+	1	52 81	1 TOTAL
56-BA-NAT	1	2.840+	1	2.840+	1	61 233	1 TOTAL
56-BA-NAT	1	4.200+	1	4.200+	1	50 281	1 TOTAL
57-LA-NAT	1	1.000-	7	1.500-	3	67 2215	53 TOTAL
57-LA-NAT	1	3.939-	6	4.241-	5	59 2405	335 TOTAL
57-LA-NAT	1	6.410-	5	8.320-	5	57 1967	21 TOTAL
N 57-LA-NAT	1	1.510-	2	2.371-	1	71 3751	84 TOTAL
57-LA-NAT	1	3.000-	2	6.500-	1	65 921	101 TOTAL
N 57-LA-NAT	1	7.000-	1	9.034+	0	74 3895	642 TOTAL
57-LA-NAT	1	2.700+	0	1.320+	1	54 504	18 TOTAL
N 57-LA-NAT	1	3.340+	0	5.180+	0	65 3666	65 TOTAL
57-LA-NAT	1	1.400+	1	1.400+	1	52 81	1 TOTAL
57-LA-NAT	1	1.458+	1	1.560+	1	58 324	3 TOTAL
57-LA-139	1	1.000-	3	1.000-	2	57 154	31 TOTAL
57-LA-139	1	3.000-	2	3.210+	0	52 80	80 TOTAL
N 57-LA-139	1	1.200-	1	6.400-	1	67 3638	28 TOTAL
57-LA-139	1	1.005+	0	2.005+	0	69 3310	101 TOTAL
57-LA-139	1	2.255+	0	1.489+	1	67 750	294 TOTAL
57-LA-139	1	1.314+	1	1.410+	1	58 324	3 TOTAL
58-CE-NAT	1	2.880-	6	3.800-	2	58 5111	192 TOTAL
58-CE-NAT	1	2.900-	6	3.410-	5	59 2042	50 TOTAL
58-CE-NAT	1	1.150+	4	3.000+	4	49 844	2 TOTAL
58-CE-NAT	1	5.000-	3	5.600-	2	56 143	59 TOTAL
58-CE-NAT	1	6.000-	2	3.210+	0	52 80	68 TOTAL
N 58-CE-NAT	1	7.000-	1	9.034+	0	74 3895	642 TOTAL
58-CE-NAT	1	1.013+	0	2.013+	0	69 3310	101 TOTAL
58-CE-NAT	1	1.209+	0	1.788+	0	63 748	24 TOTAL
58-CE-NAT	1	2.260+	0	1.487+	1	67 750	254 TOTAL
N 58-CE-NAT	1	3.290+	0	5.180+	0	65 3666	67 TOTAL
58-CE-NAT	1	1.314+	1	1.560+	1	58 324	3 TOTAL
58-CE-NAT	1	1.400+	1	1.400+	1	52 81	1 TOTAL
N 58-CE-NAT	1	1.470+	1	1.470+	1	71 3815	1 TOTAL
N 58-CE-NAT	1	1.470+	1	1.470+	1	71 3850	1 TOTAL
58-CE-NAT	1	1.750+	1	2.780+	1	60 673	4 TOTAL
58-CE-140	1	1.000-	3	6.000-	2	59 534	101 TOTAL
58-CE-142	1	2.000+	4	6.000-	2	59 534	118 TOTAL
59-PR-141	1	1.750-	9	9.700-	7	63 2221	33 TOTAL
N 59-PR-141	1	2.550-	9	9.700-	7	67 2256	33 TOTAL
59-PR-141	1	1.700-	8	8.340-	6	66 1989	156 TOTAL
59-PR-141	1	4.630-	6	2.817-	2	59 2027	211 TOTAL
59-PR-141	1	7.970+	4	2.390-	2	56 511	18 TOTAL
N 59-PR-141	1	1.240-	2	2.395-	1	71 3751	47 TOTAL
59-PR-141	1	5.000-	2	3.210+	0	52 80	77 TOTAL
N 59-PR-141	1	7.003-	1	9.055+	0	74 3895	646 TOTAL
59-PR-141	1	1.004+	0	2.004+	0	69 3310	101 TOTAL
59-PR-141	1	2.335+	0	1.486+	1	67 750	246 TOTAL
N 59-PR-141	1	3.320+	0	5.990+	0	65 3666	68 TOTAL
N 59-PR-141	1	3.775+	0	1.802+	1	73 3966	20 TOTAL
59-PR-141	1	4.531+	0	7.514+	0	67 1747	60 TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 1

07/04/76

ECSIL-1630 REACTION INDEX (REACTION NO. ORDERED)

C * 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	59-PR-141	1	1.336	1	1.348	1	70 3968 2 TOTAL
	59-PR-141	1	1.400	1	1.400	1	52 81 1 TOTAL
N	60-ND-NAT	1	3.300	8	2.700	7	70 3627 4 TOTAL
	60-ND-NAT	1	5.210	7	9.000	5	58 903 40 TOTAL
	60-ND-NAT	1	9.600	7	1.259	2	58 512 448 TOTAL
	60-ND-NAT	1	4.590	6	2.817	2	55 2027 95 TOTAL
	60-ND-NAT	1	4.106	5	4.457	5	55 520 10 TOTAL
	60-ND-NAT	1	2.000	3	6.400	1	65 922 103 TOTAL
	60-ND-NAT	1	3.000	3	2.950	1	59 508 62 TOTAL
	60-ND-NAT	1	5.000	2	2.900	0	53 101 22 TOTAL
N	60-ND-NAT	1	7.003	1	9.065	0	74 3895 646 TOTAL
	60-ND-NAT	1	2.369	0	1.497	1	67 750 244 TOTAL
	60-ND-NAT	1	1.314	1	1.560	1	58 324 7 TOTAL
N	60-ND-142	1	1.000	4	3.272	2	71 3604 10457 TOTAL
N	60-ND-143	1	6.519	5	3.003	2	71 3604 11195 TOTAL
N	60-ND-144	1	9.002	5	2.937	2	71 3604 9337 TOTAL
	60-ND-145	1	2.530	8	2.530	8	58 2720 1 TOTAL
N	60-ND-145	1	3.063	5	2.504	2	71 3604 13803 TOTAL
N	60-ND-146	1	3.001	5	4.983	3	71 3604 10989 TOTAL
N	60-ND-148	1	4.000	5	1.119	2	71 3604 11853 TOTAL
N	60-ND-150	1	1.835	5	1.400	2	71 3604 14580 TOTAL
	ND203	1	1.440	6	1.440	6	65 949 1 TOTAL
N	61-PM-147	1	7.000	8	7.000	8	72 3545 1 TOTAL
	61-PM-147	1	2.530	2	2.530	2	71 3253 1 TOTAL
	61-PM-147	1	2.495	0	1.484	1	67 750 227 TOTAL
	61-PM-148	1	2.500	8	2.500	8	69 2772 1 TOTAL
	62-SM-NAT	1	2.000	10	2.800	9	61 878 8 TOTAL
	62-SM-NAT	1	8.454	10	2.802	7	65 1877 67 TOTAL
	62-SM-NAT	1	5.000	9	9.550	7	54 2396 40 TOTAL
	62-SM-NAT	1	5.000	9	9.550	7	54 2397 40 TOTAL
N	62-SM-NAT	1	6.210	8	9.510	7	68 3658 45 TOTAL
	62-SM-NAT	1	5.990	7	1.785	5	58 512 373 TOTAL
	62-SM-NAT	1	1.160	5	4.420	3	57 2024 207 TOTAL
	62-SM-NAT	1	1.069	5	7.350	4	56 2039 616 TOTAL
	62-SM-NAT	1	1.440	4	2.260	1	55 2042 48 TOTAL
	62-SM-NAT	1	7.970	4	2.390	2	56 511 18 TOTAL
	62-SM-NAT	1	1.000	1	2.900	0	53 101 28 TOTAL
	62-SM-NAT	1	3.015	1	1.498	0	69 2395 347 TOTAL
N	62-SM-NAT	1	7.003	1	9.065	0	74 3895 646 TOTAL
	62-SM-NAT	1	2.223	0	1.486	1	67 750 254 TOTAL
	62-SM-NAT	1	1.314	1	1.560	1	58 324 3 TOTAL
	62-SM-147	1	2.530	8	2.530	8	71 3110 1 TOTAL
	62-SM-149	1	6.473	10	2.802	7	65 1877 80 TOTAL
N	62-SM-149	1	2.530	8	2.530	8	68 3767 1 TOTAL
N	62-SM-149	1	2.530	8	2.530	8	69 3769 1 TOTAL
	62-SM-150	1	2.530	8	2.530	8	71 3110 1 TOTAL
N	62-SM-151	1	1.019	8	2.415	6	75 3846 139 TOTAL
	62-SM-151	1	2.530	8	2.530	8	63 2544 1 TOTAL
	62-SM-152	1	1.000	8	7.600	8	58 2400 13 TOTAL
	62-SM-152	1	2.530	8	2.530	8	58 2139 1 TOTAL
	62-SM-152	1	7.525	6	8.525	6	62 2237 24 TOTAL
	63-EU-NAT	1	1.500	10	2.800	9	61 878 11 TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C * 1

07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

C = 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
63-EU-NAT	1	1.070-	9	8.500-	9	55 2238	12 TOTAL
N 63-EU-NAT	1	1.000-	8	3.000-	7	71 3413	30 TOTAL
N 63-EU-NAT	1	2.260-	8	7.536-	7	71 3695	127 TOTAL
63-EU-NAT	1	2.530-	8	2.530-	8	58 2139	1 TOTAL
63-EU-NAT	1	7.970-	4	2.390-	2	56 511	18 TOTAL
63-EU-NAT	1	2.260+	0	1.467+	1	67 750	24 TOTAL
N 63-EU-151	1	1.000-	8	3.000-	7	71 3413	30 TOTAL
63-EU-151	1	2.530-	8	2.530-	8	58 2139	1 TOTAL
N 63-EU-151	1	2.530-	8	2.530-	8	68 3767	1 TOTAL
N 63-EU-151	1	2.627-	4	3.000-	3	70 2666	4418 TOTAL
N 63-EU-153	1	1.000-	8	3.000-	7	71 3413	30 TOTAL
64-GD-NAT	1	1.800-	10	2.800-	9	61 878	8 TOTAL
64-GD-NAT	1	2.100-	9	2.000-	7	47 916	64 TOTAL
64-GD-NAT	1	9.200-	9	2.300-	7	65 1773	15 TOTAL
64-GD-NAT	1	1.950-	8	2.793-	7	60 2243	50 TOTAL
64-GD-NAT	1	2.530-	8	2.530-	8	58 2139	1 TOTAL
64-GD-NAT	1	6.600-	7	2.740-	3	53 2331	294 TOTAL
64-GD-NAT	1	1.160-	6	9.990-	6	58 512	203 TOTAL
64-GD-NAT	1	8.870-	6	8.000-	4	56 2039	725 TOTAL
64-GD-NAT	1	7.970-	4	2.390-	2	56 511	18 TOTAL
64-GD-NAT	1	1.200-	3	2.037+	0	66 1789	99 TOTAL
64-GD-NAT	1	2.800-	3	2.800-	3	52 252	1 TOTAL
64-GD-NAT	1	4.000-	3	6.400-	1	65 922	96 TOTAL
64-GD-NAT	1	1.000-	1	1.498+	0	69 2385	709 TOTAL
N 64-GD-NAT	1	7.003-	1	9.065+	0	74 3895	646 TOTAL
64-GD-NAT	1	1.001+	0	2.001+	0	68 3290	34 TOTAL
64-GD-NAT	1	1.004+	0	2.004+	0	69 3310	101 TOTAL
64-GD-NAT	1	2.260+	0	1.496+	1	67 750	256 TOTAL
64-GD-NAT	1	2.390+	0	1.571+	1	68 2242	7 TOTAL
N 64-GD-NAT	1	3.889+	0	1.882+	1	69 2882	45 TOTAL
64-GD-NAT	1	1.314+	1	1.560+	1	58 324	3 TOTAL
64-GD-155	1	1.950-	8	2.793-	7	60 2243	50 TOTAL
64-GD-155	1	2.530-	8	2.530-	8	58 2139	1 TOTAL
N 64-GD-155	1	2.530-	8	2.530-	8	68 3767	1 TOTAL
64-GD-157	1	1.950-	8	2.793-	7	60 2243	50 TOTAL
64-GD-157	1	2.530-	8	2.530-	8	58 2139	1 TOTAL
N 64-GD-157	1	2.530-	8	2.530-	8	68 3767	1 TOTAL
65-TB-159	1	2.220-	10	2.360-	9	65 1059	8 TOTAL
N 65-TB-159	1	3.540-	9	1.760-	6	73 3478	67 TOTAL
N 65-TB-159	1	3.300-	8	2.700-	7	70 3627	4 TOTAL
N 65-TB-159	1	3.582-	7	3.053-	6	71 3660	29 TOTAL
65-TB-159	1	2.262+	0	1.484+	1	67 750	252 TOTAL
66-DY-NAT	1	5.300-	10	4.000-	7	61 2248	75 TOTAL
66-DY-NAT	1	6.300-	10	2.300-	8	64 2249	36 TOTAL
66-DY-NAT	1	1.527-	8	2.512-	6	66 1553	347 TOTAL
66-DY-NAT	1	1.440-	4	3.600-	2	55 2042	47 TOTAL
66-DY-NAT	1	7.970-	4	2.390-	2	56 511	17 TOTAL
66-DY-NAT	1	1.060-	2	2.037+	0	66 1789	171 TOTAL
N 66-DY-NAT	1	7.003-	1	9.065+	0	74 3895	646 TOTAL
66-DY-NAT	1	2.291+	0	1.461+	1	67 750	249 TOTAL
N 66-DY-161	1	2.530-	8	1.500-	6	71 3407	28 TOTAL
N 66-DY-162	1	2.530-	8	1.500-	6	71 3407	28 TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 1

ECSIL- 600 PEACTION INDEX (REACTION NO. ORDERED)

TARGET	CODE	S	E	MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	66-EP-163	1	1	2 530-0	1 500-0	6 71 3407	28	TOTAL
N	66-EP-164	1	1	2 530-10	1 400-7	61 2248	37	TOTAL
N	66-EP-165	1	1	2 530-2	2 530-0	60 3767	1	TOTAL
N	66-EP-166	1	1	2 530-6	1 500-6	61 3407	28	TOTAL
N	67-HO-165	1	1	2 530-9	2 380-9	65 1059	8	TOTAL
C	67-HO-166	1	1	1 000-9	9 400-7	67 2256	111	TOTAL
N	67-HO-167	1	1	1 680-8	1 347-6	64 1039	63	TOTAL
N	67-HO-168	1	1	2 570-8	5 000-7	52 437	20	TOTAL
N	67-HO-169	1	1	2 260-7	1 150-5	53 1057	54	TOTAL
N	67-HO-170	1	1	3 053-6	3 400-4	55 862	258	TOTAL
N	67-HO-171	1	1	3 588-5	3 058-3	60 3609	13787	TOTAL
N	67-HO-172	1	1	5 000-3	2 038+0	66 1769	96	TOTAL
N	67-HO-173	1	1	5 000-2	2 950+0	54 101	27	TOTAL
N	67-HO-174	1	1	1 027-1	1 433-0	70 1040	751	TOTAL
N	67-HO-175	1	1	3 300-1	4 050-1	65 1058	11	TOTAL
N	67-HO-176	1	1	3 010-1	5 600+0	68 2018	5	TOTAL
N	67-HO-177	1	1	8 000-1	9 023+0	74 3995	588	TOTAL
N	67-HO-178	1	1	8 310-1	1 090+0	70 3744	6	TOTAL
N	67-HO-179	1	1	1 063+0	2 002+0	69 3310	101	TOTAL
N	67-HO-180	1	1	1 023+0	1 357+2	70 3149	103	TOTAL
N	67-HO-181	1	1	2 427+0	1 496+1	67 750	233	TOTAL
N	67-HO-182	1	1	8 050+0	1 500+1	56 1169	2	TOTAL
N	67-HO-183	1	1	1 400+1	1 400+1	65 1170	1	TOTAL
N	67-HO-184	1	1	1 479+1	1 888+1	73 3967	31	TOTAL
N	68-ER-NAT	1	1	3 400-10	2 504-9	66 2052	7	TOTAL
N	68-ER-NAT	1	1	6 700-10	2 95+7	63 2221	32	TOTAL
N	68-ER-NAT	1	1	1 030-9	6 500+7	60 2261	126	TOTAL
N	68-ER-NAT	1	1	5 490-9	2 950+7	67 2256	24	TOTAL
N	68-ER-NAT	1	1	2 530-8	2 530-8	52 437	1	TOTAL
N	68-ER-NAT	1	1	2 530-8	2 530-8	66 2221	1	TOTAL
N	68-ER-NAT	1	1	3 300-8	2 700+7	70 3627	4	TOTAL
N	68-ER-NAT	1	1	2 057+7	8 889+7	60 2243	88	TOTAL
N	68-ER-NAT	1	1	1 040-6	5 560-5	54 2327	77	TOTAL
N	68-ER-NAT	1	1	5 000-3	3 400-1	65 922	93	TOTAL
N	68-ER-NAT	1	1	8 000+1	2 970+0	53 101	23	TOTAL
N	68-ER-NAT	1	1	2 257+0	1 495+1	67 750	234	TOTAL
N	68-ER-NAT	1	1	1 314+1	1 560+1	58 324	3	TOTAL
N	68-ER-NAT	1	1	1 160+3	1 125+7	68 3316	121	TOTAL
N	68-ER-NAT	1	1	2 530-8	2 530-8	65 2430	1	TOTAL
N	68-ER-NAT	1	1	2 530-8	2 530-8	66 2274	1	TOTAL
N	68-ER-NAT	1	1	2 530-8	2 530-8	67 2263	1	TOTAL
N	68-ER-NAT	1	1	1 160-8	1 125+7	68 3316	121	TOTAL
N	68-ER-NAT	1	1	2 530-8	2 530-8	65 2430	1	TOTAL
N	68-ER-NAT	1	1	1 160-8	1 125+7	68 3316	121	TOTAL
N	68-ER-NAT	1	1	2 530-8	2 530-8	65 2430	1	TOTAL
N	68-ER-NAT	1	1	2 057+7	8 889+7	60 2243	84	TOTAL
N	68-ER-NAT	1	1	2 530-6	2 530-8	65 2430	1	TOTAL
N	68-EP-168	1	1	2 530-8	2 530-8	67 2263	1	TOTAL
N	68-EP-170	1	1	2 530-8	2 530-8	65 2430	1	TOTAL
N	68-EP-169	1	1	9 500-0	1 500-0	67 2256	63	TOTAL
N	68-EP-169	1	1	3 730-8	1 565-5	66 2244	362	TOTAL

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07/04/76

ECSIL -760u REACTION INDEX (REACTION NO. ORDERED)

C - 1

E-MIN-MEV E-MAX-MEV REFERENCE

POINTS REACTION DESCRIPTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
69-TM-169	1	1	3.502-7	3.200-6	71 3569	30	TOTAL
69-TM-169	N		2.556-5	5.000-5	72 3611	10400	TOTAL
69-TM-169	1	1	2.319-0	1.481-1	67 750	235	TOTAL
69-TM-170	1	1	5.000-8	1.000-4	74 3528	394	TOTAL
69-TM-171	1	1	5.000-8	1.000-4	74 3528	347	TOTAL
70-YB-NAT	1	1	1.750-9	2.400-7	63 2221	22	TOTAL
70-YB-NAT	1	1	1.750-9	4.050-7	67 2256	51	TOTAL
70-YB-NAT	1	1	2.530-8	2.530-8	66 2221	1	TOTAL
70-YB-NAT	1	1	2.530-8	2.530-8	68 2267	1	TOTAL
70-YB-NAT	1	1	7.350-8	7.350-8	61 2845	1	TOTAL
70-YB-NAT	1	1	1.510-7	2.944-5	54 2327	96	TOTAL
70-YB-NAT	1	1	5.000-2	2.950-2	55 2042	47	TOTAL
70-YB-NAT	1	1	7.000-1	9.074-0	74 3895	26	TOTAL
70-YB-NAT	1	1	2.487-0	1.472-1	67 750	642	TOTAL
70-YB-170	1	1	2.530-8	2.530-8	68 2267	231	TOTAL
70-YB-171	1	1	2.530-8	2.530-8	68 2267	1	TOTAL
70-YB-172	1	1	2.530-8	2.530-8	68 2267	1	TOTAL
70-YB-173	1	1	2.530-8	2.530-8	68 2267	1	TOTAL
70-YB-174	1	1	2.530-8	2.530-8	68 2267	1	TOTAL
70-YB-176	1	1	2.530-8	2.530-8	68 2267	1	TOTAL
71-LU-NAT	1	1	8.200-9	6.532-7	67 2256	58	TOTAL
71-LU-NAT	1	1	1.000-8	3.265-6	66 1533	387	TOTAL
71-LU-NAT	1	1	1.800-8	3.500-7	60 2270	79	TOTAL
71-LU-NAT	1	1	1.850-8	2.030-7	62 2521	23	TOTAL
71-LU-NAT	1	1	2.330-9	6.330-9	63 2521	11	TOTAL
71-LU-NAT	1	1	2.298-0	1.481-1	67 750	13	TOTAL
71-LU-175	1	1	1.180-8	3.500-7	60 2270	258	TOTAL
71-LU-176	1	1	1.180-8	7.500-7	80 2270	73	TOTAL
71-LU-176	1	1	1.800-8	5.034-7	60 2530	74	TOTAL
72-HF-NAT	1	1	6.100-10	1.400-7	61 2248	37	TOTAL
72-HF-NAT	1	1	1.750-8	3.281-7	61 2248	34	TOTAL
72-HF-NAT	1	1	2.530-8	2.530-8	62 437	1	TOTAL
72-HF-NAT	1	1	2.530-8	3.515-6	61 887	143	TOTAL
72-HF-NAT	1	1	9.510-7	8.593-3	53 2023	130	TOTAL
72-HF-NAT	1	1	2.300-3	2.300-3	50 247	1	TOTAL
72-HF-NAT	1	1	3.000-2	6.500-1	65 921	102	TOTAL
72-HF-NAT	1	1	5.000-2	2.950-0	53 101	22	TOTAL
72-HF-NAT	1	1	1.045-1	1.498-0	69 2385	444	TOTAL
72-HF-NAT	1	1	1.200-1	6.400-1	67 1638	27	TOTAL
72-HF-NAT	1	1	4.955-1	9.878-0	71 3341	687	TOTAL
72-HF-NAT	1	1	2.255-0	1.493-1	67 750	258	TOTAL
72-HF-174	1	1	1.400-1	1.400-1	56 232	1	TOTAL
72-HF-176	1	1	2.530-8	2.530-8	71 3763	1	TOTAL
72-HF-176	1	1	5.000-8	6.000-7	69 2986	20	TOTAL
72-HF-177	1	1	2.530-8	2.530-8	71 3763	1	TOTAL
72-HF-177	1	1	1.500-8	8.010-7	69 2986	21	TOTAL
72-HF-178	1	1	2.530-8	2.530-8	71 3763	1	TOTAL
72-HF-178	1	1	1.500-8	8.000-7	69 2986	21	TOTAL
72-HF-178	1	1	2.530-8	2.530-8	71 3763	1	TOTAL
72-HF-179	1	1	1.500-8	9.000-7	69 2986	21	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07:04/76

1000 REACTION INDEX REACTION NO. ORDERED

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TARGET CODE S E MIN-REV E MAX REV REFERENCE POINTS REACTION DESCRIPTION

N	72-H-173	1	2,530	0	2,530	0	71	3763	1	TOTAL
N	72-H-180	1	1,500	0	8,000	0	69	2986	21	TOTAL
N	72-H-180	1	2,530	0	2,530	0	71	3763	1	TOTAL
N	73-TA-NAT	1	2,020	0	2,835	0	60	1798	93	TOTAL
N	73-TA-NAT	1	2,100	0	2,252	0	67	2280	123	TOTAL
N	73-TA-NAT	1	2,531	0	8,216	0	55	2404	503	TOTAL
N	73-TA-NAT	1	7,000	0	8,350	0	70	3627	4	TOTAL
N	73-TA-NAT	1	8,250	0	9,434	0	55	2027	250	TOTAL
N	73-TA-NAT	1	1,981	0	1,084	0	58	458	297	TOTAL
N	73-TA-NAT	1	1,150	0	3,000	0	49	844	2	TOTAL
N	73-TA-NAT	1	7,970	0	2,390	0	56	511	18	TOTAL
N	73-TA-NAT	1	1,100	0	5,800	0	57	154	17	TOTAL
N	73-TA-NAT	1	1,200	0	1,000	0	53	100	1	TOTAL
N	73-TA-NAT	1	1,200	0	1,580	0	49	50	61	TOTAL
N	73-TA-NAT	1	3,000	0	6,500	0	65	921	102	TOTAL
N	73-TA-NAT	1	1,003	0	6,481	0	67	2017	443	TOTAL
N	73-TA-NAT	1	1,200	0	6,400	0	67	3638	27	TOTAL
N	73-TA-NAT	1	7,001	0	1,504	0	67	2281	565	TOTAL
N	73-TA-NAT	1	1,000	0	3,200	0	52	180	14	TOTAL
N	73-TA-NAT	1	1,002	0	2,001	0	71	3310	101	TOTAL
N	73-TA-NAT	1	2,261	0	1,486	0	67	750	243	TOTAL
N	73-TA-NAT	1	2,000	0	1,310	0	34	504	20	TOTAL
N	73-TA-NAT	1	3,300	0	5,102	0	55	3567	67	TOTAL
N	73-TA-NAT	1	4,500	0	7,100	0	55	235	1	TOTAL
N	73-TA-NAT	1	7,050	0	7,115	0	57	177	65	TOTAL
N	73-TA-NAT	1	1,314	0	1,445	0	57	32	5	TOTAL
N	73-TA-NAT	1	1,400	0	1,500	0	58	334	6	TOTAL
N	73-TA-NAT	1	1,730	0	1,500	0	59	61	4	TOTAL
N	73-TA-NAT	1	3,480	0	2,750	0	60	673	1	TOTAL
N	73-TA-NAT	1	3,400	0	1,900	0	53	310	30	TOTAL
N	73-TA-NAT	1	9,120	0	4,200	0	50	281	1	TOTAL
N	73-TA-182	1	2,530	0	3,246	0	64	2315	1229	TOTAL
N	73-TA-182	1	8,625	0	2,530	0	68	2315	1	TOTAL
N	74-W-NAT	1	2,020	0	2,878	0	63	2686	139	TOTAL
N	74-W-NAT	1	3,270	0	1,280	0	51	2044	93	TOTAL
N	74-W-NAT	1	1,150	0	3,000	0	49	844	34	TOTAL
N	74-W-NAT	1	1,440	0	2,860	0	55	2042	2	TOTAL
N	74-W-NAT	1	7,970	0	2,390	0	56	511	49	TOTAL
N	74-W-NAT	1	1,000	0	3,000	0	47	44	18	TOTAL
N	74-W-NAT	1	2,400	0	8,300	0	47	46	2	TOTAL
N	74-W-NAT	1	2,500	0	9,000	0	66	4017	6	TOTAL
N	74-W-NAT	1	3,000	0	6,500	0	65	921	5	TOTAL
N	74-W-NAT	1	3,500	0	1,330	0	50	185	101	TOTAL
N	74-W-NAT	1	1,019	0	6,490	0	66	1062	17	TOTAL
N	74-W-NAT	1	1,200	0	3,200	0	67	3638	270	TOTAL
N	74-W-NAT	1	8,500	0	1,481	0	52	80	27	TOTAL
N	74-W-NAT	1	2,255	0	1,290	0	67	750	15	TOTAL
N	74-W-NAT	1	2,700	0	1,290	0	54	504	21	TOTAL
N	74-W-NAT	1	4,100	0	4,100	0	55	296	246	TOTAL
N	74-W-NAT	1	5,360	0	6,280	0	69	3289	1	TOTAL
N	74-W-NAT	1	7,050	0	1,425	0	57	22	24	TOTAL
N	74-W-NAT	1	7,050	0	1,425	0	57	22	5	TOTAL

TARGET CODE S E MIN-REV E MAX REV REFERENCE POINTS REACTION DESCRIPTION

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C - 1

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
74-W -NAT	1	1.400+	1	1.400+	52 81	1	TOTAL
74-W -NAT	1	1.400+	1	1.400+	52 207	1	TOTAL
74-W -NAT	1	1.730+	1	2.880+	60 573	4	TOTAL
74-W -NAT	1	4.200+	1	4.200+	50 281	1	TOTAL
74-W -NAT	1	5.700+	3	5.700+	69 3160	1	TOTAL
74-W -NAT	1	2.650+	4	2.650+	71 3180	1	TOTAL
74-W -NAT	1	2.700+	4	2.700+	68 2350	1	TOTAL
N 74-W -NAT	1	3.400+	4	2.730+	74 3618	7	TOTAL
74-W -182	1	3.260-	6	6.446-	51 2044	75	TOTAL
74-W -182	1	1.019-	1	6.488-	66 1062	266	TOTAL
74-W -182	1	7.000-	1	1.507+	67 2281	547	TOTAL
74-W -182	1	2.272+	0	1.490+	67 750	252	TOTAL
74-W -183	1	3.260-	6	2.088-	51 2044	74	TOTAL
74-W -184	1	1.001-	1	6.485-	66 1062	268	TOTAL
74-W -184	1	7.000-	1	1.504+	67 2281	558	TOTAL
74-W -184	1	2.255+	0	1.481+	67 750	246	TOTAL
74-W -186	1	3.260-	6	5.221-	51 2044	72	TOTAL
74-W -186	1	1.019-	1	6.488-	66 1062	272	TOTAL
74-W -186	1	7.000-	1	1.507+	67 2281	482	TOTAL
N 74-W -186	1	2.278+	0	1.484+	67 750	248	TOTAL
75-RE-NAT	1	1.168-	8	9.986-	68 1990	92	TOTAL
N 75-RE-NAT	1	2.905-	6	3.335-	65 1886	744	TOTAL
75-RE-NAT	1	2.400-	3	1.922+	65 2299	110	TOTAL
75-RE-NAT	1	3.000-	2	6.500-	65 921	102	TOTAL
75-RE-NAT	1	5.400-	1	1.500+	67 2017	111	TOTAL
75-RE-NAT	1	2.260+	0	1.493+	67 750	245	TOTAL
75-RE-185	1	4.960-	9	1.116-	65 1886	82	TOTAL
75-RE-187	1	4.960-	9	1.116-	65 1886	82	TOTAL
76-OS-NAT	1	3.650-	7	1.620+	58 2041	489	TOTAL
76-OS-NAT	1	4.550-	6	2.817-	55 2027	278	TOTAL
76-OS-NAT	1	1.000-	3	1.000-	47 45	3	TOTAL
76-OS-NAT	1	3.000-	2	6.500-	65 921	92	TOTAL
N 76-OS-NAT	1	1.200-	1	6.400-	67 3638	27	TOTAL
76-OS-NAT	1	2.253+	0	1.483+	67 750	243	TOTAL
N 76-OS-187	1	5.780-	9	2.790-	69 3408	120	TOTAL
77-IR-NAT	1	2.000-	9	2.400-	58 2040	23	TOTAL
77-IR-NAT	1	2.530-	9	4.730-	58 1196	16	TOTAL
77-IR-NAT	1	1.029-	8	1.762-	66 1553	353	TOTAL
77-IR-NAT	1	6.600-	8	3.260-	47 261	71	TOTAL
77-IR-NAT	1	4.600-	7	1.515-	55 2022	127	TOTAL
N 77-IR-NAT	1	5.705-	7	7.614-	67 3864	20	TOTAL
77-IR-NAT	1	4.550-	6	2.817-	55 2027	232	TOTAL
77-IR-NAT	1	3.000-	2	6.500-	65 921	102	TOTAL
N 77-IR-NAT	1	1.200-	1	6.400-	67 3638	27	TOTAL
77-IR-NAT	1	2.254+	0	1.471+	67 750	243	TOTAL
77-IR-191	1	2.530-	8	2.530-	59 2549	1	TOTAL
77-IR-193	1	2.530-	8	2.530-	59 2549	1	TOTAL
78-PT-NAT	1	2.000-	9	6.100-	62 2161	46	TOTAL
78-PT-NAT	1	8.260-	6	1.650-	58 546	378	TOTAL
78-PT-NAT	1	5.210-	6	1.985-	55 981	147	TOTAL
78-PT-NAT	1	1.440-	4	2.860-	55 2042	49	TOTAL
78-PT-NAT	1	1.000-	3	1.000-	47 44	3	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 1

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
80-HG-NAT	1	4.100+	0	4.100+ 0	60 576	1	TOTAL
80-HG-NAT	1	1.300+	1	1.620+ 1	55 133	7	TOTAL
80-HG-NAT	1	1.400+	1	1.400+ 1	52 81	1	TOTAL
80-HG-NAT	1	2.540+	1	2.540+ 1	45 307	1	TOTAL
80-HG-NAT	1	2.840+	1	2.840+ 1	61 233	1	TOTAL
80-HG-NAT	1	4.200+	1	4.200+ 1	50 281	1	TO AL
80-HG-NAT	1	6.100+	1	1.000+ 2	55 282	12	TOTAL
81-TL-NAT	1	1.310-	5	3.850- 3	58 903	42	TOTAL
81-TL-NAT	1	1.880-	5	9.976- 3	62 1955	522	TOTAL
81-TL-NAT	1	8.380-	5	5.370- 4	55 2324	65	TOTAL
81-TL-NAT	1	1.150-	4	3.000- 4	49 844	2	TOTAL
81-TL-NAT	1	3.800-	3	5.810- 2	61 737	77	TOTAL
81-TL-NAT	1	6.000-	3	1.900- 1	65 922	44	TOTAL
81-TL-NAT	1	1.140-	2	8.100- 2	57 154	111	TOTAL
N 81-TL-NAT	1	1.100-	1	6.500- 1	57 3638	110	TOTAL
81-TL-NAT	1	4.201-	1	3.197+ 1	70 2517	5633	TOTAL
81-TL-NAT	1	5.000-	1	4.100+ 0	65 1950	4	TOTAL
81-TL-NAT	1	2.254+	0	1.490+ 1	67 750	243	TOTAL
81-TL-NAT	1	2.750+	0	1.304+ 1	54 504	31	TOTAL
81-TL-NAT	1	7.150+	0	1.407+ 1	57 22	5	TOTAL
81-TL-NAT	1	1.400+	1	1.400+ 1	52 81	1	TOTAL
N 81-TL-NAT	1	1.500+	1	1.620+ 1	55 133	2	TOTAL
81-TL-NAT	1	1.500+	1	1.620+ 1	58 975	2	TOTAL
81-TL-NAT	1	1.750+	1	2.890+ 1	60 673	4	TOTAL
81-TL-203	1	4.000-	3	3.000- 2	61 737	68	TOTAL
81-TL-205	1	3.900-	3	5.710- 2	61 737	86	TOTAL
82-PB-NAT	1	1.264-	6	4.554- 6	56 2440	20	TOTAL
82-PB-NAT	1	1.440-	6	1.440- 6	65 949	1	TOTAL
N 82-PB-NAT	1	2.140-	5	3.959- 4	72 4046	10	TOTAL
82-PB-NAT	1	1.150-	4	3.000- 4	49 844	2	TOTAL
82-PB-NAT	1	2.097-	4	2.056- 2	58 903	89	TOTAL
82-PB-NAT	1	1.240-	2	8.070- 2	53 143	104	TOTAL
82-PB-NAT	1	1.800-	2	7.610- 1	49 52	105	TOTAL
82-PB-NAT	1	2.030-	2	3.420- 2	56 273	50	TOTAL
N 82-PB-NAT	1	1.000-	1	6.600- 1	67 3638	30	TOTAL
82-PB-NAT	1	2.920-	1	7.500- 1	50 59	27	TOTAL
82-PB-NAT	1	3.040-	1	7.560- 1	61 732	153	TOTAL
82-PB-NAT	1	4.500-	1	2.550+ 0	61 1000	8	TOTAL
N 82-PB-NAT	1	4.600-	1	2.990+ 0	66 4017	11	TOTAL
82-PB-NAT	1	4.726-	1	1.457+ 1	71 3161	3454	TOTAL
82-PB-NAT	1	6.000-	1	1.207+ 0	65 1683	175	TOTAL
82-PB-NAT	1	6.100-	1	2.350+ 0	50 315	31	TOTAL
82-PB-NAT	1	7.332-	1	4.364+ 0	68 2478	857	TOTAL
82-PB-NAT	1	7.870-	1	1.475+ 0	49 50	15	TOTAL
82-PB-NAT	1	9.000-	1	9.000- 1	41 170	1	TOTAL
82-PB-NAT	1	1.000+	0	4.140+ 0	60 600	65	TOTAL
82-PB-NAT	1	1.001+	0	8.096+ 0	71 3341	434	TOTAL
82-PB-NAT	1	1.005+	0	3.210+ 0	52 80	16	TOTAL
82-PB-NAT	1	1.995+	0	1.005+ 1	67 1508	339	TOTAL
82-PB-NAT	1	2.000+	0	5.680+ 0	51 336	15	TOTAL
82-PB-NAT	1	2.100+	0	3.195+ 0	58 617	19	TOTAL
82-PB-NAT	1	2.250+	0	2.745+ 0	57 817	14	TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 1

07/24/76

ECSIL-60C REACTION INDEX (REACTION NO. ORDERED)

C • 1

TARGET	CODE	S E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
82-P8-NAT	1	2.453	0	7.543	0	67 1747
82-P8-NAT	1	2.451	0	1.491	1	67 750
82-P8-NAT	1	2.930	0	1.309	1	53 504
82-P8-NAT	1	3.770	0	3.770	0	53 297
82-P8-NAT	1	4.000	0	4.000	0	67 1643
82-P8-NAT	1	4.050	0	8.100	0	58 400
82-P8-NAT	1	4.100	0	4.100	0	55 296
82-P8-NAT	1	5.350	0	6.200	0	68 1388
82-P8-NAT	1	7.173	0	1.425	1	57 22
82-P8-NAT	1	6.940	0	8.940	0	69 2025
82-P8-NAT	1	1.263	1	1.280	1	55 116
82-P8-NAT	1	1.300	1	1.650	1	55 133
82-P8-NAT	1	1.314	1	1.560	1	58 324
82-P8-NAT	1	1.377	1	1.476	1	58 349
82-P8-NAT	1	1.390	1	1.390	1	51 65
82-P8-NAT	1	1.398	1	1.398	1	63 766
82-P8-NAT	1	1.400	1	1.400	1	52 81
82-P8-NAT	1	1.400	1	1.400	1	52 207
82-P8-NAT	1	1.470	1	1.470	1	62 1740
82-P8-NAT	1	1.480	1	1.480	1	71 3815
82-P8-NAT	1	1.480	1	1.480	1	69 2988
82-P8-NAT	1	1.580	1	1.175	2	61 789
82-P8-NAT	1	1.730	1	2.880	1	60 673
82-P8-NAT	1	1.900	1	1.900	1	53 274
82-P8-NAT	1	3.700	1	1.530	2	53 355
82-P8-NAT	1	4.200	1	4.200	1	50 281
82-P8-NAT	1	4.750	1	8.800	1	54 343
82-P8-NAT	1	6.100	1	1.068	2	55 282
82-P8-NAT	1	6.150	1	1.079	2	54 339
82-P8-NAT	1	9.000	1	9.000	1	49 286
82-P8-NAT	1	9.500	1	9.500	1	50 12
82-P8-NAT	1	9.940	1	1.519	2	68 2189
82-P8-NAT	1	3.790	2	1.731	1	71 3264
82-P8-NAT	1	1.400	3	1.400	3	55 2056
82-P8-NAT	1	3.800	3	3.800	3	70 3195
82-P8-NAT	1	3.000	3	5.000	3	61 1366
82-P8-NAT	1	3.700	3	5.700	3	62 3160
82-P8-NAT	1	1.300	3	8.350	3	62 1557
82-P8-NAT	1	1.200	4	2.650	4	71 3180
82-P8-NAT	1	2.700	4	2.700	4	68 2250
82-P8-NAT	1	1.430	4	2.730	5	67 3816
82-P8-NAT	1	1.560	5	6.550	1	62 1965
82-P8-NAT	1	5.300	5	6.510	1	62 1945
82-P8-NAT	1	2.282	0	1.499	1	57 720
82-P8-NAT	1	1.400	1	1.400	1	57 21
82-P8-NAT	1	1.420	1	1.420	1	62 1869
82-P8-NAT	1	1.050	2	5.930	2	64 988
82-P8-NAT	1	1.300	2	3.250	2	61 737
82-P8-NAT	1	3.300	2	3.300	2	62 719
82-P8-NAT	1	6.080	2	4.100	0	65 1950
82-P8-NAT	1					156 TOTAL

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07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

82-PB-207	1	1.420+	1	1.420+	1	67 1869	1	TOTAL
82-PB-208	1	2.350+	2	6.780-	2	67 1937	120	TOTAL
82-PB-209	1	4.000-	2	7.320-	1	62 719	1290	TOTAL
82-PB-208	1	5.000-	1	4.100+	0	65 1950	4	TOTAL
82-PB-208	1	5.400-	1	4.320+	0	61 1306	176	TOTAL
82-PB-208	1	7.180-	1	1.892+	0	62 746	515	TOTAL
82-PB-208	1	2.491+	0	1.491+	1	67 750	231	TOTAL
82-PB-208	1	1.420+	1	1.420+	1	67 1869	1	TOTAL
RADIO LEAD	1	1.030-	2	8.450-	2	64 998	137	TOTAL
RADIO LEAD	1	8.400-	1	3.210+	0	52 80	15	TOTAL
83-B1-209	1	2.463+	0	7.543+	0	67 1747	164	TOTAL
83-B1-209	1	8.700-	10	6.350-	8	53 2332	69	TOTAL
83-B1-209	1	1.440-	6	1.440-	6	65 949	1	TOTAL
83-B1-209	1	4.897-	6	4.897-	6	55 1471	1	TOTAL
83-B1-209	1	2.840-	5	1.670-	3	58 903	36	TOTAL
83-B1-209	1	1.150-	4	3.000-	4	59 844	2	TOTAL
83-B1-209	1	1.440-	4	2.860-	1	55 2042	49	TOTAL
83-B1-209	1	2.000-	4	7.840-	2	56 142	120	TOTAL
83-B1-209	1	2.003-	4	5.980-	1	65 814	3947	TOTAL
83-B1-209	1	8.506-	4	5.500-	2	54 970	24	TOTAL
83-B1-209	1	5.700-	3	2.000-	3	55 269	15	TOTAL
83-B1-209	1	1.350-	3	1.573-	2	63 1974	97	TOTAL
83-B1-209	1	8.000-	2	1.369-	1	69 723	363	TOTAL
83-B1-209	1	1.000-	2	5.500-	1	67 363	419	TOTAL
83-B1-209	1	1.100-	1	6.500-	1	69 2515	1062	TOTAL
83-B1-209	1	2.060-	1	1.400+	0	57 2310	1	TOTAL
83-B1-209	1	2.200-	1	2.200-	1	57 2317	5632	TOTAL
83-B1-209	1	4.201-	1	3.197+	1	70 2517	1	TOTAL
83-B1-209	1	4.500-	1	2.550+	0	61 1000	8	TOTAL
83-B1-209	1	5.000-	1	4.100+	0	65 1950	4	TOTAL
83-B1-209	1	5.160-	1	1.397+	0	48 48	11	TOTAL
83-B1-209	1	1.000+	0	3.210+	0	52 80	9	TOTAL
83-B1-209	1	1.000+	0	4.830+	0	74 4009	33	TOTAL
83-B1-209	1	2.160+	0	3.200+	0	58 617	10	TOTAL
83-B1-209	1	2.376+	0	1.490+	1	67 750	236	TOTAL
83-B1-209	1	2.463+	0	7.543+	0	67 1747	164	TOTAL
83-B1-209	1	2.920+	0	1.320+	1	53 504	34	TOTAL
83-B1-209	1	3.190+	0	5.150+	0	65 1804	37	TOTAL
83-B1-209	1	3.700+	0	3.700+	0	54 303	1	TOTAL
83-B1-209	1	4.000+	0	4.000+	0	67 1643	1	TOTAL
83-B1-209	1	4.100+	0	4.100+	0	55 296	1	TOTAL
83-B1-209	1	7.010+	0	1.437+	1	57 22	5	TOTAL
83-B1-209	1	1.300+	1	1.620+	1	55 133	7	TOTAL
83-B1-209	1	1.400+	1	1.400+	1	52 81	1	TOTAL
83-B1-209	1	1.400+	1	1.400+	1	55 267	1	TOTAL
83-B1-209	1	1.400+	1	1.400+	1	55 262	1	TOTAL
83-B1-209	1	1.420+	1	1.420+	1	57 1869	1	TOTAL
83-B1-209	1	1.470+	1	1.470+	1	71 3815	1	TOTAL
83-B1-209	1	1.476+	1	1.476+	1	65 3597	1	TOTAL
83-B1-209	1	1.480+	1	1.480+	1	57 368	1	TOTAL
83-B1-209	1	1.730+	1	2.350+	1	60 673	4	TOTAL

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSL-630 REACTION INDEX REACTION NO. ORDERED

POINTS REACTION DESCRIPTION

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
93-B1-209	1	1.900*	1	1.900*	1	53	274
93-B1-209	1	1.200*	1	1.200*	1	50	281
93-B1-209	1	1.620*	2	1.620*	2	53	1395
93-B1-209	1	1.731*	3	1.731*	3	71	3284
93-B1-209	1	1.400*	3	1.400*	3	55	2056
93-B1-209	1	2.210*	5	2.210*	5	96	1901
93-B1-209	1	2.210*	8	2.210*	8	71	4047
93-B1-209	1	1.783*	5	1.783*	5	66	1344
93-B1-209	1	3.866*	7	3.866*	7	61	246
93-B1-209	1	2.170*	8	2.170*	8	66	1490
93-B1-209	1	2.500*	8	2.500*	8	69	2196
93-B1-209	1	3.340*	9	3.340*	9	68	2536
93-B1-209	1	8.101*	9	8.101*	9	54	178
93-B1-209	1	2.000*	8	2.000*	8	51	242
93-B1-209	1	1.400*	6	1.400*	6	65	949
93-B1-209	1	5.890*	6	5.890*	6	54	459
93-B1-209	1	2.331*	3	2.331*	3	55	386
93-B1-209	1	1.528*	3	1.528*	3	94	371
93-B1-209	1	5.823*	3	5.823*	3	53	520
93-B1-209	1	2.123*	4	2.123*	4	65	814
93-B1-209	1	6.700*	3	6.700*	3	64	3650
93-B1-209	1	1.550*	1	1.550*	1	21	6
93-B1-209	1	3.500*	1	3.500*	1	26	1566
93-B1-209	1	1.000*	2	1.000*	2	56	1326
93-B1-209	1	1.030*	1	1.030*	1	53	361
93-B1-209	1	1.960*	1	1.960*	1	73	390
93-B1-209	1	4.500*	1	4.500*	1	67	3558
93-B1-209	1	5.009*	0	5.009*	0	51	1058
93-B1-209	1	1.470*	0	1.470*	0	71	3700
93-B1-209	1	6.635*	0	6.635*	0	66	1511
93-B1-209	1	6.000*	0	6.000*	0	61	591
93-B1-209	1	1.448*	1	1.448*	1	63	330
93-B1-209	1	2.000*	0	2.000*	0	55	1284
93-B1-209	1	2.253*	0	2.253*	0	67	750
93-B1-209	1	3.340*	0	3.340*	0	65	3655
93-B1-209	1	3.370*	0	3.370*	0	60	643
93-B1-209	1	1.400*	1	1.400*	1	52	81
93-B1-209	1	2.840*	1	2.840*	1	61	233
93-B1-209	1	4.200*	1	4.200*	1	50	281
93-B1-209	1	523*	8	523*	8	52	410
93-B1-209	1	1.100*	8	1.100*	8	56	1308
93-B1-209	1	2.530*	8	2.530*	8	67	1309
93-B1-209	1	1.000*	9	1.000*	9	74	178
93-B1-209	1	1.890*	9	1.890*	9	54	1041
93-B1-209	1	1.000*	6	1.000*	6	75	237
93-B1-209	1	3.300*	8	3.300*	8	51	26
93-B1-209	1	1.050*	6	1.050*	6	52	180
93-B1-209	1	3.650*	6	3.650*	6	55	862

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 1

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	92-U	-NAT	1	6.700-	4	1.550- 1	53 184	135 TOTAL
N	92-U	-NAT	1	1.000-	2	2.950- 1	66 4017	14 TOTAL
	92-U	-NAT	1	2.000-	2	1.412+ 0	50 314	63 TOTAL
	92-U	-NAT	1	1.000-	1	2.000+ 1	54 105	41 TOTAL
11	92-U	-NAT	1	1.500-	1	6.000- 1	67 3638	10 TOTAL
	92-U	-NAT	1	5.000-	1	4.350+ 0	70 3330	3162 TOTAL
	92-U	-NAT	1	8.180-	1	1.490+ 0	65 1513	35 TOTAL
	92-U	-NAT	1	9.000-	1	9.000- 1	41 170	1 TOTAL
	92-U	-NAT	1	1.610+	0	1.448+ 1	63 330	74 TOTAL
	92-U	-NAT	1	2.254+	0	1.491+ 1	67 750	244 TOTAL
	92-U	-NAT	1	2.900+	0	1.410+ 1	54 504	20 TOTAL
N	92-U	-NAT	1	3.340+	0	5.105+ 0	65 3667	60 TOTAL
	92-U	-NAT	1	1.360+	1	1.476+ 1	58 349	22 TOTAL
	92-U	-NAT	1	1.400+	1	1.400+ 1	52 81	1 TOTAL
	92-U	-NAT	1	1.480+	1	1.480+ 1	50 368	1 TOTAL
	92-U	-NAT	1	1.580+	1	1.175+ 2	61 789	60 TOTAL
	92-U	-NAT	1	1.797+	1	2.007+ 1	53 274	3 TOTAL
	92-U	-NAT	1	2.840+	1	2.840+ 1	61 233	1 TOTAL
	92-U	-NAT	1	4.600+	1	1.620+ 2	53 1395	10 TOTAL
	92-U	-NAT	1	9.000+	1	9.000+ 1	49 286	1 TOTAL
	92-U	-NAT	1	3.790+	2	1.731+ 3	71 326	15 TOTAL
	92-U	-NAT	1	1.400+	3	1.400+ 3	55 2056	1 TOTAL
	92-U	-NAT	1	5.700+	3	5.700+ 3	69 3160	1 TOTAL
	92-U	-NAT	1	2.700+	4	2.700+ 4	68 2350	1 TOTAL
	92-U	-232	1	1.000-	8	9.292- 3	66 1308	931 TOTAL
N	92-U	-232	1	2.000-	2	3.500- 1	66 4017	8 TOTAL
	92-U	-233	1	8.180-	10	6.180- 8	60 1396	33 TOTAL
	92-U	-233	1	1.568-	8	1.140- 5	56 1409	265 TOTAL
	92-U	-233	1	5.690-	9	1.100- 7	55 1470	35 TOTAL
	92-U	-233	1	1.000-	8	1.000- 4	55 965	133 TOTAL
N	92-U	-233	1	1.822-	8	3.000- 5	74 3802	1359 TOTAL
	92-U	-233	1	1.840-	8	9.580- 8	60 935	40 TOTAL
	92-U	-233	1	1.840-	8	8.332- 3	63 413	1528 TOTAL
	92-U	-233	1	2.030-	8	2.169- 4	60 1249	1071 TOTAL
N	92-U	-233	1	3.250-	8	9.390- 7	73 4074	29 TOTAL
	92-U	-233	1	3.400-	8	9.200- 7	52 54	19 TOTAL
	92-U	-233	1	3.500-	8	1.104- 5	65 1011	673 TOTAL
	92-U	-233	1	3.000-	7	1.126- 5	55 1471	255 TOTAL
N	92-U	-233	1	6.769-	7	7.535- 4	70 3601	11454 TOTAL
	92-U	-233	1	1.860-	6	6.890- 5	55 902	343 TOTAL
	92-U	-233	1	1.000-	5	1.150- 4	54 467	101 TOTAL
	92-U	-233	1	8.974-	5	1.551- 2	58 1440	222 TOTAL
	92-U	-233	1	3.400-	3	1.611+ 0	62 1343	45 TOTAL
	92-U	-233	1	1.000-	2	1.610+ 0	61 668	23 TOTAL
C	92-U	-233	1	5.049-	1	9.887+ 0	73 3341	696 TOTAL
	92-U	-233	1	5.049-	1	9.916+ 0	71 3341	1384 TOTAL
	92-U	-233	1	2.257+	0	1.495+ 1	67 750	244 TOTAL
C	92-U	-234	1	1.020-	8	2.030- 5	58 436	97 TOTAL
	92-U	-234	1	1.990-	8	4.440- 8	59 948	25 TOTAL
	92-U	-234	1	2.700-	6	6.900- 4	58 1116	260 TOTAL
	92-U	-235	1	8.180-	10	8.180- 8	59 1286	31 TOTAL
	92-U	-235	1	1.730-	9	1.620- 7	55 1460	55 TOTAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 1

TARGET CODE S E-MIN-NEV E MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

92-U-235	1	1.730	0	58 1196	10	TOTAL
92-U-235	1	1.730	0	58 1196	21	TOTAL
92-U-235	1	1.730	0	57 918	56	TOTAL
92-U-235	1	1.730	0	55 902	132	TOTAL
92-U-235	1	1.730	0	55 965	233	TOTAL
92-U-235	1	1.730	0	58 1222	2	TOTAL
92-U-235	1	1.730	0	58 1463	41	TOTAL
92-U-235	1	1.730	0	60 935	115	TOTAL
92-U-235	1	1.730	0	60 1030	130	TOTAL
92-U-235	1	2.100	0	62 1359	1	TOTAL
92-U-235	1	2.500	0	54 1300	1	TOTAL
92-U-235	1	2.530	0	53 1384	1	TOTAL
92-U-235	1	2.530	0	54 1279	2418	TOTAL
92-U-235	1	3.500	0	65 1011	27	TOTAL
92-U-235	1	4.750	0	73 4074	461	TOTAL
92-U-235	1	8.770	0	58 406	221	TOTAL
92-U-235	1	4.500	0	55 1037	458	TOTAL
92-U-235	1	1.050	5	56 1038	2405	TOTAL
92-U-235	1	1.730	5	65 814	57	TOTAL
92-U-235	1	1.500	0	66 1328	194	TOTAL
92-U-235	1	2.130	0	7.856	4	TOTAL
92-U-235	1	2.684	0	7.585	4	TOTAL
92-U-235	1	6.550	0	1.550	134	TOTAL
92-U-235	1	7.242	0	9.974	3981	TOTAL
92-U-235	1	1.000	3	1.600	2	TOTAL
92-U-235	1	2.000	3	2.000	4033	TOTAL
92-U-235	1	5.023	0	2.697	1	TOTAL
92-U-235	1	4.050	0	5.990	71	TOTAL
92-U-235	1	1.070	1	5.990	398	TOTAL
92-U-235	1	1.050	1	1.277	1934	TOTAL
92-U-235	1	4.960	1	1.517	1680	TOTAL
92-U-235	1	5.000	1	9.500	4	TOTAL
92-U-235	1	8.063	1	9.915	688	TOTAL
92-U-235	1	1.500	0	2.300	69	TOTAL
92-U-235	1	1.800	0	8.000	3	TOTAL
92-U-235	1	2.253	0	1.490	16	TOTAL
92-U-235	1	1.050	0	1.425	486	TOTAL
92-U-235	1	1.730	1	2.890	5	TOTAL
92-U-235	1	1.950	0	1.680	4	TOTAL
92-U-235	1	2.750	0	7.000	53	TOTAL
92-U-235	1	4.100	0	9.500	241	TOTAL
92-U-235	1	1.570	0	2.820	15	TOTAL
92-U-235	1	1.120	0	7.000	92	TOTAL
92-U-235	1	2.005	0	3.910	27	TOTAL
92-U-235	1	2.205	0	7.800	401	TOTAL
92-U-235	1	2.461	0	1.407	31	TOTAL
92-U-235	1	2.000	0	1.625	6788	TOTAL
92-U-235	1	1.100	0	1.942	10816	TOTAL
92-U-235	1	1.150	0	1.150	44	TOTAL
92-U-235	1	6.500	0	9.500	570	TOTAL
92-U-235	1	6.500	0	9.500	34	TOTAL

TARGET CODE S E-MIN-NEV E MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 1

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	92-U	-238	1	3.000-	2 6.500-	1 64 381	102	TOTAL
	92-U	-238	1	1.022-	1 1.498+	0 69 2849	523	TOTAL
N	92-U	-238	1	1.120-	1 1.200+	0 73 3945	303	TOTAL
C	92-U	-238	1	4.838-	1 1.520+	1 73 3255	1706	TOTAL
	92-U	-238	1	5.000-	1 9.500-	1 60 696	4	TOTAL
	92-U	-238	1	6.067-	1 1.403+	0 69 2848	5	TOTAL
	92-U	-238	1	7.004-	1 2.999+	1 72 3238	747	TOTAL
N	92-U	-238	1	1.700+	0 1.430+	1 74 4014	12	TOTAL
	92-U	-238	1	2.000+	0 7.000+	0 65 1264	4	TOTAL
	92-U	-238	1	2.254+	0 1.491+	1 67 750	488	TOTAL
	92-U	-238	1	2.700+	0 2.700+	0 67 1527	1	TOTAL
	92-U	-238	1	7.050+	0 1.425+	1 57 22	5	TOTAL
	92-U	-238	1	1.410+	1 1.410+	1 68 2065	1	TOTAL
	92-U	-238	1	1.467+	1 1.467+	1 61 711	1	TOTAL
	92-U	-238	1	1.730+	1 2.890+	1 60 673	4	TOTAL
	92-U	-238	1	4.200+	1 4.200+	1 50 281	1	TOTAL
	92-U	-238	1	9.500+	1 9.500+	1 50 12	1	TOTAL
	92-U	-238	1	9.940+	1 1.519+	2 68 2189	6	TOTAL
N	92-U	-238	1	3.400+	4 2.730+	5 74 3618	7	TOTAL
	UO2		1	1.281-	9 8.180-	8 68 2191	125	TOTAL
	93-NP	-237	1	8.400-	9 9.700-	6 55 956	88	TOTAL
	93-NP	-237	1	2.016-	8 2.876-	6 57 982	310	TOTAL
	93-NP	-237	1	2.157-	7 4.133-	5 61 948	744	TOTAL
N	93-NP	-237	1	6.263-	7 3.998-	3 73 1498	13789	TOTAL
	93-NP	-237	1	2.700-	6 1.200-	2 59 69	190	TOTAL
	94-PU	-238	1	8.200-	9 6.496-	3 67 1387	595	TOTAL
	94-PU	-238	1	2.530-	8 2.530-	8 62 1210	1	TOTAL
	94-PU	-239	1	1.140-	9 6.550-	7 55 995	174	TOTAL
	94-PU	-239	1	1.570-	9 1.870-	5 56 958	179	TOTAL
	94-PU	-239	1	2.910-	9 1.000-	7 61 1288	17	TOTAL
	94-PU	-239	1	4.070-	9 7.320-	7 51 308	98	TOTAL
	94-PU	-239	1	1.250-	8 1.100-	4 55 965	135	TOTAL
	94-PU	-239	1	1.380-	8 8.870-	5 58 936	324	TOTAL
	94-PU	-239	1	2.530-	8 2.530-	8 45 1246	1	TOTAL
	94-PU	-239	1	2.530-	8 5.000-	7 56 989	22	TOTAL
	94-PU	-239	1	2.250-	7 7.933-	2 58 959	508	TOTAL
	94-PU	-239	1	1.602-	6 1.023-	5 65 1011	337	TOTAL
N	94-PU	-239	1	5.400-	6 3.999-	3 75 3919	17684	TOTAL
	94-PU	-239	1	5.460-	6 1.208-	4 57 964	742	TOTAL
	94-PU	-239	1	3.724-	5 4.707-	4 64 988	4090	TOTAL
	94-PU	-239	1	3.800-	5 1.065-	4 64 966	153	TOTAL
	94-PU	-239	1	1.500-	3 1.600-	1 54 6	2	TOTAL
	94-PU	-239	1	2.000-	3 2.000-	3 2 69 2905	1	TOTAL
	94-PU	-239	1	4.000-	2 2.000+	1 52 951	81	TOTAL
N	94-PU	-239	1	1.600-	1 5.990+	0 73 3945	148	TOTAL
C	94-PU	-239	1	4.960-	1 1.517+	1 73 3255	1680	TOTAL
C	94-PU	-239	1	6.505-	1 1.499+	0 72 3146	392	TOTAL
	94-PU	-239	1	2.258+	0 1.496+	1 67 750	243	TOTAL
	94-PU	-239	1	7.050+	0 1.425+	1 57 22	5	TOTAL
	94-PU	-239	1	1.730+	1 2.890+	1 60 673	4	TOTAL
	94-PU	-240	1	1.100-	9 1.372-	6 58 959	48	TOTAL
	94-PU	-240	1	2.050-	8 1.520-	7 59 948	40	TOTAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 1

07/04/76

ECSIL-600 REACTION INDEX (REACTION NO. ORDERED)

C * 1

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-240	1		2.530	-8	7.884 -7	59 1105	289 TOTAL
94-PU-240	1		3.550	-8	4.320 -5	57 1394	216 TOTAL
94-PU-240	1		8.176	-7	1.414 -6	56 1106	52 TOTAL
94-PU-240	1		9.640	-7	1.136 -6	59 1136	50 TOTAL
94-PU-240	1		1.966	-5	5.705 -3	66 3612	38562 TOTAL
94-PU-240	1		1.160	-1	1.467 -0	71 3146	55 TOTAL
94-PU-241	1		1.040	-9	3.554 -6	74 3502	363 TOTAL
94-PU-241	1		1.050	-8	5.400 -7	58 1111	45 TOTAL
94-PU-241	1		1.596	-8	6.324 -4	61 1112	1753 TOTAL
94-PU-241	1		2.500	-8	1.000 -3	64 1113	718 TOTAL
94-PU-241	1		2.530	-8	2.530 -8	69 2903	1 TOTAL
94-PU-241	1		6.790	-7	7.346 -4	70 3603	6990 TOTAL
94-PU-241	1		2.342	-6	2.086 -4	64 1114	2079 TOTAL
94-PU-242	1		1.300	-9	7.726 -3	68 1446	1017 TOTAL
94-PU-242	1		1.330	-9	2.006 -6	71 3217	79 TOTAL
94-PU-242	1		2.500	-8	3.882 -4	66 1082	183 TOTAL
94-PU-242	1		2.336	-6	5.470 -5	59 1115	50 TOTAL
95-AM-241	1		6.050	-9	8.210 -5	55 956	178 TOTAL
95-AM-241	1		2.550	-7	4.135 -5	59 948	453 TOTAL
95-AM-241	1		7.846	-7	1.077 -3	75 3806	13840 TOTAL
95-AM-243	1		1.380	-9	1.544 -5	59 1115	200 TOTAL
95-AM-243	1		8.040	-9	2.560 -5	70 2097	922 TOTAL
95-AM-243	1		5.000	-7	1.003 -3	72 3497	8022 TOTAL
96-CM-244	1		2.530	-8	2.530 -8	72 3520	1 TOTAL
96-CM-244	1		4.273	-6	7.730 -4	64 1978	315 TOTAL
96-CM-245	1		2.530	-8	2.530 -8	72 3520	1 TOTAL
H20	1	9	1.011	-8	1.538 -5	67 1894	243 TOTAL
D20	1	9	5.012	-10	1.259 -5	74 4001	80 TOTAL
D20	1	9	1.005	-8	9.405 -6	71 3337	984 TOTAL
2-HE-NAT	1	9	2.830	-10	9.100 -9	55 1611	73 TOTAL
4-BE-9	1	9	2.310	-10	1.420 -9	55 2057	82 TOTAL
6-C -N	1	9	4.200	-10	1.940 -9	55 2057	82 TOTAL
7-N -NAT	1	9	4.704	-1	2.504 -1	70 2864	3547 TOTAL
10-NE-NAT	1	9	3.000	-10	2.900 -9	60 822	13 TOTAL
12-MG-NAT	1	9	3.970	-10	2.270 -9	55 2057	61 TOTAL
13-AL-27	1	9	2.050	-10	5.520 -9	55 2057	79 TOTAL
16-AR-NAT	1	9	3.700	-10	2.300 -9	60 822	11 TOTAL
24-CR-NAT	1	9	1.259	-10	2.840 -5	75 4015	280 TOTAL
26-FE-NAT	1	9	5.280	-10	5.980 -9	53 1838	74 TOTAL
29-CU-NAT	1	9	3.090	-10	6.240 -9	55 2057	77 TOTAL
29-CU-NAT	1	9	3.480	-10	2.064 -9	66 2052	11 TOTAL
40-ZR-NAT	1	9	3.810	-10	3.110 -9	55 2057	45 TOTAL
45-RH-103	1	9	6.275	-4	4.216 -3	66 2155	3675 TOTAL
50-SN-NAT	1	9	3.430	-10	3.060 -9	55 2057	29 TOTAL
82-PB-NAT	1	9	1.820	-10	5.870 -9	55 996	60 TOTAL
83-BI-209	1	9	1.730	-10	4.080 -9	55 2057	105 TOTAL
92-U -NAT	1	9	4.960	-9	2.830 -8	66 3659	64 TOTAL
92-U -235	1	9	7.490	-6	7.243 -4	64 963	5769 TOTAL
1-H -1	1	12	2.257	-8	5.400 -7	66 1573	393 TOTAL
29-CU-NAT	1	13	1.492	-6	2.827 -3	66 2054	1992 TOTAL
94-PU-240	1	80	9.640	-7	1.136 -6	59 1136	50 TOTAL
1-H -1	2	3	3.750	-1	1.200 -2	63 1563	12 ELASTIC

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C * 2

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C - 2

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	1-H -2	2	2,530-	8	2,530- 8	69 3454	1 ELASTIC
	1-H -2	2	1,350-	1	9,140- 1	53 89	6 ELASTIC
C	1-H -2	2	5,550+	0	2,300+ 1	69 3245	8 ELASTIC
	1-H -2	2	1,410+	1	1,410+ 1	53 464	1 ELASTIC
	1-H -2	2	1,410+	1	1,410+ 1	55 471	1 ELASTIC
N	1-H -2	2	1,410+	1	1,410+ 1	69 3770	1 ELASTIC
N	1-H -2	2	1,410+	1	1,410+ 1	72 3778	1 ELASTIC
	1-H -2	2	1,430+	1	1,430+ 1	68 2582	1 ELASTIC
	1-H -2	2	3,600+	1	4,630+ 1	70 2761	2 ELASTIC
	1-H -3	2	1,000+	0	6,000+ 0	60 555	4 ELASTIC
C	1-H -3	2	6,000+	0	2,300+ 1	69 3245	5 ELASTIC
	2-HE-NAT	2	2,020-	1	7,013+ 0	68 2372	2 ELASTIC
	2-HE-NAT	2	1,760+	1	2,370+ 1	71 3270	3 ELASTIC
	2-HE-NAT	2	6,000+	1	1,380+ 2	60 1609	3 ELASTIC
	2-HE-3	2	9,500-	1	1,750+ 1	61 578	5 ELASTIC
	2-HE-3	2	1,000+	0	6,000+ 0	60 555	4 ELASTIC
N	2-HE-3	2	7,900+	0	2,370+ 1	74 3537	5 ELASTIC
	3-L1-NAT	2	1,450+	0	4,210+ 0	59 579	2 ELASTIC
	3-L1-6	2	1,000+	0	2,300+ 0	67 1899	14 ELASTIC
	3-L1-6	2	3,350+	0	7,540+ 0	63 841	6 ELASTIC
	3-L1-6	2	4,830+	0	7,500+ 0	68 1632	3 ELASTIC
	3-L1-6	2	1,400+	1	1,400+ 1	63 2335	1 ELASTIC
	3-L1-6	2	1,400+	1	1,400+ 1	65 1627	1 ELASTIC
	3-L1-6	2	1,410+	1	1,410+ 1	64 1633	1 ELASTIC
	3-L1-7	2	1,120+	0	2,300+ 0	68 2582	8 ELASTIC
	3-L1-7	2	1,500+	0	4,000+ 0	63 841	3 ELASTIC
	3-L1-7	2	3,350+	0	4,830+ 0	68 1632	2 ELASTIC
	3-L1-7	2	1,400+	1	1,400+ 1	63 2335	1 ELASTIC
	3-L1-7	2	1,400+	1	1,400+ 1	66 1640	1 ELASTIC
	3-L1-7	2	1,410+	1	1,410+ 1	64 1633	1 ELASTIC
	4-BE-9	2	3,000-	2	1,452+ 0	56 231	39 ELASTIC
	4-BE-9	2	5,000-	2	2,250+ 0	60 571	33 ELASTIC
	4-BE-9	2	4,500-	1	1,500+ 0	66 885	33 ELASTIC
	4-BE-9	2	5,400-	1	7,000- 1	55 121	3 ELASTIC
	4-BE-9	2	2,480+	0	3,460+ 0	60 1645	6 ELASTIC
	4-BE-9	2	3,000+	0	7,000+ 0	61 276	8 ELASTIC
	4-BE-9	2	4,000+	0	4,000+ 0	64 1643	1 ELASTIC
	4-BE-9	2	4,100+	0	6,000+ 0	59 500	3 ELASTIC
	4-BE-9	2	1,400+	1	1,400+ 1	58 402	1 ELASTIC
	4-BE-9	2	1,400+	1	1,400+ 1	66 2585	1 ELASTIC
	4-DE-9	2	1,420+	1	1,420+ 1	57 331	1 ELASTIC
	5-B -NAT	2	1,400+	1	1,400+ 1	62 1060	1 ELASTIC
N	5-B -NAT	2	1,400+	1	1,400+ 1	66 1648	1 ELASTIC
N	5-B -10	2	5,000-	3	2,240+ 0	71 3513	67 ELASTIC
	5-B -10	2	5,500-	1	1,500+ 0	55 121	3 ELASTIC
	5-B -10	2	2,032+	0	4,823+ 0	70 3794	7 ELASTIC
N	5-B -10	2	9,720+	0	9,720+ 0	70 3938	1 ELASTIC
	5-B -11	2	4,300-	1	1,500+ 0	55 121	5 ELASTIC
N	5-B -11	2	2,032+	0	4,823+ 0	70 3794	7 ELASTIC
	5-B -11	2	7,550+	0	7,550+ 0	69 2999	1 ELASTIC
N	5-B -11	2	9,720+	0	9,720+ 0	70 3938	1 ELASTIC
	6-C -NAT	2	5,000-	1	5,000- 1	64 886	1 ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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EC51-600 REACTION INDEX REACTION NO. ORDERED

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TARJET CODE 5 E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

N	6-C-NAT	2	2	5.000-0	2.000-0	69 3523	39	ELASTIC
	6-C-NAT	2	2	5.500-0	1.500-0	55 121	3	ELASTIC
N	6-C-NAT	2	2	2.630-0	2.630-0	73 3947	71	ELASTIC
	6-C-NAT	2	2	3.068-0	4.729-0	66 1667	71	ELASTIC
	6-C-NAT	2	2	4.000-0	5.000-0	64 1643	3	ELASTIC
	6-C-NAT	2	2	4.040-0	5.590-0	71 3214	3	ELASTIC
	6-C-NAT	2	2	4.210-0	7.580-0	59 579	13	ELASTIC
	6-C-NAT	2	2	4.600-0	8.560-0	69 3004	2	ELASTIC
	6-C-NAT	2	2	5.050-0	5.580-0	70 2969	3	ELASTIC
	6-C-NAT	2	2	6.000-0	7.000-0	59 544	1	ELASTIC
	6-C-NAT	2	2	6.040-0	6.040-0	65 869	1	ELASTIC
	6-C-NAT	2	2	1.400-0	1.400-0	58 402	1	ELASTIC
	6-C-NAT	2	2	1.400-0	1.400-0	62 1060	1	ELASTIC
	6-C-NAT	2	2	1.400-0	1.400-0	64 1861	1	ELASTIC
	6-C-NAT	2	2	1.400-0	1.400-0	66 1546	1	ELASTIC
	6-C-NAT	2	2	1.400-0	1.400-0	66 1658	1	ELASTIC
	6-C-NAT	2	2	1.410-0	1.410-0	59 560	1	ELASTIC
	6-C-NAT	2	2	1.410-0	1.410-0	64 845	1	ELASTIC
	6-C-NAT	2	2	1.410-0	1.410-0	65 1639	1	ELASTIC
	6-C-NAT	2	2	1.420-0	1.420-0	56 3732	1	ELASTIC
	6-C-NAT	2	2	1.430-0	1.430-0	57 331	1	ELASTIC
	6-C-NAT	2	2	1.450-0	1.450-0	59 463	1	ELASTIC
	6-C-NAT	2	2	1.460-0	1.460-0	63 1665	1	ELASTIC
	6-C-NAT	2	2	1.470-0	1.470-0	59 3709	1	ELASTIC
	6-C-NAT	2	2	1.480-0	1.480-0	74 3447	1	ELASTIC
	6-C-NAT	2	2	1.490-0	1.490-0	61 646	1	ELASTIC
	6-C-NAT	2	2	1.500-0	1.500-0	66 1352	1	ELASTIC
	6-C-NAT	2	2	1.510-0	1.510-0	61 1642	1	ELASTIC
	6-C-NAT	2	2	1.520-0	1.520-0	62 161	1	ELASTIC
	6-C-NAT	2	2	1.530-0	1.530-0	57 3661	1	ELASTIC
	6-C-NAT	2	2	1.540-0	1.540-0	64 852	1	ELASTIC
	6-C-NAT	2	2	1.550-0	1.550-0	51 801	1	ELASTIC
	6-C-NAT	2	2	1.560-0	1.560-0	51 1846	1	ELASTIC
	6-C-NAT	2	2	1.570-0	1.570-0	72 3232	1	ELASTIC
	6-C-NAT	2	2	1.580-0	1.580-0	67 546	1	ELASTIC
	6-C-NAT	2	2	1.590-0	1.590-0	67 1579	1	ELASTIC
	6-C-NAT	2	2	1.600-0	1.600-0	53 569	1	ELASTIC
	6-C-NAT	2	2	1.610-0	1.610-0	53 561	1	ELASTIC
	6-C-NAT	2	2	1.620-0	1.620-0	56 1691	1	ELASTIC
	6-C-NAT	2	2	1.630-0	1.630-0	57 3861	1	ELASTIC
	6-C-NAT	2	2	1.640-0	1.640-0	51 696	1	ELASTIC
	6-C-NAT	2	2	1.650-0	1.650-0	53 1899	1	ELASTIC
	6-C-NAT	2	2	1.660-0	1.660-0	56 885	1	ELASTIC
	6-C-NAT	2	2	1.670-0	1.670-0	64 886	1	ELASTIC
	6-C-NAT	2	2	1.680-0	1.680-0	52 714	1	ELASTIC
	6-C-NAT	2	2	1.690-0	1.690-0	65 1509	1	ELASTIC
	6-C-NAT	2	2	1.700-0	1.700-0	71 3793	1	ELASTIC
	6-C-NAT	2	2	1.710-0	1.710-0	64 520	1	ELASTIC
	6-C-NAT	2	2	1.720-0	1.720-0	72 3328	1	ELASTIC
	6-C-NAT	2	2	1.730-0	1.730-0	63 1699	1	ELASTIC
	6-C-NAT	2	2	1.740-0	1.740-0	64 886	1	ELASTIC
	6-C-NAT	2	2	1.750-0	1.750-0	58 2996	1	ELASTIC

TARJET CODE 5 E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 2

G/704/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
12-MG-NAT	2		2.000+	0	5.000+	62 691	4 ELASTIC
12-MG-NAT	2		5.440+	0	8.560+	70 3229	4 ELASTIC
12-MG-NAT	2		1.410+	1	1.410+	64 845	1 ELASTIC
12-MG-NAT	2		1.460+	1	1.460+	60 631	1 ELASTIC
13-AL-27	2		2.200-	1	2.200-	60 596	1 ELASTIC
13-AL-27	2		3.000-	1	3.000-	63 1599	1 ELASTIC
13-AL-27	2		5.000-	1	9.000-	64 895	27 ELASTIC
13-AL-27	2		6.500-	1	6.500-	63 1750	1 ELASTIC
13-AL-27	2		9.800-	1	3.990+	62 1012	4 ELASTIC
13-AL-27	2		1.500+	0	1.500+	68 2996	1 ELASTIC
13-AL-27	2		2.470+	0	8.050+	69 2890	8 ELASTIC
13-AL-27	2		2.760+	0	2.760+	63 820	1 ELASTIC
13-AL-27	2		3.100+	0	3.100+	61 845	1 ELASTIC
13-AL-27	2		5.440+	0	8.560+	72 3230	4 ELASTIC
13-AL-27	2		1.400+	1	1.400+	59 567	1 ELASTIC
13-AL-27	2		1.450+	1	1.450+	59 403	1 ELASTIC
14-SI-NAT	2		3.000-	1	8.000-	64 2338	3 ELASTIC
14-SI-NAT	2		5.700-	1	2.280+	66 2593	7 ELASTIC
14-SI-NAT	2		9.000-	1	9.000-	62 901	1 ELASTIC
14-SI-NAT	2		1.500+	0	1.500+	68 2996	1 ELASTIC
N 14-SI-NAT	2		2.450+	0	5.800+	60 1756	5 ELASTIC
14-SI-NAT	2		3.100+	0	3.100+	61 845	1 ELASTIC
14-SI-NAT	2		4.000+	0	5.750+	67 2591	8 ELASTIC
14-SI-NAT	2		4.000+	0	7.500+	69 2862	4 ELASTIC
N 14-SI-NAT	2		9.800+	0	9.800+	72 3440	1 ELASTIC
14-SI-NAT	2		1.410+	1	1.410+	64 845	1 ELASTIC
14-SI-28	2		5.440+	0	8.560+	72 3231	4 ELASTIC
15-P-31	2		2.000+	0	2.000+	65 1509	1 ELASTIC
15-P-31	2		1.420+	1	1.420+	65 1765	1 ELASTIC
N 16-S-NAT	2		2.450+	0	5.800+	60 1756	5 ELASTIC
16-S-NAT	2		2.470+	0	8.050+	69 2890	8 ELASTIC
16-S-NAT	2		3.660+	0	3.660+	61 845	1 ELASTIC
16-S-NAT	2		5.500+	0	8.520+	70 3175	4 ELASTIC
N 16-S-NAT	2		9.800+	0	9.800+	72 3440	1 ELASTIC
16-S-NAT	2		1.400+	1	1.400+	59 567	1 ELASTIC
16-S-NAT	2		1.400+	1	1.400+	62 1060	1 ELASTIC
16-S-NAT	2		1.410+	1	1.410+	64 845	1 ELASTIC
17-CL-NAT	2		2.700-	3	2.700-	50 235	1 ELASTIC
17-CL-NAT	2		2.000+	0	2.000+	65 1509	1 ELASTIC
18-AP-NAT	2		1.400+	1	1.400+	67 1679	1 ELASTIC
19-K-NAT	2		3.000-	1	3.000-	67 599	1 ELASTIC
19-K-NAT	2		1.490+	0	3.760+	61 845	4 ELASTIC
19-K-NAT	2		2.060+	0	7.910+	61 845	5 ELASTIC
19-K-NAT	2		3.100+	0	3.100+	61 845	1 ELASTIC
19-K-NAT	2		3.660+	0	3.660+	61 637	1 ELASTIC
N 19-K-NAT	2		1.400+	1	1.400+	66 1648	1 ELASTIC
20-CA-NAT	2		9.000-	1	9.000-	62 708	1 ELASTIC
20-CA-NAT	2		2.060+	0	7.910+	67 1784	6 ELASTIC
20-CA-NAT	2		3.100+	0	3.100+	61 845	1 ELASTIC
20-CA-NAT	2		3.660+	0	3.660+	61 845	1 ELASTIC
20-CA-NAT	2		4.100+	0	4.100+	60 576	1 ELASTIC

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C - 2

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ECSIL-600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

20-CA-NAT	2	5.500+	0	8.520+	0	70 3182	4	ELASTIC
20-CR-NAT	2	6.050+	0	8.050+	0	69 2890	3	ELASTIC
20-CA-NAT	2	1.400+	1	1.460+	1	66 1918	1	ELASTIC
20-CA-NAT	2	1.450+	1	1.460+	1	60 2031	1	ELASTIC
20-CA-NAT	2	1.400+	1	1.400+	1	60 2016	1	ELASTIC
21-SC-NAT	2	2.000+	1	1.400+	0	70 3295	54	ELASTIC
21-SC-NAT	2	3.000+	1	5.000+	0	66 3333	2	ELASTIC
22-TI-NAT	2	3.120+	1	1.472+	0	70 3128	83	ELASTIC
22-TI-NAT	2	8.943+	1	8.943+	1	72 3545	1	ELASTIC
22-TI-NAT	2	9.000+	1	9.000+	1	62 708	1	ELASTIC
22-TI-NAT	2	1.000+	0	1.000+	0	54 103	1	ELASTIC
22-TI-NAT	2	1.500+	0	1.500+	0	67 3394	1	ELASTIC
22-TI-NAT	2	2.000+	0	2.000+	0	65 1509	1	ELASTIC
22-TI-NAT	2	4.340+	0	8.560+	0	73 3448	5	ELASTIC
22-TI-NAT	2	1.400+	1	1.400+	1	59 567	1	ELASTIC
23-V-NAT	2	3.260+	1	1.467+	0	69 1549	221	ELASTIC
23-V-NAT	2	8.966+	1	8.966+	1	72 3546	1	ELASTIC
23-V-NAT	2	2.470+	0	8.050+	0	69 2890	9	ELASTIC
23-V-NAT	2	5.440+	0	8.460+	0	70 3581	4	ELASTIC
23-V-NAT	2	5.500+	1	1.180+	0	73 3799	13	ELASTIC
23-V-NAT	2	5.000+	2	1.150+	1	58 325	22	ELASTIC
23-V-NAT	2	3.000+	1	8.000+	1	64 2338	3	ELASTIC
24-CR-NAT	2	3.180+	1	1.465+	0	65 885	89	ELASTIC
24-CR-NAT	2	5.000+	1	1.475+	0	72 3684	40	ELASTIC
24-CR-NAT	2	1.500+	0	1.500+	0	67 3394	1	ELASTIC
24-CR-NAT	2	1.770+	0	2.760+	0	70 2890	4	ELASTIC
24-CR-NAT	2	2.000+	0	2.000+	0	65 1509	1	ELASTIC
24-CR-NAT	2	2.470+	0	8.050+	0	69 2890	9	ELASTIC
24-CR-NAT	2	4.340+	0	8.560+	0	74 3550	5	ELASTIC
24-CR-NAT	2	2.000+	0	2.000+	0	65 1509	1	ELASTIC
24-CR-NAT	2	2.470+	0	8.050+	0	69 2890	8	ELASTIC
24-CR-NAT	2	7.240+	8	7.240+	8	51 2794	1	ELASTIC
24-CR-NAT	2	2.200+	1	2.200+	1	60 596	1	ELASTIC
24-CR-NAT	2	3.000+	1	3.000+	1	63 1699	1	ELASTIC
24-CR-NAT	2	3.180+	1	1.460+	0	68 1546	95	ELASTIC
24-CR-NAT	2	2.000+	1	1.050+	1	74 3584	33	ELASTIC
24-CR-NAT	2	9.000+	1	9.000+	1	72 3558	4	ELASTIC
24-CR-NAT	2	9.800+	1	3.950+	0	65 1015	4	ELASTIC
24-CR-NAT	2	1.000+	0	1.000+	0	55 103	1	ELASTIC
24-CR-NAT	2	1.480+	0	1.560+	0	56 146	3	ELASTIC
24-CR-NAT	2	1.500+	0	1.500+	0	67 3394	1	ELASTIC
24-CR-NAT	2	1.770+	0	2.760+	0	70 2890	5	ELASTIC
24-CR-NAT	2	2.000+	0	2.000+	0	65 1509	1	ELASTIC
24-CR-NAT	2	2.200+	0	2.200+	0	58 497	1	ELASTIC
24-CR-NAT	2	2.900+	0	2.900+	0	57 416	1	ELASTIC
24-CR-NAT	2	3.000+	0	8.050+	0	69 2890	5	ELASTIC
24-CR-NAT	2	3.660+	0	3.660+	0	59 559	1	ELASTIC
24-CR-NAT	2	4.600+	0	8.960+	0	70 3171	10	ELASTIC
24-CR-NAT	2	5.960+	0	5.960+	0	69 3664	1	ELASTIC
24-CR-NAT	2	6.040+	0	6.040+	0	65 889	1	ELASTIC
24-CR-NAT	2	1.450+	1	1.450+	1	59 403	1	ELASTIC

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-FE-54	2		4.040+ 0	5.600+ 0	71 3214	3	ELASTIC
N 26-FE-54	2		5.500+ 0	8.500+ 0	74 3589	3	ELASTIC
26-FE-56	2		4.600+ 0	7.550+ 0	68 1998	7	ELASTIC
26-FE-56	2		5.050+ 0	5.580+ 0	71 3214	2	ELASTIC
27-CO-59	2		3.000- 1	1.500+ 0	65 885	32	ELASTIC
27-CO-59	2		5.000- 1	8.000- 1	66 2339	2	ELASTIC
N 27-CO-59	2		8.960- 1	8.960- 1	72 3546	1	ELASTIC
27-CO-59	2		1.000+ 0	1.000+ 0	54 103	1	ELASTIC
27-CO-59	2		1.460+ 0	8.050+ 0	69 2890	10	ELASTIC
N 27-CO-59	2		1.500+ 0	1.500+ 0	67 3394	1	ELASTIC
27-CO-59	2		3.660+ 0	3.660+ 0	59 559	1	ELASTIC
27-CO-59	2		4.000+ 0	4.000+ 0	64 1643	1	ELASTIC
27-CO-59	2		5.000+ 0	8.560+ 0	70 3170	5	ELASTIC
27-CO-59	2		1.400+ 1	1.400+ 1	59 567	1	ELASTIC
28-NI-NAT	2		3.000- 1	3.000- 1	63 1699	1	ELASTIC
28-NI-NAT	2		3.170- 1	1.456+ 0	66 885	91	ELASTIC
28-NI-NAT	2		5.000- 1	8.000- 1	64 886	2	ELASTIC
N 28-NI-NAT	2		5.000- 1	1.475+ 0	72 3684	40	ELASTIC
28-NI-NAT	2		6.500- 1	6.500- 1	63 1750	1	ELASTIC
N 28-NI-NAT	2		8.754- 1	8.754- 1	72 3546	1	ELASTIC
28-NI-NAT	2		9.000- 1	9.000- 1	62 901	1	ELASTIC
28-NI-NAT	2		1.000+ 0	1.000+ 0	54 103	1	ELASTIC
N 28-NI-NAT	2		1.500+ 0	1.500+ 0	67 3394	1	ELASTIC
28-NI-NAT	2		1.770+ 0	2.760+ 0	70 2890	5	ELASTIC
28-NI-NAT	2		2.000+ 0	2.000+ 0	65 1509	1	ELASTIC
28-NI-NAT	2		3.000+ 0	8.050+ 0	69 2890	7	ELASTIC
28-NI-NAT	2		3.660+ 0	3.660+ 0	59 559	1	ELASTIC
N 28-NI-NAT	2		4.340+ 0	8.560+ 0	74 3460	5	ELASTIC
28-NI-NAT	2		1.400+ 1	1.400+ 1	63 947	1	ELASTIC
28-NI-NAT	2		1.410+ 1	1.410+ 1	67 2341	1	ELASTIC
N 28-NI-NAT	2		1.460+ 1	1.460+ 1	74 3536	1	ELASTIC
28-NI-58	2		5.050+ 0	5.580+ 0	71 3214	2	ELASTIC
N 28-NI-60	2		4.340+ 0	4.920+ 0	74 3460	2	ELASTIC
28-NI-60	2		5.050+ 0	5.580+ 0	71 3214	2	ELASTIC
28-NI-60	2		6.440+ 0	8.560+ 0	70 3172	3	ELASTIC
28-NI-62	2		4.000+ 0	4.000+ 0	64 1643	1	ELASTIC
29-CU-NAT	2		3.000- 1	1.500+ 0	66 885	26	ELASTIC
N 29-CU-NAT	2		5.000- 1	8.000- 1	64 886	2	ELASTIC
29-CJ-NAT	2		8.766- 1	8.766- 1	72 3546	1	ELASTIC
29-CU-NAT	2		1.000+ 0	1.000+ 0	54 103	1	ELASTIC
29-CU-NAT	2		1.460+ 0	8.050+ 0	69 2890	10	ELASTIC
N 29-CU-NAT	2		1.500+ 0	1.500+ 0	67 3394	1	ELASTIC
29-CU-NAT	2		2.000+ 0	2.000+ 0	65 1509	1	ELASTIC
29-CU-NAT	2		2.900+ 0	2.900+ 0	57 416	1	ELASTIC
29-CU-NAT	2		3.650+ 0	3.660+ 0	59 559	1	ELASTIC
29-CU-NAT	2		1.450+ 1	1.450+ 1	58 403	1	ELASTIC
N 29-CU-63	2		5.500+ 0	8.500+ 0	74 3831	3	ELASTIC
N 29-CU-65	2		5.500+ 0	8.500+ 0	74 3831	3	ELASTIC
30-ZN-NAT	2		1.000- 2	9.700- 2	58 325	7	ELASTIC
30-ZN-NAT	2		3.000- 1	3.000- 1	63 1699	1	ELASTIC
30-ZN-NAT	2		3.000- 1	1.500+ 0	66 885	26	ELASTIC
30-ZN-NAT	2		5.000- 1	8.000- 1	64 870	2	ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

30-ZN-NAT	2	6.500-1	8.500-1	63 1750	1	ELASTIC
30-ZN-NAT	2	6.500-1	8.750-1	72 3546	1	ELASTIC
30-ZN-NAT	2	6.000-0	8.000-0	54 103	1	ELASTIC
30-ZN-NAT	2	6.000-0	8.000-0	65 1509	1	ELASTIC
30-ZN-NAT	2	6.000-0	8.050-0	66 2880	8	ELASTIC
30-ZN-NAT	2	3.650-0	3.650-0	59 5559	144	ELASTIC
30-ZN-NAT	2	3.650-0	3.650-0	68 2413	1	ELASTIC
30-ZN-NAT	2	8.700-1	8.700-1	72 3546	1	ELASTIC
30-ZN-NAT	2	3.650-0	3.660-0	62 637	1	ELASTIC
30-ZN-NAT	2	7.550-0	7.550-0	69 2950	1	ELASTIC
30-ZN-NAT	2	8.050-0	8.050-0	69 3660	1	ELASTIC
30-ZN-NAT	2	4.000-2	1.050-1	58 325	14	ELASTIC
30-ZN-NAT	2	5.000-1	8.000-1	64 886	2	ELASTIC
30-ZN-NAT	2	8.350-1	8.360-1	72 3546	1	ELASTIC
30-ZN-NAT	2	1.000-0	1.000-0	54 103	1	ELASTIC
30-ZN-NAT	2	3.650-0	3.660-0	62 637	1	ELASTIC
30-ZN-NAT	2	6.000-0	1.000-1	75 3903	3	ELASTIC
30-ZN-NAT	2	8.000-0	8.000-0	75 3903	1	ELASTIC
30-ZN-NAT	2	4.000-0	4.000-0	64 1843	1	ELASTIC
30-ZN-NAT	2	8.000-0	8.000-0	75 3903	3	ELASTIC
30-ZN-NAT	2	6.000-0	1.000-1	75 3903	1	ELASTIC
30-ZN-NAT	2	2.000-0	2.000-0	65 1509	1	ELASTIC
30-ZN-NAT	2	1.300-1	1.100-0	73 3991	18	ELASTIC
30-ZN-NAT	2	8.800-1	9.700-2	58 325	5	ELASTIC
30-ZN-NAT	2	1.000-0	1.000-0	54 103	1	ELASTIC
30-ZN-NAT	2	2.000-0	2.000-0	65 1509	1	ELASTIC
30-ZN-NAT	2	3.650-0	3.660-0	61 637	1	ELASTIC
30-ZN-NAT	2	8.892-1	8.892-1	72 3546	1	ELASTIC
30-ZN-NAT	2	1.450-0	4.700-0	59 575	4	ELASTIC
30-ZN-NAT	2	2.500-0	2.500-0	58 497	1	ELASTIC
30-ZN-NAT	2	3.770-0	3.770-0	65 1809	1	ELASTIC
30-ZN-NAT	2	5.500-0	8.560-0	70 3553	4	ELASTIC
30-ZN-NAT	2	6.040-0	6.040-0	65 889	1	ELASTIC
30-ZN-NAT	2	3.600-2	1.110-1	58 325	2	ELASTIC
30-ZN-NAT	2	3.000-1	3.000-1	64 2785	8	ELASTIC
30-ZN-NAT	2	6.500-1	6.500-1	63 1750	1	ELASTIC
30-ZN-NAT	2	9.030-1	8.030-1	72 3546	1	ELASTIC
30-ZN-NAT	2	1.000-0	1.000-0	54 103	1	ELASTIC
30-ZN-NAT	2	1.450-0	4.700-0	59 575	4	ELASTIC
30-ZN-NAT	2	3.650-0	3.660-0	62 637	1	ELASTIC
30-ZN-NAT	2	1.500-0	1.500-0	74 3586	1	ELASTIC
30-ZN-NAT	2	1.500-0	1.500-0	74 3586	1	ELASTIC
30-ZN-NAT	2	3.200-1	1.500-0	74 3586	33	ELASTIC
30-ZN-NAT	2	8.750-1	8.750-1	72 3546	1	ELASTIC
30-ZN-NAT	2	1.000-0	1.000-0	54 103	1	ELASTIC
30-ZN-NAT	2	2.000-0	2.000-0	65 1509	8	ELASTIC
30-ZN-NAT	2	2.000-0	2.000-0	65 1509	1	ELASTIC
30-ZN-NAT	2	4.000-0	4.000-0	64 1843	1	ELASTIC
30-ZN-NAT	2	8.050-0	8.050-0	69 3660	1	ELASTIC

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	50-SN-NAT	2	3.000-1	3.000-1	63 1699	1 ELASTIC
	50-SI-NAT	2	3.250-1	1.450-0	66 885	62 ELASTIC
	50-SN-NAT	2	5.000-1	8.000-1	64 870	2 ELASTIC
	50-SN-NAT	2	6.500-1	6.500-1	63 1750	1 ELASTIC
	50-SI-NAT	2	8.616-1	8.616-1	72 3546	1 ELASTIC
	50-SI-NAT	2	1.000-0	1.000-0	54 103	1 ELASTIC
	50-SN-NAT	2	6.040-0	6.040-0	65 889	1 ELASTIC
	50-SN-NAT	2	1.450-1	1.450-1	59 403	1 ELASTIC
	50-SN-118	2	4.000-0	4.000-0	64 1643	1 ELASTIC
	51-SB-NAT	2	3.000-1	8.000-1	64 1255	3 ELASTIC
	51-SB-NAT	2	3.250-1	1.450-0	66 885	51 ELASTIC
	51-SB-NAT	2	8.700-1	8.700-1	72 3546	1 ELASTIC
	51-SB-NAT	2	1.000-0	1.000-0	54 103	1 ELASTIC
	51-SB-NAT	2	2.000-0	2.000-0	65 1509	1 ELASTIC
	51-SB-NAT	2	4.100-0	4.100-0	60 576	1 ELASTIC
	51-SB-NAT	2	8.050-0	8.050-0	69 3660	1 ELASTIC
	52-TE-NAT	2	3.000-1	3.000-1	63 1699	1 ELASTIC
	52-TE-NAT	2	3.250-1	1.450-0	66 885	53 ELASTIC
	52-TE-NAT	2	5.000-1	8.000-1	64 886	2 ELASTIC
	52-TE-NAT	2	6.500-1	6.500-1	63 1750	1 ELASTIC
	52-TE-NAT	2	1.000-0	1.000-0	54 103	1 ELASTIC
	53-1 -127	2	8.893-1	8.893-1	72 3546	1 ELASTIC
	53-1 -127	2	2.000-0	2.000-0	65 1509	1 ELASTIC
	53-1 -127	2	4.000-0	4.000-0	64 1643	1 ELASTIC
	55-CS-133	2	1.200-1	1.100-0	73 3991	19 ELASTIC
	56-CS-133	2	8.772-1	8.772-1	72 3546	1 ELASTIC
	56-BA-NAT	2	5.000-1	8.000-1	64 870	2 ELASTIC
	56-BA-NAT	2	6.500-1	6.500-1	63 1750	1 ELASTIC
	56-BA-NAT	2	8.845-1	8.845-1	72 3546	1 ELASTIC
	56-BA-NAT	2	1.000-0	1.000-0	54 103	1 ELASTIC
	56-BA-NAT	2	2.000-0	2.000-0	65 1509	1 ELASTIC
	56-BA-NAT	2	4.100-0	4.100-0	60 576	1 ELASTIC
	57-LA-139	2	2.320-1	1.571-0	69 2883	8 ELASTIC
	58-CE-NAT	2	8.797-1	8.797-1	72 3546	1 ELASTIC
	58-CE-NAT	2	1.000-0	1.000-0	54 103	1 ELASTIC
	59-PR-141	2	2.320-1	1.571-0	69 2883	8 ELASTIC
	59-PR-141	2	8.788-1	8.788-1	72 3546	1 ELASTIC
	60-ND-143	2	2.530-8	2.530-8	59 439	1 ELASTIC
	62-SM-NAT	2	3.030-1	1.500-0	69 2385	55 ELASTIC
	64-GD-NAT	2	3.000-1	1.500-0	69 2385	65 ELASTIC
	67-HO-165	2	3.000-1	1.500-0	70 1040	62 ELASTIC
	68-ER-NAT	2	2.530-8	2.530-8	68 3316	1 ELASTIC
	68-ER-NAT	2	9.529-1	9.529-1	72 3546	1 ELASTIC
	68-ER-162	2	2.530-8	2.530-8	68 3316	1 ELASTIC
	68-ER-164	2	2.530-8	2.530-8	68 3316	1 ELASTIC
	68-ER-166	2	2.530-8	2.530-8	68 3316	1 ELASTIC
	68-ER-167	2	2.530-8	2.530-8	68 3316	1 ELASTIC
	68-ER-168	2	2.530-8	2.530-8	68 3316	1 ELASTIC
	68-ER-170	2	2.530-8	2.530-8	68 3316	1 ELASTIC
	72-HF-NAT	2	3.000-1	1.501-0	69 2385	42 ELASTIC
	72-HF-NAT	2	9.498-1	9.498-1	72 3546	1 ELASTIC
	72-HF-NAT	2	1.000-0	1.000-0	54 103	1 ELASTIC

TARGET CODE E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

N	72-HF-NAT	2	8.050+ 0	8.050+ 0	69 3660	1	ELASTIC
	73-TA-NAT	2	3.000- 1	1.475+ 0	67 8895	96	ELASTIC
N	73-TA-NAT	2	3.500- 1	1.020+ 0	67 8868	6	ELASTIC
	73-TA-NAT	2	8.733- 1	8.733- 1	72 3546	1	ELASTIC
	73-TA-NAT	2	9.010- 1	9.010- 1	61 1692	1	ELASTIC
	73-TA-NAT	2	1.000+ 0	1.000+ 0	54 103	1	ELASTIC
	73-TA-NAT	2	2.000+ 0	2.000+ 0	65 1509	1	ELASTIC
	73-TA-NAT	2	2.470+ 0	8.050+ 0	69 2890	7	ELASTIC
	74-N-NAT	2	3.000- 1	8.000- 1	64 1255	3	ELASTIC
N	74-N-NAT	2	8.721- 1	8.721- 1	72 3546	1	ELASTIC
	74-N-NAT	2	1.000+ 0	1.000+ 0	54 103	1	ELASTIC
	74-N-NAT	2	2.000+ 0	2.000+ 0	65 1509	1	ELASTIC
	74-N-NAT	2	3.330- 1	1.433+ 0	66 8895	55	ELASTIC
	74-N-NAT	2	3.330- 1	1.481+ 0	66 8895	59	ELASTIC
	74-N-NAT	2	3.250- 1	1.481+ 0	66 8895	59	ELASTIC
	75-RE-NAT	2	3.000- 1	1.500+ 0	67 8895	97	ELASTIC
	78-PT-NAT	2	3.000- 1	1.500+ 0	67 8895	105	ELASTIC
	79-AU-197	2	3.000- 1	1.500+ 0	66 8895	26	ELASTIC
N	79-AU-197	2	5.000- 1	5.000- 1	56 149	1	ELASTIC
	79-AU-197	2	8.779- 1	8.779- 1	72 3546	1	ELASTIC
	79-AU-197	2	1.000+ 0	1.000+ 0	54 103	1	ELASTIC
N	80-HG-NAT	2	8.050+ 0	8.050+ 0	69 3660	1	ELASTIC
	80-HG-NAT	2	1.950- 5	1.950- 5	51 962	1	ELASTIC
	80-HG-NAT	2	3.000- 1	3.000- 1	63 1699	1	ELASTIC
	80-HG-NAT	2	3.000- 1	1.500+ 0	66 8895	25	ELASTIC
	80-HG-NAT	2	5.000- 1	8.000- 1	64 870	1	ELASTIC
N	80-HG-NAT	2	6.500- 1	6.500- 1	63 1750	1	ELASTIC
	80-HG-NAT	2	8.816- 1	8.816- 1	72 3546	1	ELASTIC
	80-HG-NAT	2	1.000+ 0	1.000+ 0	54 103	1	ELASTIC
	80-HG-NAT	2	2.000+ 0	2.000+ 0	65 1509	1	ELASTIC
	80-HG-NAT	2	4.100+ 0	4.100+ 0	60 576	1	ELASTIC
	80-HG-NAT	2	4.200- 1	1.500+ 0	66 8895	25	ELASTIC
	80-HG-NAT	2	4.200- 1	2.200- 1	60 596	1	ELASTIC
	82-PB-NAT	2	2.000- 1	3.000- 1	64 2338	1	ELASTIC
	82-PB-NAT	2	2.000- 1	8.000- 1	64 870	2	ELASTIC
	82-PB-NAT	2	6.000- 1	6.500- 1	63 1750	1	ELASTIC
N	82-PB-NAT	2	1.000+ 0	1.000+ 0	54 103	1	ELASTIC
	82-PB-NAT	2	1.000+ 0	1.000+ 0	72 3546	1	ELASTIC
	82-PB-NAT	2	3.670+ 0	4.000+ 0	59 1719	3	ELASTIC
	82-PB-NAT	2	4.000+ 0	4.000+ 0	64 1843	1	ELASTIC
N	82-PB-NAT	2	8.050+ 0	8.050+ 0	69 3660	1	ELASTIC
	82-PB-NAT	2	1.000+ 0	1.000+ 0	54 103	1	ELASTIC
	82-PB-NAT	2	1.450+ 1	1.450+ 1	26 421	1	ELASTIC
N	82-PB-205	2	8.050+ 0	8.050+ 0	69 3660	1	ELASTIC
	RADIO LEAD	2	4.210+ 0	4.210+ 0	60 576	1	ELASTIC
	83-81-209	2	2.200- 1	2.200- 1	60 576	1	ELASTIC
	83-81-209	2	3.000- 1	3.000- 1	64 2338	1	ELASTIC
	83-81-209	2	3.000- 1	1.500+ 0	69 2546	96	ELASTIC
	83-81-209	2	5.000- 1	8.000- 1	64 870	1	ELASTIC
N	83-81-209	2	8.883- 1	8.883- 1	72 3546	1	ELASTIC
	83-81-209	2	1.000+ 0	1.000+ 0	54 103	1	ELASTIC
	83-81-209	2	2.000+ 0	2.000+ 0	65 1509	1	ELASTIC

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
83-B1-209	00		4.000+ 0	4.000+ 0	64 1543	1	ELASTIC
93-B1-209	00		4.210+ 0	4.210+ 0	59 579	1	ELASTIC
83-B1-209	00		6.540+ 0	6.540+ 0	65 889	1	ELASTIC
83-B1-209	00		6.050+ 0	9.050+ 0	69 2890	3	ELASTIC
83-B1-209	00		1.000+ 1	1.000+ 1	59 21	1	ELASTIC
83-B1-209	00		1.460+ 1	1.460+ 1	60 631	1	ELASTIC
90-TH-230	00		2.500+ 8	2.500+ 8	69 2362	1	ELASTIC
90-TH-230	00		8.000+ 6	8.000+ 6	68 2196	1	ELASTIC
90-TH-232	00		5.700+ 1	1.500+ 0	62 693	6	ELASTIC
90-TH-232	00		8.733+ 1	8.733+ 1	72 3546	1	ELASTIC
90-TH-232	00		1.000+ 0	1.000+ 0	54 103	1	ELASTIC
90-TH-232	00		2.000+ 0	2.000+ 0	65 1509	1	ELASTIC
90-TH-232	00		2.000+ 0	7.000+ 0	65 1264	4	ELASTIC
90-TH-232	00		3.100+ 0	3.100+ 0	61 846	1	ELASTIC
92-U -NAT	00		2.530+ 8	2.530+ 8	54 1279	1	ELASTIC
92-U -NAT	00		3.000+ 1	5.000+ 1	64 1255	2	ELASTIC
92-U -NAT	00		5.000+ 1	1.000+ 0	57 444	2	ELASTIC
92-U -NAT	00		8.000+ 1	8.000+ 1	64 870	1	ELASTIC
92-U -NAT	00		8.715+ 1	8.715+ 1	72 3546	1	ELASTIC
92-U -NAT	00		1.450+ 1	1.450+ 1	58 403	1	ELASTIC
92-U -233	00		2.700+ 7	3.310+ 6	58 396	11	ELASTIC
92-U -233	00		6.400+ 7	3.600+ 4	2 67 1493	230	ELASTIC
92-U -233	00		1.020+ 6	3.128+ 5	68 1530	192	ELASTIC
92-U -233	00		1.700+ 6	1.860+ 5	62 1291	55	ELASTIC
92-U -234	00		2.530+ 8	2.530+ 8	58 436	1	ELASTIC
92-U -235	00		1.900+ 7	2.900+ 6	55 1329	33	ELASTIC
92-U -235	00		2.710+ 7	7.740+ 6	58 395	7	ELASTIC
92-U -235	00		6.500+ 7	9.450+ 5	2 67 1493	216	ELASTIC
92-U -235	00		1.030+ 6	2.990+ 5	68 1530	234	ELASTIC
92-U -235	00		7.388+ 6	1.907+ 4	66 3649	1364	ELASTIC
92-U -235	00		3.000+ 1	1.495+ 0	64 1273	28	ELASTIC
92-U -235	00		4.000+ 1	6.000+ 1	66 1331	24	ELASTIC
92-U -235	00		5.000+ 1	1.000+ 0	56 149	2	ELASTIC
92-U -235	00		5.000+ 1	1.000+ 0	57 444	2	ELASTIC
92-U -235	00		1.500+ 0	2.300+ 0	72 3786	3	ELASTIC
92-U -236	00		2.530+ 8	2.530+ 8	58 436	1	ELASTIC
92-U -238	00		3.000+ 1	1.495+ 0	63 1272	30	ELASTIC
92-U -239	00		2.000+ 0	7.000+ 0	65 1264	4	ELASTIC
92-U -238	00		1.410+ 1	1.410+ 1	68 2085	1	ELASTIC
94-PU-239	00		2.850+ 6	2.439+ 4	2 67 1493	266	ELASTIC
94-PU-239	00		2.000+ 3	2.200+ 3	2 69 2906	1	ELASTIC
94-PU-239	00		3.000+ 1	1.500+ 0	72 3146	148	ELASTIC
94-PU-239	00		5.000+ 1	1.000+ 0	56 149	2	ELASTIC
94-PU-239	00		3.000+ 1	1.000+ 0	57 444	2	ELASTIC
94-PU-240	00		3.000+ 1	1.500+ 0	71 3146	30	ELASTIC
94-PU-241	00		3.040+ 6	3.277+ 5	68 1530	302	ELASTIC
1-H -2	00		7.240+ 8	7.240+ 8	51 2794	1	ELASTIC
1-H -2	00		1.855+ 1	2.300+ 1	69 3245	3	NONELASTIC
1-H -3	00		1.800+ 1	2.300+ 1	69 3245	4	NONELASTIC
3-L1-6	00		8.100+ 0	1.420+ 1	58 592	3	NONELASTIC
3-L1-6	00		1.400+ 1	1.400+ 1	58 490	1	NONELASTIC
3-L1-6	00		1.400+ 1	1.400+ 1	63 2335	1	NONELASTIC

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL--500 REACTION INDEX REACTION NO. (ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
3-L1-7	3	1	0.100+0	1.423+1	59 592	3	NONELASTIC
3-L1-7	3	1	1.400+1	1.400+1	58 490	1	NONELASTIC
3-L1-7	3	1	1.670+1	2.070+1	65 1258	3	NONELASTIC
4-RE-9	3	3	2.300+0	5.200+0	68 2595	7	NONELASTIC
4-RE-9	3	3	2.464+0	3.924+0	73 3321	9	NONELASTIC
4-RE-9	3	3	4.070+0	4.070+0	55 1222	1	NONELASTIC
4-RE-9	3	3	4.100+0	4.100+0	55 296	1	NONELASTIC
4-RE-9	3	3	5.600+0	5.600+0	56 151	1	NONELASTIC
4-RE-9	3	3	7.000+0	1.120+1	57 24	4	NONELASTIC
4-RE-9	3	3	1.270+1	1.410+1	55 130	2	NONELASTIC
4-RE-9	3	3	1.400+1	1.400+1	49 3103	1	NONELASTIC
4-RE-9	3	3	1.400+1	1.400+1	60 3104	1	NONELASTIC
4-RE-9	3	3	1.400+1	1.400+1	63 277	1	NONELASTIC
4-RE-9	3	3	1.400+1	1.400+1	61 743	1	NONELASTIC
4-RE-9	3	3	1.410+1	1.410+1	58 490	1	NONELASTIC
4-RE-9	3	3	1.420+1	1.420+1	57 319	1	NONELASTIC
4-RE-9	3	3	1.420+1	1.420+1	63 1271	1	NONELASTIC
4-RE-9	3	3	1.450+1	1.450+1	56 200	1	NONELASTIC
4-RE-9	3	3	2.550+1	2.550+1	58 356	1	NONELASTIC
4-RE-9	3	3	3.790+2	1.731+3	71 3264	1	NONELASTIC
4-RE-9	3	3	1.400+3	1.400+3	55 2056	1	NONELASTIC
4-RE-9	3	3	1.410+1	1.410+1	58 480	1	NONELASTIC
4-RE-9	3	3	1.415+1	1.415+1	52 82	1	NONELASTIC
4-RE-9	3	3	1.450+1	1.450+1	56 200	1	NONELASTIC
4-RE-9	3	3	1.823+0	1.823+0	70 3794	7	NONELASTIC
4-RE-9	3	3	1.432+1	1.432+1	57 319	1	NONELASTIC
4-RE-9	3	3	2.032+0	4.850+0	71 3794	7	NONELASTIC
4-RE-9	3	3	1.000+0	4.070+0	55 132	2	NONELASTIC
4-RE-9	3	3	2.500+0	4.100+0	55 151	1	NONELASTIC
4-RE-9	3	3	5.800+0	1.293+1	58 367	7	NONELASTIC
4-RE-9	3	3	1.270+1	1.410+1	55 130	2	NONELASTIC
4-RE-9	3	3	1.400+1	1.400+1	55 780	1	NONELASTIC
4-RE-9	3	3	1.400+1	1.400+1	58 490	1	NONELASTIC
4-RE-9	3	3	1.410+1	1.410+1	55 117	1	NONELASTIC
4-RE-9	3	3	1.415+1	1.415+1	64 845	1	NONELASTIC
4-RE-9	3	3	1.420+1	1.420+1	52 82	1	NONELASTIC
4-RE-9	3	3	1.420+1	1.420+1	57 24	1	NONELASTIC
4-RE-9	3	3	1.450+1	1.450+1	57 319	1	NONELASTIC
4-RE-9	3	3	1.480+1	1.480+1	56 200	1	NONELASTIC
4-RE-9	3	3	1.520+1	1.520+1	67 1856	1	NONELASTIC
4-RE-9	3	3	1.530+1	1.530+1	65 1228	1	NONELASTIC
4-RE-9	3	3	1.727+1	1.988+1	68 2746	2	NONELASTIC
4-RE-9	3	3	2.100+1	1.988+1	69 3708	3	NONELASTIC
4-RE-9	3	3	5.500+1	2.920+1	58 356	3	NONELASTIC
4-RE-9	3	3	3.790+2	1.731+3	56 312	4	NONELASTIC
4-RE-9	3	3	1.400+3	1.400+3	71 3264	15	NONELASTIC
4-RE-9	3	3	1.415+1	1.415+1	55 2056	1	NONELASTIC
4-RE-9	3	3	1.450+1	1.450+1	52 82	1	NONELASTIC
4-RE-9	3	3	1.530+1	1.530+1	56 200	2	NONELASTIC
4-RE-9	3	3	5.800+0	1.293+1	55 1228	2	NONELASTIC
4-RE-9	3	3	5.800+0	6.900+0	72 3717	2	NONELASTIC

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TARGET	CODE	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
S-C-NAT	1	1.450	1.450	55 200	1	NONELASTIC
S-C-NAT	1	1.450	1.450	67 1656	1	NONELASTIC
S-C-NAT	1	1.450	1.450	57 319	1	NONELASTIC
11-NA-23	3	1.020	1.020	56 353	1	NONELASTIC
11-NA-23	3	2.500	2.500	56 34	1	NONELASTIC
11-NA-23	3	2.500	2.500	61 846	1	NONELASTIC
11-NA-23	3	2.500	2.500	55 790	2	NONELASTIC
11-NA-23	3	2.500	2.500	56 34	1	NONELASTIC
12-MO-NAT	3	2.500	2.500	55 790	3	NONELASTIC
12-MO-NAT	3	2.500	2.500	57 124	5	NONELASTIC
12-MO-NAT	3	1.410	1.410	57 199	1	NONELASTIC
12-MO-NAT	3	1.420	1.420	57 319	1	NONELASTIC
12-MO-NAT	3	1.450	1.450	56 500	3	NONELASTIC
12-MO-NAT	3	2.100	2.100	56 356	2	NONELASTIC
13-AL-27	3	1.000	1.000	55 122	1	NONELASTIC
13-AL-27	3	1.020	1.020	56 353	5	NONELASTIC
13-AL-27	3	1.700	1.700	56 131	1	NONELASTIC
13-AL-27	3	2.500	2.500	56 734	4	NONELASTIC
13-AL-27	3	2.500	2.500	55 130	5	NONELASTIC
13-AL-27	3	1.400	1.400	55 130	1	NONELASTIC
13-AL-27	3	1.350	1.350	55 236	5	NONELASTIC
13-AL-27	3	7.300	7.300	57 236	1	NONELASTIC
13-AL-27	3	8.100	8.100	55 123	1	NONELASTIC
13-AL-27	3	1.410	1.410	55 117	1	NONELASTIC
13-AL-27	3	1.415	1.415	57 199	1	NONELASTIC
13-AL-27	3	1.420	1.420	57 319	1	NONELASTIC
13-AL-27	3	1.430	1.430	61 705	3	NONELASTIC
13-AL-27	3	1.450	1.450	56 200	1	NONELASTIC
13-AL-27	3	1.480	1.480	57 1656	1	NONELASTIC
13-AL-27	3	5.500	5.500	56 312	4	NONELASTIC
13-AL-27	3	3.790	3.790	71 3264	15	NONELASTIC
13-AL-27	3	1.400	1.400	55 2056	1	NONELASTIC
13-AL-27	3	5.000	5.000	61 1565	1	NONELASTIC
14-SI-NAT	3	1.450	1.450	56 200	1	NONELASTIC
14-SI-NAT	3	1.410	1.410	64 845	1	NONELASTIC
15-P-31	3	2.500	2.500	55 790	1	NONELASTIC
15-P-31	3	2.500	2.500	56 34	1	NONELASTIC
15-P-31	3	1.450	1.450	56 200	1	NONELASTIC
15-S-NAT	3	2.500	2.500	55 790	1	NONELASTIC
15-S-NAT	3	2.500	2.500	56 34	1	NONELASTIC
15-S-NAT	3	3.660	3.660	59 559	1	NONELASTIC
15-S-NAT	3	7.000	7.000	56 151	1	NONELASTIC
15-S-NAT	3	1.410	1.410	57 199	1	NONELASTIC
15-S-NAT	3	1.420	1.420	57 319	1	NONELASTIC
15-S-NAT	3	1.450	1.450	56 200	1	NONELASTIC
15-S-32	3	1.410	1.410	64 845	1	NONELASTIC
17-CL-NAT	3	2.500	2.500	56 34	1	NONELASTIC
17-CL-NAT	3	2.500	2.500	55 790	2	NONELASTIC
20-CA-NAT	3	2.500	2.500	55 790	1	NONELASTIC
20-CA-NAT	3	2.500	2.500	56 34	1	NONELASTIC

TARGET	CODE	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
20-CA-NAT	3	2.500	2.500	56 34	1	NONELASTIC

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	5 E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
20-CA-NAT	3	7.000+0	7.000+0	56 151	1	NONELASTIC
20-CA-NAT	3	1.450+1	1.450+1	36 200	1	NONELASTIC
22-TI-NAT	3	1.000+0	7.000+0	56 151	5	NONELASTIC
22-TI-NAT	3	3.500+0	1.410+1	55 130	5	NONELASTIC
22-TI-NAT	3	4.000+0	4.500+0	55 122	2	NONELASTIC
22-TI-NAT	3	4.100+0	4.100+0	55 295	1	NONELASTIC
22-TI-NAT	3	1.420+1	1.420+1	57 319	1	NONELASTIC
22-TI-NAT	3	2.550+1	2.550+1	58 356	1	NONELASTIC
24-CR-NAT	3	1.400+0	2.400+0	62 707	4	NONELASTIC
24-CR-NAT	3	2.500+0	2.500+0	55 790	1	NONELASTIC
24-CR-NAT	3	3.500+0	2.500+0	56 34	1	NONELASTIC
24-CR-NAT	3	3.500+0	1.410+1	55 130	5	NONELASTIC
26-FE-NAT	3	2.200+1	2.200+1	60 633	1	NONELASTIC
26-FE-NAT	3	8.000+1	1.500+0	55 1826	7	NONELASTIC
26-FE-NAT	3	9.000+1	1.500+0	63 1833	5	NONELASTIC
26-FE-NAT	3	1.000+0	2.200+0	62 707	7	NONELASTIC
26-FE-NAT	3	1.000+0	2.200+0	58 131	5	NONELASTIC
26-FE-NAT	3	1.020+0	1.020+0	58 133	3	NONELASTIC
26-FE-NAT	3	1.200+0	2.000+0	56 34	1	NONELASTIC
26-FE-NAT	3	2.500+0	2.500+0	55 720	4	NONELASTIC
26-FE-NAT	3	2.500+0	1.400+1	55 130	5	NONELASTIC
26-FE-NAT	3	3.500+0	1.410+1	55 130	1	NONELASTIC
26-FE-NAT	3	3.660+0	3.660+0	59 559	2	NONELASTIC
26-FE-NAT	3	4.000+0	4.500+0	55 296	1	NONELASTIC
26-FE-NAT	3	4.100+0	4.100+0	58 877	1	NONELASTIC
26-FE-NAT	3	1.400+1	1.400+1	55 122	1	NONELASTIC
26-FE-NAT	3	1.410+1	1.410+1	57 199	1	NONELASTIC
26-FE-NAT	3	1.415+1	1.415+1	52 82	1	NONELASTIC
26-FE-NAT	3	1.420+1	1.420+1	61 706	4	NONELASTIC
26-FE-NAT	3	1.430+1	1.970+1	56 200	1	NONELASTIC
26-FE-NAT	3	1.450+1	1.450+1	58 356	1	NONELASTIC
26-FE-NAT	3	2.550+1	2.550+1	59 559	15	NONELASTIC
26-FE-NAT	3	3.790+2	1.731+3	71 3264	2	NONELASTIC
26-FE-NAT	3	8.100+0	1.970+1	65 1228	1	NONELASTIC
26-FE-NAT	3	1.000+0	1.000+0	55 103	1	NONELASTIC
26-FE-NAT	3	2.500+0	2.500+0	55 790	1	NONELASTIC
26-FE-NAT	3	2.500+0	3.660+0	56 34	1	NONELASTIC
26-FE-NAT	3	3.660+0	3.660+0	59 559	3	NONELASTIC
26-FE-NAT	3	1.450+1	1.450+1	57 319	1	NONELASTIC
26-FE-NAT	3	1.500+0	2.400+0	62 707	6	NONELASTIC
26-FE-NAT	3	2.500+0	2.500+0	56 784	3	NONELASTIC
26-FE-NAT	3	3.500+0	1.410+1	55 130	5	NONELASTIC
26-FE-NAT	3	3.660+0	3.660+0	55 559	1	NONELASTIC
26-FE-NAT	3	4.000+0	4.500+0	55 122	2	NONELASTIC
26-FE-NAT	3	1.410+1	1.410+1	57 199	1	NONELASTIC
26-FE-NAT	3	1.420+1	1.420+1	57 319	1	NONELASTIC
26-FE-NAT	3	3.790+2	1.731+3	71 3264	15	NONELASTIC
26-FE-NAT	3	9.600+0	1.970+1	65 1228	1	NONELASTIC
26-FE-NAT	3	1.000+0	1.500+0	55 122	3	NONELASTIC

TARGET CODE 5 E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION		
29-CU-NAT	3	1.020*	0	1.020*	0	56	353	1	NONELASTIC
29-CU-NAT	3	1.200*	0	2.000*	0	56	184	3	NONELASTIC
29-CU-NAT	3	2.500*	0	2.500*	0	56	34	1	NONELASTIC
29-CU-NAT	3	2.300*	0	7.000*	0	56	151	2	NONELASTIC
29-CU-NAT	3	2.200*	0	1.400*	0	55	790	1	NONELASTIC
29-CU-NAT	3	3.200*	0	1.410*	1	55	730	5	NONELASTIC
29-CU-NAT	3	3.200*	0	3.850*	0	55	559	1	NONELASTIC
29-CU-NAT	3	3.200*	0	1.400*	1	57	24	6	NONELASTIC
29-CU-NAT	3	6.100*	0	8.100*	0	55	1228	1	NONELASTIC
29-CU-NAT	3	8.300*	0	1.392*	1	53	740	6	NONELASTIC
29-CU-NAT	3	1.400*	1	1.400*	1	56	817	1	NONELASTIC
29-CU-NAT	3	1.410*	1	1.410*	1	55	117	1	NONELASTIC
29-CU-NAT	3	1.415*	1	1.415*	1	57	315	1	NONELASTIC
29-CU-NAT	3	1.420*	1	1.420*	1	56	201	1	NONELASTIC
29-CU-NAT	3	1.450*	1	1.450*	1	63	371	1	NONELASTIC
29-CU-NAT	3	1.470*	1	1.470*	1	67	1556	1	NONELASTIC
29-CU-NAT	3	1.480*	1	1.480*	1	61	706	2	NONELASTIC
29-CU-NAT	3	1.810*	1	1.970*	1	58	353	4	NONELASTIC
29-CU-NAT	3	2.100*	1	2.320*	1	56	312	15	NONELASTIC
29-CU-NAT	3	5.500*	1	1.400*	2	53	71	1	NONELASTIC
29-CU-NAT	3	3.750*	2	1.731*	3	55	2055	1	NONELASTIC
29-CU-NAT	3	1.400*	3	1.400*	3	61	1566	1	NONELASTIC
29-CU-NAT	3	5.000*	3	5.000*	3	62	1657	1	NONELASTIC
29-CU-NAT	3	8.300*	3	8.300*	3	66	3853	1	NONELASTIC
29-CU-NAT	3	9.600*	1	9.600*	1	54	103	1	NONELASTIC
30-ZN-NAT	3	1.000*	0	1.000*	0	56	34	1	NONELASTIC
30-ZN-NAT	3	2.500*	0	2.500*	0	56	151	2	NONELASTIC
30-ZN-NAT	3	2.500*	0	7.000*	0	55	790	4	NONELASTIC
30-ZN-NAT	3	2.500*	0	1.400*	1	55	559	1	NONELASTIC
30-ZN-NAT	3	3.650*	0	3.650*	0	55	122	2	NONELASTIC
30-ZN-NAT	3	4.000*	0	4.500*	0	55	296	1	NONELASTIC
30-ZN-NAT	3	4.100*	0	4.100*	0	55	319	1	NONELASTIC
30-ZN-NAT	3	1.410*	1	1.410*	1	57	199	1	NONELASTIC
30-ZN-NAT	3	1.420*	1	1.420*	1	57	200	1	NONELASTIC
30-ZN-NAT	3	1.450*	1	1.450*	1	56	200	15	NONELASTIC
30-ZN-NAT	3	3.790*	2	1.731*	3	54	103	1	NONELASTIC
34-SE-NAT	3	1.000*	0	1.000*	0	54	103	1	NONELASTIC
34-SE-NAT	3	2.500*	0	2.500*	0	56	34	1	NONELASTIC
34-SE-NAT	3	2.500*	0	1.400*	1	55	790	2	NONELASTIC
34-SE-NAT	3	1.410*	1	1.410*	1	57	199	1	NONELASTIC
34-SE-NAT	3	1.450*	1	1.450*	1	56	200	1	NONELASTIC
38-SR-NAT	3	1.000*	0	1.000*	0	54	103	1	NONELASTIC
38-SR-NAT	3	2.500*	0	2.500*	0	61	848	1	NONELASTIC
40-R-NAT	3	1.000*	0	7.000*	0	56	151	2	NONELASTIC
40-R-NAT	3	4.000*	0	4.500*	0	55	122	5	NONELASTIC
40-ZR-NAT	3	4.100*	0	4.100*	0	55	296	1	NONELASTIC
40-ZR-NAT	3	8.400*	0	1.280*	1	57	24	4	NONELASTIC
40-ZR-NAT	3	1.420*	1	1.420*	1	57	319	1	NONELASTIC
40-ZR-NAT	3	2.550*	1	2.550*	1	58	356	1	NONELASTIC
41-NB-93	3	8.000*	1	2.800*	0	62	707	10	NONELASTIC
41-NB-93	3	1.000*	0	1.000*	0	54	103	1	NONELASTIC

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[illegible]

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TARGET	CODE	5 E-MIN-NEV	E-MA-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
51-SB-NAT	3	7 700-	1 1 020+	0 56 353	2	NONELASTIC
51-SB-NAT	3	9 600-	1 9 600-	0 66 3663	1	NONELASTIC
51-SB-NAT	3	1 000-	0 1 000+	0 54 103	1	NONELASTIC
51-SB-NAT	3	2 500+	0 2 500+	0 56 34	4	NONELASTIC
51-SB-NAT	3	4 100+	0 4 100+	0 55 790	1	NONELASTIC
51-SB-NAT	3	1 400+	0 1 400+	0 60 576	1	NONELASTIC
51-SB-NAT	3	1 400+	0 1 400+	0 58 877	1	NONELASTIC
51-SB-NAT	3	1 400+	0 1 400+	0 57 319	1	NONELASTIC
51-SB-NAT	3	1 420+	0 1 420+	0 56 200	1	NONELASTIC
51-SB-NAT	3	1 450+	0 1 450+	0 54 103	1	NONELASTIC
52-TE-NAT	3	2 500+	0 2 500+	0 56 34	1	NONELASTIC
52-TE-NAT	3	2 500+	0 1 400+	0 55 790	2	NONELASTIC
52-TE-NAT	3	1 410+	0 1 410+	0 57 199	1	NONELASTIC
53-1-127	3	2 500+	0 2 500+	0 55 790	2	NONELASTIC
53-1-127	3	1 410+	0 1 410+	0 57 199	1	NONELASTIC
53-1-127	3	1 450+	0 1 450+	0 56 200	1	NONELASTIC
56-BA-NAT	3	1 000+	0 1 000+	0 54 103	1	NONELASTIC
56-BA-NAT	3	2 500+	0 2 500+	0 61 848	1	NONELASTIC
56-BA-NAT	3	2 500+	0 4 100+	0 55 790	3	NONELASTIC
56-BA-NAT	3	4 100+	0 4 100+	0 60 576	1	NONELASTIC
56-BA-NAT	3	1 410+	0 1 410+	0 57 199	1	NONELASTIC
58-CE-NAT	3	1 000+	0 1 000+	0 54 103	1	NONELASTIC
58-CE-NAT	3	1 480+	0 1 480+	0 67 1856	1	NONELASTIC
60-ND-NAT	3	5 000+	0 5 000+	0 61 1565	1	NONELASTIC
72-HF-NAT	3	1 000+	0 1 000+	0 54 103	1	NONELASTIC
73-TA-181	3	4 100+	0 4 100+	0 55 296	1	NONELASTIC
73-TA-181	3	2 500+	0 7 000+	0 56 151	2	NONELASTIC
73-TA-181	3	1 400+	0 1 400+	0 57 162	1	NONELASTIC
74-W-NAT	3	2 900+	0 1 020+	0 56 353	3	NONELASTIC
74-W-NAT	3	1 000+	0 7 000+	0 56 151	3	NONELASTIC
74-W-NAT	3	1 500+	0 1 500+	0 53 253	1	NONELASTIC
74-W-NAT	3	2 500+	0 2 500+	0 56 34	1	NONELASTIC
74-W-NAT	3	4 000+	0 1 400+	0 55 790	2	NONELASTIC
74-W-NAT	3	4 100+	0 4 100+	0 55 122	2	NONELASTIC
74-W-NAT	3	1 410+	0 1 410+	0 55 296	1	NONELASTIC
74-W-NAT	3	1 420+	0 1 420+	0 57 319	1	NONELASTIC
74-W-NAT	3	1 450+	0 1 450+	0 56 200	1	NONELASTIC
74-W-NAT	3	1 480+	0 1 480+	0 67 1856	1	NONELASTIC
79-AU-197	3	5 000+	0 5 000+	0 56 149	1	NONELASTIC
79-AU-197	3	1 000+	0 7 000+	0 56 151	5	NONELASTIC
79-AU-197	3	4 000+	0 4 000+	0 55 122	2	NONELASTIC
79-AU-197	3	4 100+	0 4 100+	0 55 296	1	NONELASTIC
79-AU-197	3	1 410+	0 1 410+	0 55 117	1	NONELASTIC
79-AU-197	3	1 415+	0 1 415+	0 52 82	1	NONELASTIC
79-AU-197	3	1 420+	0 1 420+	0 57 319	1	NONELASTIC
80-HG-NAT	3	2 900+	0 1 020+	0 56 353	3	NONELASTIC
80-HG-NAT	3	6 500+	0 6 500+	0 63 1750	1	NONELASTIC

TARGET CODE 5 E-MIN-NEV E-MA-NEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-1000 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
63-BI-209	3		1.450+	1.450+	1 56 200	1	NONELASTIC
63-BI-209	3		2.550+	1 2.550+	1 58 356	1	NONELASTIC
63-BI-209	3		3.790+ 2	1.731+ 3	71 3264	15	NONELASTIC
63-BI-209	3		1.400+ 3	1.400+ 3	55 2056	1	NONELASTIC
92-TH-232	3		1.000+ 0	1.000+ 0	54 103	1	NONELASTIC
92-TH-232	3		1.400+ 1	1.400+ 1	63 277	1	NONELASTIC
92-U -NAT	3		1.500+ 1	5.000+ 1	57 444	3	NONELASTIC
92-U -NAT	3		2.900+ 1	1.020+ 0	56 353	3	NONELASTIC
92-U -NAT	3		1.020+ 0	2.500+ 0	56 151	2	NONELASTIC
92-U -NAT	3		4.000+ 0	4.500+ 0	55 1383	2	NONELASTIC
92-U -NAT	3		1.400+ 1	1.400+ 1	58 877	1	NONELASTIC
92-U -NAT	3		1.470+ 1	1.470+ 1	63 1271	1	NONELASTIC
92-U -NAT	3		3.790+ 2	1.731+ 3	71 3264	15	NONELASTIC
92-U -NAT	3		1.400+ 3	1.400+ 3	55 2056	1	NONELASTIC
92-U -233	3		1.470+ 0	1.600+ 0	55 516	2	NONELASTIC
92-U -235	3		5.000+ 1	1.000+ 0	56 149	2	NONELASTIC
92-U -235	3		9.000+ 1	9.000+ 1	61 754	1	NONELASTIC
92-U -235	3		1.000+ 0	2.500+ 0	56 151	2	NONELASTIC
92-U -235	3		3.000+ 0	3.000+ 0	55 1448	1	NONELASTIC
92-U -235	3		4.000+ 0	4.500+ 0	55 1383	2	NONELASTIC
92-U -235	3		8.100+ 0	8.100+ 0	65 1228	1	NONELASTIC
92-U -235	3		8.100+ 0	1.410+ 1	58 592	3	NONELASTIC
92-U -235	3		1.340+ 1	1.870+ 1	61 706	4	NONELASTIC
92-U -238	3		1.500+ 1	5.000+ 1	57 156	3	NONELASTIC
92-U -238	3		2.500+ 1	3.000+ 0	45 1450	9	NONELASTIC
92-U -238	3		9.000+ 1	9.000+ 1	61 754	1	NONELASTIC
92-U -238	3		1.000+ 0	7.100+ 0	55 1448	4	NONELASTIC
92-U -238	3		4.000+ 0	1.550+ 1	55 1451	6	NONELASTIC
92-U -238	3		8.100+ 0	1.410+ 1	58 592	3	NONELASTIC
92-U -238	3		8.100+ 0	1.750+ 1	65 1228	3	NONELASTIC
92-U -238	3		1.335+ 1	1.854+ 1	61 743	7	NONELASTIC
92-U -238	3		1.340+ 1	1.840+ 1	61 706	4	NONELASTIC
92-U -238	3		1.400+ 1	1.400+ 1	51 1449	1	NONELASTIC
94-PU-239	3		5.000+ 1	1.000+ 0	56 149	2	NONELASTIC
94-PU-239	3		9.000+ 1	9.000+ 1	61 754	1	NONELASTIC
94-PU-239	3		4.000+ 0	4.500+ 0	55 1383	2	NONELASTIC
94-PU-239	3		8.100+ 0	1.410+ 1	58 592	3	NONELASTIC
94-PU-239	3		1.540+ 1	1.840+ 1	65 1228	2	NONELASTIC
94-PU-239	3		1.680+ 1	1.680+ 1	61 706	1	NONELASTIC
92-U -NAT	3	8	1.000+ 0	1.000+ 0	57 444	1	NONELASTIC
92-U -NAT	3	8	2.500+ 1	1.000+ 0	57 444	4	NONELASTIC
94-PU-239	3	8	2.500+ 1	1.000+ 0	57 444	4	NONELASTIC
3-LI-6	4		1.400+ 1	1.400+ 1	63 2335	1	NEUTRON EMISSION
3-LI-6	4		1.410+ 1	1.410+ 1	64 1633	1	NEUTRON EMISSION
3-LI-7	4		1.400+ 1	1.400+ 1	63 2335	1	NEUTRON EMISSION
3-LI-7	4		1.410+ 1	1.410+ 1	64 1633	1	NEUTRON EMISSION
25-MN-55	4		1.436+ 1	1.436+ 1	72 4072	1	NEUTRON EMISSION
26-Fe-NAT	4		1.436+ 1	1.436+ 1	72 4072	1	NEUTRON EMISSION
27-CO-59	4		1.436+ 1	1.436+ 1	72 4072	1	NEUTRON EMISSION
29-CU-NAT	4		1.436+ 1	1.436+ 1	72 4072	1	NEUTRON EMISSION
41-NB-93	4		1.436+ 1	1.436+ 1	72 4072	1	NEUTRON EMISSION
83-BI-209	4		1.436+ 1	1.436+ 1	72 4072	1	NEUTRON EMISSION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION		
3-LI-7	4	1	5.150+	0	7.540+	0	63 841		
N 83-BI-209	4	10	1.436+	1	1.436+	1	72 4072		
1-H-1	5	5	6.110-	5	6.110-	5	65 786		
C D20	5	5	5.450-10	5	5.520-10	69	2508		
2-HE-NAT	5	5	2.530-8	2.530-8	63 777	1	TOTAL SCATTERING		
2-HE-NAT	5	5	2.537-8	2.530-8	69 2998	1	TOTAL SCATTERING		
3-LI-NAT	5	5	5.000-2	2.250+	0	60 571	41	TOTAL SCATTERING	
3-LI-6	5	5	5.000-2	2.250+	0	60 571	34	TOTAL SCATTERING	
3-LI-7	5	5	1.400+	1	1.400+	1	65 1639		
5-B-NAT	5	5	6.000-2	1.802+	0	56 231	20	TOTAL SCATTERING	
5-B-10	5	5	4.700-4	1.271-	1	70 3935	30	TOTAL SCATTERING	
5-B-10	5	5	7.020+	0	7.950+	0	69 2999	2	TOTAL SCATTERING
5-C-NAT	5	5	3.390+	0	6.110-	5	65 786	16	TOTAL SCATTERING
5-C-NAT	5	5	1.958+	0	2.088+	0	60 571	16	TOTAL SCATTERING
9-F-19	5	5	2.000-	1	1.957+	0	60 571	87	TOTAL SCATTERING
10-NE-NAT	5	5	2.530-8	2.530-8	63 777	1	TOTAL SCATTERING		
10-NE-NAT	5	5	2.530-8	2.530-8	69 2998	1	TOTAL SCATTERING		
11-NA-23	5	5	3.000-2	1.372+	0	56 231	21	TOTAL SCATTERING	
11-NA-23	5	5	2.050-	1	2.200+	0	64 3058	23	TOTAL SCATTERING
11-NA-23	5	5	9.800-	1	9.800-	1	63 879	76	TOTAL SCATTERING
11-NA-23	5	5	3.000-2	1.370+	0	56 231	19	TOTAL SCATTERING	
12-MG-NAT	5	5	4.500+	0	2.200+	0	70 3055	19	TOTAL SCATTERING
12-MG-NAT	5	5	2.500+	0	2.500+	0	46 197	1	TOTAL SCATTERING
13-AL-27	5	5	3.000-	2	1.450+	0	56 231	31	TOTAL SCATTERING
13-AL-27	5	5	2.000-	1	2.200+	0	64 3058	24	TOTAL SCATTERING
13-AL-27	5	5	9.800-	1	9.800-	1	63 879	1	TOTAL SCATTERING
14-SI-NAT	5	5	3.000-2	1.810+	0	60 571	62	TOTAL SCATTERING	
15-P-31	5	5	6.000-2	1.800+	0	56 231	22	TOTAL SCATTERING	
15-P-31	5	5	2.000-	1	2.000+	0	64 3058	23	TOTAL SCATTERING
16-S-NAT	5	5	6.000-2	1.800+	0	56 231	22	TOTAL SCATTERING	
16-S-NAT	5	5	5.780-	1	6.080-	1	60 571	22	TOTAL SCATTERING
18-AR-NAT	5	5	2.530-8	2.530-8	63 777	1	TOTAL SCATTERING		
18-AR-NAT	5	5	2.530-8	2.530-8	69 2998	1	TOTAL SCATTERING		
18-AR-36	5	5	7.560-8	7.560-8	57 2029	1	TOTAL SCATTERING		
18-AR-40	5	5	7.020-8	7.020-8	57 2029	1	TOTAL SCATTERING		
19-K-NAT	5	5	3.000-2	1.368+	0	56 231	24	TOTAL SCATTERING	
20-CA-NAT	5	5	3.000-2	1.810+	0	60 571	1	TOTAL SCATTERING	
22-11-NAT	5	5	2.260-	1	1.448+	0	60 2561	18	TOTAL SCATTERING
22-11-46	5	5	7.000-	8	7.000-	8	60 2561	1	TOTAL SCATTERING
22-11-46	5	5	7.000-	8	7.000-	8	60 2561	1	TOTAL SCATTERING
22-11-49	5	5	7.000-	8	7.000-	8	60 2561	1	TOTAL SCATTERING
22-11-50	5	5	6.000-2	1.800+	0	56 231	23	TOTAL SCATTERING	
23-V-51	5	5	6.000-2	1.800+	0	56 231	22	TOTAL SCATTERING	
24-CR-NAT	5	5	9.800-	1	9.800-	1	63 879	1	TOTAL SCATTERING
24-CR-NAT	5	5	6.000-2	1.800+	0	56 231	41	TOTAL SCATTERING	
26-FE-NAT	5	5	9.800-	1	9.800-	1	63 879	1	TOTAL SCATTERING
26-FE-NAT	5	5	3.000-2	1.368+	0	56 231	24	TOTAL SCATTERING	

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	66-DY-164	5		2.530-	8	2.530- 8	71 3407	1 TOTAL SCATTERING
	67-HO-165	5		2.530-	8	2.530- 8	65 2983	1 TOTAL SCATTERING
N	67-HO-165	5		2.530-	8	2.530- 8	67 2256	1 TOTAL SCATTERING
	67-HO-165	5		9.800-	1	9.800- 1	63 879	1 TOTAL SCATTERING
	68-ER-NAT	5		2.530-	8	2.530- 8	53 2766	1 TOTAL SCATTERING
	68-ER-NAT	5		2.530-	8	2.530- 8	66 2221	1 TOTAL SCATTERING
	68-ER-NAT	5		9.800-	1	9.800- 1	63 879	1 TOTAL SCATTERING
N	69-TM-169	5		2.530-	8	2.530- 8	67 2256	1 TOTAL SCATTERING
N	70-YB-NAT	3		2.500-	8	4.060- 6	69 3398	54 TOTAL SCATTERING
	70-YB-NAT	5		2.530-	8	2.530- 8	61 2845	1 TOTAL SCATTERING
	70-YB-NAT	5		2.530-	8	2.530- 8	66 2221	1 TOTAL SCATTERING
N	70-YB-NAT	5		2.530-	8	2.530- 8	67 2256	1 TOTAL SCATTERING
	70-YB-NAT	5		9.800-	1	9.800- 1	63 879	1 TOTAL SCATTERING
	71-LU-NAT	5		2.530-	8	2.530- 8	61 2845	1 TOTAL SCATTERING
	71-LU-NAT	5		2.530-	8	2.530- 8	63 2821	1 TOTAL SCATTERING
N	71-LU-NAT	5		2.530-	8	2.530- 8	67 2256	1 TOTAL SCATTERING
	72-HF-NAT	5		2.530-	8	2.530- 8	52 437	1 TOTAL SCATTERING
	73-TA-NAT	5		9.800-	1	9.800- 1	63 879	1 TOTAL SCATTERING
	73-TA-181	5		3.000-	2	1.375+ 0	56 231	20 TOTAL SCATTERING
	74-W-NAT	5		6.000-	2	1.044+ 0	56 231	18 TOTAL SCATTERING
	78-PT-NAT	5		1.350-	1	1.368+ 0	56 231	15 TOTAL SCATTERING
	79-AU-197	5		3.000-	2	1.044+ 0	56 231	19 TOTAL SCATTERING
	81-TL-NAT	5		6.000-	2	1.800+ 0	56 231	23 TOTAL SCATTERING
	82-PB-NAT	5		3.000-	2	1.450+ 0	56 231	31 TOTAL SCATTERING
	82-PB-NAT	5		5.000-	2	2.250+ 0	60 571	31 TOTAL SCATTERING
	82-PB-NAT	5		9.900-	1	9.800- 1	63 879	1 TOTAL SCATTERING
	82-PB-NAT	5		1.000+	1	1.000+ 1	56 21	1 TOTAL SCATTERING
	83-BI-209	5		3.000-	2	1.368+ 0	56 231	18 TOTAL SCATTERING
	83-BI-209	5		5.000-	1	5.000- 1	56 149	1 TOTAL SCATTERING
	83-BI-209	5		1.000+	1	1.000+ 1	56 21	1 TOTAL SCATTERING
	90-TH-232	5		6.000-	2	1.368+ 0	56 231	25 TOTAL SCATTERING
	92-U-NAT	5		5.000-	2	2.250+ 0	60 571	31 TOTAL SCATTERING
	92-U-NAT	5		9.800-	1	9.800- 1	63 879	1 TOTAL SCATTERING
N	92-U-223	5		9.700-	8	4.600- 7	73 4074	11 TOTAL SCATTERING
	92-U-238	5		6.000-	2	1.368+ 0	56 231	28 TOTAL SCATTERING
	92-U-238	5		5.000-	1	1.000+ 0	56 149	2 TOTAL SCATTERING
	92-U-238	5		8.500-	1	1.495+ 0	63 1272	13 TOTAL SCATTERING
N	92-U-238	5		1.500+	0	5.500+ 0	71 3645	7 TOTAL SCATTERING
	UO2	5		2.510-10		1.092- 9	69 2508	7 TOTAL SCATTERING
N	92-U-238	5	1	4.340+	0	4.920+ 0	73 3453	2 TOTAL SCATTERING
	73-TA-NAT	5	8	1.520+	1	1.520+ 1	62 1268	1 TOTAL SCATTERING
N	74-W-NAT	5	8	4.340+	0	6.560+ 0	73 3531	5 TOTAL SCATTERING
	83-BI-209	5	8	1.520+	1	1.520+ 1	62 1268	1 TOTAL SCATTERING
	90-TH-232	5	8	1.520+	1	1.520+ 1	62 1268	1 TOTAL SCATTERING
	92-U-NAT	5	8	1.520+	1	1.520+ 1	62 1268	1 TOTAL SCATTERING
N	92-U-235	5	8	5.500-	1	2.000+ 0	59 77	3 TOTAL SCATTERING
	94-PU-239	5	8	1.911-	1	3.800- 1	63 2898	5 TOTAL SCATTERING
	94-PU-239	5	8	3.010-	1	1.450+ 0	2 67 885	127 TOTAL SCATTERING
N	94-PU-239	5	8	5.000-	1	2.000+ 0	59 77	3 TOTAL SCATTERING
N	94-PU-240	5	80	1.200-	5	2.989- 3	68 3647	7114 TOTAL SCATTERING
	11-NA-23	6		1.400+	1	1.400+ 1	61 883	1 NONELASTIC EMISSION
	26-FE-NAT	6		1.400+	1	1.400+ 1	61 883	1 NONELASTIC EMISSION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
22-NI-NAT	6	1	1.400	1	61 883	1	MONELASTIC EMISSION
22-FE-NAT	6	1	1.400	1	61 883	1	MONELASTIC EMISSION
32-TA-232	6	3	3.000	0	65 1264	3	MONELASTIC EMISSION
32-U-238	6	3	3.000	0	65 1264	3	MONELASTIC EMISSION
32-U-238	6	1	1.400	1	57 338	1	MONELASTIC EMISSION
32-U-238	6	1	1.410	1	68 2085	1	MONELASTIC EMISSION
3-LI-7	11	1	1.410	1	61 487	1	N,N'
4-BE-9	11	1	1.400	1	57 162	1	N,N'
N 5-S-10	11	9	9.720	0	70 3938	1	N,N'
N 5-S-11	11	9	9.720	0	70 3938	1	N,N'
7-N-NAT	11	1	1.410	1	54 110	1	N,N'
N 8-O-15	11	1	1.410	1	53 289	1	N,N'
N 8-O-16	11	1	1.460	1	69 4078	4	N,N'
N 8-O-16	11	1	1.510	1	71 3713	1	N,N'
N 8-O-18	11	3	3.250	0	64 1903	4	N,N'
N 9-F-19	11	1	1.400	1	70 3386	33	N,N'
N 9-F-19	11	2	2.800	0	69 3400	1	N,N'
N 11-NA-23	11	4	4.470	1	75 3837	945	N,N'
N 11-NA-23	11	5	5.000	0	71 3793	1	N,N'
N 12-MG-NAT	11	1	1.600	0	63 865	14	N,N'
N 13-AL-27	11	1	1.020	0	67 4029	30	N,N'
N 13-AL-27	11	2	2.800	0	69 3400	1	N,N'
N 13-AL-27	11	7	7.000	0	63 836	1	N,N'
N 14-SI-NAT	11	2	2.830	0	66 1554	9	N,N'
N 14-SI-28	11	1	1.781	0	75 3837	253	N,N'
C 14-SI-28	11	2	2.450	0	60 1756	5	N,N'
C 16-S-32	11	4	4.000	0	60 1756	3	N,N'
18-K-41	11	3	3.760	0	65 1785	1	N,N'
18-K-41	11	1	1.490	0	65 1785	4	N,N'
23-V-NAT	11	7	7.000	0	63 836	1	N,N'
N 23-V-51	11	9	9.250	1	73 3799	6	N,N'
24-CR-NAT	11	9	9.800	1	62 606	10	N,N'
24-CR-50	11	9	9.800	1	62 606	10	N,N'
24-CR-52	11	1	1.970	0	62 606	7	N,N'
24-CR-53	11	9	9.800	1	62 606	10	N,N'
24-CR-54	11	9	9.800	1	62 606	10	N,N'
25-MN-55	11	7	7.000	0	63 836	1	N,N'
N 26-FE-NAT	11	9	9.300	1	70 3386	33	N,N'
26-FE-NAT	11	1	1.000	0	63 773	2	N,N'
26-FE-NAT	11	1	1.260	0	66 1832	5	N,N'
26-FE-NAT	11	2	2.000	0	64 1834	7	N,N'
26-FE-NAT	11	2	2.200	0	58 497	1	N,N'
N 26-FE-NAT	11	2	2.800	0	69 3400	1	N,N'
26-FE-NAT	11	6	6.040	0	65 889	1	N,N'
26-FE-NAT	11	7	7.000	0	63 836	1	N,N'
N 26-FE-NAT	11	1	1.410	1	74 3826	1	N,N'
N 26-FE-NAT	11	1	1.436	1	72 4072	1	N,N'
26-FE-54	11	2	2.500	0	55 41	1	N,N'
N 26-FE-54	11	1	1.510	1	69 3662	1	N,N'
N 26-FE-56	11	7	7.938	1	75 3837	585	N,N'
26-FE-56	11	1	1.830	0	65 2321	3	N,N'
26-FE-56	11	2	2.500	0	55 41	1	N,N'

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	26-FE-56	11	1.510+	1.510+	69 3662	1	N,N'
N	27-CO-59	11	1.140+	0.4660+	70 3386	19	N,N'
N	28-NI-NAT	11	3.790+	0.5420+	70 3386	7	N,N'
N	28-NI-58	11	1.510+	1.510+	69 3662	1	N,N'
N	28-NI-60	11	1.510+	1.510+	69 3662	1	N,N'
N	28-NI-62	11	1.510+	1.510+	69 3662	1	N,N'
N	29-CU-NAT	11	2.800+	0.2800+	69 3400	1	N,N'
N	29-CU-NAT	11	5.000+	0.7000+	63 836	2	N,N'
N	29-CU-NAT	11	1.435+	1.436+	72 4072	1	N,N'
N	29-CU-63	11	1.510+	1.510+	69 3662	1	N,N'
N	29-CU-65	11	1.510+	1.510+	69 3662	1	N,N'
	32-ZE-NAT	11	7.550+	0.7550+	69 2850	1	N,N'
	33-AS-75	11	7.000+	0.7000+	63 836	1	N,N'
	34-SE-NAT	11	7.000+	0.7000+	63 836	1	N,N'
	36-SR-NAT	11	7.000+	0.7000+	63 836	1	N,N'
	39-Y -89	11	9.800+	1.3360+	62 599	14	N,N'
	39-Y -89	11	6.040+	0.6040+	65 889	1	N,N'
	40-ZR-NAT	11	1.410+	1.410+	57 317	1	N,N'
	41-NB-93	11	4.000+	1.200+	63 773	5	N,N'
N	41-NB-93	11	1.000+	3.500+	63 865	9	N,N'
N	41-NB-93	11	1.500+	5.000+	71 3926	8	N,N'
	41-NB-93	11	4.000+	7.000+	63 836	4	N,N'
C	42-MO-NAT	11	4.000+	1.000+	63 773	4	N,N'
N	42-MO-NAT	11	1.500+	5.000+	70 3928	6	N,N'
	42-MO-NAT	11	4.100+	0.4100+	60 576	1	N,N'
	42-MO-NAT	11	6.040+	0.6040+	55 889	1	N,N'
	45-RH-103	11	6.040+	0.6040+	65 889	1	N,N'
	46-CD-NAT	11	4.000+	1.000+	63 773	4	N,N'
	46-CD-NAT	11	5.000+	2.100+	57 236	13	N,N'
N	46-CD-NAT	11	9.600+	1.9600+	66 3863	1	N,N'
	46-CD-NAT	11	6.040+	0.6040+	65 889	1	N,N'
	49-IN-NAT	11	4.000+	7.000+	63 836	4	N,N'
N	50-SN-NAT	11	9.600+	1.9600+	66 3863	1	N,N'
	50-SN-NAT	11	6.040+	0.6040+	65 889	1	N,N'
	51-SB-NAT	11	4.000+	1.000+	63 773	4	N,N'
	51-SB-NAT	11	4.000+	1.200+	63 828	5	N,N'
	51-SB-NAT	11	4.000+	7.000+	63 836	2	N,N'
	53-I -127	11	4.000+	7.000+	63 836	2	N,N'
	57-LA-NAT	11	4.000+	7.000+	63 836	3	N,N'
	58-CE-NAT	11	5.000+	7.000+	63 836	2	N,N'
N	73-TA-NAT	11	7.000+	7.000+	63 836	1	N,N'
	73-TA-181	11	1.700+	1.270+	70 3386	27	N,N'
	73-TA-181	11	1.400+	1.400+	57 162	1	N,N'
	74-W -NAT	11	4.000+	1.000+	63 773	4	N,N'
	74-W -NAT	11	7.000+	7.000+	63 836	1	N,N'
	79-AU-197	11	4.000+	7.000+	63 836	2	N,N'
	79-AU-197	11	1.318+	1.605+	67 2888	12	N,N'
	80-HG-NAT	11	4.000+	1.000+	63 773	4	N,N'
	81-TL-NAT	11	4.000+	7.000+	63 836	4	N,N'
	82-PB-NAT	11	8.000+	1.600+	55 514	9	N,N'
N	82-PB-NAT	11	2.800+	0.2800+	69 3400	1	N,N'
N	82-PB-NAT	11	1.510+	1.510+	69 3662	1	N,N'

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-PEV	E-MAX-PEV	REFERENCE	POINTS	REACTION DESCRIPTION
62-60-124	11	1	1.420*	1	1.460*	1	72 3427
62-60-125	11	7	1.000*	0	63 836	1	N.N.
62-60-126	11	7	1.000*	0	63 836	1	N.N.
63-61-125	11	9	1.000*	0	55 514	9	N.N.
63-61-126	11	3	1.020*	0	3.520*	0	55 514
63-61-127	11	6	6.040*	0	67 4029	28	N.N.
63-61-128	11	6	6.040*	0	65 889	1	N.N.
63-61-129	11	7	1.000*	0	63 836	1	N.N.
63-61-130	11	1	1.400*	1	57 162	1	N.N.
63-61-131	11	1	1.400*	1	59 3662	1	N.N.
63-61-132	11	4	1.510*	1	63 773	4	N.N.
63-61-133	11	4	1.510*	1	63 773	4	N.N.
63-61-134	11	5	1.500*	0	62 693	5	N.N.
63-61-135	11	4	1.000*	0	63 773	4	N.N.
63-61-136	11	1	1.000*	0	61 754	1	N.N.
63-61-137	11	9	1.000*	0	72 3788	3	N.N.
63-61-138	11	2	1.000*	0	69 2578	3	N.N.
63-61-139	11	4	1.000*	0	63 2916	3	N.N.
63-61-140	11	1	1.500*	1	57 156	3	N.N.
63-61-141	11	5	1.000*	0	56 215	6	N.N.
63-61-142	11	9	1.000*	0	57 338	1	N.N.
63-61-143	11	1	1.400*	1	61 652	1	N.N.
63-61-144	11	1	1.410*	1	61 1270	1	N.N.
63-61-145	11	1	1.420*	1	62 1347	1	N.N.
63-61-146	11	9	1.000*	0	61 754	1	N.N.
63-61-147	11	3	1.000*	0	69 2598	3	N.N.
63-61-148	11	4	1.000*	0	63 841	5	N.N.
63-61-149	11	3	1.000*	0	68 1632	3	N.N.
63-61-150	11	1	1.400*	1	65 1627	1	N.N.
63-61-151	11	5	1.000*	0	55 40	35	N.N.
63-61-152	11	1	1.020*	0	68 2582	1	N.N.
63-61-153	11	1	1.000*	0	63 828	10	N.N.
63-61-154	11	1	1.000*	0	63 841	6	N.N.
63-61-155	11	3	1.000*	0	68 1632	1	N.N.
63-61-156	11	1	1.400*	1	65 1639	1	N.N.
63-61-157	11	1	1.400*	1	66 1640	1	N.N.
63-61-158	11	3	1.000*	0	59 500	3	N.N.
63-61-159	11	7	1.000*	0	64 177	1	N.N.
63-61-160	11	1	1.400*	1	58 405	1	N.N.
63-61-161	11	1	1.400*	1	66 2585	1	N.N.
63-61-162	11	1	1.400*	1	68 3106	1	N.N.
63-61-163	11	1	1.400*	1	61 743	1	N.N.
63-61-164	11	1	1.400*	1	62 1060	1	N.N.
63-61-165	11	2	1.400*	1	70 3754	18	N.N.
63-61-166	11	7	1.400*	1	68 3106	2	N.N.
63-61-167	11	3	1.400*	1	68 3106	5	N.N.
63-61-168	11	7	1.400*	1	68 3106	5	N.N.
63-61-169	11	9	1.400*	1	68 3106	3	N.N.
63-61-170	11	1	1.400*	1	68 3106	3	N.N.
63-61-171	11	1	1.400*	1	68 3106	3	N.N.
63-61-172	11	1	1.400*	1	68 3106	3	N.N.
63-61-173	11	1	1.400*	1	68 3106	3	N.N.
63-61-174	11	1	1.400*	1	68 3106	3	N.N.
63-61-175	11	1	1.400*	1	68 3106	3	N.N.
63-61-176	11	1	1.400*	1	68 3106	3	N.N.
63-61-177	11	1	1.400*	1	68 3106	3	N.N.
63-61-178	11	1	1.400*	1	68 3106	3	N.N.
63-61-179	11	1	1.400*	1	68 3106	3	N.N.
63-61-180	11	1	1.400*	1	68 3106	3	N.N.
63-61-181	11	1	1.400*	1	68 3106	3	N.N.
63-61-182	11	1	1.400*	1	68 3106	3	N.N.
63-61-183	11	1	1.400*	1	68 3106	3	N.N.
63-61-184	11	1	1.400*	1	68 3106	3	N.N.
63-61-185	11	1	1.400*	1	68 3106	3	N.N.
63-61-186	11	1	1.400*	1	68 3106	3	N.N.
63-61-187	11	1	1.400*	1	68 3106	3	N.N.
63-61-188	11	1	1.400*	1	68 3106	3	N.N.
63-61-189	11	1	1.400*	1	68 3106	3	N.N.
63-61-190	11	1	1.400*	1	68 3106	3	N.N.
63-61-191	11	1	1.400*	1	68 3106	3	N.N.
63-61-192	11	1	1.400*	1	68 3106	3	N.N.
63-61-193	11	1	1.400*	1	68 3106	3	N.N.
63-61-194	11	1	1.400*	1	68 3106	3	N.N.
63-61-195	11	1	1.400*	1	68 3106	3	N.N.
 					

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	6-C -12	11	1	1.400+ 1	1.400+ 1	66 1659	3 N,N'
	6-C -12	11	1	1.410+ 1	1.410+ 1	59 560	2 N,N'
	6-C -12	11	1	1.410+ 1	1.410+ 1	64 845	2 N,N'
	6-C -12	11	1	1.410+ 1	1.410+ 1	65 472	1 N,N'
	6-C -12	11	1	1.410+ 1	1.410+ 1	65 1639	3 N,N'
	6-C -12	11	1	1.410+ 1	1.410+ 1	66 1556	1 N,N'
N	6-C -12	11	1	1.410+ 1	1.410+ 1	66 3732	3 N,N'
	6-C -12	11	1	1.500+ 1	1.500+ 1	69 3694	1 N,N'
	6-C -12	11	1	1.530+ 1	1.530+ 1	68 2746	2 N,N'
N	6-C -12	11	1	1.825+ 1	1.928+ 1	69 3708	2 N,N'
N	7-N -14	11	1	6.010+ 0	8.560+ 0	74 3447	17 N,N'
	8-O -16	11	1	7.540+ 0	8.560+ 0	72 3222	3 N,N'
	8-O -16	11	1	1.410+ 1	1.410+ 1	66 1681	3 N,N'
N	9-F -19	11	1	2.400+ 1	1.690+ 0	71 3519	30 N,N'
	9-F -19	11	1	5.650+ 1	5.650+ 1	60 696	2 N,N'
	11-NA-23	11	1	5.500+ 1	3.970+ 0	62 714	29 N,N'
	11-NA-23	11	1	6.000+ 1	1.200+ 0	63 828	4 N,N'
N	11-NA-23	11	1	7.500+ 1	1.550+ 0	71 3272	50 N,N'
	11-NA-23	11	1	8.250+ 1	1.500+ 0	66 885	25 N,N'
N	11-NA-23	11	1	5.000+ 0	5.000+ 0	71 3793	7 N,N'
C	11-NA-23	11	1	5.440+ 0	8.520+ 0	72 3228	39 N,N'
	12-MG-NAT	11	1	5.440+ 0	6.560+ 0	70 3229	19 N,N'
	12-MG-24	11	1	1.600+ 0	4.000+ 0	64 865	14 N,N'
	12-MG-24	11	1	2.000+ 0	5.000+ 0	62 691	4 N,N'
	12-MG-24	11	1	1.410+ 1	1.410+ 1	64 845	1 N,N'
	12-MG-25	11	1	2.000+ 0	3.000+ 0	64 865	9 N,N'
	12-MG-26	11	1	2.000+ 0	3.500+ 0	64 865	9 N,N'
	13-AL-27	11	1	1.200+ 0	1.200+ 0	63 828	2 N,N'
	13-AL-27	11	1	1.400+ 0	3.990+ 0	62 1012	22 N,N'
	13-AL-27	11	1	2.760+ 0	2.760+ 0	63 820	2 N,N'
N	13-AL-27	11	1	2.960+ 0	3.360+ 0	67 3397	2 N,N'
	13-AL-27	11	1	3.500+ 0	3.500+ 0	68 2371	8 N,N'
	13-AL-27	11	1	3.500+ 0	4.800+ 0	61 1751	12 N,N'
C	13-AL-27	11	1	4.190+ 0	8.560+ 0	70 3230	75 N,N'
	14-SI-NAT	11	1	4.000+ 0	7.500+ 0	69 2862	12 N,N'
N	14-SI-NAT	11	1	9.800+ 0	9.800+ 0	72 3440	1 N,N'
	14-SI-28	11	1	3.500+ 0	4.870+ 0	61 1751	5 N,N'
	14-SI-28	11	1	4.000+ 0	5.750+ 0	67 2591	8 N,N'
C	14-SI-28	11	1	5.440+ 0	8.560+ 0	70 3231	23 N,N'
	14-SI-28	11	1	1.410+ 1	1.410+ 1	64 845	1 N,N'
	15-P -31	11	1	3.850+ 0	4.800+ 0	61 1751	8 N,N'
C	16-S -NAT	11	1	5.000+ 0	8.520+ 0	70 3175	37 N,N'
N	16-S -NAT	11	1	9.600+ 0	9.800+ 0	72 3440	1 N,N'
	16-S -NAT	11	1	1.400+ 1	1.400+ 1	62 1060	1 N,N'
	16-S -32	11	1	3.500+ 0	4.800+ 0	61 1751	5 N,N'
	16-S -32	11	1	1.410+ 1	1.410+ 1	64 845	1 N,N'
	19-K -39	11	1	3.760+ 0	3.760+ 0	65 1785	3 N,N'
C	20-CA-NAT	11	1	5.000+ 0	8.520+ 0	70 3192	27 N,N'
N	22-TI-NAT	11	1	4.070+ 0	8.560+ 0	73 3448	35 N,N'
N	22-TI-46	11	1	9.050+ 1	1.485+ 0	74 4069	35 N,N'
	22-TI-48	11	1	9.890+ 1	1.485+ 0	73 4069	102 N,N'
	23-V -NAT	11	1	1.520+ 0	4.560+ 0	70 3360	44 N,N'

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	22-CP-NAT	11	4.190+ 0	8.560+ 0	70 3581	1065	N,N'
N	22-CP-NAT	11	4.190+ 0	4.500+ 0	72 3590	71	N,N'
N	22-CP-NAT	11	2.350+ 0	2.350+ 0	65 1809	4	N,N'
N	22-CP-NAT	11	2.500+ 0	2.500+ 0	54 301	1	N,N'
N	22-CP-NAT	11	4.070+ 0	8.560+ 0	74 3550	35	N,N'
N	24-CR-52	11	8.930+ 1	3.993+ 0	73 3564	37	N,N'
N	24-CR-52	11	1.455+ 0	3.993+ 0	73 3564	93	N,N'
N	24-CR-52	11	1.600+ 0	4.105+ 0	63 865	37	N,N'
N	24-CR-52	11	1.780+ 0	3.760+ 0	67 3397	10	N,N'
N	24-CR-52	11	1.970+ 0	3.310+ 0	62 606	22	N,N'
N	24-CR-53	11	8.930+ 1	3.993+ 0	73 3564	153	N,N'
N	24-CR-53	11	9.800+ 1	3.310+ 0	62 606	36	N,N'
N	24-CR-54	11	8.930+ 1	3.993+ 0	73 3564	37	N,N'
N	25-MN-55	11	4.000+ 1	1.200+ 0	63 828	6	N,N'
N	25-MN-55	11	1.000+ 0	3.600+ 0	72 3590	83	N,N'
N	25-MN-55	11	2.210+ 0	2.210+ 0	63 1822	5	N,N'
N	25-MN-55	11	2.500+ 0	2.500+ 0	56 2337	3	N,N'
N	26-FE-NAT	11	1.400+ 0	3.990+ 0	65 1016	28	N,N'
N	26-FE-NAT	11	2.000+ 0	5.000+ 0	64 1834	25	N,N'
N	26-FE-NAT	11	2.500+ 0	2.500+ 0	54 301	1	N,N'
C	26-FE-NAT	11	4.190+ 0	8.560+ 0	70 3171	180	N,N'
N	26-FE-NAT	11	4.560+ 0	4.560+ 0	66 1831	5	N,N'
N	26-FE-NAT	11	1.455+ 0	3.962+ 0	75 3889	36	N,N'
N	26-FE-NAT	11	4.040+ 0	5.60+ 0	71 3214	14	N,N'
N	26-FE-NAT	11	5.500+ 0	8.500+ 0	74 3589	52	N,N'
N	26-FE-NAT	11	2.470+ 1	1.162+ 0	73 4069	67	N,N'
N	26-FE-NAT	11	8.642+ 1	2.478+ 0	62 597	55	N,N'
N	26-FE-NAT	11	8.780+ 1	3.962+ 0	75 3889	125	N,N'
N	26-FE-NAT	11	9.200+ 1	1.790+ 0	71 3243	10	N,N'
N	26-FE-NAT	11	1.000+ 0	1.200+ 0	63 828	2	N,N'
N	26-FE-NAT	11	1.000+ 0	3.950+ 0	62 1845	27	N,N'
N	26-FE-NAT	11	1.125+ 0	1.500+ 0	68 1546	26	N,N'
N	26-FE-NAT	11	1.370+ 0	3.60+ 0	67 3397	14	N,N'
N	26-FE-NAT	11	3.990+ 0	3.690+ 0	65 1016	7	N,N'
N	26-FE-NAT	11	4.600+ 0	7.550+ 0	68 1998	46	N,N'
N	26-FE-NAT	11	5.050+ 0	5.580+ 0	71 3214	12	N,N'
N	27-CO-59	11	1.760+ 0	1.760+ 0	71 3519	6	N,N'
C	27-CO-59	11	4.190+ 0	8.560+ 0	70 3170	39	N,N'
N	28-NI-NAT	11	4.070+ 0	8.560+ 0	74 3460	22	N,N'
N	28-NI-NAT	11	1.420+ 0	1.790+ 0	71 3243	4	N,N'
N	28-NI-NAT	11	1.460+ 0	1.645+ 0	71 4033	13	N,N'
N	28-NI-NAT	11	5.050+ 0	5.580+ 0	71 3214	8	N,N'
N	28-NI-NAT	11	1.335+ 0	1.645+ 0	71 4033	21	N,N'
N	28-NI-NAT	11	1.340+ 0	1.790+ 0	71 3243	5	N,N'
C	28-NI-NAT	11	1.400+ 0	4.100+ 0	63 865	51	N,N'
N	28-NI-NAT	11	4.070+ 0	5.500+ 0	74 3460	14	N,N'
N	28-NI-NAT	11	5.050+ 0	5.580+ 0	71 3214	8	N,N'
N	28-NI-NAT	11	6.440+ 0	8.560+ 0	70 3172	5	N,N'
N	28-NI-NAT	11	1.340+ 0	1.790+ 0	71 3243	5	N,N'
N	28-NI-NAT	11	6.816+ 1	1.359+ 0	62 597	53	N,N'
N	28-NI-NAT	11	8.000+ 1	1.203+ 0	63 828	5	N,N'
N	28-NI-NAT	11	1.000+ 0	1.500+ 0	64 885	30	N,N'

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	29-CU-63	11	1	5.500+ 0	8.500+ 0	74 3831	12 N,N'
	29-CU-65	11	1	1.100+ 0	1.500+ 0	64 885	17 N,N'
N	29-CU-65	11	1	5.500+ 0	8.500+ 0	74 3831	10 N,N'
N	30-ZN-NAT	11	1	1.460+ 1	1.460+ 1	69 4078	1 N,N'
N	30-ZN-64	11	1	1.000+ 0	1.635+ 0	71 4033	40 N,N'
N	30-ZN-66	11	1	1.040+ 0	1.635+ 0	71 4033	38 N,N'
N	30-ZN-68	11	1	1.065+ 0	1.635+ 0	71 4033	34 N,N'
N	32-GE-70	11	1	1.050+ 0	1.420+ 0	72 4057	36 N,N'
C	32-GE-70	11	1	1.750+ 0	2.550+ 0	69 2763	5 N,N'
N	32-GE-72	11	1	7.000+ 1	1.090+ 0	72 4057	42 N,N'
C	32-GE-72	11	1	1.750+ 0	2.550+ 0	69 2763	9 N,N'
N	32-GE-74	11	1	5.980+ 1	8.700+ 1	72 4057	20 N,N'
N	32-GE-74	11	1	1.750+ 0	2.550+ 0	69 2763	16 N,N'
N	32-GE-76	11	1	5.600+ 1	8.700+ 1	72 4057	24 N,N'
C	32-GE-76	11	1	1.750+ 0	2.550+ 0	69 2763	8 N,N'
N	34-SE-76	11	1	5.600+ 1	1.545+ 0	72 4034	175 N,N'
N	34-SE-76	11	1	6.000+ 0	8.000+ 0	75 3903	2 N,N'
N	34-SE-78	11	1	6.170+ 1	1.545+ 0	72 4034	167 N,N'
N	34-SE-78	11	1	6.000+ 0	8.000+ 0	75 3903	1 N,N'
N	34-SE-80	11	1	6.730+ 1	1.535+ 0	72 4034	155 N,N'
N	34-SE-80	11	1	8.000+ 0	8.000+ 0	75 3903	1 N,N'
N	34-SE-82	11	1	6.570+ 1	1.535+ 0	72 4034	158 N,N'
N	34-SE-82	11	1	6.000+ 0	8.000+ 0	75 3903	2 N,N'
	39-Y -89	11	1	8.300+ 1	1.740+ 0	55 300	18 N,N'
	39-Y -89	11	1	9.800+ 1	3.380+ 0	62 599	48 N,N'
	39-Y -89	11	1	3.770+ 0	3.770+ 0	65 1809	4 N,N'
N	39-Y -89	11	1	4.190+ 0	8.560+ 0	70 3553	51 N,N'
	40-ZR-90	11	1	1.775+ 0	2.178+ 0	62 597	37 N,N'
	40-ZR-90	11	1	2.300+ 0	5.000+ 0	63 785	28 N,N'
N	40-ZR-90	11	1	2.500+ 0	4.000+ 0	74 3572	34 N,N'
N	40-ZR-92	11	1	1.500+ 0	1.500+ 0	74 3586	1 N,N'
N	40-ZR-92	11	1	1.550+ 0	2.684+ 0	70 3451	49 N,N'
N	40-ZR-92	11	1	1.800+ 0	4.000+ 0	74 3572	87 N,N'
N	40-ZR-94	11	1	1.326+ 0	2.577+ 0	70 3461	47 N,N'
N	40-ZR-94	11	1	1.500+ 0	1.500+ 0	74 3586	1 N,N'
	41-NB-93	11	1	7.900+ 1	1.790+ 0	71 3243	84 N,N'
	41-NB-93	11	1	8.000+ 1	1.200+ 0	63 773	5 N,N'
	41-NB-93	11	1	8.000+ 1	1.200+ 0	63 828	4 N,N'
N	41-NB-93	11	1	1.200+ 0	5.000+ 0	71 3926	138 N,N'
N	41-NB-93	11	1	1.800+ 0	4.000+ 0	73 3504	165 N,N'
	42-MO-NAT	11	1	4.000+ 1	1.200+ 0	63 828	9 N,N'
N	42-MO-NAT	11	1	1.000+ 0	5.000+ 0	70 3928	134 N,N'
N	42-MO-94	11	1	1.120+ 0	1.500+ 0	72 3439	27 N,N'
N	42-MO-94	11	1	1.500+ 0	1.500+ 0	74 3586	1 N,N'
N	42-MO-96	11	1	1.035+ 0	1.500+ 0	72 3439	38 N,N'
N	42-MO-96	11	1	1.500+ 0	1.500+ 0	74 3586	2 N,N'
N	42-MO-98	11	1	1.020+ 0	1.500+ 0	72 3439	58 N,N'
N	42-MO-100	11	1	9.000+ 1	1.500+ 0	72 3439	83 N,N'
N	42-MO-100	11	1	1.500+ 0	1.500+ 0	74 3586	2 N,N'
N	45-RH-103	11	1	5.500+ 1	1.500+ 0	75 4013	99 N,N'
C	46-PD-NAT	11	1	6.000+ 1	1.460+ 0	72 3154	191 N,N'
N	48-CO-NAT	11	1	9.600+ 1	9.600+ 1	66 3863	3 N,N'

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

92-U-238	11	1	9.500-	2	9.500-	2	65 1266	1	N.N.
92-U-238	11	1	1.500-	1	5.000-	1	57 1156	5	N.N.
32-G-72	11	2	6.950-	1	4.986+	0	72 3189	180	N.N.
33-AS-75	11	2	1.450+	1	1.450+	1	59 829	1	N.N.
33-AS-75	11	2	1.460+	1	1.460+	1	73 3857	1	N.N.
34-SL-77	11	2	2.800+	0	2.800+	0	67 5602	1	N.N.
34-SL-77	11	2	1.500+	1	1.500+	1	70 5802	1	N.N.
35-BR-79	11	2	2.800+	0	2.800+	0	67 5802	1	N.N.
35-BR-79	11	2	1.318+	1	1.694+	0	67 5886	10	N.N.
35-BR-79	11	2	1.470+	1	1.470+	1	68 3568	1	N.N.
39-Y-69	11	2	2.600+	0	1.807+	1	69 3053	20	N.N.
39-Y-69	11	2	2.800+	0	2.800+	0	67 2602	1	N.N.
39-Y-69	11	2	1.463+	1	1.460+	1	65 2120	1	N.N.
39-Y-69	11	2	1.470+	1	1.470+	1	68 3368	1	N.N.
39-Y-69	11	2	1.480+	1	1.460+	1	71 3619	1	N.N.
39-Y-69	11	2	1.500+	1	1.500+	1	67 1776	1	N.N.
39-Y-69	11	2	1.500+	1	1.500+	1	68 2638	1	N.N.
40-ZR-90	11	2	2.020+	0	4.250+	0	55 2124	58	N.N.
40-ZR-90	11	2	2.270+	0	2.240+	0	55 267	95	N.N.
40-ZR-90	11	2	2.800+	0	2.800+	0	67 2602	1	N.N.
47-AG-107	11	2	1.300+	1	1.780+	1	73 3986	10	N.N.
47-AG-109	11	2	1.300+	1	1.780+	1	73 3986	9	N.N.
68-ER-167	11	2	1.450+	1	1.450+	1	70 2587	1	N.N.
70-YB-176	11	2	1.450+	1	1.450+	1	62 2269	1	N.N.
70-YB-176	11	2	2.800+	0	2.800+	0	67 2602	1	N.N.
70-YB-176	11	2	2.800+	0	2.800+	0	67 2602	1	N.N.
77-IR-191	11	2	5.300+	1	1.350+	0	54 298	19	N.N.
79-AU-197	11	2	1.400+	0	5.300+	0	68 2638	27	N.N.
79-AU-197	11	2	1.470+	1	1.470+	1	68 3368	1	N.N.
79-AU-197	11	2	1.500+	1	1.500+	1	68 2638	1	N.N.
82-PB-207	11	2	1.800+	0	3.200+	0	55 118	12	N.N.
82-PB-207	11	2	1.800+	0	1.400+	1	62 1972	11	N.N.
82-PB-207	11	2	1.750+	1	2.220+	1	60 739	7	N.N.
82-PB-207	11	2	1.750+	1	1.74+	1	74 3480	79	N.N.
82-PB-207	11	2	1.750+	1	1.74+	1	68 2660	61	N.N.
82-PB-207	11	2	1.800+	0	4.800+	0	71 3757	14	N.N.
82-PB-207	11	2	1.800+	0	1.500+	0	75 4013	10	N.N.
82-PB-207	11	2	2.700+	0	1.480+	1	73 3993	2	N.N.
82-PB-207	11	2	1.420+	1	1.420+	1	64 3885	2	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	72 3302	1	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	53 291	2	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	67 2177	24	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	69 1959	19	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	77 2502	1	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	75 4012	11	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	68 3653	1	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	77 3635	1	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	75 3635	52	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	72 3302	2	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	73 3612	10	N.N.
82-PB-207	11	2	1.470+	1	1.470+	1	72 3302	1	N.N.

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	SCORE	5	10	15	E	MAX	REF	POINTS	REACTION DESCRIPTION
55-04-17	11	3	5,600	-1	1,920	0	55 300	7	N.N.
55-05-17	11	3	5,600	0	2,800	0	67 2602	1	N.N.
55-06-17	11	3	1,450	-1	1,450	-1	70 2987	1	N.N.
55-07-167	11	3	1,450	0	2,800	0	67 2602	1	N.N.
56-03-190	11	3	1,300	-1	1,600	-1	74 4010	1	N.N.
56-05-190	11	3	1,480	1	1,480	1	71 3513	1	N.N.
60-04-19	11	3	2,800	0	2,800	0	67 2602	1	N.N.
80-04-19	11	3	1,440	0	1,440	0	68 2847	1	N.N.
81-04-19	11	3	1,440	1	1,440	1	72 3518	1	N.N.
82-06-204	11	3	1,285	-1	1,783	-1	73 3814	9	N.N.
82-08-204	11	3	1,440	1	1,440	1	72 3518	1	N.N.
82-08-204	11	3	1,470	1	1,470	1	67 2009	1	N.N.
38-5R-87	11	4	1,200	0	1,478	1	68 1999	15	N.N.
45-1C-99	11	4	1,410	1	1,410	1	65 2140	1	N.N.
45-1N-113	11	4	4,480	-1	1,017	0	68 1096	1	N.N.
49-1N-113	11	4	1,410	1	1,410	1	70 3340	1	N.N.
49-1N-115	11	4	3,480	-1	1,474	-1	75 3637	10	N.N.
49-1N-115	11	4	3,500	-1	5,300	0	54 239	21	N.N.
49-1N-115	11	4	3,630	-1	1,939	-1	76 1636	31	N.N.
49-1N-115	11	4	4,437	-1	1,403	-1	71 3755	35	N.N.
49-1N-115	11	4	5,000	-1	1,800	0	51 289	3	N.N.
49-1N-115	11	4	6,700	-1	1,839	0	67 1688	20	N.N.
49-1N-115	11	4	3,370	1	1,890	0	73 3743	10	N.N.
49-1N-115	11	4	1,410	1	1,410	1	70 3340	1	N.N.
49-1N-115	11	4	1,460	1	1,460	1	64 3685	1	N.N.
49-1N-115	11	4	1,460	1	1,600	1	65 1777	1	N.N.
49-1N-115	11	4	1,460	1	1,480	1	69 2354	3	N.N.
49-1N-115	11	4	1,480	1	1,480	1	68 2711	1	N.N.
72-HF-180	11	4	1,400	1	1,400	1	66 2275	1	N.N.
72-HF-180	11	4	1,450	1	1,450	1	69 2753	1	N.N.
50-5N-117	11	5	1,300	1	1,590	1	75 3818	4	N.N.
77-1R-193	11	5	1,570	0	1,470	1	75 3890	7	N.N.
3-11-7	11	7	1,357	1	1,474	1	60 595	11	N.N.
6-C-12	11	7	1,400	1	1,400	1	55 295	1	N.N.
6-C-12	11	7	1,560	1	1,600	1	67 4029	2	N.N.
7-N-14	11	7	3,390	0	5,060	0	58 422	13	N.N.
8-0-16	11	7	1,460	1	1,460	1	69 4078	2	N.N.
8-0-19	11	7	1,460	1	3,140	0	70 3386	75	N.N.
11-N-23	11	7	4,930	1	2,950	0	59 619	57	N.N.
12-MO-24	11	7	3,470	0	4,000	0	59 372	3	N.N.
12-MO-24	11	7	1,600	0	1,000	0	63 865	36	N.N.
12-MO-24	11	7	1,600	1	1,400	1	61 8501	5	N.N.
12-MO-24	11	7	1,410	1	1,410	1	65 1859	1	N.N.
12-MO-24	11	7	1,410	1	1,410	1	65 1629	1	N.N.
13-4L-27	11	7	1,020	0	3,700	0	67 4030	102	N.N.
13-4L-27	11	7	1,900	0	3,300	0	74 4030	25	N.N.
13-4L-27	11	7	1,400	1	1,400	1	64 1858	3	N.N.
13-4L-27	11	7	1,460	1	1,460	1	69 4078	1	N.N.
14-5I-28	11	7	1,400	1	1,400	1	64 1859	1	N.N.
16-5-32	11	7	1,410	1	1,410	1	65 1694	1	N.N.
17-4L-NAT	11	7	2,540	0	4,230	0	66 1775	17	N.N.

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
3-1-15	11	8	4.832	0	68 1632	3	N,N'
3-1-17	11	8	4.932	0	68 1632	3	N,N'
5-0-NAT	11	8	1.400	1	62 1060	2	N,N'
5-0-10	11	8	9.720	0	70 3988	5	N,N'
5-0-11	11	8	9.720	0	70 3988	1	N,N'
11-NA-23	11	8	5.440	0	72 3288	5	N,N'
13-AL-27	11	8	1.788	0	67 3397	5	N,N'
13-AL-27	11	8	7.600	0	70 3230	1	N,N'
16-5-NAT	11	8	1.400	1	62 1060	2	N,N'
16-5-32	11	8	1.410	1	64 845	1	N,N'
22-TI-NAT	11	8	7.200	1	70 3128	45	N,N'
22-TI-NAT	11	8	6.340	0	73 3448	11	N,N'
52-TE-NAT	11	8	3.200	0	69 1549	169	N,N'
52-TE-NAT	11	8	3.200	0	69 1549	13	N,N'
56-FE-55	11	8	3.200	0	67 3288	1	N,N'
56-FE-55	11	8	3.200	0	67 3288	2	N,N'
58-NI-NAT	11	8	1.460	1	70 3232	35	N,N'
58-NI-60	11	8	6.440	0	69 2413	52	N,N'
58-CE-NAT	11	8	9.000	1	65 1809	2	N,N'
59-Y-89	11	8	3.775	0	71 3926	4	N,N'
41-NB-93	11	8	3.500	0	66 885	51	N,N'
42-MO-NAT	11	8	4.750	1	66 885	34	N,N'
51-SB-NAT	11	8	5.000	1	66 885	13	N,N'
51-SB-NAT	11	8	9.600	1	66 885	146	N,N'
52-TE-NAT	11	8	1.125	0	69 2385	190	N,N'
62-SM-NAT	11	8	5.200	1	69 2385	163	N,N'
64-CO-NAT	11	8	4.200	1	70 1040	147	N,N'
67-HO-165	11	8	4.200	1	69 2385	146	N,N'
72-HF-NAT	11	8	3.200	1	67 885	159	N,N'
73-TA-181	11	8	4.500	1	66 885	167	N,N'
74-W-182	11	8	3.450	1	66 885	180	N,N'
74-W-184	11	8	3.450	1	66 885	158	N,N'
74-W-186	11	8	3.750	1	67 885	195	N,N'
75-RE-NAT	11	8	4.500	1	67 885	20	N,N'
78-PT-NAT	11	8	1.090	0	69 2515	18	N,N'
83-BI-209	11	8	1.190	0	62 693	5	N,N'
90-TI-232	11	8	1.600	0	65 1264	54	N,N'
90-TI-232	11	8	1.850	0	69 2376	7	N,N'
92-U-235	11	8	1.300	1	66 1377	15	N,N'
92-U-235	11	8	5.500	1	72 3788	60	N,N'
92-U-238	11	8	1.500	1	63 1272	6	N,N'
92-U-238	11	8	5.000	1	56 215	14	N,N'
92-U-238	11	8	1.500	0	71 3645	6	N,N'
94-PU-239	11	8	2.500	1	65 1264	6	N,N'
94-PU-239	11	8	5.500	1	68 2089	60	N,N'
94-CU-240	11	8	3.500	1	59 77	1	N,N'
8-O-10	10	10	1.460	1	69 4078	10	N,N'
13-AL-27	11	10	1.460	1	69 4078	10	N,N'
28-NI-NAT	11	10	2.800	0	70 3386	10	N,N'

07/04/76

EC51L-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 73-TA-181	11	10	2 300+ 1	1 270+ 0	70 3386	25	N, N'
N 32-GE-72	12	87	1 000+ 0	1 000+ 0	67 3860	13	N, N'
N 1-H-2	12		4 100+ 0	6 550+ 0	69 1307	8	N, N'
N 1-H-2	12		6 110+ 0	1 410+ 1	61 683	6	N, N'
N 1-H-2	12		1 410+ 1	1 410+ 1	58 7	1	N, N'
N 1-H-2	12		1 410+ 1	1 410+ 1	66 2586	1	N, N'
N 1-H-2	12		1 410+ 1	1 410+ 1	69 3770	1	N, N'
N 1-H-3	12		1 406+ 1	1 406+ 1	2 69 2519	1	N, N'
N 2-HE-3	12		1 406+ 1	1 406+ 1	2 69 2519	1	N, N'
N 3-LI-6	12		1 020+ 1	1 020+ 1	60 593	1	N, N'
N 3-LI-6	12		1 400+ 1	1 400+ 1	61 2375	1	N, N'
N 3-LI-6	12		1 406+ 1	1 406+ 1	63 2335	1	N, N'
N 3-LI-6	12		1 410+ 1	1 410+ 1	69 594	1	N, N'
N 3-LI-6	12		1 410+ 1	1 410+ 1	61 487	1	N, N'
N 3-LI-7	12		1 020+ 1	1 020+ 1	60 583	1	N, N'
N 3-LI-7	12		1 400+ 1	1 400+ 1	61 2375	1	N, N'
N 3-LI-7	12		1 406+ 1	1 406+ 1	69 2519	1	N, N'
N 3-LI-7	12		1 410+ 1	1 410+ 1	68 583	1	N, N'
N 3-LI-7	12		2 100+ 0	5 100+ 0	73 3120	27	N, N'
N 3-LI-7	12		2 370+ 0	2 340+ 0	57 316	6	N, N'
N 4-BE-9	12		2 570+ 0	4 500+ 0	61 755	4	N, N'
N 4-BE-9	12		3 200+ 0	3 700+ 0	55 279	1	N, N'
N 4-BE-9	12		3 700+ 0	1 410+ 1	61 682	4	N, N'
N 4-BE-9	12		6 550+ 0	7 000+ 0	64 17	1	N, N'
N 4-BE-9	12		1 400+ 1	1 400+ 1	57 162	1	N, N'
N 4-BE-9	12		1 400+ 1	1 400+ 1	58 609	1	N, N'
N 4-BE-9	12		1 400+ 1	1 400+ 1	58 530	1	N, N'
N 4-BE-9	12		1 400+ 1	1 400+ 1	63 277	1	N, N'
N 4-BE-9	12		1 410+ 1	1 410+ 1	58 7	1	N, N'
N 4-BE-9	12		1 410+ 1	1 410+ 1	59 539	1	N, N'
N 5-B-10	12		1 406+ 1	1 406+ 1	61 650	1	N, N'
N 5-B-10	12		1 406+ 1	1 406+ 1	2 69 2519	1	N, N'
N 5-B-10	12		1 410+ 1	1 410+ 1	58 7	1	N, N'
N 5-B-10	12		1 410+ 1	1 410+ 1	61 808	8	N, N'
N 5-B-10	12		2 210+ 1	3 750+ 1	83	3	N, N'
N 5-B-10	12		2 300+ 1	2 700+ 1	52	6	N, N'
N 5-B-10	12		1 210+ 1	1 799+ 1	59 602	1	N, N'
N 5-B-10	12		1 410+ 1	1 410+ 1	62 108	1	N, N'
N 5-B-10	12		1 410+ 1	1 410+ 1	61 608	12	N, N'
N 5-B-10	12		1 180+ 1	3 750+ 1	67 2008	1	N, N'
N 5-B-10	12		1 230+ 1	1 230+ 1	64 843	8	N, N'
N 5-B-10	12		1 320+ 1	1 940+ 1	60 1720	1	N, N'
N 5-B-10	12		1 365+ 1	1 535+ 1	54 453	1	N, N'
N 5-B-10	12		1 400+ 1	1 400+ 1	65 1676	1	N, N'
N 5-B-10	12		1 410+ 1	1 410+ 1	65 2140	1	N, N'
N 5-B-10	12		1 410+ 1	1 410+ 1	53 27	1	N, N'
N 5-B-10	12		1 450+ 1	1 450+ 1	65 1672	1	N, N'
N 5-B-10	12		1 460+ 1	1 460+ 1	67 1921	1	N, N'
N 5-B-10	12		1 470+ 1	1 470+ 1		1	N, N'

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C = 12

07/04/76

ECSIL-600 REACTION INDEX REACTION NO. ORDERED)

C = 12

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	7-A-17	12	1.470	1.470	70 3760	1	N,2N
N	7-A-17	12	1.480	1.480	65 3379	1	N,2N
N	8-C-16	12	1.780	1.750	61 808	9	N,2N
N	9-F-19	12	1.80	1.800	61 808	11	N,2N
N	9-F-19	12	1.235	1.200	65 449	15	N,2N
N	9-F-19	12	1.240	1.210	61 710	8	N,2N
N	9-F-19	12	1.260	1.190	63 340	12	N,2N
N	9-F-19	12	1.260	1.190	65 843	10	N,2N
N	9-F-19	12	1.270	1.193	67 1686	10	N,2N
N	9-F-19	12	1.320	1.535	60 1720	8	N,2N
N	9-F-19	12	1.351	1.481	71 3742	5	N,2N
N	9-F-19	12	1.400	1.400	67 2009	1	N,2N
N	9-F-19	12	1.410	1.410	58 7	1	N,2N
N	9-F-19	12	1.413	1.413	62 108	1	N,2N
N	9-F-19	12	1.420	1.420	65 1777	1	N,2N
N	9-F-19	12	1.420	1.440	64 3685	4	N,2N
N	9-F-19	12	1.440	1.440	61 676	1	N,2N
N	9-F-19	12	1.450	1.450	53 27	1	N,2N
N	9-F-19	12	1.460	1.460	65 1672	1	N,2N
N	9-F-19	12	1.460	1.460	69 2354	1	N,2N
N	9-F-19	12	1.470	1.470	67 1921	1	N,2N
N	9-F-19	12	1.470	1.470	68 2596	1	N,2N
N	9-F-19	12	1.480	1.480	66 2058	23	N,2N
N	9-F-19	12	1.480	1.480	67 1686	7	N,2N
N	11-NA-23	12	1.350	1.410	55 119	1	N,2N
N	11-NA-23	12	1.410	1.410	72 3427	2	N,2N
N	11-NA-23	12	1.420	1.460	59 2354	1	N,2N
N	11-NA-23	12	1.460	1.460	73 3988	1	N,2N
N	11-NA-23	12	1.460	1.460	65 449	6	N,2N
N	11-NA-23	12	1.489	2.100	65 1709	8	N,2N
N	12-MC-24	12	1.707	1.824	65 1709	5	N,2N
N	14-SI-28	12	1.782	1.826	63 417	7	N,2N
N	15-P-31	12	1.320	1.970	63 373	1	N,2N
N	15-P-31	12	1.410	1.410	62 108	1	N,2N
N	15-P-31	12	1.413	1.413	61 676	1	N,2N
N	15-P-31	12	1.440	1.440	62 88	1	N,2N
N	15-P-31	12	1.470	1.470	67 1921	1	N,2N
N	15-P-31	12	1.474	1.758	59 602	3	N,2N
N	15-P-31	12	1.480	1.480	64 1763	1	N,2N
N	15-P-31	12	1.480	1.480	65 3379	2	N,2N
N	15-P-31	12	1.480	1.480	36 3279	1	N,2N
N	15-P-31	12	1.480	1.480	67 2368	1	N,2N
N	16-S-32	12	1.582	1.542	66 1768	3	N,2N
N	16-S-32	12	1.598	1.769	65 1709	5	N,2N
N	17-CI-35	12	1.440	1.440	61 676	1	N,2N
N	17-CI-35	12	1.480	1.480	58 531	1	N,2N
N	17-CI-35	12	1.480	1.480	61 703	1	N,2N
N	19-K-39	12	1.410	1.880	65 843	7	N,2N
N	19-K-39	12	1.440	1.440	61 676	1	N,2N
N	19-K-39	12	1.450	1.450	65 1764	1	N,2N
N	19-K-39	12	1.470	1.470	67 1921	1	N,2N

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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C = 12

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-FE-5-	12		1.460+	1.460+	65 1672	1	N,2N
26-FE-5-	12		1.482+	1.480+	61 679	1	N,2N
26-FE-5-	12		1.480+	1.480+	75 3562	1	N,2N
26-FE-54	12		1.500+	1.500+	60 628	1	N,2N
26-FE-56	12		1.188+	1.476+	75 3807	7	N,2N
26-FE-56	12		1.400+	1.400+	62 3374	1	N,2N
26-FE-56	12		1.510+	1.510+	69 3662	1	N,2N
27-CO-59	12		1.091+	1.476+	75 3807	9	N,2N
27-CO-59	12		1.255+	1.920+	66 2694	6	N,2N
27-CO-59	12		1.257+	1.920+	68 2340	14	N,2N
27-CO-59	12		1.263+	1.959+	65 1738	23	N,2N
27-CO-59	12		1.320+	1.570+	66 1909	8	N,2N
27-CO-59	12		1.339+	1.496+	67 1871	7	N,2N
27-CO-59	12		1.386+	1.477+	62 1770	5	N,2N
27-CO-59	12		1.400+	1.400+	62 3374	1	N,2N
27-CO-59	12		1.400+	1.400+	63 377	1	N,2N
27-CO-59	12		1.410+	1.410+	58 1821	1	N,2N
27-CO-59	12		1.410+	1.410+	63 455	1	N,2N
27-CO-59	12		1.410+	1.410+	65 1800	1	N,2N
27-CO-59	12		1.436+	1.436+	72 4072	1	N,2N
27-CO-59	12		1.450+	1.450+	60 629	1	N,2N
27-CO-59	12		1.460+	1.460+	69 2354	1	N,2N
27-CO-59	12		1.480+	1.480+	60 598	1	N,2N
28-NI-NAT	12		1.091+	1.476+	75 3807	9	N,2N
28-NI-NAT	12		1.410+	1.410+	58 1821	1	N,2N
28-NI-58	12		1.215+	1.975+	60 588	10	N,2N
28-NI-58	12		1.255+	2.100+	63 374	8	N,2N
28-NI-58	12		1.298+	1.958+	65 892	25	N,2N
28-NI-58	12		1.330+	1.550+	66 1910	7	N,2N
28-NI-58	12		1.372+	1.479+	68 1995	11	N,2N
28-NI-58	12		1.386+	1.488+	61 698	9	N,2N
28-NI-58	12		1.386+	1.488+	62 872	9	N,2N
28-NI-58	12		1.410+	1.410+	59 527	1	N,2N
28-NI-58	12		1.440+	1.440+	61 5716	1	N,2N
28-NI-58	12		1.440+	1.440+	70 3834	1	N,2N
28-NI-58	12		1.450+	1.450+	53 27	1	N,2N
28-NI-58	12		1.450+	1.450+	62 1009	1	N,2N
28-NI-58	12		1.450+	1.450+	63 1009	1	N,2N
28-NI-59	12		1.450+	1.450+	69 2050	1	N,2N
28-NI-58	12		1.460+	1.460+	65 1672	1	N,2N
28-NI-58	12		1.460+	1.480+	69 2354	3	N,2N
28-NI-58	12		1.480+	1.480+	58 598	1	N,2N
28-NI-58	12		1.480+	1.480+	63 756	1	N,2N
28-NI-58	12		1.480+	1.480+	68 2711	1	N,2N
28-NI-58	12		1.540+	1.540+	67 2009	1	N,2N
29-CU-NAT	12		1.406+	1.406+	2 69 2519	1	N,2N
29-CU-NAT	12		1.410+	1.410+	58 7	1	N,2N
29-CU-NAT	12		1.420+	1.420+	57 8	1	N,2N
29-CU-NAT	12		1.436+	1.436+	72 4072	1	N,2N
29-CU-63	12		1.180+	1.260+	50 56	5	N,2N
29-CU-63	12		1.205+	1.957+	63 2063	18	N,2N
29-CU-63	12		1.225+	1.820+	59 601	4	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSEL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 12

TARGET	CODE	5 E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION		
29-CU-63	12	1.230+	1	1.815+	62	770	4	N.2N
29-CU-63	12	1.241+	1	1.798+	59	602	7	N.2N
29-CU-63	12	1.260+	1	1.958+	65	1847	28	N.2N
29-CU-63	12	1.300+	1	1.700+	56	36	12	N.2N
29-CU-63	12	1.325+	1	1.535+	60	1720	8	N.2N
29-CU-63	12	1.385+	1	1.477+	62	876	5	N.2N
29-CU-63	12	1.387+	1	1.740+	68	4076	18	N.2N
29-CU-63	12	1.400+	1	1.400+	67	2009	1	N.2N
29-CU-63	12	1.410+	1	1.410+	62	84	1	N.2N
29-CU-63	12	1.410+	1	1.410+	61	631	1	N.2N
29-CU-63	12	1.413+	1	1.413+	64	2060	1	N.2N
29-CU-63	12	1.414+	1	1.414+	52	535	1	N.2N
29-CU-63	12	1.450+	1	1.450+	53	27	1	N.2N
29-CU-63	12	1.450+	1	1.460+	52	2050	1	N.2N
29-CU-63	12	1.490+	1	2.710+	80	695	5	N.2N
29-CU-63	12	1.460+	1	1.460+	65	1572	1	N.2N
29-CU-63	12	1.460+	1	1.460+	65	1921	2	N.2N
29-CU-63	12	1.470+	1	1.470+	67	1921	2	N.2N
29-CU-63	12	1.480+	1	1.480+	69	3351	2	N.2N
29-CU-63	12	1.480+	1	1.480+	65	3379	1	N.2N
29-CU-63	12	1.653+	1	1.771+	60	588	16	N.2N
29-CU-63	12	1.005+	1	1.975+	65	2061	28	N.2N
29-CU-63	12	1.013+	1	2.020+	63	340	12	N.2N
29-CU-63	12	1.260+	1	1.790+	65	892	27	N.2N
29-CU-63	12	1.310+	1	1.310+	67	2009	1	N.2N
29-CU-63	12	1.320+	1	1.535+	63	1720	10	N.2N
29-CU-63	12	1.320+	1	1.870+	63	417	1	N.2N
29-CU-63	12	1.410+	1	1.410+	61	631	1	N.2N
29-CU-63	12	1.420+	1	1.420+	64	3585	3	N.2N
29-CU-63	12	1.450+	1	1.450+	65	1777	2	N.2N
29-CU-63	12	1.450+	1	1.450+	61	676	1	N.2N
29-CU-63	12	1.450+	1	1.450+	53	27	1	N.2N
29-CU-63	12	1.450+	1	1.450+	50	658	1	N.2N
29-CU-63	12	1.450+	1	1.450+	61	1878	1	N.2N
29-CU-63	12	1.450+	1	1.450+	65	1878	1	N.2N
29-CU-63	12	1.450+	1	1.450+	69	2354	1	N.2N
29-CU-63	12	1.470+	1	1.470+	64	1848	1	N.2N
29-CU-63	12	1.470+	1	1.470+	68	2596	1	N.2N
29-CU-63	12	1.470+	1	1.470+	69	3351	1	N.2N
29-CU-63	12	1.477+	1	1.477+	62	872	1	N.2N
29-CU-63	12	1.480+	1	1.480+	59	662	1	N.2N
29-CU-63	12	1.500+	1	1.500+	60	526	1	N.2N
30-ZN-64	12	1.410+	1	1.410+	58	1821	1	N.2N
30-ZN-64	12	1.260+	1	1.958+	65	892	27	N.2N
30-ZN-64	12	1.275+	1	1.810+	62	770	11	N.2N
30-ZN-64	12	1.300+	1	1.750+	56	35	15	N.2N
30-ZN-64	12	1.320+	1	1.970+	63	417	8	N.2N
30-ZN-64	12	1.350+	1	1.480+	71	3742	7	N.2N

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REACTION DESCRIPTION

POINTS

REFERENCE

E-MIN-MEV

CODE

TARGET

30-ZN-54	12	1.350	1.540	59	501	3	N,2N
30-ZN-54	12	1.386	1.477	52	1770	5	N,2N
30-ZN-54	12	1.400	1.400	58	423	1	N,2N
30-ZN-54	12	1.413	1.413	52	108	1	N,2N
30-ZN-54	12	1.414	1.414	27	332	1	N,2N
30-ZN-54	12	1.440	1.440	61	265	1	N,2N
30-ZN-54	12	1.450	1.450	59	265	1	N,2N
30-ZN-54	12	1.450	1.450	53	27	1	N,2N
30-ZN-54	12	1.450	1.450	53	152	1	N,2N
30-ZN-54	12	1.470	1.470	57	200	2	N,2N
30-ZN-54	12	1.480	1.480	59	598	1	N,2N
30-ZN-54	12	1.480	1.480	53	755	1	N,2N
30-ZN-54	12	1.480	1.480	56	2058	1	N,2N
30-ZN-54	12	1.480	1.480	57	2368	1	N,2N
30-ZN-54	12	1.420	1.420	57	2009	1	N,2N
30-ZN-54	12	1.440	1.440	68	2635	1	N,2N
30-ZN-54	12	1.460	1.460	73	3988	1	N,2N
30-ZN-54	12	1.400	1.400	62	3374	1	N,2N
30-ZN-54	12	1.220	1.220	56	1672	1	N,2N
30-ZN-70	12	1.470	1.470	67	2009	1	N,2N
30-ZN-70	12	1.410	1.410	72	3411	11	N,2N
30-ZN-70	12	1.410	1.410	72	3411	11	N,2N
30-ZN-70	12	1.410	1.410	62	109	1	N,2N
30-ZN-70	12	1.440	1.440	51	676	1	N,2N
30-ZN-70	12	1.450	1.450	53	27	1	N,2N
30-ZN-70	12	1.470	1.470	57	2009	1	N,2N
30-ZN-70	12	1.480	1.480	61	703	1	N,2N
30-ZN-70	12	1.480	1.480	66	2058	1	N,2N
30-ZN-70	12	1.480	1.480	67	2368	1	N,2N
30-ZN-70	12	1.232	1.232	66	1672	1	N,2N
30-ZN-70	12	1.410	1.410	72	3411	1	N,2N
30-ZN-70	12	1.450	1.450	53	27	1	N,2N
30-ZN-70	12	1.470	1.470	67	2009	1	N,2N
30-ZN-70	12	1.480	1.480	61	703	1	N,2N
30-ZN-70	12	1.175	1.175	60	588	13	N,2N
30-ZN-70	12	1.440	1.440	61	676	1	N,2N
30-ZN-70	12	1.450	1.450	53	27	1	N,2N
30-ZN-70	12	1.480	1.480	61	703	1	N,2N
30-ZN-70	12	1.333	1.333	67	187	8	N,2N
30-ZN-70	12	1.440	1.440	67	3010	1	N,2N
30-ZN-70	12	1.450	1.450	53	27	1	N,2N
30-ZN-70	12	1.480	1.480	61	703	1	N,2N
30-ZN-70	12	1.030	1.030	60	588	11	N,2N
30-ZN-70	12	1.400	1.400	63	377	2	N,2N
30-ZN-70	12	1.405	1.405	66	1874	1	N,2N
30-ZN-70	12	1.410	1.410	72	3411	1	N,2N
30-ZN-70	12	1.420	1.420	69	2334	1	N,2N
30-ZN-70	12	1.470	1.470	67	2009	1	N,2N
30-ZN-70	12	1.490	1.490	66	2894	7	N,2N
30-ZN-70	12	1.371	1.371	69	2366	9	N,2N
30-ZN-70	12	1.470	1.470	69	4077	1	N,2N
30-ZN-70	12	1.188	1.188	75	3807	7	N,2N

REACTION DESCRIPTION

POINTS

REFERENCE

E-MIN-MEV

CODE

TARGET

07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

[illegible]

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINYS	REACTION DESCRIPTION
ALUMINUM	AL	13	0.000	10.000	1	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	2	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	3	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	4	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	5	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	6	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	7	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	8	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	9	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	10	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	11	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	12	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	13	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	14	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	15	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	16	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	17	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	18	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	19	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	20	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	21	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	22	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	23	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	24	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	25	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	26	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	27	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	28	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	29	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	30	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	31	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	32	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	33	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	34	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	35	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	36	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	37	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	38	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	39	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	40	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	41	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	42	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	43	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	44	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	45	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	46	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	47	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	48	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	49	1	ALUMINUM
ALUMINUM	AL	13	0.000	10.000	50	1	ALUMINUM
ALUMINUM	AL</						

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TARGET	CODE	S	E	M	I	N	M	E	V	REFERENCE	POINTS	REACTION DESCRIPTION
23-Y-89	12	1.329	1	1.758	1	69 3053	7	N,2N				
23-Y-89	12	1.436	1	1.436	1	72 3437	16	N,2N				
23-Y-89	12	1.491	2	1.491	2	69 2913	5	N,2N				
23-Y-89	12	1.400	1	1.400	1	57 377	2	N,2N				
23-Y-89	12	1.405	1	1.405	1	66 1873	2	N,2N				
23-Y-89	12	1.406	2	1.406	2	69 2519	1	N,2N				
23-Y-89	12	1.410	1	1.410	1	59 315	1	N,2N				
23-Y-89	12	1.460	1	1.460	1	62 702	1	N,2N				
23-Y-89	12	1.460	1	1.460	1	73 3988	1	N,2N				
23-Y-89	12	1.500	1	1.500	1	67 2009	1	N,2N				
23-Y-89	12	1.600	1	1.600	1	61 2116	1	N,2N				
40-ZR-NAT	12	1.410	1	1.410	1	57 317	1	N,2N				
40-ZR-NAT	12	1.410	1	1.410	1	58 1821	1	N,2N				
40-ZR-90	12	1.195	1	1.976	1	60 598	16	N,2N				
40-ZR-90	12	1.344	1	1.487	1	72 3774	6	N,2N				
40-ZR-90	12	1.125	1	1.818	1	69 2366	13	N,2N				
40-ZR-90	12	1.367	1	1.482	1	72 3437	12	N,2N				
40-ZR-90	12	1.410	1	1.410	1	60 644	1	N,2N				
40-ZR-90	12	1.440	1	1.440	1	61 676	1	N,2N				
40-ZR-90	12	1.460	1	1.460	1	62 702	1	N,2N				
40-ZR-90	12	1.460	1	1.460	1	69 2354	1	N,2N				
40-ZR-90	12	1.480	1	1.480	1	70 3150	1	N,2N				
40-ZR-90	12	1.480	1	1.480	1	72 3832	1	N,2N				
40-ZR-90	12	1.510	1	1.510	1	67 2009	1	N,2N				
41-NB-93	12	9.440	0	1.476	1	75 3807	12	N,2N				
41-NB-93	12	1.380	1	1.494	1	72 3437	11	N,2N				
41-NB-93	12	1.680	1	1.680	1	70 3787	1	N,2N				
42-MO-NAT	12	1.410	1	1.410	1	58 1821	1	N,2N				
42-MO-92	12	1.271	1	1.754	1	69 2366	13	N,2N				
42-MO-92	12	1.310	1	2.700	1	72 3773	6	N,2N				
42-MO-92	12	1.341	1	1.492	1	72 3774	21	N,2N				
42-MO-92	12	1.420	1	1.420	1	72 3887	1	N,2N				
42-MO-92	12	1.460	1	1.460	1	72 3827	1	N,2N				
42-MO-92	12	1.460	1	1.460	1	65 702	1	N,2N				
42-MO-92	12	1.470	1	1.480	1	55 1672	1	N,2N				
42-MO-92	12	1.630	1	1.630	1	69 3351	2	N,2N				
42-MO-100	12	1.410	1	1.410	1	67 2009	1	N,2N				
42-MO-100	12	1.420	1	1.420	1	67 1887	1	N,2N				
42-MO-100	12	1.440	1	1.440	1	72 3427	1	N,2N				
42-MO-100	12	1.450	1	1.450	1	69 2837	1	N,2N				
42-MO-100	12	1.460	1	1.460	1	53 27	1	N,2N				
42-MO-100	12	1.470	1	1.470	1	62 702	1	N,2N				
42-MO-100	12	1.480	1	1.480	1	67 2009	1	N,2N				
42-MO-100	12	1.480	1	1.480	1	61 703	1	N,2N				
44-RU-96	12	1.440	1	1.440	1	70 3340	1	N,2N				
44-RU-96	12	1.450	1	1.450	1	61 676	1	N,2N				
44-RU-96	12	1.470	1	1.470	1	53 27	1	N,2N				
44-RU-96	12	1.470	1	1.470	1	66 1873	1	N,2N				
44-RU-96	12	1.510	1	1.510	1	66 2141	1	N,2N				
44-RU-98	12	1.410	1	1.410	1	74 3593	1	N,2N				
44-RU-104	12	1.470	1	1.470	1	70 3340	1	N,2N				
44-RU-104	12	1.470	1	1.470	1	66 2141	1	N,2N				

TARGET CODE S E M I N M E V REFERENCE POINTS REACTION DESCRIPTION

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	52-TE-122	12		1.480	1.480	68 2314	1	N,2N
	52-TE-128	12		1.480	1.480	68 2314	1	N,2N
	52-TE-130	12		1.480	1.480	68 2314	1	N,2N
	53-1-127	12		1.230	1.825	53 91	6	N,2N
	53-1-127	12		1.316	1.870	62 562	5	N,2N
N	53-1-127	12		1.420	1.420	72 3427	1	N,2N
	53-1-127	12		1.450	1.450	53 27	1	N,2N
	53-1-127	12		1.460	1.480	69 2354	2	N,2N
	53-1-127	12		1.470	1.470	68 2483	1	N,2N
	53-1-127	12		1.480	1.480	68 2711	1	N,2N
	54-XE-124	12		1.440	1.440	68 2842	1	N,2N
	54-XE-126	12		1.440	1.440	68 2842	1	N,2N
	54-XE-128	12		1.440	1.440	68 2842	1	N,2N
	54-XE-134	12		1.440	1.440	68 2842	1	N,2N
	54-XE-136	12		1.440	1.440	68 2842	1	N,2N
	55-CS-133	12		1.410	1.410	59 615	1	N,2N
	55-CS-133	12		1.410	1.410	61 651	1	N,2N
N	55-CS-133	12		1.420	1.420	72 3427	1	N,2N
	55-CS-133	12		1.420	1.463	65 1777	2	N,2N
	58-CE-136	12		1.440	1.440	69 2837	1	N,2N
N	58-CE-136	12		1.480	1.480	72 3832	1	N,2N
	58-CE-140	12		1.400	1.400	65 2216	1	N,2N
	58-CE-140	12		1.440	1.440	69 2837	1	N,2N
	58-CE-140	12		1.450	1.450	67 2401	1	N,2N
	58-CE-140	12		1.470	1.470	61 670	1	N,2N
	58-CE-140	12		1.470	1.470	68 1718	1	N,2N
	58-CE-140	12		1.480	1.480	68 2762	1	N,2N
	58-CE-142	12		1.254	1.956	07 2889	10	N,2N
	58-CE-142	12		1.400	1.400	65 2216	1	N,2N
	58-CE-142	12		1.440	1.440	69 2837	1	N,2N
	58-CE-142	12		1.470	1.470	68 1718	1	N,2N
	58-CE-142	12		1.480	1.480	60 672	1	N,2N
	58-CE-142	12		1.480	1.480	69 2762	1	N,2N
N	58-CE-142	12		1.480	1.480	72 3832	1	N,2N
	59-PR-141	12		1.220	1.810	52 770	8	N,2N
	59-PR-141	12		1.230	1.780	63 2176	20	N,2N
	59-PR-141	12		1.241	1.798	59 602	6	N,2N
	59-PR-141	12		1.278	1.942	68 2891	10	N,2N
	59-PR-141	12		1.413	1.413	62 108	1	N,2N
	59-PR-141	12		1.440	1.440	61 676	1	N,2N
	59-PR-141	12		1.440	1.750	60 647	2	N,2N
	59-PR-141	12		1.450	1.450	53 27	1	N,2N
	59-PR-141	12		1.450	1.450	67 2401	1	N,2N
	59-PR-141	12		1.480	1.480	60 672	1	N,2N
	59-PR-141	12		1.480	1.480	61 703	1	N,2N
N	59-PR-141	12		1.480	1.480	72 3832	1	N,2N
N	59-PR-141	12		1.480	1.480	75 3562	1	N,2N
	59-PR-141	12		1.500	1.500	68 2369	1	N,2N
	60-ND-142	12		1.440	1.440	61 676	1	N,2N
	60-ND-142	12		1.450	1.450	67 2401	1	N,2N
	60-ND-142	12		1.470	1.470	61 670	1	N,2N
	60-ND-142	12		1.470	1.470	66 2227	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

6L-ND-142	12	1.470+	1	1.470+	1	68 1718	1	N,2N
60-ND-142	12	1.480+	1	1.480+	1	51 672	1	N,2N
60-ND-142	12	1.480+	1	1.480+	1	72 3832	1	N,2N
60-ND-148	12	1.420+	1	1.420+	1	59 2334	1	N,2N
60-ND-148	12	1.480+	1	1.480+	1	60 672	1	N,2N
60-ND-148	12	1.480+	1	1.480+	1	72 3832	1	N,2N
60-ND-150	12	1.450+	1	1.450+	1	67 2401	1	N,2N
60-ND-150	12	1.480+	1	1.480+	1	60 672	1	N,2N
60-ND-150	12	1.480+	1	1.480+	1	72 3832	1	N,2N
62-5M-144	12	1.278+	1	1.942+	1	68 2891	10	N,2N
62-5M-144	12	1.290+	1	1.780+	1	63 2182	13	N,2N
62-5M-144	12	1.380+	1	1.380+	1	67 2009	1	N,2N
62-5M-144	12	1.410+	1	1.410+	1	72 3411	1	N,2N
62-5M-144	12	1.450+	1	1.450+	1	67 2401	1	N,2N
62-5M-144	12	1.470+	1	1.470+	1	61 670	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	72 3832	1	N,2N
62-5M-144	12	1.490+	1	1.670+	1	73 3508	4	N,2N
62-5M-144	12	1.410+	1	1.410+	1	72 3411	1	N,2N
62-5M-144	12	1.430+	1	1.430+	1	53 27	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	60 672	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	72 3832	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	60 672	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	61 703	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	51 1898	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	72 3832	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	53 27	1	N,2N
62-5M-144	12	1.470+	1	1.470+	1	68 1718	1	N,2N
62-5M-144	12	1.410+	1	1.410+	1	72 3411	1	N,2N
62-5M-144	12	1.420+	1	1.420+	1	69 2334	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	60 672	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	61 703	1	N,2N
62-5M-144	12	1.440+	1	1.440+	1	68 2841	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	72 3832	1	N,2N
62-5M-144	12	1.440+	1	1.440+	1	68 2841	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	72 3832	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	68 1718	1	N,2N
62-5M-144	12	1.400+	1	1.400+	1	56 2258	1	N,2N
62-5M-144	12	1.470+	1	1.470+	1	59 1718	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	61 703	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	69 2334	1	N,2N
62-5M-144	12	1.420+	1	1.420+	1	69 2334	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	68 1718	1	N,2N
62-5M-144	12	1.470+	1	1.470+	1	60 672	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	60 672	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	64 1969	14	N,2N
62-5M-144	12	8.440 0	1	1.476+	1	75 3807	7	N,2N
62-5M-144	12	9.800 0	1	1.450+	1	60 590	5	N,2N
62-5M-144	12	1.384+	1	1.494+	1	72 3437	9	N,2N
62-5M-144	12	1.384+	1	1.494+	1	69 2913	2	N,2N
62-5M-144	12	1.470+	1	1.470+	1	68 1718	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	72 3832	1	N,2N
62-5M-144	12	1.480+	1	1.480+	1	72 3832	1	N,2N

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-1000 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
70-YB-170	12	1.470	1	1.470	1	1	N,N,N
70-YB-176	12	1.480	1	1.480	1	60 672	N,N,N
70-YB-176	12	1.480	1	1.480	1	61 703	N,N,N
70-YB-176	12	1.480	1	1.480	1	64 1969	N,N,N
71-LU-175	12	8.440	0	1.476	1	75 3807	14 N,N,N
71-LU-175	12	1.380	1	1.442	1	72 3437	8 N,N,N
71-LU-175	12	1.480	1	1.480	1	60 672	N,N,N
71-LU-175	12	1.400	1	1.400	1	66 2275	N,N,N
72-HF-174	12	1.450	1	1.450	1	69 2753	N,N,N
72-HF-176	12	1.400	1	1.400	1	66 2275	N,N,N
72-HF-176	12	1.450	1	1.450	1	69 2753	N,N,N
72-HF-176	12	1.470	1	1.470	1	68 1718	N,N,N
73-TA-181	12	8.440	0	1.476	1	75 3807	14 N,N,N
73-TA-181	12	1.400	1	1.400	1	57 162	N,N,N
73-TA-181	12	1.410	1	1.410	1	58 7	N,N,N
74-M-NAT	12	7.930	0	1.476	1	75 3807	15 N,N,N
74-M-NAT	12	1.410	1	1.410	1	58 1821	N,N,N
74-M-182	12	1.420	1	1.420	1	72 3427	N,N,N
74-M-182	12	1.470	1	1.470	1	68 1719	N,N,N
74-M-182	12	1.480	1	1.480	1	66 1882	N,N,N
74-M-182	12	1.480	1	1.480	1	66 1882	N,N,N
75-RE-185	12	1.410	1	1.410	1	62 769	N,N,N
75-RE-185	12	1.480	1	1.480	1	67 2300	N,N,N
75-RE-187	12	1.410	1	1.410	1	62 769	N,N,N
75-RE-187	12	1.410	1	1.410	1	62 2328	N,N,N
75-RE-187	12	1.480	1	1.480	1	61 703	N,N,N
75-RE-187	12	1.480	1	1.480	1	67 2300	N,N,N
76-JS-182	12	1.440	1	1.440	1	72 3518	N,N,N
76-JS-182	12	1.470	1	1.470	1	70 3362	N,N,N
77-IR-191	12	1.410	1	1.410	1	70 3340	N,N,N
77-IR-193	12	1.410	1	1.410	1	70 3340	N,N,N
78-Pt-NAT	12	7.930	0	1.476	1	75 3807	15 N,N,N
78-Pt-192	12	1.440	1	1.440	1	72 3518	N,N,N
78-Pt-198	12	1.440	1	1.440	1	72 3518	N,N,N
78-Pt-198	12	1.470	1	1.470	1	70 3362	N,N,N
79-AU-197	12	8.000	0	1.976	1	60 588	11 N,N,N
79-AU-197	12	8.440	0	1.476	1	75 3807	14 N,N,N
79-AU-197	12	1.380	1	1.494	2	69 2913	5 N,N,N
79-AU-197	12	1.380	1	1.495	1	72 3437	10 N,N,N
79-AU-197	12	1.410	1	1.410	1	58 7	N,N,N
79-AU-197	12	1.420	1	1.420	1	72 3427	N,N,N
79-AU-197	12	1.440	1	1.440	1	72 3518	N,N,N
79-AU-197	12	1.470	1	1.470	1	68 1718	N,N,N
80-HG-198	12	1.470	1	1.470	1	68 2596	N,N,N
80-HG-204	12	1.470	1	1.470	1	68 1719	N,N,N
80-HG-204	12	1.410	1	1.410	1	69 2773	N,N,N
80-HG-204	12	1.440	1	1.440	1	72 3518	N,N,N
80-HG-204	12	1.470	1	1.470	1	68 1718	N,N,N
80-HG-204	12	1.500	1	1.500	1	68 2836	N,N,N
81-Tl-197	12	8.440	0	1.510	1	60 590	14 N,N,N
81-Tl-197	12	8.850	0	1.976	1	60 588	11 N,N,N
81-Tl-197	12	1.442	1	1.442	1	72 3518	N,N,N

TARGE JCIF S E-MIN-MEV E-MAX-MEV REF POINT ION DESCRIPTION

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TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
81-TL-203	12	1	1.470*	1	68 1718	1	N,N
81-TL-203	12	1	1.500*	1	68 2835	1	N,N
81-TL-205	12	1	1.480*	1	64 1968	1	N,N
82-PB-NAT	12	1	1.400*	1	58 609	1	N,N
82-PB-NAT	12	1	1.406*	2	69 2519	1	N,N
82-PB-NAT	12	1	1.410*	1	58 7	1	N,N
82-PB-NAT	12	1	1.420*	1	72 3427	1	N,N
82-PB-NAT	12	1	1.450*	1	63 1701	1	N,N
82-PB-NAT	12	1	1.510*	1	69 3652	1	N,N
82-PB-204	12	9	2.270* 0	1	65 603	18	N,N
82-PB-204	12	1	1.010*	1	60 590	5	N,N
82-PB-204	12	1	1.298*	1	73 3814	9	N,N
82-PB-204	12	1	1.440*	1	72 3427	2	N,N
82-PB-204	12	1	1.460*	1	72 3518	1	N,N
82-PB-204	12	1	1.470*	1	67 2009	1	N,N
82-PB-204	12	1	1.470*	1	68 1718	15	N,N
83-BI-205	12	7	1.930* 0	1	75 3807	1	N,N
83-BI-205	12	1	1.400*	1	57 582	1	N,N
83-BI-205	12	1	1.400*	1	58 609	1	N,N
83-BI-205	12	1	1.410*	1	58 609	1	N,N
83-BI-209	12	1	1.45C*	1	63 1701	1	N,N
88-RA-236	12	1	1.450*	1	60 623	1	N,N
90-TH-232	12	6	1.450* 0	1	60 568	14	N,N
90-TH-232	12	6	1.510* 0	2	61 659	18	N,N
90-TH-232	12	7	1.030* 0	1	58 1462	2	N,N
90-TH-232	12	8	1.400* 0	1	60 590	13	N,N
90-TH-232	12	1	1.410* 0	1	61 745	1	N,N
90-TH-232	12	1	1.470*	1	60 1520	1	N,N
90-TH-232	12	1	1.500*	1	56 1398	1	N,N
92-U-235	12	7	1.000* 0	8	69 2092	2	N,N
92-U-238	12	6	1.420* 0	1	66 359	26	N,N
92-U-238	12	7	1.000* 0	8	69 2092	2	N,N
92-U-238	12	7	1.930* 0	1	75 3807	15	N,N
92-U-238	12	1	1.370*	1	73 3450	7	N,N
92-U-238	12	1	1.400*	1	57 338	1	N,N
92-U-238	12	1	1.406*	2	69 2519	1	N,N
92-U-238	12	1	1.410*	1	56 1398	1	N,N
92-U-238	12	1	1.410*	2	68 2092	1	N,N
92-U-238	12	1	1.450*	1	61 745	1	N,N
92-U-238	12	1	1.500*	1	58 580	5	N,N
92-U-238	12	1	1.500*	1	73 3450	1	N,N
92-U-238	12	1	1.550*	1	61 1745	1	N,N
92-U-238	12	1	1.455*	1	66 3105	1	N,N
92-U-238	12	1	1.455*	1	67 2009	1	N,N
92-U-238	12	1	1.470*	1	67 2009	9	N,N
95-AM-241	12	2	1.394*	1	65 1703	1	N,N
13-AL-27	12	2	1.620*	2	60 1301	9	N,N
17-CL-35	12	2	1.480*	1	67 2301	1	N,N
17-CL-35	12	2	1.500*	1	68 2369	1	N,N
19-K-39	12	2	1.500*	1	68 2369	1	N,N
32-OE-72	12	2	1.480*	1	69 2510	1	N,N
32-OE-76	12	2	1.300*	1	67 2888	15	N,N

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
35-GE-76		3	1339.	1.36	57 1871	8	N,N
35-GE-77		3	1340.	1.36	71 4002	1	N,N
35-GE-78		3	1341.	1.36	63 6887	1	N,N
35-GE-79		3	1342.	1.36	70 2887	1	N,N
35-GE-80		3	1343.	1.36	57 1876	1	N,N
35-GE-81		3	1344.	1.36	57 1876	1	N,N
35-GE-82		3	1345.	1.36	57 1876	1	N,N
35-GE-83		3	1346.	1.36	57 1876	1	N,N
35-GE-84		3	1347.	1.36	57 1876	1	N,N
35-GE-85		3	1348.	1.36	57 1876	1	N,N
35-GE-86		3	1349.	1.36	57 1876	1	N,N
35-GE-87		3	1350.	1.36	57 1876	1	N,N
35-GE-88		3	1351.	1.36	57 1876	1	N,N
35-GE-89		3	1352.	1.36	57 1876	1	N,N
35-GE-90		3	1353.	1.36	57 1876	1	N,N
35-GE-91		3	1354.	1.36	57 1876	1	N,N
35-GE-92		3	1355.	1.36	57 1876	1	N,N
35-GE-93		3	1356.	1.36	57 1876	1	N,N
35-GE-94		3	1357.	1.36	57 1876	1	N,N
35-GE-95		3	1358.	1.36	57 1876	1	N,N
35-GE-96		3	1359.	1.36	57 1876	1	N,N
35-GE-97		3	1360.	1.36	57 1876	1	N,N
35-GE-98		3	1361.	1.36	57 1876	1	N,N
35-GE-99		3	1362.	1.36	57 1876	1	N,N
35-GE-100		3	1363.	1.36	57 1876	1	N,N
35-GE-101		3	1364.	1.36	57 1876	1	N,N
35-GE-102		3	1365.	1.36	57 1876	1	N,N
35-GE-103		3	1366.	1.36	57 1876	1	N,N
35-GE-104		3	1367.	1.36	57 1876	1	N,N
35-GE-105		3	1368.	1.36	57 1876	1	N,N
35-GE-106		3	1369.	1.36	57 1876	1	N,N
35-GE-107		3	1370.	1.36	57 1876	1	N,N
35-GE-108		3	1371.	1.36	57 1876	1	N,N
35-GE-109		3	1372.	1.36	57 1876	1	N,N
35-GE-110		3	1373.	1.36	57 1876	1	N,N
35-GE-111		3	1374.	1.36	57 1876	1	N,N
35-GE-112		3	1375.	1.36	57 1876	1	N,N
35-GE-113		3	1376.	1.36	57 1876	1	N,N
35-GE-114		3	1377.	1.36	57 1876	1	N,N
35-GE-115		3	1378.	1.36	57 1876	1	N,N
35-GE-116		3	1379.	1.36	57 1876	1	N,N
35-GE-117		3	1380.	1.36	57 1876	1	N,N
35-GE-118		3	1381.	1.36	57 1876	1	N,N
35-GE-119		3	1382.	1.36	57 1876	1	N,N
35-GE-120		3	1383.	1.36	57 1876	1	N,N
35-GE-121		3	1384.	1.36	57 1876	1	N,N
35-GE-122		3	1385.	1.36	57 1876	1	N,N
35-GE-123		3	1386.	1.36	57 1876	1	N,N
35-GE-124		3	1387.	1.36	57 1876	1	N,N
35-GE-125		3	1388.	1.36	57 1876	1	N,N
35-GE-126		3	1389.	1.36	57 1876	1	N,N
35-GE-127		3	1390.	1.36	57 1876	1	N,N
35-GE-128		3	1391.	1.36	57 1876	1	N,N
35-GE-129		3	1392.	1.36	57 1876	1	N,N
35-GE-130		3	1393.	1.36	57 1876	1	N,N
35-GE-131		3	1394.	1.36	57 1876	1	N,N
35-GE-132		3	1395.	1.36	57 1876	1	N,N
35-GE-133		3	1396.	1.36	57 1876</		

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TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

68-EP-158	12	2	1	480+	1	66 1901	1	N,2N
72-HF-175	12	2	1	480+	1	66 1901	1	N,2N
72-HF-180	12	2	1	450+	1	70 2987	1	N,2N
74-H-184	12	2	1	480+	1	66 1901	1	N,2N
81-TL-203	12	2	1	410+	1	67 3356	1	N,2N
81-TL-203	12	2	1	480+	1	73 3471	1	N,2N
81-TL-203	12	2	1	480+	1	73 3577	1	N,2N
81-TL-205	12	2	1	480+	1	73 3471	1	N,2N
82-PB-204	12	2	1	480+	1	67 2668	13	N,2N
82-PB-204	12	2	1	480+	1	71 3819	1	N,2N
82-PB-206	12	2	1	480+	1	68 2836	1	N,2N
82-PB-206	12	2	1	480+	1	73 3471	1	N,2N
82-PB-208	12	2	1	480+	1	62 1972	5	N,2N
82-PB-208	12	2	1	450+	1	59 629	1	N,2N
82-PB-208	12	2	1	470+	1	61 657	1	N,2N
83-BI-209	12	2	1	480+	1	66 1901	1	N,2N
83-BI-209	12	2	1	450+	1	59 829	1	N,2N
83-BI-209	12	2	1	470+	1	61 657	1	N,2N
83-BI-209	12	2	1	480+	1	73 3471	1	N,2N
83-BI-209	12	2	1	480+	1	67 195	11	N,2N
83-BI-209	12	2	1	480+	1	67 195	1	N,2N
83-BI-209	12	2	1	480+	1	73 3586	1	N,2N
83-BI-209	12	2	1	480+	1	73 3586	1	N,2N
83-BI-209	12	2	1	480+	1	73 3586	1	N,2N
83-BI-209	12	2	1	480+	1	66 1709	11	N,2N
83-BI-209	12	2	1	480+	1	53 87	1	N,2N
83-BI-209	12	2	1	480+	1	73 3988	1	N,2N
83-BI-209	12	2	1	480+	1	67 1921	1	N,2N
83-BI-209	12	2	1	480+	1	67 1921	1	N,2N
83-BI-209	12	2	1	480+	1	67 1901	1	N,2N
83-BI-209	12	2	1	480+	1	68 2369	5	N,2N
83-BI-209	12	2	1	480+	1	68 2369	1	N,2N
83-BI-209	12	2	1	480+	1	68 1944	1	N,2N
83-BI-209	12	2	1	480+	1	53 27	1	N,2N
83-BI-209	12	2	1	480+	1	73 3988	1	N,2N
83-BI-209	12	2	1	480+	1	73 3988	1	N,2N
83-BI-209	12	2	1	480+	1	73 3988	1	N,2N
83-BI-209	12	2	1	480+	1	58 328	2	N,2N
83-BI-209	12	2	1	480+	1	62 562	8	N,2N
83-BI-209	12	2	1	480+	1	61 830	1	N,2N
83-BI-209	12	2	1	480+	1	73 3988	1	N,2N
83-BI-209	12	2	1	480+	1	73 3988	10	N,2N
83-BI-209	12	2	1	480+	1	73 3988	1	N,2N
83-BI-209	12	2	1	480+	1	74 4002	1	N,2N
83-BI-209	12	2	1	480+	1	66 2894	7	N,2N
83-BI-209	12	2	1	480+	1	61 876	1	N,2N
83-BI-209	12	2	1	480+	1	67 1844	1	N,2N
83-BI-209	12	2	1	480+	1	67 1844	13	N,2N
83-BI-209	12	2	1	480+	1	67 1844	10	N,2N
83-BI-209	12	2	1	480+	1	75 3818	1	N,2N
83-BI-209	12	2	1	480+	1	67 1844	1	N,2N

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	34-SE-80	12	3	1.470+	1.470+	67 1876	1	N,2N
	34-SE-80	12	3	1.460+	1.480+	65 1957	1	N,2N
N	34-SE-86	12	3	1.300+	1.780+	75 3818	10	N,2N
	34-SE-82	12	3	1.440+	1.440+	67 1844	2	N,2N
	34-SE-82	12	3	1.450+	1.450+	53 27	1	N,2N
	34-SE-82	12	3	1.470+	1.470+	67 1876	2	N,2N
	34-SE-82	12	3	1.480+	1.480+	65 1957	1	N,2N
N	34-SE-82	12	3	1.480+	1.480+	72 3868	2	N,2N
N	34-SE-82	12	3	1.510+	1.510+	75 3567	2	N,2N
	35-BR-79	12	3	1.413+	1.413+	62 108	1	N,2N
	35-BR-79	12	3	1.440+	1.440+	71 3184	1	N,2N
N	35-BR-79	12	3	1.460+	1.460+	73 3988	1	N,2N
	35-BR-81	12	3	1.410+	1.410+	61 704	1	N,2N
	35-BR-81	12	3	1.440+	1.440+	68 2002	1	N,2N
	35-BR-81	12	3	1.440+	1.440+	71 3184	1	N,2N
	35-BR-81	12	3	1.450+	1.450+	53 27	1	N,2N
	35-BR-81	12	3	1.460+	1.460+	62 762	1	N,2N
N	35-BR-81	12	3	1.480+	1.480+	65 3379	2	N,2N
N	35-BR-81	12	3	1.510+	1.510+	75 3567	1	N,2N
N	37-RB-85	12	3	1.294+	1.958+	67 2888	10	N,2N
	37-RB-85	12	3	1.300+	1.780+	72 3854	10	N,2N
	37-RB-85	12	3	1.440+	1.440+	68 2002	1	N,2N
	37-RB-85	12	3	1.440+	1.440+	71 3184	1	N,2N
	37-RB-85	12	3	1.480+	1.480+	70 3150	1	N,2N
N	37-RB-85	12	3	1.480+	1.480+	71 3819	1	N,2N
N	37-RB-85	12	3	1.500+	1.700+	73 3508	3	N,2N
N	37-RB-87	12	3	1.300+	1.880+	72 3854	10	N,2N
	37-RB-87	12	3	1.480+	1.480+	70 3150	1	N,2N
N	37-RB-87	12	3	1.480+	1.480+	71 3819	1	N,2N
	37-RB-87	12	3	1.480+	1.480+	72 3832	1	N,2N
	38-SR-86	12	3	1.440+	1.440+	71 3184	1	N,2N
	38-SR-86	12	3	1.460+	1.460+	62 702	1	N,2N
	38-SR-86	12	3	1.470+	1.470+	66 1873	1	N,2N
	38-SR-86	12	3	1.480+	1.480+	70 3150	1	N,2N
N	38-SR-86	12	3	1.480+	1.480+	72 3832	1	N,2N
N	38-SR-86	12	3	1.480+	1.480+	75 3577	1	N,2N
N	40-ZR-90	12	3	1.344+	1.487+	72 3774	6	N,2N
	40-ZR-90	12	3	1.410+	1.410+	60 644	1	N,2N
	40-ZR-90	12	3	1.450+	1.450+	53 27	1	N,2N
	40-ZR-90	12	3	1.470+	1.470+	66 1373	2	N,2N
C	40-ZR-90	12	3	1.470+	1.470+	71 1873	1	N,2N
	40-ZR-90	12	3	1.480+	1.480+	63 756	1	N,2N
	40-ZR-90	12	3	1.480+	1.460+	63 884	1	N,2N
	40-ZR-90	12	3	1.480+	1.480+	70 3150	1	N,2N
N	40-ZR-90	12	3	1.480+	1.480+	72 3832	2	N,2N
N	40-ZR-90	12	3	1.480+	1.480+	75 3562	1	N,2N
N	40-ZR-90	12	3	1.480+	1.480+	75 3577	1	N,2N
	42-MO-92	12	3	1.341+	1.492+	72 3774	21	N,2N
	42-MO-92	12	3	1.351+	1.480+	57 535	4	N,2N
	42-MO-92	12	3	1.413+	1.413+	62 108	1	N,2N
N	42-MO-92	12	3	1.460+	1.460+	73 3988	1	N,2N
	42-MO-92	12	3	1.480+	1.480+	63 756	1	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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EC511-1200 REACTION INDEX (REACTION NO. ORDERED)

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TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

N	52-TE-130	12	3	1.470	1	74 4002	1	N,2N
N	52-TE-130	12	3	1.480	1	63 2203	1	N,2N
N	52-TE-130	12	3	1.480	1	66 2314	1	N,2N
N	52-TE-130	12	3	1.480	1	72 3858	1	N,2N
N	52-TE-130	12	3	1.480	1	66 2842	1	N,2N
N	56-BA-132	12	3	1.480	1	72 3856	1	N,2N
N	56-BA-132	12	3	1.480	1	69 2987	1	N,2N
N	56-BA-132	12	3	1.480	1	74 3624	1	N,2N
N	56-BA-132	12	3	1.480	1	60 672	1	N,2N
N	56-BA-132	12	3	1.480	1	73 3988	1	N,2N
N	59-PR-141	12	3	1.460	1	69 2334	2	N,2N
N	62-SM-144	12	3	1.420	1	61 676	1	N,2N
N	62-SM-144	12	3	1.450	1	67 2401	2	N,2N
N	62-SM-144	12	3	1.480	1	60 672	1	N,2N
N	62-SM-144	12	3	1.480	1	72 3486	1	N,2N
N	62-SM-144	12	3	1.480	1	75 3562	1	N,2N
N	63-EU-153	12	3	1.420	1	69 2334	1	N,2N
N	63-EU-153	12	3	1.480	1	72 3832	1	N,2N
N	67-HO-165	12	3	1.275	1	68 2891	9	N,2N
N	67-HO-165	12	3	1.400	1	66 2258	2	N,2N
N	67-HO-165	12	3	1.470	1	54 1848	1	N,2N
N	74-M-186	12	3	1.470	1	74 3624	1	N,2N
N	74-M-186	12	3	1.480	1	66 1901	1	N,2N
N	74-M-186	12	3	1.480	1	71 3819	1	N,2N
N	78-PI-198	12	3	1.440	1	72 3518	1	N,2N
N	78-PI-198	12	3	1.470	1	70 3362	1	N,2N
N	78-PI-198	12	3	1.470	1	74 4002	1	N,2N
N	78-PI-198	12	3	1.480	1	55 1927	1	N,2N
N	80-HO-200	12	3	1.410	1	69 2773	1	N,2N
N	80-HO-200	12	3	1.440	1	58 2847	1	N,2N
N	80-HO-200	12	3	1.470	1	52 3588	1	N,2N
N	80-HO-200	12	3	1.490	1	60 1789	1	N,2N
N	21-SE-145	12	4	1.210	1	59 619	14	N,2N
N	21-SE-145	12	4	1.400	1	58 2889	1	N,2N
N	21-SE-145	12	4	1.413	1	62 138	1	N,2N
N	21-SE-145	12	4	1.480	1	61 660	1	N,2N
N	21-SE-145	12	4	1.480	1	61 703	1	N,2N
N	21-SE-145	12	4	1.480	1	63 756	1	N,2N
N	21-SE-145	12	4	1.480	1	67 1901	1	N,2N
N	21-SE-145	12	4	1.480	1	75 3577	1	N,2N
N	21-SE-145	12	4	1.510	1	75 3567	1	N,2N
N	22-TI-146	12	4	1.460	1	73 3988	1	N,2N
N	27-CO-59	12	4	1.359	1	66 2894	6	N,2N
N	27-CO-59	12	4	1.410	1	67 1871	7	N,2N
N	27-CO-59	12	4	1.480	1	65 1800	1	N,2N
N	27-CO-59	12	4	1.480	1	58 598	1	N,2N
N	28-NI-58	12	4	1.460	1	73 3988	1	N,2N
N	28-NI-58	12	4	1.621	1	75 3890	10	N,2N
N	29-CU-65	12	4	1.460	1	73 3988	1	N,2N
N	29-CU-65	12	4	1.460	1	71 3516	17	N,2N
N	30-ZN-70	12	4	1.440	1	60 2695	1	N,2N

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	37-RB-85	12	5	1.440+	1.440+	68 2002	1	N,2N
	37-RB-85	12	5	1.440+	1.440+	71 3184	1	N,2N
N	37-RB-85	12	5	1.460+	1.460+	73 3988	1	N,2N
	37-RB-85	12	5	1.480+	1.480+	70 3150	1	N,2N
N	37-RB-87	12	5	1.330+	1.540+	72 3854	5	N,2N
	37-RB-87	12	5	1.440+	1.440+	71 3184	1	N,2N
N	37-RB-87	12	5	1.460+	1.460+	73 3988	1	N,2N
N	37-RB-87	12	5	1.470+	1.470+	74 3624	1	N,2N
	37-RB-87	12	5	1.480+	1.480+	70 3150	1	N,2N
	38-SR-06	12	5	1.460+	1.460+	62 702	1	N,2N
N	38-SR-06	12	5	1.460+	1.460+	73 3988	1	N,2N
	38-SR-06	12	5	1.480+	1.480+	70 3150	1	N,2N
N	38-SR-06	12	5	1.480+	1.480+	75 3577	1	N,2N
	39-Y -83	12	5	1.410+	1.806+	75 3890	12	N,2N
N	39-Y -83	12	5	1.480+	1.480+	75 3577	1	N,2N
	40-ZR-96	12	5	1.460+	1.460+	73 3988	1	N,2N
N	41-NB-93	12	5	9.350+ 0	1.510+	60 590	17	N,2N
	41-NB-93	12	5	1.026+	1.959+	70 3787	32	N,2N
	41-NB-93	12	5	1.405+	1.470+	66 1873	2	N,2N
	41-NB-93	12	5	1.410+	1.410+	59 615	1	N,2N
	41-NB-93	12	5	1.450+	1.450+	62 3169	1	N,2N
	41-NB-93	12	5	1.460+	1.460+	62 702	1	N,2N
	41-NB-93	12	5	1.470+	1.470+	61 657	1	N,2N
	41-NB-93	12	5	1.470+	1.470+	62 770	1	N,2N
	41-NB-93	12	5	1.480+	1.480+	63 756	1	N,2N
	41-NB-93	12	5	1.480+	1.480+	70 3150	1	N,2N
N	41-NB-93	12	5	1.480+	1.480+	72 3832	1	N,2N
N	44-RU-104	12	5	1.410+	1.410+	70 3340	1	N,2N
N	45-RH-103	12	5	1.063+	1.959+	70 3787	26	N,2N
	47-AG-107	12	5	1.035+	1.510+	60 590	10	N,2N
N	47-AG-107	12	5	1.341+	2.805+	75 3890	14	N,2N
	47-AG-107	12	5	1.400+	1.400+	61 2168	1	N,2N
	48-CD-116	12	5	1.206+	1.976+	60 588	13	N,2N
	48-CD-116	12	5	1.410+	1.410+	67 1753	1	N,2N
	48-CD-116	12	5	1.440+	1.440+	68 2853	2	N,2N
	48-CD-116	12	5	1.480+	1.480+	61 703	1	N,2N
	49-IN-115	12	5	9.300+ 0	1.976+	60 588	15	N,2N
	49-IN-115	12	5	1.270+	1.939+	67 1686	10	N,2N
	49-IN-115	12	5	1.410+	1.410+	70 3340	1	N,2N
	49-IN-115	12	5	1.460+	1.479+	69 2354	2	N,2N
	49-IN-115	12	5	1.470+	1.470+	68 3357	1	N,2N
	49-IN-115	12	5	1.480+	1.480+	68 2711	1	N,2N
N	50-SN-118	12	5	1.300+	1.730+	75 3818	9	N,2N
	50-SN-118	12	5	1.440+	1.440+	68 2427	1	N,2N
	50-SN-124	12	5	1.440+	1.440+	68 2427	1	N,2N
	51-SB-121	12	5	1.278+	1.942+	68 2891	10	N,2N
N	51-SB-121	12	5	1.320+	1.516+	68 3745	6	N,2N
	51-SB-123	12	5	1.400+	1.400+	59 619	1	N,2N
	51-SB-123	12	5	1.450+	1.450+	53 27	1	N,2N
	51-SB-123	12	5	1.480+	1.480+	61 703	1	N,2N
	52-TE-120	12	5	1.480+	1.480+	68 2314	1	N,2N
	52-TE-122	12	5	1.480+	1.480+	68 2314	2	N,2N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
52-TC-128	12	5	1.480+	1.480+	68 2314	1	N,2N
52-TF-130	12	5	1.420+	1.420+	85 2186	1	N,2N
52-TE-130	12	5	1.480+	1.480+	63 2203	1	N,2N
52-TE-130	12	5	1.480+	1.480+	58 2314	1	N,2N
N 53-I-127	12	5	1.460+	1.460+	73 3988	1	N,2N
54-XE-130	12	5	1.440+	1.440+	68 2842	1	N,2N
51-XE-132	12	5	1.440+	1.440+	68 2842	1	N,2N
54-XE-134	12	5	1.440+	1.440+	58 2842	1	N,2N
55-CS-133	12	5	1.316+	1.941+	62 562	5	N,2N
N 55-CS-133	12	5	1.420+	1.460+	84 3685	4	N,2N
N 55-CS-132	12	5	1.460+	1.460+	73 3988	1	N,2N
N 58-CE-140	12	5	1.480+	1.480+	75 3577	1	N,2N
67-HO-165	12	5	1.270+	1.939+	67 1686	10	N,2N
69-TM-169	12	5	8.650+	0 2.802+	75 3890	15	N,2N
N 70-YB-170	12	5	1.480+	1.480+	2 3832	1	N,2N
N 71-LU-175	12	5	8.510+	0 2.801+	75 3890	14	N,2N
71-LU-175	12	5	1.470+	1.470+	68 1718	1	N,2N
75-RE-188	12	5	1.410+	1.410+	52 2328	2	N,2N
75-RE-185	12	5	1.480+	1.480+	67 2300	1	N,2N
N 76-OS-186	12	5	1.470+	1.470+	75 4003	1	N,2N
76-OS-182	12	5	1.470+	1.470+	70 3362	1	N,2N
N 76-OS-182	12	5	1.470+	1.470+	75 4003	1	N,2N
N 77-IR-191	12	5	8.640+	0 2.448+	75 3890	11	N,2N
77-IR-191	12	5	1.470+	1.470+	68 1718	1	N,2N
N 77-IR-193	12	5	8.610+	0 2.124+	75 3890	9	N,2N
79-AU-197	12	5	8.400+	0 1.510+	60 590	16	N,2N
N 79-AU-197	12	5	8.650+	0 2.808+	75 3890	17	N,2N
79-AU-197	12	5	1.450+	1.450+	53 27	1	N,2N
79-AU-197	12	5	1.460+	1.460+	69 2354	1	N,2N
79-AU-197	12	5	1.480+	1.480+	65 1957	1	N,2N
N 81-TL-203	12	5	8.610+	0 2.805+	75 3890	16	N,2N
81-TL-203	12	5	1.410+	1.410+	67 3356	1	N,2N
N 81-TL-203	12	5	1.460+	1.460+	73 3988	1	N,2N
N 81-TL-203	12	5	1.480+	1.480+	73 3471	1	N,2N
N 81-TL-203	12	5	1.480+	1.480+	75 3577	1	N,2N
N 81-TL-205	12	5	2.606+	1 2.606+	75 3890	1	N,2N
N 45-RH-103	12	6	1.063+	1.959+	70 3787	26	N,2N
50-SN-122	12	6	1.440+	1.440+	68 2427	1	N,2N
N 63-EU-151	12	6	1.460+	1.480+	72 3437	1	N,2N
71-LU-175	12	6	1.470+	1.470+	68 1718	1	N,2N
N 93-NP-237	12	6	1.377+	1.495+	73 3450	5	N,2N
N 9-F-19	12	7	1.470+	1.470+	72 3957	1	N,2N
N 19-K-11	12	7	1.470+	1.470+	72 3957	1	N,2N
N 29-CJ-65	12	7	1.510+	1.510+	69 3662	1	N,2N
N 7-N-14	12	80	1.356+	1.471+	70 1672	24	N,2N
9-F-19	12	80	1.352+	1.775+	67 2594	88	N,2N
N 9-F-19	12	80	1.356+	1.471+	70 1672	24	N,2N
C 9-F-19	12	80	1.350+	1.460+	68 2596	6	N,2N
28-NI-58	12	80	1.200+	1.840+	72 930	5	N,2N
N 28-NI-58	12	80	1.356+	1.471+	70 1672	24	N,2N
29-CU-63	12	80	1.110+	1.830+	52 933	5	N,2N
N 29-CU-63	12	80	1.356+	1.471+	70 1672	24	N,2N

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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[illegible][illegible]

... 2-103 ...

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
15-P-31	14	1.400+	1.400+	1.400+	61 361	1	N,N,P
15-P-31	14	1.400+	1.400+	1.400+	62 688	1	N,N,P
16-S-NAT	14	1.400+	1.400+	1.400+	62 688	1	N,N,P
16-S-32	14	1.400+	1.400+	1.400+	61 361	1	N,N,P
18-A-32	14	1.450+	1.480+	1.480+	62 688	1	N,N,P
18-A-35	14	1.450+	1.480+	1.480+	62 688	1	N,N,P
20-C-35	14	1.400+	1.400+	1.400+	59 596	1	N,N,P
20-C-40	14	1.400+	1.400+	1.400+	61 361	1	N,N,P
20-C-40	14	1.410+	1.410+	1.410+	68 321	1	N,N,P
21-CR-50	14	1.400+	1.400+	1.400+	61 361	1	N,N,P
21-CR-53	14	1.470+	1.470+	1.470+	69 273	1	N,N,P
26-FE-54	14	1.400+	1.400+	1.400+	59 217	1	N,N,P
26-FE-54	14	1.400+	1.400+	1.400+	61 361	1	N,N,P
26-FE-56	14	1.400+	1.400+	1.400+	61 361	1	N,N,P
26-FE-57	14	1.400+	1.480+	1.480+	61 679	1	N,N,P
27-CO-59	14	1.400+	1.440+	1.440+	62 688	1	N,N,P
28-NI-NAT	14	1.400+	1.440+	1.440+	62 688	1	N,N,P
28-NI-58	14	1.395+	1.488+	1.488+	61 695	1	N,N,P
28-NI-58	14	1.356+	1.488+	1.488+	62 832	9	N,N,P
28-NI-50	14	1.400+	1.400+	1.400+	57 217	1	N,N,P
28-NI-58	14	1.400+	1.400+	1.400+	61 361	1	N,N,P
28-NI-58	14	1.450+	1.450+	1.450+	59 527	1	N,N,P
28-NI-58	14	1.480+	1.480+	1.480+	69 2050	1	N,N,P
28-NI-60	14	1.350+	1.350+	1.350+	61 654	1	N,N,P
28-NI-60	14	1.400+	1.400+	1.400+	57 217	1	N,N,P
28-NI-60	14	1.400+	1.400+	1.400+	61 361	1	N,N,P
28-NI-62	14	1.480+	1.480+	1.480+	62 868	1	N,N,P
28-NI-62	14	1.480+	1.480+	1.480+	60 598	1	N,N,P
28-NI-64	14	1.400+	1.400+	1.400+	59 2053	1	N,N,P
29-CU-NAT	14	1.400+	1.400+	1.400+	57 217	1	N,N,P
29-CU-63	14	1.400+	1.400+	1.400+	61 361	1	N,N,P
29-CU-63	14	1.400+	1.400+	1.400+	69 3682	1	N,N,P
29-CU-65	14	1.510+	1.510+	1.510+	57 217	1	N,N,P
29-CU-65	14	1.400+	1.400+	1.400+	59 2053	1	N,N,P
29-CU-65	14	1.510+	1.510+	1.510+	69 3682	1	N,N,P
30-ZN-66	14	1.400+	1.400+	1.400+	61 361	1	N,N,P
32-GE-74	14	1.400+	1.400+	1.400+	68 3713	1	N,N,P
42-MO-NAT	14	1.335+	1.778+	1.778+	71 3818	8	N,N,P
42-MO-92	14	1.400+	1.400+	1.400+	59 2053	1	N,N,P
46-Pb-108	14	1.450+	1.450+	1.450+	59 626	1	N,N,P
48-CO-106	14	1.450+	1.450+	1.450+	59 626	1	N,N,P
52-TE-128	14	1.450+	1.450+	1.450+	59 626	1	N,N,P
52-TE-130	14	1.370+	2.120+	1.500+	59 626	6	N,N,P
58-CR-142	14	1.370+	2.120+	1.500+	59 626	1	N,N,P
74-M-186	14	1.400+	2.120+	1.500+	61 1684	3	N,N,P
6-C-12	14	1.390+	1.860+	1.860+	75 2854	6	N,N,P
28-NI-61	14	1.480+	1.480+	1.480+	58 588	1	N,N,P
28-NI-64	14	1.410+	1.410+	1.410+	62 868	1	N,N,P

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07/04/78

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 14

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
50-SN-118	14	3	1.490	1.490	1	65 2186	2 N,N'P
N 30-ZN-64	14	10	1.410	1.410	1	71 3769	1 N,N'P
N 30-ZN-66	14	10	1.410	1.410	1	71 3768	1 N,N'P
3-LI-6	15		3.350	0	7.540	0 63 841	6 N,N'D
3-LI-6	15		4.400	0	1.400	1 56 589	11 N,N'D
3-LI-6	15		4.830	0	7.500	0 68 1632	3 N,N'D
3-LI-6	15		1.410	1.410	1	61 487	1 N,N'D
5-B-10	15		1.220	1	1.950	1 56 144	5 N,N'D
3-LI-7	16		3.750	0	1.485	1 63 838	6 N,N'T
3-LI-7	16		4.000	0	7.540	0 63 841	4 N,N'T
3-LI-7	16		4.000	0	1.480	1 58 1641	7 N,N'T
3-LI-7	16		4.830	0	7.500	0 68 1632	3 N,N'T
3-LI-7	16		5.100	0	1.400	1 56 589	10 N,N'T
3-LI-7	16		1.400	1	1.400	1 61 2386	1 N,N'T
3-LI-7	16		1.410	1	1.410	1 61 487	1 N,N'T
6-C-12	18		1.230	1	2.010	1 55 127	19 N,N'ALPHA
C 11-NA-23	18		1.260	1	1.870	1 66 2895	7 N,N'ALPHA
19-K-39	18		1.254	1	1.960	1 62 562	5 N,N'ALPHA
20-CA-40	18		1.410	1	1.410	1 66 2894	1 N,N'ALPHA
23-V-51	18		1.410	1	1.410	1 58 614	1 N,N'ALPHA
23-V-51	18		1.480	1	1.480	1 58 537	1 N,N'ALPHA
28-NI-58	18		1.410	1	1.410	1 65 899	1 N,N'ALPHA
29-CU-65	18		1.358	1	1.980	1 66 2065	7 N,N'ALPHA
29-CU-65	18		1.450	1	1.450	1 62 757	1 N,N'ALPHA
29-CU-65	18		1.470	1	1.470	1 62 88	1 N,N'ALPHA
29-CU-65	18		1.480	1	1.480	1 63 756	1 N,N'ALPHA
30-ZN-64	18		1.410	1	1.410	1 66 2894	1 N,N'ALPHA
30-ZN-70	18		1.480	1	1.480	1 63 756	1 N,N'ALPHA
C 31-OA-71	18		1.480	1	1.480	1 63 756	1 N,N'ALPHA
53-I-127	18		1.410	1	2.150	1 62 2208	5 N,N'ALPHA
55-CS-133	18		1.410	1	2.150	1 62 2208	5 N,N'ALPHA
41-NB-93	18	2	1.450	1	1.450	1 82 3169	1 N,N'ALPHA
41-NB-93	18	2	1.480	1	1.480	1 63 756	1 N,N'ALPHA
29-CU-65	18	3	1.316	1	1.941	1 62 562	8 N,N'ALPHA
31-OA-71	18	1	1.521	1	1.941	1 62 562	5 N,N'ALPHA
45-RH-103	18	4	1.470	1	1.470	1 66 2141	1 N,N'ALPHA
45-RH-103	18	4	1.480	1	1.480	1 68 2707	1 N,N'ALPHA
23-V-51	18	5	1.410	1	1.960	1 62 562	5 N,N'ALPHA
92-U-238	19		1.780	1	1.880	1 62 1347	2 N,N
1-H-1	21		2.530	0	2.530	0 42 2787	1 ABSORPTION
1-H-1	21		2.530	0	2.530	0 53 2784	1 ABSORPTION
1-H-1	21		2.530	0	2.530	0 53 2785	1 ABSORPTION
1-H-1	21		2.530	0	2.530	0 53 2786	1 ABSORPTION
1-H-1	21		2.530	0	2.530	0 54 2730	1 ABSORPTION
1-H-1	21		2.530	0	2.530	0 54 2783	1 ABSORPTION
1-H-1	21		2.530	0	2.530	0 55 2940	1 ABSORPTION
1-H-1	21		2.530	0	2.530	0 56 2930	1 ABSORPTION
1-H-1	21		2.530	0	2.530	0 56 2931	1 ABSORPTION
1-H-1	21		2.530	0	2.530	0 59 2782	1 ABSORPTION
1-H-1	21		2.530	0	2.530	0 59 2995	2 ABSORPTION
1-H-1	21		2.530	0	2.530	0 59 2781	1 ABSORPTION
1-H-1	21		2.530	0	2.530	0 59 2792	1 ABSORPTION

TARGET	COLL	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 21

EC501-1000 REACTION INDEX REACTION NO. ORDERED

[illegible]

... 2-108 ...

ECS11-7500 REACTION INDEX (REACTION NO. ORDERED)

07/04/76

[illegible]

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
Al	1	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	2	1	0.000	0.000	2	1	Al-27(p,n)Si-28
Al	3	1	0.000	0.000	3	1	Al-27(p,n)Si-28
Al	4	1	0.000	0.000	4	1	Al-27(p,n)Si-28
Al	5	1	0.000	0.000	5	1	Al-27(p,n)Si-28
Al	6	1	0.000	0.000	6	1	Al-27(p,n)Si-28
Al	7	1	0.000	0.000	7	1	Al-27(p,n)Si-28
Al	8	1	0.000	0.000	8	1	Al-27(p,n)Si-28
Al	9	1	0.000	0.000	9	1	Al-27(p,n)Si-28
Al	10	1	0.000	0.000	10	1	Al-27(p,n)Si-28
Al	11	1	0.000	0.000	11	1	Al-27(p,n)Si-28
Al	12	1	0.000	0.000	12	1	Al-27(p,n)Si-28
Al	13	1	0.000	0.000	13	1	Al-27(p,n)Si-28
Al	14	1	0.000	0.000	14	1	Al-27(p,n)Si-28
Al	15	1	0.000	0.000	15	1	Al-27(p,n)Si-28
Al	16	1	0.000	0.000	16	1	Al-27(p,n)Si-28
Al	17	1	0.000	0.000	17	1	Al-27(p,n)Si-28
Al	18	1	0.000	0.000	18	1	Al-27(p,n)Si-28
Al	19	1	0.000	0.000	19	1	Al-27(p,n)Si-28
Al	20	1	0.000	0.000	20	1	Al-27(p,n)Si-28
Al	21	1	0.000	0.000	21	1	Al-27(p,n)Si-28
Al	22	1	0.000	0.000	22	1	Al-27(p,n)Si-28
Al	23	1	0.000	0.000	23	1	Al-27(p,n)Si-28
Al	24	1	0.000	0.000	24	1	Al-27(p,n)Si-28
Al	25	1	0.000	0.000	25	1	Al-27(p,n)Si-28
Al	26	1	0.000	0.000	26	1	Al-27(p,n)Si-28
Al	27	1	0.000	0.000	27	1	Al-27(p,n)Si-28
Al	28	1	0.000	0.000	28	1	Al-27(p,n)Si-28
Al	29	1	0.000	0.000	29	1	Al-27(p,n)Si-28
Al	30	1	0.000	0.000	30	1	Al-27(p,n)Si-28
Al	31	1	0.000	0.000	31	1	Al-27(p,n)Si-28
Al	32	1	0.000	0.000	32	1	Al-27(p,n)Si-28
Al	33	1	0.000	0.000	33	1	Al-27(p,n)Si-28
Al	34	1	0.000	0.000	34	1	Al-27(p,n)Si-28
Al	35	1	0.000	0.000	35	1	Al-27(p,n)Si-28
Al	36	1	0.000	0.000	36	1	Al-27(p,n)Si-28
Al	37	1	0.000	0.000	37	1	Al-27(p,n)Si-28
Al	38	1	0.000	0.000	38	1	Al-27(p,n)Si-28
Al	39	1	0.000	0.000	39	1	Al-27(p,n)Si-28
Al	40	1	0.000	0.000	40	1	Al-27(p,n)Si-28
Al	41	1	0.000	0.000	41	1	Al-27(p,n)Si-28
Al	42	1	0.000	0.000	42	1	Al-27(p,n)Si-28
Al	43	1	0.000	0.000	43	1	Al-27(p,n)Si-28
Al	44	1	0.000	0.000	44	1	Al-27(p,n)Si-28
Al	45	1	0.000	0.000	45	1	Al-27(p,n)Si-28
Al	46	1	0.000	0.000	46	1	Al-27(p,n)Si-28
Al	47	1	0.000	0.000	47	1	Al-27(p,n)Si-28
Al	48	1	0.000	0.000	48	1	Al-27(p,n)Si-28
Al	49	1	0.000	0.000</			

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TARGET	CODE	S	E	E-MIN-ME	E-MAX-ME	REFERENCE	POINTS	REACTION DESCRIPTION			
71-PT-NAT	21	2	530	-0	2	530	58	1162	1	ABSORPTION	
71-PT-NAT	21	2	530	-0	2	530	60	995	1	ABSORPTION	
79-AU-197	21	2	500	-0	2	500	60	1995	1	ABSORPTION	
79-AU-197	21	2	530	-0	2	530	53	809	1	ABSORPTION	
79-AU-197	21	2	530	-0	2	530	54	873	1	ABSORPTION	
79-AU-197	21	2	530	-0	2	530	54	2651	1	ABSORPTION	
79-AU-197	21	2	530	-0	2	530	58	1162	1	ABSORPTION	
79-AU-197	21	2	530	-0	2	530	60	891	1	ABSORPTION	
79-AU-197	21	2	530	-0	2	530	62	2650	1	ABSORPTION	
79-AU-197	21	2	530	-0	2	530	64	776	1	ABSORPTION	
90-HG-NAT	21	2	400	-2	2	400	2	65	1264	1	ABSORPTION
90-HG-NAT	21	2	400	-2	2	400	2	60	631	1	ABSORPTION
80-HG-NAT	21	2	400	-2	2	400	2	58	364	3	ABSORPTION
82-PB-NAT	21	2	530	-0	2	530	58	1162	1	ABSORPTION	
82-PB-NAT	21	2	530	-0	2	530	58	1162	1	ABSORPTION	
82-PB-NAT	21	2	400	-2	2	400	2	58	364	2	ABSORPTION
82-PB-NAT	21	1	500	-3	2	500	2	58	998	38	ABSORPTION
91-TH-232	21	2	500	-3	2	500	2	28	1162	1	ABSORPTION
91-TH-232	21	2	500	-3	2	500	2	73	1167	1	ABSORPTION
92-PU-238	21	2	500	-3	2	500	2	68	2158	2	ABSORPTION
90-TH-232	21	2	500	-3	2	500	2	68	1167	1	ABSORPTION
90-TH-232	21	2	530	-0	2	530	58	1205	1	ABSORPTION	
90-TH-232	21	2	400	-2	2	400	2	60	897	1	ABSORPTION
90-TH-232	21	2	400	-2	2	400	2	65	364	1	ABSORPTION
90-TH-232	21	2	500	-3	2	500	2	55	1541	3	ABSORPTION
92-U-NAT	21	2	500	-0	2	500	55	1317	1	ABSORPTION	
92-U-NAT	21	2	530	-0	2	530	61	2569	1	ABSORPTION	
92-U-232	21	2	530	-0	2	530	55	1317	1	ABSORPTION	
92-U-233	21	2	500	-0	2	500	46	1313	1	ABSORPTION	
92-U-233	21	2	500	-0	2	500	55	1404	1	ABSORPTION	
92-U-234	21	2	530	-0	2	530	58	436	1	ABSORPTION	
92-U-235	21	2	500	-3	2	500	7	55	1460	33	ABSORPTION
92-U-235	21	2	400	-2	2	400	6	62	359	131	ABSORPTION
92-U-235	21	2	500	-0	2	500	54	1300	1	ABSORPTION	
92-U-235	21	2	500	-0	2	500	55	1317	1	ABSORPTION	
92-U-235	21	2	530	-0	2	530	46	1313	1	ABSORPTION	
92-U-235	21	2	530	-0	2	530	54	1279	1702	ABSORPTION	
92-U-235	21	1	035	-6	1	176	3	55	3283	2	ABSORPTION
92-U-235	21	1	400	-2	2	400	5	50	1453	2	ABSORPTION
92-U-235	21	2	400	-2	2	400	5	65	364	3	ABSORPTION
92-U-235	21	2	530	-0	2	530	58	436	1	ABSORPTION	
92-U-236	21	2	530	-0	2	530	55	1317	1	ABSORPTION	
92-U-236	21	2	530	-0	2	530	55	1317	1	ABSORPTION	
92-U-238	21	2	530	-0	2	530	53	1432	1	ABSORPTION	
92-U-238	21	2	530	-0	2	530	55	279	1	ABSORPTION	
92-U-238	21	2	530	-0	2	530	55	1275	1	ABSORPTION	

TABLE	CODE	S E-MIN-MIN	E-MIN-MIN	POINTS	REACTION	DESCRIPTION
300	1	1	1	1	1	1
300	2	2	2	2	2	2
300	3	3	3	3	3	3
300	4	4	4	4	4	4
300	5	5	5	5	5	5
300	6	6	6	6	6	6
300	7	7	7	7	7	7
300	8	8	8	8	8	8
300	9	9	9	9	9	9
300	10	10	10	10	10	10
300	11	11	11	11	11	11
300	12	12	12	12	12	12
300	13	13	13	13	13	13
300	14	14	14	14	14	14
300	15	15	15	15	15	15
300	16	16	16	16	16	16
300	17	17	17	17	17	17
300	18	18	18	18	18	18
300	19	19	19	19	19	19
300	20	20	20	20	20	20
300	21	21	21	21	21	21
300	22	22	22	22	22	22
300	23	23	23	23	23	23
300	24	24	24	24	24	24
300	25	25	25	25	25	25
300	26	26	26	26	26	26
300	27	27	27	27	27	27
300	28	28	28	28	28	28
300	29	29	29	29	29	29
300	30	30	30	30	30	30
300	31	31	31	31	31	31
300	32	32	32	32	32	32
300	33	33	33	33	33	33
300	34	34	34	34	34	34
300	35	35	35	35	35	35
300	36	36	36	36	36	36
300	37	37	37	37	37	37
300	38	38	38	38	38	38
300	39	39	39	39	39	39
300	40	40	40	40	40	40
300	41	41	41	41	41	41
300	42	42	42	42	42	42
300	43	43	43	43	43	43
300	44	44	44	44	44	44
300	45	45	45	45	45	45
300	46	46	46	46	46	46
300	47	47	47	47	47	47
300	48	48	48	48	48	48
300	49	49	49	49	49	49
300	50	50	50	50	50	50
300	51	51	51	51	51	51
300	52	52	52	52	52	52
300	53	53	53	53	53	53
300	54	54	54	54	54	54
300	55	55	55	55	55	55
300	56	56	56	56	56	56
300	57	57	57	57	57	57
300	58	58	58	58	58	58
300	59	59	59	59	59	59
300	60	60	60	60	60	60
300	61	61	61	61	61	61
300	62	62	62	62	62	62
300	63	63	63	63	63	63
300	64	64	64			

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ECSIL-5600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION		
	92-U	-238	21	2.530	0	2.530	0	69 2520	1	ABSORPTION
	92-U	-238	21	2.400	2	2.400	2	65 1364	1	ABSORPTION
	92-U	-238	21	2.400	2	2.400	2	66 1541	1	ABSORPTION
	92-U	-238	21	2.500	2	0.300	1	58 364	3	ABSORPTION
	UO2		21	2.510	10	1.092	9	69 2508	7	ABSORPTION
	94-PU-238	21	2.530	0	2.530	0	67 1387	1	ABSORPTION	
	94-PU-239	21	2.500	0	2.500	0	55 1317	1	ABSORPTION	
	94-PU-239	21	2.530	0	2.530	0	66 1131	1	ABSORPTION	
	94-PU-239	21	2.530	0	2.530	0	56 1311	1	ABSORPTION	
	94-PU-239	21	2.530	0	2.530	0	69 2915	1	ABSORPTION	
N	94-PU-239	21	7.022	7	1.941	3	75 3263	1944	1	ABSORPTION
	94-PU-239	21	4.400	3	4.880	2	56 16	6	1	ABSORPTION
	94-PU-239	21	2.400	2	2.400	2	65 1364	1	1	ABSORPTION
	94-PU-239	21	2.400	2	2.400	1	58 1338	3	1	ABSORPTION
	94-PU-240	21	2.500	0	2.500	0	57 412	1	1	ABSORPTION
	94-PU-240	21	2.500	0	2.500	0	59 1130	1	1	ABSORPTION
	94-PU-240	21	2.530	0	2.530	0	58 1162	1	1	ABSORPTION
	94-PU-240	21	2.530	0	2.530	0	62 1183	1	1	ABSORPTION
	94-PU-240	21	8.000	0	8.000	0	71 3239	1	1	ABSORPTION
	94-PU-241	21	2.530	0	2.530	0	66 1131	1	1	ABSORPTION
	94-PU-242	21	2.530	0	2.530	0	68 2103	1	1	ABSORPTION
	94-PU-242	21	7.000	0	7.000	0	71 3239	1	1	ABSORPTION
N	95-AM-241	21	9.840	9	3.772	1	73 3828	4984	1	ABSORPTION
	95-AM-243	21	2.530	0	2.530	0	68 2103	1	1	ABSORPTION
	95-AM-243	21	2.530	0	2.530	0	68 2104	1	1	ABSORPTION
	96-CM-244	21	2.530	0	2.530	0	68 2103	1	1	ABSORPTION
	96-CM-244	21	2.530	0	2.530	0	68 2104	1	1	ABSORPTION
	96-CM-246	21	2.530	0	2.530	0	68 2103	1	1	ABSORPTION
	97-BK-249	21	2.530	0	2.530	0	68 2103	1	1	ABSORPTION
	98-CF-250	21	2.530	0	2.530	0	68 2103	1	1	ABSORPTION
	98-CF-251	21	2.530	0	2.530	0	68 2103	1	1	ABSORPTION
	98-CF-252	21	2.530	0	2.530	0	68 2103	1	1	ABSORPTION
	99-ES-253	21	2.530	0	2.530	0	68 2103	1	1	ABSORPTION
	74-W	-NAT	22	3.800	2	3.800	2	55 461	1	N.F.
	78-PT	-NAT	22	3.800	2	3.800	2	55 461	1	N.F.
	79-AU	-197	22	3.800	2	3.800	2	55 461	1	N.F.
	81-TL	-NAT	22	3.800	2	3.800	2	55 461	1	N.F.
	82-P2	-209	22	3.800	2	3.800	2	55 461	1	N.F.
	83-B1	-209	22	1.480	1	1.480	1	69 1976	1	N.F.
	83-B1	-209	22	1.200	2	3.800	2	55 461	2	N.F.
	88-RA	-226	22	2.000	0	1.410	1	59 346	8	N.F.
	88-RA	-226	22	3.000	0	1.480	1	67 2111	18	N.F.
N	90-TH	-227	22	2.530	0	2.530	0	70 3912	1	N.F.
N	90-TH	-228	22	1.900	1	5.000	0	72 3432	19	N.F.
	90-TH	-229	22	1.600	0	8.000	7	50 249	27	N.F.
	90-TH	-229	22	6.000	3	1.200	0	59 625	23	N.F.
	90-TH	-230	22	3.001	1	2.955	0	71 3219	165	N.F.
N	90-TH	-230	22	6.250	1	1.400	0	72 3940	50	N.F.
	90-TH	-230	22	6.500	1	1.230	0	67 1529	12	N.F.
	90-TH	-230	22	6.750	1	2.930	0	65 1528	41	N.F.
	90-TH	-230	22	7.100	1	1.200	0	59 624	11	N.F.
	90-TH	-230	22	2.500	0	1.460	1	60 635	2	N.F.

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C • 22

TARGET CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
90-TA-231	22	1.500*	0	2.000*	0	70 2873
90-TA-232	22	5.800*	1	2.970*	0	66 1502
90-TA-232	22	6.394*	0	2.963*	0	71 3219
90-TA-232	22	1.000*	0	1.000*	0	70 3738
90-TA-232	22	1.140*	0	1.280*	0	61 634
90-TA-232	22	1.200*	0	1.600*	0	88 2192
90-TA-232	22	1.203*	0	9.470*	0	24 515
90-TA-232	22	3.200*	0	7.367*	0	59 1631
90-TA-232	22	5.400*	0	3.656*	1	63 760
90-TA-232	22	7.500*	0	2.156*	1	57 1506
90-TA-232	22	1.250*	1	1.800*	1	62 1089
90-TA-232	22	1.300*	1	1.800*	1	61 3748
90-TA-232	22	1.350*	1	1.400*	1	50 1413
90-TA-232	22	1.410*	1	1.410*	1	56 771
90-TA-232	22	1.410*	1	1.410*	1	70 3967
90-TA-232	22	1.460*	1	1.460*	1	58 608
90-TA-232	22	1.460*	1	1.460*	1	59 2354
90-TA-232	22	1.460*	1	1.460*	1	55 481
90-TA-232	22	3.800*	2	3.800*	2	70 2873
90-TA-232	22	1.500*	0	2.000*	0	71 3219
91-PA-231	22	1.002*	1	2.959*	0	64 957
91-PA-231	22	1.330*	1	1.730*	0	44 240
91-PA-231	22	1.460*	1	1.000*	1	69 2321
91-PA-231	22	1.460*	1	1.460*	1	71 3943
92-U-232	22	2.530*	8	2.530*	8	64 389
92-U-232	22	3.691*	6	2.601*	4	64 389
92-U-232	22	5.050*	5	1.927*	3	68 898
92-U-232	22	4.155*	5	2.133*	2	70 943
92-U-232	22	1.250*	1	1.480*	0	70 3313
92-U-232	22	4.500*	9	9.600*	7	95 968
92-U-232	22	9.060*	9	2.820*	5	57 425
92-U-232	22	1.060*	8	4.860*	5	51 931
92-U-232	22	1.170*	8	7.430*	4	55 956
92-U-232	22	1.679*	8	1.063*	6	69 2514
92-U-232	22	1.679*	8	1.063*	6	70 3155
92-U-232	22	1.841*	8	3.008*	3	70 3205
92-U-232	22	1.940*	8	9.597*	7	60 1249
92-U-232	22	2.180*	8	4.650*	9	44 177
92-U-232	22	2.530*	8	2.530*	8	58 1313
92-U-232	22	2.530*	8	2.530*	8	49 1176
92-U-232	22	5.300*	9	2.530*	8	69 309
92-U-232	22	1.708*	6	3.033*	5	65 1011
92-U-232	22	6.000*	5	3.033*	2	64 1240
92-U-232	22	1.002*	6	2.606*	0	74 3620
92-U-232	22	2.055*	4	9.749*	1	70 943
92-U-232	22	2.984*	4	2.408*	3	68 1061
92-U-232	22	1.120*	4	5.500*	0	66 1023
92-U-232	22	5.000*	3	2.000*	3	68 1173
92-U-232	22	3.400*	3	1.800*	1	69 2095
92-U-232	22	3.400*	3	1.800*	1	59 612

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 22

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U	-233	22	1.130-	2 1.015+	0 69 2599	47	N,F
92-U	-233	22	1.300-	2 3.050+	0 56 152	61	N,F
92-U	-233	22	2.400-	2 2.400-	2 55 1072	1	N,F
92-U	-233	22	3.000-	2 3.000+	0 57 218	25	N,F
92-U	-233	22	3.000-	2 6.900+	0 57 18	50	N,F
92-U	-233	22	4.000-	2 4.150+	1 65 1091	5	N,F
92-U	-233	22	2.800-	1 2.630+	0 62 993	42	N,F
92-U	-233	22	3.500-	1 2.570+	0 69 2195	48	N,F
92-U	-233	22	7.000-	1 3.360+	0 56 994	34	N,F
92-U	-233	22	1.000+	0 1.410+	1 64 1090	4	N,F
92-U	-233	22	2.000+	0 1.026+	1 58 352	19	N,F
92-U	-233	22	3.000+	0 8.100+	0 58 1234	13	N,F
92-U	-233	22	9.050+	0 2.160+	1 63 983	10	N,F
92-U	-233	22	1.400+	1 1.400+	1 50 1413	1	N,F
92-U	-233	22	1.410+	1 1.410+	1 56 771	1	N,F
92-U	-233	22	1.410+	1 1.410+	1 70 3867	1	N,F
92-U	-234	22	4.180-	6 5.690-	6 60 1197	18	N,F
92-U	-234	22	2.400-	2 2.400-	2 65 1072	1	N,F
92-U	-234	22	4.000-	2 5.050-	1 60 1091	5	N,F
92-U	-234	22	1.360-	1 1.326+	0 62 293	73	N,F
92-U	-234	22	3.000-	1 1.500+	0 57 18	21	N,F
92-U	-234	22	1.000+	0 1.410+	1 64 1090	4	N,F
92-U	-234	22	1.348+	0 4.054+	0 58 293	90	N,F
92-U	-234	22	1.300+	1 1.800+	1 62 1089	5	N,F
92-U	-235	22	1.450-	5 1.001-	4 55 968	196	N,F
92-U	-235	22	2.860-	9 9.500-	7 57 918	82	N,F
92-U	-235	22	3.800-	9 9.490-	7 58 1021	31	N,F
92-U	-235	22	5.300-	9 1.520+	4 95 250	325	N,F
92-U	-235	22	1.098-	8 1.186-	7 61 1281	26	N,F
92-U	-235	22	1.110-	8 4.020-	2 58 1222	336	N,F
92-U	-235	22	1.170-	8 9.700-	4 55 956	209	N,F
92-U	-235	22	1.340-	8 7.975-	5 66 1013	1582	N,F
92-U	-235	22	1.720-	8 1.528-	7 72 3995	80	N,F
92-U	-235	22	2.018-	8 1.098+	5 68 3640	870	N,F
92-U	-235	22	2.530-	8 2.530-	8 56 1373	1	N,F
92-U	-235	22	2.530-	8 2.530-	8 58 1389	1	N,F
92-U	-235	22	2.530-	8 2.530-	8 59 1389	1	N,F
92-U	-235	22	2.530-	8 2.530-	8 59 1302	1	N,F
92-U	-235	22	2.530-	8 2.530-	8 65 1214	1	N,F
92-U	-235	22	2.530-	8 2.530-	8 60 209	1	N,F
92-U	-235	22	2.530-	8 2.530-	8 66 3640	1	N,F
92-U	-235	22	2.530-	8 2.530-	8 72 3291	1	N,F
92-U	-235	22	2.530-	8 2.530-	8 73 3291	1	N,F
92-U	-235	22	2.530-	8 2.530-	8 68 2105	1	N,F
92-U	-235	22	2.530-	8 6.260-	6 65 1372	3	N,F
92-U	-235	22	3.050-	8 2.015-	5 64 966	731	N,F
92-U	-235	22	3.500-	8 2.001-	4 65 1011	2421	N,F
92-U	-235	22	1.001-	7 1.000-	5 58 406	278	N,F
92-U	-235	22	2.196-	7 3.062-	2 65 1292	2913	N,F
92-U	-235	22	3.788-	7 5.466-	5 64 963	1496	N,F
92-U	-235	22	4.043-	7 1.029-	2 67 1025	5724	N,F

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 22

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	92-U-235	22	8.243-7	1.686-4	66 1293	1860	N.F.
N	92-U-235	22	8.934-7	1.746-3	75 3263	1702	N.F.
N	92-U-235	22	5.320-6	1.970-3	96 148	447	N.F.
N	92-U-235	22	5.993-6	3.026-3	68 1544	9763	N.F.
N	92-U-235	22	7.208-6	2.100-2	60 1017	2732	N.F.
N	92-U-235	22	8.050-6	1.995-2	72 3262	2430	N.F.
N	92-U-235	22	1.001-5	2.840-0	70 943	3600	N.F.
N	92-U-235	22	2.000-5	3.011-2	73 3125	8077	N.F.
N	92-U-235	22	2.000-5	9.993-2	71 3062	6845	N.F.
N	92-U-235	22	2.004-5	1.007-3	69 2394	2801	N.F.
N	92-U-235	22	2.005-5	9.779-1	66 1061	3090	N.F.
N	92-U-235	22	1.500-4	6.650-1	75 3951	40	N.F.
N	92-U-235	22	2.000-4	3.460-2	70 3315	26	N.F.
N	92-U-235	22	7.200-4	4.400-2	94 245	28	N.F.
N	92-U-235	22	1.013-3	1.004-0	75 3899	304	N.F.
N	92-U-235	22	1.480-3	9.800-2	70 2912	92	N.F.
N	92-U-235	22	2.000-3	2.000-2	69 2096	1	N.F.
N	92-U-235	22	3.400-3	7.800-1	59 612	24	N.F.
N	92-U-235	22	1.002-2	2.993-2	71 5333	239	N.F.
N	92-U-235	22	2.000-2	1.191-2	66 1025	20	N.F.
N	92-U-235	22	2.060-2	6.900-0	57 18	59	N.F.
N	92-U-235	22	2.400-2	2.400-2	85 1072	1	N.F.
N	92-U-235	22	3.000-2	6.400-2	67 1389	2	N.F.
N	92-U-235	22	3.000-2	1.470-0	69 912	14	N.F.
N	92-U-235	22	3.000-2	3.000-0	57 219	124	N.F.
N	92-U-235	22	3.000-2	3.500-0	73 367	136	N.F.
N	92-U-235	22	1.500-1	1.740-1	66 1583	12	N.F.
N	92-U-235	22	2.650-1	2.650-1	75 3934	10	N.F.
N	92-U-235	22	3.800-1	2.820-0	62 2893	51	N.F.
N	92-U-235	22	4.800-1	6.950-1	66 133	56	N.F.
N	92-U-235	22	4.030-1	1.620-0	57 155	14	N.F.
N	92-U-235	22	5.520-1	6.440-1	70 3341	12	N.F.
N	92-U-235	22	7.540-1	4.129-0	75 3952	27	N.F.
N	92-U-235	22	9.640-1	9.640-1	75 3459	41	N.F.
N	92-U-235	22	1.000-0	6.000-0	73 3947	41	N.F.
N	92-U-235	22	1.020-0	3.950-0	55 1024	28	N.F.
N	92-U-235	22	1.500-0	2.300-0	72 3788	3	N.F.
N	92-U-235	22	2.180-0	8.070-0	67 1500	14	N.F.
N	92-U-235	22	2.220-0	4.163-1	69 352	27	N.F.
N	92-U-235	22	2.500-0	2.500-0	73 4085	1	N.F.
N	92-U-235	22	2.900-0	8.300-0	58 1334	10	N.F.
N	92-U-235	22	6.100-0	2.570-1	63 983	30	N.F.
N	92-U-235	22	1.060-1	2.130-1	60 740	16	N.F.
N	92-U-235	22	1.320-1	1.940-1	61 744	13	N.F.
N	92-U-235	22	1.400-1	1.400-1	50 1413	1	N.F.
N	92-U-235	22	1.410-1	1.410-1	56 771	1	N.F.
N	92-U-235	22	1.410-1	1.410-1	70 4857	1	N.F.
N	92-U-235	22	1.460-1	1.460-1	58 608	1	N.F.
N	92-U-235	22	1.460-1	1.460-1	75 3901	1	N.F.
N	92-U-235	22	1.200-2	3.800-2	55 461	2	N.F.
N	92-U-235	22	3.525-5	2.935-0	70 943	1967	N.F.

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ECSIL-5600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	92-U	-236	22	1.270	1	5.050	1	65 1091
	92-U	-236	22	5.900	1	4.050	0	55 132
	92-U	-236	22	1.000	0	5.000	0	68 1362
	92-U	-236	22	1.000	0	1.410	1	24 1090
	92-U	-236	22	5.200	0	6.920	0	57 18
	92-U	-236	22	1.400	1	1.400	1	50 1413
C	92-U	-237	22	4.300	5	1.830	0	1083 N,F
	92-U	-237	22	1.500	0	2.250	0	70 943
	92-U	-237	22	4.900	1	4.180	0	55 268
N	92-U	-238	22	5.500	1	1.450	0	71 3414
	92-U	-238	22	1.000	0	3.000	0	57 218
	92-U	-238	22	1.000	0	2.407	0	68 352
	92-U	-238	22	1.010	0	4.000	0	56 1472
	92-U	-238	22	1.190	0	1.680	0	67 1500
	92-U	-238	22	1.300	0	6.950	0	57 18
	92-U	-238	22	1.500	0	5.000	0	68 1362
	92-U	-238	22	1.700	0	4.580	0	65 188
	92-U	-238	22	2.250	0	1.410	1	64 1090
N	92-U	-238	22	2.500	0	2.500	0	71 3435
	92-U	-238	22	3.100	0	5.500	0	58 1234
	92-U	-238	22	5.100	0	3.660	1	63 983
	92-U	-238	22	6.800	0	2.030	1	60 740
	92-U	-238	22	8.800	0	1.386	1	57 20
	92-U	-238	22	1.270	1	1.940	1	61 744
N	92-U	-238	22	1.350	1	1.480	1	61 3748
	92-U	-238	22	1.360	1	1.360	1	58 1330
	92-U	-238	22	1.367	1	1.495	1	2 69 2913
	92-U	-238	22	1.374	1	1.475	1	63 1434
	92-U	-238	22	1.400	1	1.400	1	48 1459
	92-U	-238	22	1.410	1	1.410	1	56 771
	92-U	-238	22	1.460	1	1.460	1	58 610
	92-U	-238	22	1.460	1	1.460	1	69 2354
N	92-U	-238	22	1.460	1	1.460	1	75 3901
	92-U	-238	22	1.200	2	3.800	2	55 461
	92-U	-239	22	1.500	0	2.250	0	70 2273
	93-NP	-236	22	2.500	8	2.500	8	61 1088
	93-NP	-237	22	2.530	8	5.250	6	59 241
N	93-NP	-237	22	2.729	6	5.250	6	73 3921
	93-NP	-237	22	2.004	5	5.197	5	71 3646
N	93-NP	-237	22	3.509	5	2.848	0	70 943
C	93-NP	-237	22	1.030	2	1.500	0	59 624
	93-NP	-237	22	2.400	2	2.400	2	65 1072
	93-NP	-237	22	4.000	2	5.050	1	65 1091
N	93-NP	-237	22	0.991	3	2.100	0	75 3900
N	93-NP	-237	22	2.002	1	7.657	0	71 3496
	93-NP	-237	22	2.500	1	3.000	0	47 179
	93-NP	-237	22	4.600	1	1.400	1	57 345
	93-NP	-237	22	9.000	1	7.970	0	59 551
	93-NP	-237	22	1.000	0	4.500	0	68 1362
	93-NP	-237	22	1.000	0	1.410	1	64 1090
	93-NP	-237	22	1.070	0	8.070	0	67 1500
	93-NP	-237	22	2.500	0	8.300	0	58 1234

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
93-NP-237	22		2.500+ 0	2.640+ 1	63 983	29	N,F
N 93-NP-237	22		3.500+ 0	4.900+ 0	73 3749	7	N,F
93-NP-237	22		9.500+ 0	2.170+ 1	60 740	17	N,F
93-NP-237	22		1.250+ 1	1.750+ 1	67 1507	11	N,F
N 93-NP-237	22		1.410+ 1	1.410+ 1	70 3867	1	N,F
93-NP-237	22		1.460+ 1	1.460+ 1	58 528	1	N,F
94-PU-238	22		2.380+ 8	4.200+ 4	66 1305	197	N,F
94-PU-238	22		2.530+ 8	2.530+ 8	58 1163	1	N,F
C 94-PU-238	22		2.092+ 6	2.992+ 4	66 1083	209	N,F
C 94-PU-238	22		1.721+ 5	2.966+ 0	59 2394	6215	N,F
C 94-PU-238	22		3.187+ 5	2.583+ 0	70 943	2366	N,F
C 94-PU-238	22		2.400+ 3	2.400+ 0	70 2522	31	N,F
94-PU-238	22		4.900+ 2	1.400+ 0	66 1059	28	N,F
94-PU-238	22		1.400+ 1	1.740+ 0	63 1081	75	N,F
94-PU-238	22		4.400+ 1	3.620+ 0	70 2911	14	N,F
94-PU-238	22		5.000+ 1	1.690+ 1	68 2353	20	N,F
94-PU-238	22		1.000+ 0	1.490+ 1	67 1363	4	N,F
94-PU-238	22		1.450+ 1	1.450+ 1	67 1518	1	N,F
94-PU-239	22		7.600+ 10	3.970+ 9	70 3279	38	N,F
94-PU-239	22		2.530+ 9	4.730+ 9	58 1196	10	N,F
94-PU-239	22		4.300+ 9	9.800+ 7	55 968	56	N,F
94-PU-239	22		5.000+ 0	2.500+ 6	58 967	143	N,F
94-PU-239	22		6.800+ 9	6.900+ 4	56 555	176	N,F
94-PU-239	22		1.060+ 8	5.400+ 7	51 991	78	N,F
94-PU-239	22		1.220+ 8	9.720+ 4	55 956	237	N,F
94-PU-239	22		1.919+ 8	1.995+ 6	70 2106	702	N,F
N 94-PU-239	22		1.981+ 8	2.015+ 5	70 3641	560	N,F
94-PU-239	22		2.120+ 8	9.800+ 7	53 1430	31	N,F
C 94-PU-239	22		2.400+ 8	3.460+ 2	59 936	632	N,F
N 94-PU-239	22		2.526+ 8	2.526+ 8	70 3291	1	N,F
94-PU-239	22		2.530+ 8	2.530+ 8	56 1199	1	N,F
94-PU-239	22		2.530+ 8	2.530+ 8	57 1391	1	N,F
94-PU-239	22		2.530+ 8	2.530+ 8	58 1164	1	N,F
94-PU-239	22		2.530+ 8	2.530+ 8	59 1176	1	N,F
94-PU-239	22		2.530+ 8	2.530+ 8	66 1311	1	N,F
94-PU-239	22		2.530+ 8	2.530+ 8	66 1356	3	N,F
94-PU-239	22		2.530+ 8	2.530+ 8	58 209	1	N,F
N 94-PU-239	22		2.530+ 8	2.530+ 3	68 3640	1	N,F
94-PU-239	22		2.530+ 8	1.000+ 7	57 1181	2	N,F
94-PU-239	22		2.530+ 8	2.750+ 7	65 1372	4	N,F
N 94-PU-239	22		7.022+ 7	1.941+ 3	75 3263	1948	N,F
94-PU-239	22		1.602+ 6	1.023+ 5	65 1011	337	N,F
C 94-PU-239	22		2.003+ 6	1.976+ 3	71 2106	2933	N,F
94-PU-239	22		3.100+ 6	9.860+ 5	64 966	647	N,F
94-PU-239	22		4.459+ 6	2.098+ 4	66 1349	2995	N,F
N 94-PU-239	22		5.550+ 6	2.159+ 2	66 1376	1395	N,F
C 94-PU-239	22		5.550+ 6	2.305+ 2	66 1294	1389	N,F
C 94-PU-239	22		1.191+ 5	6.52+ 3	35 604	4004	N,F
C 94-PU-239	22		2.003+ 5	2.977+ 2	66 1061	2804	N,F
N 94-PU-239	22		9.937+ 5	9.663+ 3	70 4055	96	N,F
C 94-PU-239	22		1.000+ 4	2.993+ 2	68 1080	5289	N,F
94-PU-239	22		1.006+ 4	2.664+ 2	69 2358	314	N,F

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	94-PU-239	22		2.000-	4	3.460- 2	70 3315	26 N.F
N	94-PU-239	22		1.005-	3	1.004+ 0	75 3905	294 N.F
	94-PU-239	22		1.014-	3	1.498- 2	64 992	99 N.F
	94-PU-239	22		1.630-	3	1.390+ 0	64 957	42 N.F
	94-PU-239	22		2.000-	3	2.000- 3	68 2095	1 N.F
	94-PU-239	22		2.000-	3	2.000- 3	2 69 2906	1 N.F
	94-PU-239	22		4.500-	3	1.800- 1	66 1337	77 N.F
	94-PU-239	22		1.110-	2	1.008+ 0	69 2599	46 N.F
	94-PU-239	22		2.400-	2	2.400- 2	65 1072	1 N.F
	94-PU-239	22		3.000-	2	3.000+ 0	57 218	22 N.F
	94-PU-239	22		4.000-	2	5.050- 1	65 1091	5 N.F
	94-PU-239	22		5.000-	2	1.380+ 0	57 18	13 N.F
	94-PU-239	22		1.170-	1	3.680- 1	2 68 2532	9 N.F
N	94-PU-239	22		1.400-	1	9.640- 1	75 3950	3 N.F
	94-PU-239	22		2.900-	1	2.530+ 0	62 993	44 N.F
	94-PU-239	22		3.400-	1	2.560+ 0	68 2195	47 N.F
	94-PU-239	22		6.800-	1	3.350+ 0	56 994	4 N.F
	94-PU-239	22		1.000+	0	1.410+ 1	64 1090	4 N.F
	94-PU-239	22		2.000+	0	2.110+ 1	68 352	26 N.F
	94-PU-239	22		3.000+	0	2.300+ 0	58 1234	13 N.F
	94-PU-239	22		1.310+	1	1.530+ 1	66 1439	5 N.F
	94-PU-239	22		1.340+	1	1.940+ 1	61 744	13 N.F
	94-PU-239	22		1.400+	1	1.400+ 1	50 1413	1 N.F
	94-PU-239	22		1.410+	1	1.410+ 1	56 771	1 N.F
N	94-PU-239	22		1.410+	1	1.410+ 1	70 3867	1 N.F
	94-PU-240	22		2.530-	8	2.530- 8	55 1199	1 N.F
	94-PU-240	22		2.530-	8	2.530- 8	58 1163	1 N.F
C	94-PU-240	22		3.150-	7	1.282- 6	56 1104	45 N.F
C	94-PU-240	22		2.004-	5	9.779- 1	66 1061	1388 N.F
	94-PU-240	22		2.000-	4	7.962- 3	68 1537	1799 N.F
	94-PU-240	22		1.350-	2	1.750- 1	66 1337	10 N.F
	94-PU-240	22		2.400-	2	2.400- 2	65 1072	1 N.F
	94-PU-240	22		3.000-	2	4.000- 1	65 1101	11 N.F
	94-PU-240	22		4.000-	2	3.900+ 0	60 632	75 N.F
	94-PU-240	22		6.100-	2	4.350- 1	63 1093	14 N.F
	94-PU-240	22		6.100-	2	4.850- 1	64 1102	13 N.F
	94-PU-240	22		1.400-	1	4.000+ 0	58 529	18 N.F
	94-PU-240	22		2.700-	1	8.120+ 0	57 517	21 N.F
	94-PU-240	22		1.000+	0	1.410+ 1	64 1090	4 N.F
	94-PU-240	22		2.500+	0	1.460+ 1	60 635	2 N.F
	94-PU-241	22		2.530-	8	4.730- 8	58 1196	13 N.F
C	94-PU-241	22		0.150-	9	7.510- 6	56 955	75 N.F
	94-PU-241	22		6.890-	9	9.670- 8	66 1492	161 N.F
C	94-PU-241	22		8.427-	9	2.462- 3	65 1107	1628 N.F
	94-PU-241	22		1.170-	8	7.430- 4	55 956	157 N.F
N	94-PU-241	22		1.954-	8	5.600- 7	75 3906	328 N.F
	94-PU-241	22		2.360-	8	1.968- 6	64 1109	448 N.F
	94-PU-241	22		2.530-	8	2.530- 8	55 1182	1 N.F
	94-PU-241	22		2.530-	8	2.530- 8	55 1205	1 N.F
	94-PU-241	22		2.530-	8	2.530- 8	57 1391	1 N.F
	94-PU-241	22		2.530-	8	2.530- 8	58 1164	1 N.F
	94-PU-241	22		2.530-	8	2.530- 8	59 1180	1 N.F

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ECSIL-760C REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-24	22		2.530-8	2.530-8	66 1756	3	N.F
94-PU-24	22		2.530-8	1.000-7	57 1181	2	N.F
94-PU-24	22		2.570-8	9.380-7	58 1108	62	N.F
94-PU-24	22		2.247-6	9.951-5	64 1110	1018	N.F
94-PU-24	22		3.722-6	4.043-3	73 3206	10422	N.F
94-PU-24	22		3.503-6	2.975-2	73 3126	7853	N.F
94-PU-24	22		2.004-5	9.780-1	66 1061	2554	N.F
94-PU-24	22		2.000-3	2.000-3	68 2095	1	N.F
94-PU-24	22		2.100-2	1.825-0	61 591	90	N.F
94-PU-24	22		2.400-2	2.400-2	55 1072	1	N.F
94-PU-24	22		4.000-2	5.050-1	65 1091	5	N.F
94-PU-24	22		1.200-1	2.100-1	62 589	33	N.F
94-PU-24	22		1.000-0	1.410-1	64 1090	4	N.F
94-PU-24	22		1.500-0	2.250-0	70 2273	4	N.F
94-PU-24	22		2.500-0	1.460-1	60 635	2	N.F
94-PU-24	22		5.715-5	2.983-0	70 943	1307	N.F
94-PU-24	22		2.001-4	9.573-0	72 3236	5497	N.F
94-PU-24	22		1.410-1	1.683-0	60 569	65	N.F
94-PU-24	22		1.020-0	8.300-0	70 2911	14	N.F
94-PU-24	22		1.450-1	1.450-1	67 1518	1	N.F
94-PU-24	22		1.500-0	2.000-0	70 2273	3	N.F
94-PU-24	22		2.056-5	9.653-0	72 3236	5806	N.F
94-PU-24	22		4.000-9	1.200-7	62 1477	15	N.F
94-PU-24	22		2.310-8	5.030-5	68 1305	539	N.F
94-PU-24	22		2.500-8	2.500-8	66 3740	1	N.F
94-PU-24	22		2.530-8	5.924-1	66 3740	108	N.F
94-PU-24	22		2.510-6	9.000-4	65 1084	467	N.F
94-PU-24	22		3.597-5	4.004-5	75 3806	1802	N.F
94-PU-24	22		6.024-3	7.773-1	66 1061	2240	N.F
94-PU-24	22		8.000-7	7.300-0	69 3369	43	N.F
94-PU-24	22		1.020-0	8.300-0	70 2911	14	N.F
94-PU-24	22		2.500-0	1.460-1	70 635	2	N.F
94-PU-24	22		1.410-1	1.450-1	67 1518	1	N.F
94-PU-24	22		1.450-1	1.450-1	67 1518	2	N.F
94-PU-24	22		1.950-8	5.691-0	69 611	119	N.F
94-PU-24	22		2.002-5	9.283-0	66 1061	1059	N.F
94-PU-24	22		4.896-5	2.973-0	70 2911	2162	N.F
94-PU-24	22		3.000-1	1.670-0	61 591	62	N.F
94-PU-24	22		1.450-1	1.450-1	67 1518	15	N.F
94-PU-24	22		9.968-2	2.910-0	70 943	134	N.F
94-PU-24	22		2.500-8	5.500-0	72 3232	1	N.F
94-PU-24	22		1.997-5	2.086-0	71 3063	4080	N.F
94-PU-24	22		2.300-5	1.409-3	68 2861	43	N.F
94-PU-24	22		1.000-0	3.000-0	69 2100	2	N.F
94-PU-24	22		1.450-1	1.450-1	67 1518	2	N.F
94-PU-24	22		1.490-1	1.490-1	68 2100	1	N.F
94-PU-24	22		2.500-8	2.500-8	72 3232	1	N.F
94-PU-24	22		2.500-8	2.500-8	1 70 3236	1	N.F

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-24	22		2.530-8	2.530-8	66 1756	3	N.F
94-PU-24	22		2.530-8	1.000-7	57 1181	2	N.F
94-PU-24	22		2.570-8	9.380-7	58 1108	62	N.F
94-PU-24	22		2.247-6	9.951-5	64 1110	1018	N.F
94-PU-24	22		3.722-6	4.043-3	73 3206	10422	N.F
94-PU-24	22		3.503-6	2.975-2	73 3126	7853	N.F
94-PU-24	22		2.004-5	9.780-1	66 1061	2554	N.F
94-PU-24	22		2.000-3	2.000-3	68 2095	1	N.F
94-PU-24	22		2.100-2	1.825-0	61 591	90	N.F
94-PU-24	22		2.400-2	2.400-2	55 1072	1	N.F
94-PU-24	22		4.000-2	5.050-1	65 1091	5	N.F
94-PU-24	22		1.200-1	2.100-1	62 589	33	N.F
94-PU-24	22		1.000-0	1.410-1	64 1090	4	N.F
94-PU-24	22		1.500-0	2.250-0	70 2273	4	N.F
94-PU-24	22		2.500-0	1.460-1	60 635	2	N.F
94-PU-24	22		5.715-5	2.983-0	70 943	1307	N.F
94-PU-24	22		2.001-4	9.573-0	72 3236	5497	N.F
94-PU-24	22		1.410-1	1.683-0	60 569	65	N.F
94-PU-24	22		1.020-0	8.300-0	70 2911	14	N.F
94-PU-24	22		1.450-1	1.450-1	67 1518	1	N.F
94-PU-24	22		1.500-0	2.000-0	70 2273	3	N.F
94-PU-24	22		2.056-5	9.653-0	72 3236	5806	N.F
94-PU-24	22		4.000-9	1.200-7	62 1477	15	N.F
94-PU-24	22		2.310-8	5.030-5	68 1305	539	N.F
94-PU-24	22		2.500-8	2.500-8	66 3740	1	N.F
94-PU-24	22		2.530-8	5.924-1	66 3740	108	N.F
94-PU-24	22		2.510-6	9.000-4	65 1084	467	N.F
94-PU-24	22		3.597-5	4.004-5	75 3806	1802	N.F
94-PU-24	22		6.024-3	7.773-1	66 1061	2240	N.F
94-PU-24	22		8.000-7	7.300-0	69 3369	43	N.F
94-PU-24	22		1.020-0	8.300-0	70 2911	14	N.F
94-PU-24	22		2.500-0	1.460-1	70 635	2	N.F
94-PU-24	22		1.410-1	1.450-1	67 1518	1	N.F
94-PU-24	22		1.450-1	1.450-1	67 1518	2	N.F
94-PU-24	22		1.950-8	5.691-0	69 611	119	N.F
94-PU-24	22		2.002-5	9.283-0	66 1061	1059	N.F
94-PU-24	22		4.896-5	2.973-0	70 2911	2162	N.F
94-PU-24	22		3.000-1	1.670-0	61 591	62	N.F
94-PU-24	22		1.450-1	1.450-1	67 1518	15	N.F
94-PU-24	22		9.968-2	2.910-0	70 943	134	N.F
94-PU-24	22		2.500-8	5.500-0	72 3232	1	N.F
94-PU-24	22		1.997-5	2.086-0	71 3063	4080	N.F
94-PU-24	22		2.300-5	1.409-3	68 2861	43	N.F
94-PU-24	22		1.000-0	3.000-0	69 2100	2	N.F
94-PU-24	22		1.450-1	1.450-1	67 1518	2	N.F
94-PU-24	22		1.490-1	1.490-1	68 2100	1	N.F
94-PU-24	22		2.500-8	2.500-8	72 3232	1	N.F
94-PU-24	22		2.500-8	2.500-8	1 70 3236	1	N.F

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EUSIL-500 REACTION INDEX (REACTION NO. ORDERED)

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TARGET CODE S E-MIN-REV E-MAX-REV REFERENCE POINTS REACTION DESCRIPTION

96-CH-245	22	1.999-5	2.831*	0	71	3052	4301	N.F
96-CH-246	22	2.550-8	2.500-8	72	3232			N.F
96-CH-246	22	2.550-8	2.830*	0	71	3062	1087	N.F
96-CH-247	22	2.500-8	2.500-8	72	3232			N.F
96-CH-247	22	2.500-8	2.500-8	70	3326			N.F
96-CH-247	22	1.998-5	1.908*	0	71	3062	4111	N.F
96-CH-248	22	2.500-8	2.500-8	72	3232			N.F
96-CH-248	22	1.998-5	2.830*	0	71	3062	1947	N.F
96-CH-248	22	2.500-8	2.500-8	72	3232			N.F
96-CH-248	22	2.500-8	2.500-8	69	2378			N.F
96-CH-249	22	2.500-8	2.500-8	70	3326			N.F
96-CH-249	22	1.301-5	2.897*	0	72	3274	5194	N.F
96-CH-249	22	5.000-1	5.000-1	69	2378			N.F
96-CH-249	22	5.000-1	5.020-0	72	4044			N.F
96-CH-249	22	5.000-1	5.000-0	74	4056			N.F
96-CH-249	22	5.000-1	2.500-8	71	3255			N.F
96-CH-249	22	2.407-5	2.500-8	71	3311			N.F
96-CH-249	22	4.008-8	2.006-2	68	3284			N.F
96-CH-249	22	7.100-1	1.200-0	69	2378			N.F
96-CH-249	22	5.100-0	1.520-0	69	2378			N.F
96-CH-249	22	7.540-1	2.010-1	72	3531			N.F
96-CH-249	22	1.700-0	4.580-0	65	188			N.F
96-CH-249	22	2.530-8	2.530-8	61	3275			N.GAMMA
96-CH-249	22	2.530-8	2.530-8	62	3275			N.GAMMA
96-CH-249	22	2.530-8	2.530-8	65	3273			N.GAMMA
96-CH-249	22	2.530-8	2.530-8	69	3277			N.GAMMA
96-CH-249	22	1.440-1	1.440-1	61	687			N.GAMMA
96-CH-249	22	1.440-1	1.440-1	64	3286			N.GAMMA
96-CH-249	22	1.440-1	1.440-1	67	1574			N.GAMMA
96-CH-249	22	5.000-1	5.000-1	61	853			N.GAMMA
96-CH-249	22	2.530-8	2.530-8	52	1824			N.GAMMA
96-CH-249	22	2.530-8	2.530-8	68	1604			N.GAMMA
96-CH-249	22	1.440-1	1.440-1	61	687			N.GAMMA
96-CH-249	22	4.000-0	4.000-0	63	839			N.GAMMA
96-CH-249	22	2.530-8	2.530-8	47	2803			N.GAMMA
96-CH-249	22	3.700-2	9.950-1	58	354			N.GAMMA
96-CH-249	22	1.380-2	2.325-0	62	690			N.GAMMA
96-CH-249	22	3.000-2	1.670-1	61	677			N.GAMMA
96-CH-249	22	5.000-1	5.000-1	54	2815			N.GAMMA
96-CH-249	22	5.000-1	5.000-1	57	2014			N.GAMMA
96-CH-249	22	5.000-1	5.000-1	61	2813			N.GAMMA
96-CH-249	22	5.000-1	5.000-1	63	2812			N.GAMMA
96-CH-249	22	5.000-1	5.000-1	67	688			N.GAMMA
96-CH-249	22	9.500-2	9.500-2	47	688			N.GAMMA
96-CH-249	22	2.530-8	2.530-8	71	3913			N.GAMMA
96-CH-249	22	2.058-1	9.796-1	68	2373			N.GAMMA
96-CH-249	22	2.530-8	2.530-8	47	688			N.GAMMA
96-CH-249	22	2.530-8	2.530-8	63	2823			N.GAMMA
96-CH-249	22	1.170-2	3.900-2	63	799			N.GAMMA
96-CH-249	22	1.800-2	1.870-0	58	2			N.GAMMA
96-CH-249	22	3.000-2	3.000-2	61	677			N.GAMMA

TARGET CODE S E-MIN-REV E-MAX-REV REFERENCE POINTS REACTION DESCRIPTION

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C * 23

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
	9-F	-19	23	3.000-	2	3.000-	2	63 1	1 N, GAMMA
	11-NA	-23	23	2.000-	2	9.900-	1	59 524	19 N, GAMMA
	11-NA	-23	23	2.100-	2	2.100-	2	58 43	1 N, GAMMA
	11-NA	-23	23	3.000-	2	500-	2	63 1	2 N, GAMMA
	11-NA	-23	23	1.950-	1	1.950-	1	59 526	1 N, GAMMA
	11-NA	-23	23	2.000-	1	2.000-	1	58 363	1 N, GAMMA
	11-NA	-23	23	9.700-	1	1.939+	1	67 1698	7 N, GAMMA
	11-NA	-23	23	1.340+	1	1.500+	1	67 1695	8 N, GAMMA
N	11-NA	-23	23	1.440+	1	1.440+	1	72 3963	1 N, GAMMA
	11-NA	-23	23	1.450+	1	1.450+	1	57 521	1 N, GAMMA
	12-MG-NAT	23	3.000-	2	6.500-	2	61 677	2 N, GAMMA	
	12-MG-NAT	23	3.000-	2	6.500-	2	63 1	2 N, GAMMA	
N	12-MG-NAT	23	1.410+	1	1.410+	1	70 2232	1 N, GAMMA	
	12-MG-26	23	2.530-	8	2.530-	8	47 888	1 N, GAMMA	
	12-MG-26	23	2.000-	1	4.000+	0	58 363	3 N, GAMMA	
	12-MG-26	23	2.900+	0	2.900+	0	68 3375	1 N, GAMMA	
	12-MG-26	23	1.450+	1	1.450+	1	57 521	1 N, GAMMA	
	13-AL-27	23	2.530-	8	2.530-	8	47 888	1 N, GAMMA	
	13-AL-27	23	2.530-	8	2.530-	8	62 2573	1 N, GAMMA	
	13-AL-27	23	2.530-	8	8.350-	7	70 1627	5 N, GAMMA	
N	13-AL-27	23	3.981-	3	1.426-	1	69 2552	601 N, GAMMA	
	13-AL-27	23	1.200-	2	5.150-	1	50 61	100 N, GAMMA	
	13-AL-27	23	2.100-	2	2.100-	2	58 43	1 N, GAMMA	
	13-AL-27	23	2.100-	2	2.100-	2	58 357	1 N, GAMMA	
	13-AL-27	23	2.400-	2	2.400-	2	57 305	1 N, GAMMA	
	13-AL-27	23	3.000-	2	3.000-	2	61 677	1 N, GAMMA	
	13-AL-27	23	3.000-	2	3.000-	2	63 1	1 N, GAMMA	
	13-AL-27	23	2.000-	1	2.000-	1	58 363	1 N, GAMMA	
	13-AL-27	23	4.000-	1	3.760+	0	53 429	65 N, GAMMA	
	13-AL-27	23	2.900+	0	2.900+	0	68 3375	1 N, GAMMA	
	13-AL-27	23	3.000+	0	3.000+	0	67 1591	1 N, GAMMA	
	13-AL-27	23	3.440+	0	5.000+	0	62 478	30 N, GAMMA	
	13-AL-27	23	1.410+	1	1.410+	1	69 3017	1 N, GAMMA	
	13-AL-27	23	1.410+	1	1.410+	1	70 3810	1 N, GAMMA	
	13-AL-27	23	1.440+	1	1.440+	1	72 3963	1 N, GAMMA	
	13-AL-27	23	1.450+	1	1.450+	1	57 521	1 N, GAMMA	
	13-AL-27	23	1.460+	1	1.460+	1	63 372	1 N, GAMMA	
	13-AL-27	23	1.470+	1	1.470+	1	67 1695	1 N, GAMMA	
	14-SI-NAT	23	2.500-	2	8.300-	1	60 633	3 N, GAMMA	
	14-SI-NAT	23	3.000-	2	3.000-	2	61 677	1 N, GAMMA	
	14-SI-NAT	23	3.000-	2	6.500-	2	63 1	2 N, GAMMA	
C	14-SI-NAT	23	1.410+	1	1.410+	1	70 2232	1 N, GAMMA	
	14-SI-30	23	2.530-	8	2.530-	8	47 888	1 N, GAMMA	
	14-SI-30	23	2.100-	2	2.100-	2	57 23	1 N, GAMMA	
	14-SI-30	23	2.100-	2	2.100-	2	58 43	1 N, GAMMA	
	14-SI-30	23	2.000-	1	4.000+	0	58 363	3 N, GAMMA	
	14-SI-30	23	1.450+	1	1.450+	1	57 521	1 N, GAMMA	
	14-SI-30	23	1.470+	1	1.470+	1	67 1695	1 N, GAMMA	
	15-P-31	23	2.530-	8	2.530-	8	47 888	1 N, GAMMA	
	15-P-31	23	3.000-	2	6.500-	2	63 1	2 N, GAMMA	
	15-P-31	23	1.410+	1	1.410+	1	70 2232	1 N, GAMMA	
	15-P-31	23	1.470+	1	1.470+	1	67 1695	1 N, GAMMA	

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECS117600 REACTION INDEX (REACTION NO. ORDERED)

C = 23

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
N	16-S	-NAT	23	3.000	-2	3.000	-2	61 677	1 N,GAMMA
	16-S	-NAT	23	3.000	-2	6.500	-2	63 1	2 N,GAMMA
	16-S	-NAT	23	1.410	1	1.410	1	09 3017	1 N,GAMMA
	16-S	-NAT	23	1.410	1	1.410	1	70 3810	1 N,GAMMA
	16-S	-32	23	1.310	-2	5.930	-2	64 426	28 N,GAMMA
	16-S	-32	23	1.650	-2	4.590	-2	63 799	9 N,GAMMA
N	16-S	-34	23	2.530	-8	2.530	-8	47 888	1 N,GAMMA
	17-CL-NAT	23	2.200	-5	1.750	-2	61 725	69 N,GAMMA	
	17-CL-NAT	23	3.000	-2	6.500	-2	63 1	2 N,GAMMA	
	17-CL-35	23	2.530	-8	2.530	-8	69 3216	1 N,GAMMA	
	17-CL-37	23	2.100	-2	2.100	-2	58 43	1 N,GAMMA	
	17-CL-37	23	1.500	-1	2.100	0	67 3388	15 N,GAMMA	
N	17-CL-37	23	2.000	-1	4.000	0	58 363	3 N,GAMMA	
	17-CL-37	23	2.900	0	2.900	0	68 3375	1 N,GAMMA	
	17-CL-37	23	1.440	1	1.440	1	72 3953	1 N,GAMMA	
	18-AR-NAT	23	2.530	-8	2.530	-8	69 2998	1 N,GAMMA	
	18-AR-40	23	1.460	-1	1.000	0	59 579	5 N,GAMMA	
	19-K	-NAT	23	3.000	-2	6.500	-2	63 1	2 N,GAMMA
N	19-K	-41	23	2.530	-8	2.530	-8	47 888	1 N,GAMMA
	19-K	-41	23	2.100	-2	2.100	-2	57 23	1 N,GAMMA
	19-K	-41	23	2.400	-2	2.400	-2	64 1788	1 N,GAMMA
	19-K	-41	23	1.620	-1	2.455	0	67 2694	19 N,GAMMA
	19-K	-41	23	1.440	1	1.440	1	72 3953	1 N,GAMMA
	19-K	-41	23	1.450	1	1.450	1	57 521	1 N,GAMMA
N	20-CA-NAT	23	3.000	-2	6.500	-2	63 1	2 N,GAMMA	
	20-CA-NAT	23	4.000	-1	4.000	-1	60 674	1 N,GAMMA	
	20-CA-40	23	1.410	1	1.410	1	70 2232	1 N,GAMMA	
	20-CA-44	23	2.530	-8	2.530	-8	47 888	1 N,GAMMA	
	20-CA-48	23	1.470	1	1.470	1	67 1695	1 N,GAMMA	
	21-SC-45	23	2.530	-8	2.530	-8	66 3845	1 N,GAMMA	
N	21-SC-45	23	1.100	-6	4.150	-2	65 1795	57 N,GAMMA	
	21-SC-45	23	1.500	-1	1.465	1	63 758	7 N,GAMMA	
	21-SC-45	23	1.470	1	1.470	1	67 1695	1 N,GAMMA	
	22-Tl-NAT	23	2.530	-8	2.530	-8	61 887	1 N,GAMMA	
	22-Tl-NAT	23	2.500	-2	8.300	-1	60 633	3 N,GAMMA	
	22-Tl-NAT	23	3.000	-2	6.500	-2	63 1	2 N,GAMMA	
N	22-Tl-NAT	23	1.750	-1	1.000	0	60 674	7 N,GAMMA	
	22-Tl-50	23	2.100	-2	2.100	-2	58 357	1 N,GAMMA	
	22-Tl-50	23	2.400	-2	2.400	-2	57 305	1 N,GAMMA	
	22-Tl-50	23	1.400	-1	1.645	0	69 2076	27 N,GAMMA	
	22-Tl-50	23	1.600	-1	2.030	0	67 3701	9 N,GAMMA	
	22-Tl-50	23	2.500	0	4.000	0	58 1044	3 N,GAMMA	
N	22-Tl-50	23	1.440	1	1.440	1	72 3953	1 N,GAMMA	
	22-Tl-50	23	1.450	1	1.450	1	57 521	1 N,GAMMA	
	22-Tl-50	23	1.470	1	1.470	1	67 1695	1 N,GAMMA	
	23-V	-NAT	23	1.175	-8	1.098	-4	72 31 7	290 N,GAMMA
	23-V	-NAT	23	2.500	-5	5.500	-2	65 1842	58 N,GAMMA
	23-V	-NAT	23	3.000	-2	3.000	-2	61 677	1 N,GAMMA
N	23-V	-NAT	23	3.000	-2	6.500	-2	63 1	2 N,GAMMA
	23-V	-NAT	23	1.040	-1	1.820	-1	67 1807	4 N,GAMMA
	23-V	-NAT	23	1.410	1	1.410	1	69 3017	1 N,GAMMA
	23-V	-NAT	23	1.410	1	1.410	1	70 3810	1 N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 23

TARGET	CODE	S	E	MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
23-V-50	23	2	530-	0	2	530-	0	53 2572
23-V-51	23	2	530-	0	2	530-	0	63 2371
23-V-51	23	2	530-	0	2	530-	0	47 889
23-V-51	23	2	530-	0	2	530-	0	62 2573
23-V-51	23	2	530-	0	2	530-	0	63 2571
23-V-51	23	9	250-	3	1	500-	1	61 1810
23-V-51	23	2	100-	2	2	100-	2	58 43
23-V-51	23	2	400-	2	2	400-	2	57 305
23-V-51	23	2	400-	2	2	400-	2	66 1788
23-V-51	23	3	100-	2	1	100-	0	50 738
23-V-51	23	1	350-	1	1	659-	0	69 2076
23-V-51	23	1	870-	1	2	610-	0	67 7071
23-V-51	23	1	950-	1	1	950-	1	59 526
23-V-51	23	2	900-	1	4	000-	0	58 363
23-V-51	23	1	440-	1	1	440-	1	72 3963
23-V-51	23	1	470-	1	1	470-	1	67 1695
23-V-51	23	2	530-	0	2	530-	0	75 4015
23-V-51	23	8	120-	3	9	400-	2	68 3301
23-V-51	23	3	000-	2	6	500-	2	60 633
23-V-51	23	3	000-	2	6	500-	2	61 677
23-V-51	23	3	500-	2	9	000-	1	62 1811
23-V-51	23	1	750-	1	1	000-	0	60 674
23-V-51	23	1	410-	1	1	410-	1	69 3017
23-V-51	23	2	530-	0	2	530-	0	47 889
23-V-51	23	2	900-	0	5	700-	2	64 1812
23-V-51	23	2	900-	0	5	700-	2	64 1812
23-V-51	23	9	335-	3	2	843-	4	72 3147
23-V-51	23	2	530-	0	2	530-	0	47 889
23-V-51	23	8	120-	3	9	400-	2	68 3301
23-V-51	23	3	000-	2	6	500-	2	61 677
23-V-51	23	3	500-	2	9	000-	1	62 1811
23-V-51	23	2	400-	2	2	400-	2	55 861
23-V-51	23	3	000-	2	6	500-	2	63 1
23-V-51	23	4	000-	2	1	700-	0	61 715
23-V-51	23	1	500-	1	5	800-	0	59 526
23-V-51	23	2	000-	1	4	000-	0	68 3002
23-V-51	23	9	180-	1	3	430-	0	67 1698
23-V-51	23	2	900-	1	2	900-	0	68 3375
23-V-51	23	3	000-	0	3	000-	0	67 1991
23-V-51	23	1	340-	1	1	500-	1	67 1695
23-V-51	23	1	410-	1	1	410-	1	69 3017

TARGET	CODE	S	E	MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
23-V-50	23	2	530-	0	2	530-	0	53 2572
23-V-51	23	2	530-	0	2	530-	0	63 2371
23-V-51	23	2	530-	0	2	530-	0	47 889
23-V-51	23	2	530-	0	2	530-	0	62 2573
23-V-51	23	2	530-	0	2	530-	0	63 2571
23-V-51	23	9	250-	3	1	500-	1	61 1810
23-V-51	23	2	100-	2	2	100-	2	58 43
23-V-51	23	2	400-	2	2	400-	2	57 305
23-V-51	23	2	400-	2	2	400-	2	66 1788
23-V-51	23	3	100-	2	1	100-	0	50 738
23-V-51	23	1	350-	1	1	659-	0	69 2076
23-V-51	23	1	870-	1	2	610-	0	67 7071
23-V-51	23	1	950-	1	1	950-	1	59 526
23-V-51	23	2	900-	1	4	000-	0	58 363
23-V-51	23	1	440-	1	1	440-	1	72 3963
23-V-51	23	1	470-	1	1	470-	1	67 1695
23-V-51	23	2	530-	0	2	530-	0	75 4015
23-V-51	23	8	120-	3	9	400-	2	68 3301
23-V-51	23	3	000-	2	6	500-	2	60 633
23-V-51	23	3	000-	2	6	500-	2	61 677
23-V-51	23	3	500-	2	9	000-	1	62 1811
23-V-51	23	1	750-	1	1	000-	0	60 674
23-V-51	23	1	410-	1	1	410-	1	69 3017
23-V-51	23	2	530-	0	2	530-	0	47 889
23-V-51	23	2	900-	0	5	700-	2	64 1812
23-V-51	23	2	900-	0	5	700-	2	64 1812
23-V-51	23	9	335-	3	2	843-	4	72 3147
23-V-51	23	2	530-	0	2	530-	0	47 889
23-V-51	23	8	120-	3	9	400-	2	68 3301
23-V-51	23	3	000-	2	6	500-	2	61 677
23-V-51	23	3	500-	2	9	000-	1	62 1811
23-V-51	23	2	400-	2	2	400-	2	55 861
23-V-51	23	3	000-	2	6	500-	2	63 1
23-V-51	23	4	000-	2	1	700-	0	61 715
23-V-51	23	1	500-	1	5	800-	0	59 526
23-V-51	23	2	000-	1	4	000-	0	68 3002
23-V-51	23	9	180-	1	3	430-	0	67 1698
23-V-51	23	2	900-	1	2	900-	0	68 3375
23-V-51	23	3	000-	0	3	000-	0	67 1991
23-V-51	23	1	340-	1	1	500-	1	67 1695
23-V-51	23	1	410-	1	1	410-	1	69 3017

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07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

C = 23

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	25-MN-55	23	1.410+ 1	1.410+ 1	70 3810	1	N, GAMMA
N	25-MN-55	23	1.440+ 1	1.440+ 1	72 3963	1	N, GAMMA
	25-MN-55	23	1.450+ 1	1.450+ 1	57 521	1	N, GAMMA
	26-FE-NAT	23	8.000- 5	2.000- 2	64 1829	34	N, GAMMA
	26-FE-NAT	23	1.100- 3	7.000- 2	60 516	25	N, GAMMA
	26-FE-NAT	23	1.103- 3	9.650- 2	64 1858	37	N, GAMMA
	26-FE-NAT	23	3.000- 2	6.500- 2	61 677	2	N, GAMMA
	26-FE-NAT	23	3.000- 2	6.500- 2	63 1	2	N, GAMMA
	26-FE-NAT	23	3.700- 2	9.200- 1	61 716	12	N, GAMMA
	26-FE-NAT	23	3.750- 2	1.500+ 0	64 1825	14	N, GAMMA
	26-FE-NAT	23	1.250- 1	1.820- 1	67 1807	3	N, GAMMA
	26-FE-NAT	23	1.750- 1	1.000+ 0	60 674	7	N, GAMMA
	26-FE-NAT	23	1.410+ 1	1.410+ 1	69 3017	1	N, GAMMA
N	26-FE-NAT	23	1.410+ 1	1.410+ 1	70 3810	1	N, GAMMA
	26-FE-56	23	4.000- 1	4.000- 1	56 9	1	N, GAMMA
	26-FE-57	23	1.120- 2	5.950- 2	64 998	47	N, GAMMA
	26-FE-58	23	2.530- 8	2.530- 8	47 888	1	N, GAMMA
N	26-FE-58	23	2.530- 8	2.530- 8	65 3675	1	N, GAMMA
	27-CO-59	23	2.530- 8	2.530- 8	47 888	1	N, GAMMA
	27-CO-59	23	2.530- 8	2.530- 8	60 2565	1	N, GAMMA
N	27-CO-59	23	2.530- 8	2.530- 8	67 3674	1	N, GAMMA
	27-CO-59	23	2.530- 8	2.530- 8	1 65 2575	1	N, GAMMA
	27-CO-59	23	2.500- 2	2.500- 2	53 222	1	N, GAMMA
	27-CO-59	23	3.000- 2	3.000- 2	61 677	1	N, GAMMA
	27-CO-59	23	3.000- 2	6.500- 2	63 1	2	N, GAMMA
N	27-CO-59	23	1.780+ 0	1.400+ 1	67 3786	4	N, GAMMA
N	28-NI-NAT	23	2.530- 8	2.700- 7	70 3627	5	N, GAMMA
	28-NI-NAT	23	3.000- 5	3.200- 2	63 896	69	N, GAMMA
C	28-NI-NAT	23	2.475- 3	1.932- 1	68 2552	3151	N, GAMMA
	28-NI-NAT	23	8.120- 3	1.125- 1	68 3301	37	N, GAMMA
	28-NI-NAT	23	3.000- 2	6.500- 2	61 677	2	N, GAMMA
	28-NI-NAT	23	3.000- 2	6.500- 2	63 1	2	N, GAMMA
	28-NI-NAT	23	3.700- 2	9.000- 1	61 716	13	N, GAMMA
	28-NI-NAT	23	1.250- 1	1.820- 1	67 1807	3	N, GAMMA
	28-NI-NAT	23	1.750- 1	1.000+ 0	60 674	7	N, GAMMA
	28-NI-64	23	2.530- 8	2.530- 8	47 888	1	N, GAMMA
	28-NI-64	23	2.100- 2	2.100- 2	57 23	1	N, GAMMA
	28-NI-64	23	1.760- 1	1.954+ 0	65 973	18	N, GAMMA
	28-NI-64	23	2.000- 1	4.000+ 0	58 363	2	N, GAMMA
	28-NI-65	23	2.530- 8	2.530- 8	58 977	1	N, GAMMA
N	29-CU-NAT	23	2.530- 8	2.700- 7	70 3627	5	N, GAMMA
	29-CU-NAT	23	1.900- 5	4.800- 2	63 896	66	N, GAMMA
	29-CU-NAT	23	1.900- 2	1.000+ 0	63 890	16	N, GAMMA
	29-CU-NAT	23	2.400- 2	2.400- 2	60 639	1	N, GAMMA
	29-CU-NAT	23	3.000- 2	6.500- 2	61 677	2	N, GAMMA
	29-CU-NAT	23	3.000- 2	6.500- 2	63 1	2	N, GAMMA
	29-CU-NAT	23	1.750- 1	1.000+ 0	60 674	7	N, GAMMA
	29-CU-NAT	23	2.000- 1	2.000- 1	58 363	1	N, GAMMA
N	29-CU-NAT	23	1.410+ 1	1.410+ 1	70 2232	1	N, GAMMA
	29-CU-63	23	2.530- 8	2.530- 8	47 888	1	N, GAMMA
N	29-CU-63	23	2.530- 8	2.530- 8	67 3677	1	N, GAMMA
N	29-CU-63	23	9.000- 3	3.628+ 0	66 3307	27	N, GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 23

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
29-CU-63	23	2.100-2	2.100-2	57	23	1	N. GAMMA
29-CU-63	23	2.100-2	2.100-2	58	357	1	N. GAMMA
29-CU-63	23	2.400-2	2.400-2	57	305	1	N. GAMMA
29-CU-63	23	1.950-1	1.950-1	59	526	1	N. GAMMA
29-CU-63	23	2.300-1	3.110+0	68	2992	18	N. GAMMA
29-CU-63	23	3.000+0	3.000+0	68	2345	1	N. GAMMA
29-CU-63	23	1.450+1	1.450+1	57	521	1	N. GAMMA
29-CU-65	23	2.530-8	2.530-8	47	888	1	N. GAMMA
29-CU-65	23	3.300-7	2.100-1	64	2054	29	N. GAMMA
29-CU-65	23	2.100-2	2.100-2	57	23	1	N. GAMMA
29-CU-65	23	2.100-2	2.100-2	58	43	1	N. GAMMA
29-CU-65	23	2.100-2	2.100-2	58	357	1	N. GAMMA
29-CU-65	23	2.140-2	2.140-2	58	825	1	N. GAMMA
N 29-CU-35	23	2.400-2	2.400-2	57	305	1	N. GAMMA
29-CU-65	23	2.400-2	2.400-2	66	1788	1	N. GAMMA
29-CU-65	23	2.500-2	2.000+0	61	715	27	N. GAMMA
29-CU-65	23	1.700-1	6.100+0	59	663	24	N. GAMMA
29-CU-65	23	1.950-1	1.950-1	59	526	1	N. GAMMA
29-CU-65	23	2.000-1	4.000+0	58	363	3	N. GAMMA
29-CU-65	23	2.300-1	3.110+0	68	2992	21	N. GAMMA
29-CU-65	23	2.500+0	4.000+0	58	1044	3	N. GAMMA
29-CU-65	23	2.900+0	2.900+0	68	3375	1	N. GAMMA
29-CU-65	23	3.000+0	3.000+0	67	1991	1	N. GAMMA
29-CU-65	23	1.450+1	1.450+1	57	521	1	N. GAMMA
30-ZN-NAT	23	2.400-2	2.400-2	60	639	1	N. GAMMA
30-ZN-NAT	23	3.000-2	6.500-2	61	677	2	N. GAMMA
30-ZN-NAT	23	3.000-2	6.500-2	63	1	2	N. GAMMA
30-ZN-NAT	23	1.750-1	1.000+0	60	674	7	N. GAMMA
30-ZN-NAT	23	2.000-1	2.000-1	58	363	1	N. GAMMA
30-ZN-64	23	2.530-8	2.530-8	47	888	1	N. GAMMA
30-ZN-68	23	2.530-8	2.530-8	47	888	1	N. GAMMA
30-ZN-68	23	2.100-2	2.100-2	58	43	1	N. GAMMA
30-ZN-68	23	2.000-1	2.000-1	58	363	1	N. GAMMA
31-GA-NAT	23	4.000-9	9.007-2	64	1244	108	N. GAMMA
31-GA-NAT	23	1.100-2	3.380-1	69	2994	7	N. GAMMA
31-GA-NAT	23	3.000-2	6.500-2	63	1	2	N. GAMMA
31-GA-69	23	2.530-8	2.530-8	47	888	1	N. GAMMA
N 31-GA-69	23	1.100-2	3.150+0	68	3002	28	N. GAMMA
31-GA-69	23	2.100-2	2.100-2	58	43	1	N. GAMMA
31-GA-69	23	2.400-2	2.400-2	66	1788	1	N. GAMMA
31-GA-69	23	2.400-1	2.000+0	59	636	15	N. GAMMA
31-GA-69	23	2.500+0	4.000+0	58	1044	3	N. GAMMA
31-GA-69	23	3.000+0	3.000+0	67	1991	1	N. GAMMA
N 31-GA-71	23	1.100-2	2.210+0	68	3002	27	N. GAMMA
31-GA-71	23	2.400-2	2.400-2	57	305	1	N. GAMMA
31-GA-71	23	2.500-2	1.950-1	59	526	2	N. GAMMA
31-GA-71	23	1.700-1	2.400+0	59	663	14	N. GAMMA
31-GA-71	23	3.800-1	1.680+0	59	636	7	N. GAMMA
31-GA-71	23	3.000+0	3.000+0	67	1991	1	N. GAMMA
31-GA-71	23	1.450+1	1.450+1	57	521	1	N. GAMMA
32-GC-NAT	23	3.000-2	6.500-2	63	1	2	N. GAMMA
32-GC-NAT	23	6.500-2	6.500-2	61	677	1	N. GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	32-GE-74	23	2.500-	2	2.500-	2	70 3969	2 N,GAMMA
	32-GE-74	23	1.950-	1	1.950-	1	59 526	1 N,GAMMA
	32-GE-74	23	2.000-	1	3.128+	0	67 2993	23 N,GAMMA
	32-GE-74	23	3.000+	0	3.000+	0	67 1931	1 N,GAMMA
	33-AS-75	23	2.530-	8	2.530-	8	47 888	1 N,GAMMA
	33-AS-75	23	3.000-	3	4.000-	1	60 726	16 N,GAMMA
	33-AS-75	23	2.400-	2	2.400-	2	57 305	1 N,GAMMA
	33-AS-75	23	3.000-	2	6.500-	2	63 1	2 N,GAMMA
	33-AS-75	23	1.600-	1	5.800+	0	59 663	18 N,GAMMA
	33-AS-75	23	1.950-	1	1.950-	1	59 526	1 N,GAMMA
	33-AS-75	23	2.900+	0	2.900+	0	68 3375	1 N,GAMMA
	33-AS-75	23	3.000+	0	3.000+	0	67 1991	1 N,GAMMA
	33-AS-75	23	3.000+	0	3.000+	0	68 2345	1 N,GAMMA
	33-AS-75	23	1.440+	1	1.440+	1	72 3963	1 N,GAMMA
N	34-SE-NAT	23	3.000-	2	6.500-	2	63 1	2 N,GAMMA
	34-SE-NAT	23	2.000-	1	2.000-	1	58 363	1 N,GAMMA
N	34-SE-NAT	23	1.410+	1	1.410+	1	70 2232	1 N,GAMMA
	34-SE-74	23	2.530-	8	2.530-	8	47 888	1 N,GAMMA
N	34-SE-74	23	2.500-	2	2.500-	2	70 3971	1 N,GAMMA
	34-SE-80	23	1.100-	2	3.380-	1	69 2994	6 N,GAMMA
	34-SE-80	23	2.000-	1	3.128+	0	68 3014	17 N,GAMMA
	34-SE-82	23	1.450+	1	1.450+	1	57 521	1 N,GAMMA
	35-BR-NAT	23	1.200-	5	4.400-	2	62 2067	87 N,GAMMA
	35-BR-NAT	23	3.000-	2	6.500-	2	61 677	2 N,GAMMA
	35-BR-NAT	23	3.000-	2	6.500-	2	63 1	2 N,GAMMA
	35-BR-NAT	23	2.000-	1	2.000-	1	58 363	1 N,GAMMA
N	35-BR-NAT	23	1.410+	1	1.410+	1	70 2232	1 N,GAMMA
	35-BR-73	23	2.530-	8	2.530-	8	47 888	1 N,GAMMA
	35-BR-79	23	2.100-	2	2.100-	2	58 43	1 N,GAMMA
	35-BR-79	23	2.000-	1	4.000+	0	58 363	3 N,GAMMA
	35-BR-81	23	2.400-	2	2.530-	8	47 888	1 N,GAMMA
	35-BR-81	23	2.400-	2	2.400-	2	57 305	1 N,GAMMA
	35-BR-81	23	1.650-	1	1.500+	0	64 2069	17 N,GAMMA
	35-BR-81	23	1.800-	1	2.500+	0	59 663	3 N,GAMMA
	35-BR-81	23	1.950-	1	1.950-	1	59 526	1 N,GAMMA
	35-BR-81	23	1.450+	1	1.450+	1	57 521	1 N,GAMMA
	36-KR-NAT	23	2.530-	8	2.530-	8	69 2998	1 N,GAMMA
	36-KR-NAT	23	3.000-	2	6.500-	2	63 1	2 N,GAMMA
	36-KR-86	23	1.000+	0	1.000+	0	49 165	1 N,GAMMA
	37-RB-NAT	23	1.260-	4	4.200-	2	62 2067	53 N,GAMMA
C	37-RB-NAT	23	3.000-	2	6.500-	2	63 1	4 N,GAMMA
	37-RB-NAT	23	4.000-	2	4.000-	2	60 674	1 N,GAMMA
	37-RB-85	23	1.580-	4	1.750-	2	62 2067	39 N,GAMMA
N	37-RB-85	23	2.500-	2	2.500-	2	70 3969	2 N,GAMMA
	37-RB-85	23	1.400-	1	2.600+	0	68 2694	13 N,GAMMA
	37-RB-87	23	2.530-	8	2.530-	8	47 888	1 N,GAMMA
N	37-RB-87	23	1.100-	2	2.646+	0	67 3388	19 N,GAMMA
	37-RB-87	23	2.100-	2	2.100-	2	58 43	1 N,GAMMA
	37-RB-87	23	2.400-	2	2.400-	2	57 305	1 N,GAMMA
	37-RB-87	23	1.560-	1	1.560+	0	69 2533	23 N,GAMMA
	37-RB-87	23	1.000+	0	1.000+	0	49 165	1 N,GAMMA
	37-RB-87	23	2.500+	0	4.000+	0	58 1044	3 N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	38-SR-NAT	23		2.500-2	8.300-1	60 533	3	N, GAMMA
	38-SR-NAT	21		3.000-2	6.500-2	61 577	2	N, GAMMA
	38-SR-NAT	23		3.000-2	6.500-2	63 1	2	N, GAMMA
N	38-SR-NAT	23		1.410+1	1.410+1	69 2220	1	N, GAMMA
N	38-SR-84	23		2.500-2	5.500-2	70 3971	1	N, GAMMA
	38-SR-86	23		2.530-8	2.530-8	64 2632	1	N, GAMMA
	38-SR-86	23		3.000-2	1.250-1	67 1807	3	N, GAMMA
	38-SR-97	23		3.000-2	1.250-1	67 1807	3	N, GAMMA
	38-SR-98	23		2.530-8	2.530-8	47 6888	1	N, GAMMA
	38-SR-98	23		1.000+0	1.000+0	49 165	1	N, GAMMA
	39-Y-89	23		2.530-8	2.530-8	65 2118	1	N, GAMMA
N	39-Y-89	23		7.000-5	4.800-2	66 3401	41	N, GAMMA
	39-Y-89	23		1.100-2	6.500-2	63 799	16	N, GAMMA
	39-Y-89	23		1.460-2	2.450+0	67 2694	22	N, GAMMA
	39-Y-86	23		3.000-2	6.500-2	61 677	2	N, GAMMA
	39-Y-89	23		3.000-2	6.500-2	63 1	2	N, GAMMA
	39-Y-89	23		7.000-2	2.200-1	67 1807	7	N, GAMMA
	39-Y-69	23		1.280-1	6.800-1	59 579	6	N, GAMMA
	39-Y-89	23		1.430-1	1.223+0	67 2117	12	N, GAMMA
C	39-Y-89	23		1.660-1	3.620+0	66 2000	21	N, GAMMA
	39-Y-89	23		4.000-1	4.000-1	60 674	1	N, GAMMA
	39-Y-89	23		1.000+0	1.000+0	49 165	1	N, GAMMA
	39-Y-89	23		3.000+0	3.000+0	67 1991	1	N, GAMMA
	39-Y-89	23		1.450+1	1.450+1	57 521	1	N, GAMMA
	39-Y-89	23		1.470+1	1.470+1	67 1695	1	N, GAMMA
	40-ZR-NAT	23		2.530-8	2.530-8	68 2855	1	N, GAMMA
N	40-ZR-NAT	23		2.530-8	2.700-7	70 3627	5	N, GAMMA
	40-ZR-NAT	23		1.300-4	3.500-2	65 1802	47	N, GAMMA
	40-ZR-NAT	23		1.800-2	9.500-1	63 890	15	N, GAMMA
	40-ZR-NAT	23		3.000-2	6.500-2	61 677	2	N, GAMMA
	40-ZR-NAT	23		3.000-2	6.500-2	63 1	2	N, GAMMA
	40-ZR-NAT	23		1.750-1	1.000+0	60 674	7	N, GAMMA
C	40-ZR-90	23		1.200-3	5.000-2	65 1802	17	N, GAMMA
C	40-ZR-91	23		2.700-5	5.800-2	65 1802	55	N, GAMMA
N	40-ZR-94	23		2.530-8	2.530-8	71 3434	1	N, GAMMA
C	40-ZR-94	23		1.500-3	5.700-2	65 1802	15	N, GAMMA
	40-ZR-94	23		2.400-2	2.400-2	57 305	1	N, GAMMA
	40-ZR-94	23		2.500-2	1.950-1	59 526	2	N, GAMMA
	40-ZR-94	23		2.500-2	7.500+0	72 3871	1	N, GAMMA
N	40-ZR-94	23		7.500+0	7.500+0	72 3871	1	N, GAMMA
N	40-ZR-96	23		2.530-8	2.530-8	71 3434	1	N, GAMMA
	40-ZR-96	23		2.400-2	2.400-2	57 305	1	N, GAMMA
	40-ZR-96	23		1.950-1	1.950-1	59 526	1	N, GAMMA
N	40-ZR-96	23		7.500+0	7.500+0	72 3871	1	N, GAMMA
	40-ZR-96	23		1.450+1	1.450+1	57 521	1	N, GAMMA
N	41-NB-93	23		2.530-8	2.530-8	67 3532	1	N, GAMMA
	41-NB-93	23		1.550-5	5.600-2	62 2067	83	N, GAMMA
	41-NB-93	23		7.500-3	1.700-1	61 677	49	N, GAMMA
	41-NB-93	23		1.080-2	1.580-1	67 1547	71	N, GAMMA
	41-NB-93	23		2.000-2	7.300-1	61 716	12	N, GAMMA
	41-NB-97	23		2.100-2	2.100-2	58 43	1	N, GAMMA
N	41-NB-93	23		2.370-2	2.370-2	75 3909	1	N, GAMMA
	41-NB-93	23		3.000-2	6.500-2	63 1	2	N, GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	41-NB-93	23		4.000-2	1.250+0	60 738	17	N,GAMMA
	41-NB-93	23		7.000-2	1.820-1	67 1807	6	N,GAMMA
	41-NB-93	23		1.750-1	1.000+0	60 674	7	N,GAMMA
N	41-NB-93	23		3.000-1	2.500+0	74 3542	16	N,GAMMA
N	41-NB-94	23		2.530-8	2.530-8	67 3532	1	N,GAMMA
	42-MO-NAT	23		1.000-6	4.900-2	63 896	136	N,GAMMA
	42-MO-NAT	23		8.000-6	2.860-2	64 1829	47	N,GAMMA
	42-MO-NAT	23		9.576-4	1.107+0	70 3063	95	N,GAMMA
	42-MO-NAT	23		1.200-2	1.660-1	67 1547	69	N,GAMMA
	42-MO-NAT	23		2.500-2	3.300-1	60 633	3	N,GAMMA
	42-MO-NAT	23		3.000-2	3.000-2	63 799	1	N,GAMMA
	42-MO-NAT	23		3.000-2	6.500-2	61 677	2	N,GAMMA
	42-MO-NAT	23		3.000-2	6.500-2	63 1	2	N,GAMMA
	42-MO-NAT	23		5.000-2	9.600-1	61 2135	11	N,GAMMA
	42-MO-NAT	23		5.000-2	9.700-1	59 645	12	N,GAMMA
	42-MO-NAT	23		1.750-1	1.000+0	60 674	7	N,GAMMA
	42-MO-NAT	23		2.000-1	2.000-1	58 363	1	N,GAMMA
	42-MO-NAT	23		4.000-1	4.000-1	56 9	1	N,GAMMA
	42-MO-95	23		3.250-5	4.600-2	63 896	47	N,GAMMA
	42-MO-95	23		8.300-5	5.000-2	63 896	43	N,GAMMA
	42-MO-97	23		2.800-5	6.100-2	63 896	60	N,GAMMA
	42-MO-98	23		2.500-8	2.500-8	61 2717	1	N,GAMMA
	42-MO-98	23		2.530-8	2.530-8	47 888	1	N,GAMMA
	42-MO-98	23		2.530-8	2.530-8	61 2718	1	N,GAMMA
N	42-MO-98	23		2.530-8	2.530-8	69 3678	1	N,GAMMA
	42-MO-98	23		5.000-6	3.100-2	63 896	63	N,GAMMA
	42-MO-98	23		3.600-3	2.644+0	67 2694	26	N,GAMMA
	42-MO-98	23		2.100-2	2.100-2	57 23	1	N,GAMMA
	42-MO-98	23		2.100-2	2.100-2	58 357	1	N,GAMMA
	42-MO-98	23		2.400-2	2.400-2	57 305	1	N,GAMMA
	42-MO-98	23		2.500-2	2.500-2	62 697	1	N,GAMMA
	42-MO-98	23		1.950-1	1.950-1	59 526	1	N,GAMMA
	42-MO-98	23		2.300-1	2.725+0	69 3002	15	N,GAMMA
	42-MO-98	23		3.000+0	3.000+0	67 1991	1	N,GAMMA
	42-MO-100	23		2.530-8	2.530-8	47 888	1	N,GAMMA
	42-MO-100	23		1.950-4	3.500-2	63 896	39	N,GAMMA
	42-MO-100	23		4.000-1	1.000-1	60 726	9	N,GAMMA
	42-MO-100	23		2.100-2	2.100-2	58 43	1	N,GAMMA
	42-MO-100	23		2.100-2	2.100-2	58 357	1	N,GAMMA
	42-MO-100	23		2.400-2	2.400-2	57 305	1	N,GAMMA
	42-MO-100	23		2.500-2	2.500-2	62 697	1	N,GAMMA
	42-MO-100	23		3.000-2	2.100+0	60 722	17	N,GAMMA
	42-MO-100	23		5.200-2	4.000+0	61 2138	23	N,GAMMA
	42-MO-100	23		1.500-1	6.100+0	59 663	24	N,GAMMA
	42-MO-100	23		1.950-1	1.950-1	59 526	1	N,GAMMA
	42-MO-100	23		2.000-1	4.000+0	58 363	3	N,GAMMA
	42-MO-100	23		2.500+0	4.000+0	58 1044	3	N,GAMMA
	44-RU-NAT	23		2.400-4	8.600-3	61 718	37	N,GAMMA
	44-RU-NAT	23		1.750-1	1.000+0	60 674	7	N,GAMMA
	44-RU-95	23		2.400-2	2.400-2	57 305	1	N,GAMMA
	44-RU-95	23		1.950-1	1.950-1	59 526	1	N,GAMMA
N	44-RU-102	23		2.530-8	2.530-8	69 3750	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ECSIL-1000 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
44-RU-102	23		2.400-2	2.400-2	57 305	1	N, GAMMA
44-RU-102	23		1.950-1	1.950-1	59 526	1	N, GAMMA
44-RU-104	23		2.500-8	2.500-8	64 2723	1	N, GAMMA
44-RU-104	23		2.400-2	2.400-2	57 305	1	N, GAMMA
44-RU-104	23		1.950-1	1.950-1	59 526	1	N, GAMMA
44-RU-104	27		3.000+0	3.000+0	67 1991	1	N, GAMMA
44-RU-104	23		1.450+1	1.450+1	57 521	1	N, GAMMA
44-RU-104	23		1.470+1	1.470+1	66 2141	1	N, GAMMA
44-RU-106	33		2.500-8	2.500-8	65 2727	1	N, GAMMA
45-RH-103	23		2.530-6	2.530-6	47 888	1	N, GAMMA
45-RH-103	23		3.900-7	3.400-2	62 2067	95	N, GAMMA
45-RH-103	23		4.585-5	9.933-5	64 2153	69	N, GAMMA
C 45-RH-103	23		1.095-4	6.117-2	63 2153	666	N, GAMMA
45-RH-103	23		2.100-4	8.500-3	61 718	55	N, GAMMA
45-RH-103	23		9.576-4	1.107+0	71 3137	95	N, GAMMA
45-RH-103	23		3.500-3	2.900-1	60 725	15	N, GAMMA
N 45-RH-103	23		6.314-3	2.973-1	74 3552	566	N, GAMMA
45-RH-103	23		2.500-2	2.500-2	62 697	1	N, GAMMA
45-RH-103	23		3.000-2	6.500-2	63 1	2	N, GAMMA
45-RH-103	23		6.500-2	6.500-2	61 677	1	N, GAMMA
45-RH-103	23		7.000-2	1.820-1	67 1807	4	N, GAMMA
45-RH-103	23		1.750-1	1.000+0	60 674	7	N, GAMMA
45-RH-103	23		2.500+0	4.000+0	58 1044	3	N, GAMMA
45-RH-103	23		1.340+1	1.500+1	67 1695	8	N, GAMMA
45-RH-103	23		1.467+1	1.467+1	63 749	1	N, GAMMA
46-PD-NAT	23		2.000-4	8.500-3	61 718	40	N, GAMMA
46-PD-NAT	23		1.010-2	1.740-1	61 677	36	N, GAMMA
46-PD-NAT	23		1.170-2	1.610-1	67 1547	71	N, GAMMA
46-PD-NAT	23		3.000-2	6.500-2	63 1	2	N, GAMMA
N 46-PD-105	23		6.314-3	2.973-1	74 3552	562	N, GAMMA
46-PD-108	23		3.000-3	7.000-1	60 726	12	N, GAMMA
46-PD-108	23		2.400-2	2.400-2	66 1788	1	N, GAMMA
46-PD-108	23		1.950-1	1.950-1	59 526	1	N, GAMMA
N 46-PD-110	23		2.500-2	2.500-2	70 3969	2	N, GAMMA
46-PD-110	23		2.000-1	9.000-1	49 212	2	N, GAMMA
46-PD-110	23		1.450+1	1.450+1	57 521	1	N, GAMMA
47-AG-NAT	23		1.000-8	2.700-2	63 2164	275	N, GAMMA
N 47-AG-NAT	23		2.530-8	8.350-7	70 3627	5	N, GAMMA
47-AG-NAT	23		2.500-5	2.000-2	64 1829	54	N, GAMMA
C 47-AG-NAT	23		2.807-5	8.940-5	64 2153	236	N, GAMMA
C 47-AG-NAT	23		2.813-5	1.253-2	63 2153	614	N, GAMMA
47-AG-NAT	23		3.700-5	1.700-2	60 616	38	N, GAMMA
47-AG-NAT	23		1.900-4	1.200-3	61 718	42	N, GAMMA
N 47-AG-NAT	23		2.000-4	3.400-2	70 3315	26	N, GAMMA
47-AG-NAT	23		9.800-3	1.600-1	61 677	50	N, GAMMA
47-AG-NAT	23		9.900-3	9.400-2	68 3301	47	N, GAMMA
47-AG-NAT	23		1.290-2	1.520-1	67 1547	65	N, GAMMA
47-AG-NAT	23		1.800-2	3.000-1	52 1407	8	N, GAMMA
N 47-AG-NAT	23		2.370-2	2.370-2	75 3909	1	N, GAMMA
47-AG-NAT	23		2.500-2	2.500-2	60 639	1	N, GAMMA
47-AG-NAT	23		2.500-2	2.500-2	62 697	1	N, GAMMA
47-AG-NAT	23		2.500-2	8.300-1	60 633	3	N, GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 23

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	47-AG-NAT	23	2,900-	2	1,380-	1	65 2388	18 N,GAMMA
	47-AG-NAT	23	3,000-	2	5,500-	2	63 1	2 N,GAMMA
N	47-AG-NAT	23	4,000-	2	1,500+	0	73 3682	13 N,GAMMA
	47-AG-NAT	23	1,040-	1	1,820-	1	67 1807	4 N,GAMMA
	47-AG-NAT	23	1,750-	1	1,000+	0	60 674	7 N,GAMMA
	47-AG-NAT	23	2,000-	1	2,000-	1	58 363	1 N,GAMMA
	47-AG-107	23	3,508-	5	9,901-	4	66 2387	1455 N,GAMMA
	47-AG-107	23	3,000-	3	2,500-	1	60 726	23 N,GAMMA
	47-AG-107	23	3,500-	3	5,900+	0	46 313	8 N,GAMMA
	47-AG-107	23	2,100-	2	2,100-	2	58 43	1 N,GAMMA
	47-AG-107	23	2,100-	2	2,100-	2	58 357	1 N,GAMMA
	47-AG-107	23	2,400-	2	2,400-	2	57 305	1 N,GAMMA
	47-AG-107	23	2,500-	2	2,500-	2	62 697	1 N,GAMMA
C	47-AG-107	23	2,900-	2	1,460-	1	65 2388	19 N,GAMMA
	47-AG-107	23	1,050-	1	2,600+	0	59 663	20 N,GAMMA
	47-AG-107	23	1,950-	1	1,950-	1	55 526	1 N,GAMMA
	47-AG-107	23	2,000-	1	4,000+	0	58 363	3 N,GAMMA
	47-AG-109	23	2,530-	8	2,530-	8	47 888	1 N,GAMMA
	47-AG-109	23	3,508-	5	9,901-	4	66 2387	1456 N,GAMMA
	47-AG-109	23	3,000-	3	2,000-	1	60 726	16 N,GAMMA
	47-AG-109	23	3,500-	3	5,900+	0	46 313	8 N,GAMMA
	47-AG-109	23	2,500-	2	2,500-	2	62 697	1 N,GAMMA
N	47-AG-109	23	2,500-	2	2,500-	2	70 3971	1 N,GAMMA
C	47-AO-109	23	2,900-	2	1,380-	1	65 2388	18 N,GAMMA
N	48-CD-NAT	23	2,530-	8	2,530-	8	64 895	3 N,GAMMA
	48-CD-NAT	23	2,530-	8	2,530-	8	68 2175	1 N,GAMMA
	48-CD-NAT	23	2,000-	4	7,500-	3	61 718	29 N,GAMMA
	48-CD-NAT	23	8,000-	3	1,600-	1	61 677	40 N,GAMMA
	48-CD-NAT	23	1,190-	2	1,580-	1	67 1547	70 N,GAMMA
	48-CD-NAT	23	2,400-	2	2,400-	2	60 639	1 N,GAMMA
	48-CD-NAT	23	3,000-	2	3,000-	2	63 799	1 N,GAMMA
	48-CD-NAT	23	3,000-	2	6,500-	2	63 1	2 N,GAMMA
	48-CD-NAT	23	2,000-	1	2,000-	1	58 363	1 N,GAMMA
	48-CD-NAT	23	4,000-	1	4,000-	1	60 674	1 N,GAMMA
N	48-CD-NAT	23	9,600-	1	9,600-	1	66 3863	1 N,GAMMA
	48-CD-110	23	2,530-	8	2,530-	8	48 2688	1 N,GAMMA
N	48-CD-111	23	2,530-	8	2,530-	8	68 3420	1 N,GAMMA
N	48-CD-112	23	2,530-	8	2,530-	8	68 3420	1 N,GAMMA
	48-CD-114	23	2,530-	8	2,530-	8	47 888	1 N,GAMMA
N	48-CD-114	23	2,530-	8	2,530-	8	68 3420	1 N,GAMMA
N	48-CD-114	23	1,210-	1	2,820+	0	74 3498	18 N,GAMMA
	48-CD-116	23	2,530-	8	2,530-	8	47 888	1 N,GAMMA
N	48-CD-116	23	2,530-	8	2,530-	8	68 3420	1 N,GAMMA
	48-CD-116	23	2,500-	2	2,500-	2	70 3959	2 N,GAMMA
	48-IN-NAT	23	1,480-	8	2,130-	2	63 2164	258 N,GAMMA
	48-IN-NAT	23	1,188-	6	5,400-	2	62 2867	131 N,GAMMA
	48-IN-NAT	23	2,600-	4	8,200-	3	61 718	44 N,GAMMA
N	49-IN-NAT	23	5,500-	3	8,200-	2	74 4060	32 N,GAMMA
	49-IN-NAT	23	7,300-	3	4,000-	1	61 677	70 N,GAMMA
	49-IN-NAT	23	1,250-	2	1,580-	1	67 1547	68 N,GAMMA
	49-IN-NAT	23	2,400-	2	2,400-	2	60 639	1 N,GAMMA
	49-IN-NAT	23	2,500-	2	2,500-	2	62 697	1 N,GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 23

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	52-TE-122	23	2.500-	2	2.500-	2	70 3971
	52-TE-122	23	3.000-	2	1.250-	1	67 1807
	52-TE-123	23	3.000-	2	1.250-	1	67 1807
	52-TE-124	23	1.000-	3	6.100-	2	65 2202
	52-TE-124	23	3.000-	2	1.250-	1	67 1807
	52-TE-125	23	1.000-	3	6.100-	2	65 2202
	52-TE-125	23	3.000-	2	1.250-	1	67 1807
	52-TE-126	23	2.530-	8	2.530-	8	47 888
	52-TE-126	23	1.000-	3	6.100-	2	65 2202
	52-TE-126	23	3.000-	2	1.250-	1	67 1807
	52-TE-128	23	2.530-	8	2.530-	8	47 888
	52-TE-128	23	1.000-	3	6.100-	2	65 2202
	52-TE-128	23	3.000-	2	1.250-	1	67 1807
	52-TE-130	23	2.530-	8	2.530-	8	47 888
	52-TE-130	23	1.000-	3	6.100-	2	65 2202
	52-TE-130	23	3.000-	2	1.250-	1	67 1807
	52-TE-130	23	2.000-	1	9.000-	1	49 212
	53-I-127	23	2.530-	8	2.530-	8	47 888
	53-I-127	23	1.400-	5	5.000-	2	62 2067
	53-I-127	23	2.000-	4	8.600-	3	61 718
	53-I-127	23	3.500-	3	5.900+	0	45 313
	53-I-127	23	4.900-	3	1.800-	1	60 726
	53-I-127	23	9.500-	3	1.700-	1	61 677
	53-I-127	23	1.890-	2	2.470+	0	61 731
	53-I-127	23	2.000-	2	9.800-	1	59 524
N	53-I-127	23	2.370-	2	2.370-	2	75 3909
	53-I-127	23	2.400-	2	2.400-	2	57 305
	53-I-127	23	2.400-	2	2.400-	2	63 639
	53-I-127	23	2.400-	2	2.400-	2	65 2206
N	53-I-127	23	2.430-	2	2.430-	2	74 3565
	53-I-127	23	2.500-	2	2.500-	2	59 545
	53-I-127	23	2.500-	2	2.500-	2	62 697
	53-I-127	23	2.500-	2	3.100-	1	58 2
	53-I-127	23	3.000-	2	6.500-	2	63 1
	53-I-127	23	1.250-	1	1.820-	1	67 1807
	53-I-127	23	1.600-	1	6.200+	0	59 663
	53-I-127	23	1.800-	1	1.700+	0	64 2069
	53-I-127	23	1.950-	1	1.950-	1	59 526
	53-I-127	23	2.000-	1	1.700+	0	61 649
	53-I-127	23	4.000-	1	4.000-	1	60 674
N	53-I-127	23	4.000-	1	4.000-	1	71 3821
	53-I-127	23	2.700+	0	4.000+	0	58 363
	53-I-127	23	2.900+	0	2.900+	0	68 3375
	53-I-127	23	3.000+	0	3.000+	0	67 1991
N	53-I-127	23	1.410+	1	1.410+	1	70 2232
N	53-I-127	23	1.440+	1	1.440+	1	72 3963
	53-I-127	23	1.450+	1	1.450+	1	57 521
	53-I-127	23	1.470+	1	1.470+	1	68 2483
	54-XE-124	23	2.530-	8	2.530-	8	64 2210
	54-XE-124	23	2.530-	8	2.530-	8	2 63 1010
	54-XE-126	23	2.530-	8	2.530-	8	65 2211
	54-XE-134	23	2.530-	8	2.530-	8	2 63 1010

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
54-XE-136	23		2.530-8	2.530-8	48 2688	1	N, GAMMA
54-XE-136	23		2.530-8	2.530-8	65 2211	1	N, GAMMA
54-XE-136	23		1.000+0	4.000+0	48 327	1	N, GAMMA
55-CS-133	23		1.328-8	4.693-5	72 3147	269	N, GAMMA
55-CS-133	23		2.530-8	2.530-8	47 888	1	N, GAMMA
55-CS-133	23		8.750-7	4.000-2	62 2057	92	N, GAMMA
55-CS-133	23		1.270-2	1.690-1	57 1547	72	N, GAMMA
55-CS-133	23	N	4.000-1	4.000-1	71 3821	2	N, GAMMA
55-CS-135	23		2.530-8	2.530-8	58 1163	1	N, GAMMA
56-BA-NAT	23		3.000-2	6.500-2	63 1	2	N, GAMMA
56-BA-NAT	23	N	1.410+1	1.410+1	69 2220	1	N, GAMMA
56-BA-130	23		2.006-5	4.992-3	72 3594	4369	N, GAMMA
56-BA-138	23		2.530-8	2.530-8	47 888	1	N, GAMMA
56-BA-138	23		2.100-2	2.100-2	58 43	1	N, GAMMA
56-BA-138	23		2.400-2	2.400-2	57 305	1	N, GAMMA
56-BA-138	23		2.400-2	2.400-2	66 1788	1	N, GAMMA
56-BA-138	23		6.500-2	1.900+0	61 715	12	N, GAMMA
56-BA-138	23		1.500-1	2.200+0	59 663	17	N, GAMMA
56-BA-138	23		1.950-1	1.950-1	59 526	1	N, GAMMA
56-BA-138	23		2.000-1	4.000+0	58 363	3	N, GAMMA
56-BA-138	23		2.500+0	4.000+0	58 1044	3	N, GAMMA
56-BA-138	23		2.900+0	2.900+0	68 3375	1	N, GAMMA
56-BA-138	23		3.000+0	3.000+0	67 1991	1	N, GAMMA
56-BA-138	23	N	1.440+1	1.440+1	72 3963	1	N, GAMMA
56-BA-138	23		1.450-1	1.450-1	57 521	1	N, GAMMA
56-BA-140	23	N	2.530-8	2.530-8	67 3533	1	N, GAMMA
57-LA-NAT	23		3.000-2	6.500-2	63 1	2	N, GAMMA
57-LA-139	23		2.530-8	2.530-8	47 888	1	N, GAMMA
57-LA-139	23	N	2.530-8	2.530-8	67 3494	1	N, GAMMA
57-LA-139	23		4.000-5	4.000-2	63 1950	66	N, GAMMA
57-LA-139	23		1.120-2	1.997+0	67 2694	19	N, GAMMA
57-LA-139	23		2.100-2	2.100-2	57 23	1	N, GAMMA
57-LA-139	23		2.400-2	2.400-2	57 305	1	N, GAMMA
57-LA-139	23		2.400-2	2.400-2	66 1788	1	N, GAMMA
57-LA-139	23		3.000-2	6.500-2	61 677	2	N, GAMMA
57-LA-139	23		1.800-1	2.000+0	59 663	4	N, GAMMA
57-LA-139	23		1.950-1	1.950-1	59 526	1	N, GAMMA
57-LA-139	23		1.000+0	1.000+0	48 327	1	N, GAMMA
57-LA-139	23		3.000+0	3.000+0	67 1991	1	N, GAMMA
57-LA-139	23		1.400+1	1.400+1	65 2216	1	N, GAMMA
57-LA-139	23	N	1.440+1	1.440+1	72 3963	1	N, GAMMA
57-LA-139	23		1.450+1	1.450+1	57 521	1	N, GAMMA
57-LA-139	23		1.470+1	1.470+1	67 1695	1	N, GAMMA
57-LA-139	23		1.480+1	1.480+1	60 672	1	N, GAMMA
58-CE-NAT	23		3.000-2	6.500-2	61 677	2	N, GAMMA
58-CE-NAT	23		3.000-2	6.500-2	63 1	2	N, GAMMA
58-CE-NAT	23		4.000-1	4.000-1	60 674	1	N, GAMMA
58-CE-140	23		2.400-2	2.400-2	57 305	1	N, GAMMA
58-CE-142	23		2.400-2	2.400-2	57 305	1	N, GAMMA
58-CE-142	23		2.400-2	2.400-2	66 1788	1	N, GAMMA
58-CE-142	23		1.950-1	1.950-1	59 526	1	N, GAMMA
58-CE-142	23		3.000+0	3.000+0	67 1991	1	N, GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 23

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
66-DY-NAT	23		6.400-3	1.670-1	61 677	55	N,GAMMA
66-DY-NAT	23		3.000-2	6.500-2	63 1	2	N,GAMMA
N 66-DY-NAT	23		3.000-2	3.000-1	72 3877	4	N,GAMMA
N 66-DY-156	23		2.530-8	2.530-8	72 3679	1	N,GAMMA
N 66-DY-158	23		2.530-8	2.530-8	72 3679	1	N,GAMMA
66-DY-161	23		2.300-8	1.001-6	64 2250	85	N,GAMMA
C 66-DY-161	23		2.900-2	1.680-1	65 2388	20	N,GAMMA
66-DY-162	23		2.200-8	1.001-6	64 2250	78	N,GAMMA
C 66-DY-162	23		2.900-2	1.560-1	65 2388	21	N,GAMMA
66-DY-163	23		2.100-8	1.001-6	64 2250	84	N,GAMMA
C 66-DY-163	23		2.900-2	1.460-1	65 2388	19	N,GAMMA
66-DY-164	23		2.530-8	2.530-8	47 888	1	N,GAMMA
N 66-DY-164	23		2.530-8	2.530-8	72 3679	1	N,GAMMA
66-DY-164	23		2.530-8	2.000-6	61 2255	9	N,GAMMA
N 66-DY-164	23		5.000-3	1.600-1	72 3436	16	N,GAMMA
66-DY-164	23		2.400-2	2.400-2	65 867	1	N,GAMMA
N 66-DY-165	23		2.530-8	2.530-8	72 3679	1	N,GAMMA
N 67-HO-165	23		2.530-8	2.530-8	67 2256	1	N,GAMMA
67-HO-165	23		3.700-7	4.200-2	65 1064	94	N,GAMMA
N 67-HO-165	23		1.910-4	2.470-1	73 3829	29	N,GAMMA
67-HO-165	23		2.000-4	9.300-3	61 718	50	N,GAMMA
N 67-HO-165	23		5.000-3	1.600-1	72 3436	16	N,GAMMA
67-HO-165	23		9.500-3	1.675-1	61 677	54	N,GAMMA
N 67-HO-165	23		2.370-2	2.370-2	75 3909	1	N,GAMMA
67-HO-165	23		3.000-2	6.500-2	63 1	2	N,GAMMA
N 67-HO-165	23		3.000-2	3.000-1	72 3877	4	N,GAMMA
N 67-HO-165	23		4.000-1	4.000-1	71 3821	2	N,GAMMA
N 67-HO-165	23		4.000-1	3.000-0	75 3886	16	N,GAMMA
67-HO-165	23		1.400+1	1.400+1	71 3194	1	N,GAMMA
67-HO-165	23		1.450+1	1.450+1	57 521	1	N,GAMMA
N 68-ER-NAT	23		1.040-8	1.230-6	64 2262	88	N,GAMMA
N 68-ER-NAT	23		2.530-8	2.530-8	67 2256	1	N,GAMMA
N 68-ER-NAT	23		2.530-8	2.700-7	70 3627	5	N,GAMMA
68-ER-NAT	23		2.000-4	7.800-3	61 718	45	N,GAMMA
68-ER-NAT	23		9.450-3	1.720-1	61 677	49	N,GAMMA
68-ER-NAT	23		3.000-2	6.500-2	63 1	2	N,GAMMA
N 68-ER-NAT	23		3.000-2	3.000-1	72 3877	4	N,GAMMA
68-ER-162	23		2.530-8	2.530-8	68 3316	1	N,GAMMA
68-ER-166	23		2.530-8	2.530-8	68 3316	1	N,GAMMA
N 68-ER-166	23		5.280-3	6.820-2	74 4060	32	N,GAMMA
68-ER-167	23		2.530-8	2.530-8	67 2355	1	N,GAMMA
68-ER-167	23		2.530-8	2.530-8	68 3316	1	N,GAMMA
N 68-ER-167	23		6.040-3	6.820-2	74 4060	31	N,GAMMA
68-ER-168	23		2.530-8	2.530-8	69 3316	1	N,GAMMA
N 68-ER-168	23		5.280-3	6.820-2	74 4060	32	N,GAMMA
68-ER-170	23		2.530-8	2.530-8	68 3316	1	N,GAMMA
68-ER-170	23		4.900-3	2.644+0	67 2694	20	N,GAMMA
N 68-ER-170	23		5.280-3	6.820-2	74 4060	32	N,GAMMA
68-ER-170	23		2.400-2	2.400-2	57 305	1	N,GAMMA
68-ER-170	23		2.400-2	2.400-2	68 2856	1	N,GAMMA
68-ER-170	23		3.000+0	3.000+0	67 1991	1	N,GAMMA
N 68-ER-170	23		1.440+1	1.440+1	72 3963	1	N,GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
69-TM-169	23	2.530	-8	2.530	-8	47 888	1 N.GAMMA
69-TM-169	23	2.530	-7	2.530	-7	67 2256	1 N.GAMMA
69-TM-169	23	2.000	-4	7.500	-3	61 718	46 N.GAMMA
69-TM-169	23	9.500	-3	1.670	-1	61 677	57 N.GAMMA
69-TM-169	23	2.500	-2	2.500	-2	70 3971	1 N.GAMMA
69-TM-169	23	3.000	-2	6.500	-2	63 1	2 N.GAMMA
70-YB-NAT	23	2.530	-8	2.530	-8	67 2256	1 N.GAMMA
70-YB-NAT	23	2.000	-4	6.000	-3	61 718	41 N.GAMMA
70-YB-NAT	23	9.500	-3	1.670	-1	61 677	46 N.GAMMA
70-YB-NAT	23	3.000	-2	6.500	-2	63 1	2 N.GAMMA
70-YB-NAT	23	3.000	-2	1.650	-1	72 3877	3 N.GAMMA
70-YB-168	23	2.500	-2	2.500	-2	70 3971	1 N.GAMMA
70-YB-171	23	5.500	-3	8.200	-2	74 4094	32 N.GAMMA
70-YB-172	23	5.500	-3	8.200	-2	74 4094	32 N.GAMMA
70-YB-173	23	5.500	-3	8.200	-2	74 4094	32 N.GAMMA
70-YB-174	23	5.500	-3	8.200	-2	74 4094	31 N.GAMMA
70-YB-174	23	2.500	-2	2.500	-2	70 3971	1 N.GAMMA
70-YB-176	23	3.600	-3	1.877	0	57 2694	20 N.GAMMA
70-YB-176	23	2.500	-2	2.500	-2	70 3971	1 N.GAMMA
71-LU-NAT	23	9.935	-9	9.261	-6	72 3147	386 N.GAMMA
71-LU-NAT	23	2.500	-8	2.500	-2	65 1054	174 N.GAMMA
71-LU-NAT	23	2.530	-8	2.530	-8	67 2256	1 N.GAMMA
71-LU-NAT	23	6.500	-3	2.030	-1	61 677	77 N.GAMMA
71-LU-NAT	23	3.000	-2	6.500	-2	63 1	2 N.GAMMA
71-LU-NAT	23	3.000	-2	3.000	-1	72 3877	4 N.GAMMA
71-LU-175	23	1.026	-8	1.080	-5	75 3147	232 N.GAMMA
71-LU-175	23	2.000	-4	5.800	-3	61 718	44 N.GAMMA
71-LU-175	23	3.000	-2	2.000	-1	67 1807	8 N.GAMMA
71-LU-176	23	1.020	-8	1.981	-6	75 3147	277 N.GAMMA
71-LU-176	23	3.000	-2	2.000	-1	67 1807	8 N.GAMMA
72-HF-NAT	23	2.100	-4	8.000	-3	61 718	43 N.GAMMA
72-HF-NAT	23	1.220	-2	1.510	-1	67 1547	68 N.GAMMA
72-HF-NAT	23	3.000	-2	6.500	-2	63 1	2 N.GAMMA
72-HF-174	23	2.530	-8	2.530	-8	61 2637	1 N.GAMMA
72-HF-178	23	2.500	-2	2.500	-2	70 3971	1 N.GAMMA
72-HF-179	23	2.500	-2	2.500	-2	70 3971	1 N.GAMMA
72-HF-180	23	2.530	-8	2.530	-8	47 888	1 N.GAMMA
72-HF-180	23	2.400	-2	2.400	-2	57 305	1 N.GAMMA
72-HF-180	23	3.000	-2	3.970	0	61 759	15 N.GAMMA
73-TA-NAT	23	1.398	-8	2.041	-5	75 3147	226 N.GAMMA
73-TA-NAT	23	3.200	-7	4.500	-2	63 1860	148 N.GAMMA
73-TA-NAT	23	9.659	-6	9.988	-5	64 2153	759 N.GAMMA
73-TA-NAT	23	1.001	-4	1.658	-2	63 2153	829 N.GAMMA
73-TA-NAT	23	2.000	-4	7.000	-3	61 718	49 N.GAMMA
73-TA-NAT	23	9.576	-4	1.107	0	70 3063	95 N.GAMMA
73-TA-NAT	23	6.500	-3	1.670	-1	61 677	49 N.GAMMA
73-TA-NAT	23	1.320	-2	1.570	-1	67 1547	66 N.GAMMA
73-TA-NAT	23	3.000	-2	3.000	-2	63 799	1 N.GAMMA
73-TA-NAT	23	3.000	-2	6.500	-2	63 1	2 N.GAMMA
73-TA-NAT	23	3.000	-2	3.140	-1	66 2279	4 N.GAMMA
73-TA-NAT	23	3.000	-2	1.500	0	73 3682	14 N.GAMMA
73-TA-NAT	23	3.400	-2	3.000	-1	62 1407	5 N.GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	73-TA-NAT	23		1.750-1	1.000+0	50 674	7	N, GAMMA
	73-TA-NAT	23		2.000-1	2.000-1	58 363	1	N, GAMMA
	73-TA-NAT	23		1.400+1	1.400+1	71 3194	1	N, GAMMA
	73-TA-181	23		2.530-8	2.530-8	64 2645	1	N, GAMMA
N	73-TA-181	23		2.530-8	8.350-7	70 3627	5	N, GA - NA
	73-TA-181	23		3.000-2	3.000-1	72 3877	4	N, GAMMA
	73-TA-181	23		3.000-2	3.970+0	61 759	26	N, GAMMA
N	73-TA-181	23		3.300-2	1.560-1	65 2388	15	N, GAMMA
	73-TA-181	23		3.400-2	1.300+0	71 3821	9	N, GAMMA
N	73-TA-181	23		3.500-2	5.110+0	69 2887	38	N, GAMMA
	73-TA-181	23		1.210-1	1.660+0	71 3498	15	N, GAMMA
N	73-TA-181	23		1.700-1	2.620+0	74 3498	31	N, GAMMA
	73-TA-181	23		1.700-1	1.400+0	64 2089	13	N, GAMMA
	73-TA-181	23		2.000-1	2.000-1	58 363	1	N, GAMMA
N	73-TA-181	23		3.000-1	3.000+0	75 3886	14	N, GAMMA
	73-TA-181	23		4.000-1	4.000-1	56 9	1	N, GAMMA
	74-W-NAT	23		1.000-8	1.000-5	66 2286	36	N, GAMMA
	74-W-NAT	23		7.000-7	9.000-3	63 898	209	N, GAMMA
	74-W-NAT	23		2.000-4	8.000-3	61 718	42	N, GAMMA
	74-W-NAT	23		1.005-3	6.423-1	70 3063	92	N, GAMMA
	74-W-NAT	23		1.250-3	9.950-3	65 923	9	N, GAMMA
	74-W-NAT	23		1.200-2	1.800-1	61 677	55	N, GAMMA
	74-W-NAT	23		1.220-2	1.530-1	67 1547	68	N, GAMMA
	74-W-NAT	23		1.800-2	3.000-1	62 1407	8	N, GAMMA
	74-W-NAT	23		3.000-2	3.000-2	63 799	1	N, GAMMA
	74-W-NAT	23		3.000-2	6.500-2	63 1	2	N, GAMMA
N	74-W-NAT	23		3.300-2	1.680-1	65 2388	16	N, GAMMA
	74-W-NAT	23		5.000-2	1.100+0	58 645	13	N, GAMMA
	74-W-NAT	23		1.250-1	2.200-1	67 1807	4	N, GAMMA
	74-W-NAT	23		1.750-1	1.000+0	60 674	7	N, GAMMA
	74-W-NAT	23		2.000-1	2.000-1	58 363	1	N, GAMMA
	74-W-NAT	23		8.300-1	8.300-1	60 633	1	N, GAMMA
N	74-W-NAT	23		1.410+1	1.410+1	69 2220	1	N, GAMMA
	74-W-182	23		1.000-8	1.000-5	66 2286	35	N, GAMMA
	74-W-182	23		1.250-3	9.950-3	65 923	9	N, GAMMA
	74-W-182	23		2.300-3	5.000-2	63 896	16	N, GAMMA
N	74-W-182	23		3.300-2	1.680-1	65 2388	15	N, GAMMA
	74-W-183	23		1.000-8	1.000-5	66 2286	33	N, GAMMA
	74-W-183	23		1.250-3	9.950-3	65 923	9	N, GAMMA
	74-W-183	23		5.000-3	5.000-2	63 896	6	N, GAMMA
	74-W-184	23		1.000-8	2.420-6	66 2286	29	N, GAMMA
	74-W-184	23		1.250-3	9.950-3	65 923	9	N, GAMMA
	74-W-184	23		1.500-3	3.500-2	63 896	19	N, GAMMA
N	74-W-184	23		3.300-2	1.680-1	65 2388	15	N, GAMMA
	74-W-185	23		1.000-8	1.000-5	66 2286	35	N, GAMMA
	74-W-185	23		2.530-8	2.530-8	47 888	1	N, GAMMA
	74-W-185	23		1.000-5	1.460-2	63 896	69	N, GAMMA
	74-W-185	23		1.250-3	9.950-3	65 923	9	N, GAMMA
	74-W-186	23		2.100-2	2.100-2	57 43	1	N, GAMMA
	74-W-186	23		2.100-2	2.100-2	58 43	1	N, GAMMA
	74-W-186	23		2.400-2	2.400-2	57 305	1	N, GAMMA
	74-W-186	23		2.400-2	2.400-2	66 1788	1	N, GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
77-1R-193	23	3.000+	0	3.000+	0	57 1991	1 N.GAMMA
78-PT-NAT	23	2.000-	4	9.500-	3	51 718	51 N.GAMMA
78-PT-NAT	23	3.000-	2	3.000-	2	53 799	1 N.GAMMA
78-PT-NAT	23	3.000-	2	6.500-	2	61 577	2 N.GAMMA
78-PT-NAT	23	3.000-	2	6.500-	2	63 1	2 N.GAMMA
78-PT-NAT	23	1.750-	1	1.000+	0	60 574	7 N.GAMMA
78-PT-196	23	2.500-	2	2.500-	2	70 3969	2 N.GAMMA
78-PT-198	23	1.500-	3	3.000-	1	60 727	14 N.GAMMA
78-PT-198	23	1.450+	1	1.450+	1	57 521	1 N.GAMMA
79-AU-197	23	1.047-	9	2.540-	9	62 2650	21 N.GAMMA
79-AU-197	23	1.000-	8	8.000-	6	65 1994	34 N.GAMMA
79-AU-197	23	1.000-	8	3.500-	2	64 1956	208 N.GAMMA
79-AU-197	23	2.530-	8	2.530-	8	47 888	1 N.GAMMA
79-AU-197	23	2.530-	8	2.530-	8	68 1990	1 N.GAMMA
79-AU-197	23	1.800-	7	4.100-	2	63 1960	99 N.GAMMA
79-AU-197	23	2.000-	4	3.460-	2	70 3315	26 N.GAMMA
79-AU-197	23	2.300-	4	7.500-	3	61 718	42 N.GAMMA
79-AU-197	23	9.576-	4	1.107+	0	70 3063	95 N.GAMMA
79-AU-197	23	1.000-	3	1.700-	2	60 616	11 N.GAMMA
79-AU-197	23	1.500-	3	2.000-	1	60 727	13 N.GAMMA
79-AU-197	23	5.500-	3	8.200-	2	74 4060	32 N.GAMMA
79-AU-197	23	6.870-	3	2.470-	1	73 3829	15 N.GAMMA
79-AU-197	23	9.400-	3	1.670-	1	61 677	51 N.GAMMA
79-AU-197	23	1.030-	2	1.610-	1	67 1547	72 N.GAMMA
79-AU-197	23	1.280-	2	6.834-	1	65 1958	15 N.GAMMA
79-AU-197	23	1.310-	2	6.912-	1	70 760	15 N.GAMMA
79-AU-197	23	1.520-	2	5.580-	2	68 3301	18 N.GAMMA
79-AU-197	23	1.800-	2	3.000-	1	62 1407	8 N.GAMMA
79-AU-197	23	2.100-	2	2.100-	2	57 23	1 N.GAMMA
79-AU-197	23	2.100-	2	2.100-	2	58 43	1 N.GAMMA
79-AU-197	23	2.370-	2	2.370-	2	75 3909	1 N.GAMMA
79-AU-197	23	2.400-	2	2.400-	2	57 305	1 N.GAMMA
79-AU-197	23	2.400-	2	2.400-	2	65 867	1 N.GAMMA
79-AU-197	23	2.430-	2	2.430-	2	74 3565	1 N.GAMMA
79-AU-197	23	2.500-	2	2.500-	2	60 639	1 N.GAMMA
79-AU-197	23	2.500-	2	2.500-	2	62 697	1 N.GAMMA
79-AU-197	23	2.500-	2	2.200-	1	60 633	2 N.GAMMA
79-AU-197	23	3.000-	2	3.000-	2	63 799	1 N.GAMMA
79-AU-197	23	3.000-	2	6.400-	2	61 684	3 N.GAMMA
79-AU-197	23	3.000-	2	6.400-	2	66 1955	2 N.GAMMA
79-AU-197	23	3.000-	2	6.500-	2	63 1	2 N.GAMMA
79-AU-197	23	3.000-	2	1.500+	0	61 680	21 N.GAMMA
79-AU-197	23	3.000-	2	3.970+	0	61 759	26 N.GAMMA
79-AU-197	23	3.230-	2	1.323+	0	71 3821	10 N.GAMMA
79-AU-197	23	1.210-	1	1.610+	0	71 3498	15 N.GAMMA
79-AU-197	23	1.210-	1	2.730+	0	74 3453	23 N.GAMMA
79-AU-197	23	1.250-	1	1.820-	1	67 1807	3 N.GAMMA
79-AU-197	23	1.270-	1	1.789+	0	64 1954	11 N.GAMMA
79-AU-197	23	1.430-	1	1.223+	0	65 1952	12 N.GAMMA
79-AU-197	23	1.500-	1	1.000+	0	59 607	3 N.GAMMA
79-AU-197	23	1.500-	1	5.500+	0	59 663	21 N.GAMMA
79-AU-197	23	1.750-	1	1.000+	0	60 674	7 N.GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E	MIN-NEV	E	MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
79-AU-197	23	1	800-	1	1,800-	1	59 524	1	N, GAMMA
79-AU-197	23	1	950-	1	1,950-	1	59 526	1	N, GAMMA
79-AU-197	23	2	000-	1	2,000-	1	58 363	1	N, GAMMA
79-AU-197	23	4	000-	1	3,000+	0	74 3896	19	N, GAMMA
79-AU-197	23	4	000-	1	3,500+	0	74 3535	18	N, GAMMA
79-AU-197	23	1	730+	0	3,000+	0	44 260	2	N, GAMMA
79-AU-197	23	2	000+	0	3,000+	0	67 1991	1	N, GAMMA
79-AU-197	23	1	400+	1	1,400-	1	71 3194	1	N, GAMMA
79-AU-198	23	2	530-	8	2,530-	8	51 8844	1	N, GAMMA
79-AU-198	23	2	40-	2	2,400-	2	60 639	1	N, GAMMA
80-HG-NAT	23	2	400-	2	8,300-	1	60 633	3	N, GAMMA
80-HG-NAT	23	3	000-	2	6,500-	2	61 677	2	N, GAMMA
80-HG-NAT	23	3	400-	2	3,000-	1	62 1407	5	N, GAMMA
80-HG-NAT	23	2	000-	1	2,000-	1	58 363	1	N, GAMMA
80-HG-195	23	2	530-	8	2,530-	8	52 6956	1	N, GAMMA
80-HG-195	23	2	400-	2	2,400-	2	57 762	1	N, GAMMA
80-HG-195	23	1	950-	1	1,950-	1	50 525	1	N, GAMMA
80-HG-195	23	2	530-	8	2,530-	8	47 888	1	N, GAMMA
80-HG-204	23	2	400-	2	2,400-	2	66 1788	2	N, GAMMA
80-HG-204	23	7	400-	7	4,200-	2	64 1958	120	N, GAMMA
81-TL-NAT	23	3	000-	2	6,500-	2	61 677	2	N, GAMMA
81-TL-NAT	23	1	000-	1	4,000-	1	71 3821	2	N, GAMMA
81-TL-203	23	1	000-	6	3,500-	2	64 1966	55	N, GAMMA
81-TL-205	23	2	100-	2	2,100-	2	64 1966	20	N, GAMMA
81-TL-205	23	2	400-	2	2,400-	2	58 43	1	N, GAMMA
81-TL-205	23	2	800-	2	2,700+	0	68 2856	1	N, GAMMA
81-TL-205	23	2	500+	0	4,000+	0	60 738	41	N, GAMMA
81-TL-205	23	1	450+	1	1,450+	1	58 1044	3	N, GAMMA
82-PB-NAT	23	2	400-	2	2,400-	2	57 521	1	N, GAMMA
82-PB-NAT	23	3	000-	2	6,500-	2	60 639	1	N, GAMMA
82-PB-NAT	23	3	000-	2	6,500-	2	61 677	2	N, GAMMA
82-PB-NAT	23	1	750-	1	1,000+	0	60 674	7	N, GAMMA
82-PB-204	23	1	410+	1	1,410+	1	69 2220	1	N, GAMMA
82-PB-204	23	1	950+	2	1,950+	3	71 3220	1	N, GAMMA
82-PB-206	23	1	360-	2	5,800-	2	64 998	5	N, GAMMA
82-PB-206	23	2	400-	2	2,400-	2	66 1788	42	N, GAMMA
82-PB-208	23	2	000-	1	4,000+	0	58 363	3	N, GAMMA
82-PB-208	23	7	200+	0	1,470+	1	72 3446	8	N, GAMMA
82-PB-208	23	1	340+	1	1,100+	1	57 1695	8	N, GAMMA
82-PB-208	23	1	450+	1	1,450+	1	71 3194	1	N, GAMMA
82-PB-208	23	9	000-	3	4,500+	2	57 521	26	N, GAMMA
83-BI-209	23	3	000-	2	3,500-	2	64 454	2	N, GAMMA
83-BI-209	23	3	000-	2	3,500-	2	63 1	1	N, GAMMA
83-BI-209	23	1	000+	0	3,000+	0	50 325	1	N, GAMMA
83-BI-209	23	1	000+	0	3,000+	0	50 325	1	N, GAMMA
88-SA-226	23	2	530-	8	2,530-	8	52 6046	1	N, GAMMA

TARGET CODE S E MIN-NEV F MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
90-Ti-230	23	2.500-	8	2.500-	8	69 2362	1 N, GAMMA
90-Ti-230	23	2.530-	8	2.530-	8	52 1201	1 N, GAMMA
90-Ti-230	23	2.530-	9	2.530-	8	58 423	1 N, GAMMA
90-Ti-232	23	2.530-	8	2.530-	8	55 191	1 N, GAMMA
90-Ti-232	23	2.530-	8	2.530-	8	57 337	1 N, GAMMA
90-Ti-232	23	9.800-	8	3.400-	6	68 2084	47 N, GAMMA
N 90-Ti-232	23	2.000-	4	3.460-	2	70 3315	26 N, GAMMA
90-Ti-232	23	2.000-	3	2.000-	3	69 2096	1 N, GAMMA
90-Ti-232	23	3.000-	3	3.900-	1	46 313	9 N, GAMMA
90-Ti-232	23	5.500-	3	1.000-	1	63 1438	10 N, GAMMA
90-Ti-232	23	5.500-	3	1.480-	1	63 1510	98 N, GAMMA
90-Ti-232	23	1.000-	2	5.850-	2	64 454	127 N, GAMMA
90-Ti-232	23	1.700-	2	6.300-	1	57 236	19 N, GAMMA
90-Ti-232	23	2.400-	2	2.400-	2	57 305	1 N, GAMMA
90-Ti-232	23	2.400-	2	2.400-	2	65 867	1 N, GAMMA
90-Ti-232	23	3.000-	2	9.500-	1	61 715	27 N, GAMMA
90-Ti-232	23	3.000-	2	3.970+	0	61 759	26 N, GAMMA
90-Ti-232	23	1.000-	1	1.230+	0	59 1422	24 N, GAMMA
N 90-Ti-232	23	1.210-	1	1.660+	0	71 3498	14 N, GAMMA
N 90-Ti-232	23	1.210-	1	2.730+	0	74 3498	29 N, GAMMA
90-Ti-232	23	1.910-	1	1.170+	0	63 774	22 N, GAMMA
90-Ti-232	23	2.000-	1	2.000-	1	58 363	2 N, GAMMA
90-Ti-232	23	2.200-	1	2.200-	1	60 633	1 N, GAMMA
90-Ti-232	23	3.000-	1	1.200+	0	59 627	10 N, GAMMA
90-Ti-232	23	1.450+	1	1.450+	1	57 521	1 N, GAMMA
N 91-PA-231	23	2.530-	8	2.530-	8	72 4030	1 N, GAMMA
91-PA-233	23	2.530-	8	2.530-	8	62 1483	1 N, GAMMA
91-PA-233	23	2.530-	8	2.530-	8	70 2109	1 N, GAMMA
N 92-U-232	23	2.530-	8	2.530-	8	71 3943	1 N, GAMMA
92-U-233	23	1.679-	8	1.063-	6	69 2514	50 N, GAMMA
92-U-233	23	1.879-	8	1.063-	6	70 3155	50 N, GAMMA
92-U-233	23	2.530-	8	2.530-	8	46 1313	1 N, GAMMA
92-U-233	23	2.530-	8	2.530-	8	63 1441	1 N, GAMMA
N 92-U-233	23	2.530-	8	2.530-	8	71 3931	1 N, GAMMA
C 92-U-233	23	3.500-	8	1.104-	5	65 1011	659 N, GAMMA
C 92-U-233	23	4.050-	7	2.048-	3	68 1025	2982 N, GAMMA
92-U-233	23	3.000-	2	1.000+	0	62 709	9 N, GAMMA
92-U-234	23	2.530-	8	2.530-	8	70 2915	1 N, GAMMA
92-U-235	23	2.530-	8	2.530-	8	60 360	1 N, GAMMA
C 92-U-235	23	3.500-	8	2.001-	4	65 1011	2399 N, GAMMA
C 92-U-235	23	4.043-	7	3.024-	3	67 1025	5342 N, GAMMA
C 92-U-235	23	8.050-	6	1.995-	4	72 3262	2404 N, GAMMA
92-U-235	23	1.230-	2	6.900-	1	64 1297	26 N, GAMMA
92-U-235	23	1.770-	2	6.000-	1	66 1025	41 N, GAMMA
92-U-235	23	2.400-	2	2.400-	2	65 1342	1 N, GAMMA
92-U-235	23	2.400-	2	8.800-	1	58 1338	3 N, GAMMA
92-U-235	23	2.400-	2	9.070-	1	56 1360	5 N, GAMMA
92-U-235	23	3.000-	2	1.000+	0	62 709	9 N, GAMMA
92-U-235	23	1.800-	1	1.000+	0	58 1301	9 N, GAMMA
92-U-236	23	1.070-	8	1.600-	2	68 1531	57 N, GAMMA
92-U-236	23	2.500-	8	2.500-	8	55 1127	1 N, GAMMA
92-U-236	23	2.500-	8	2.500-	8	58 438	1 N, GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U	-236	23	2.530-8	2.530-8	58 1163	1	N, GAMMA
92-U	-236	23	3.000-1	1.446-0	61 648	7	N, GAMMA
92-U	-236	23	3.600-1	3.970-0	61 712	14	N, GAMMA
92-U	-238	23	2.530-8	2.530-8	58 191	1	N, GAMMA
92-U	-238	23	2.530-8	2.530-8	55 1415	1	N, GAMMA
92-U	-238	21	2.530-8	2.530-8	68 2156	1	N, GAMMA
92-U	-238	23	5.250-8	9.173-3	65 1355	122	N, GAMMA
92-U	-238	23	2.000-4	3.460-2	70 3315	26	N, GAMMA
92-U	-238	23	5.500-2	19.500-2	69 2518	23	N, GAMMA
92-U	-238	23	1.005-3	7.520-1	70 3063	93	N, GAMMA
92-U	-238	23	2.000-3	2.000-3	69 2086	1	N, GAMMA
92-U	-238	23	3.000-3	2.200-1	60 727	17	N, GAMMA
92-U	-238	23	5.000-3	2.900-0	46 313	14	N, GAMMA
92-U	-238	23	6.050-3	9.700-2	63 1880	92	N, GAMMA
92-U	-238	23	1.008-3	5.835-2	64 454	125	N, GAMMA
92-U	-238	23	1.300-3	1.700-1	63 1438	10	N, GAMMA
92-U	-238	23	1.800-3	3.000-1	62 1407	8	N, GAMMA
92-U	-238	23	2.000-3	1.200-0	74 3535	54	N, GAMMA
92-U	-238	23	2.300-3	2.300-2	69 2190	1	N, GAMMA
92-U	-238	23	2.370-3	2.370-2	75 3909	1	N, GAMMA
92-U	-238	23	2.400-3	2.400-2	57 305	1	N, GAMMA
92-U	-238	23	2.430-3	2.430-2	74 3565	1	N, GAMMA
92-U	-238	23	2.440-3	5.030-1	68 1547	9	N, GAMMA
92-U	-238	23	2.500-3	8.300-1	60 633	3	N, GAMMA
92-U	-238	23	2.900-3	8.400-1	59 1402	10	N, GAMMA
92-U	-238	23	3.000-3	6.400-2	62 1462	2	N, GAMMA
92-U	-238	23	3.000-3	6.500-2	61 677	2	N, GAMMA
92-U	-238	23	3.000-3	6.500-2	63 1	2	N, GAMMA
92-U	-238	23	3.000-3	9.000-1	59 2523	4	N, GAMMA
92-U	-238	23	1.210-1	2.730-0	71 3498	53	N, GAMMA
92-U	-238	23	1.210-1	2.730-0	74 3498	23	N, GAMMA
92-U	-238	23	1.210-1	7.600-0	64 1401	13	N, GAMMA
92-U	-238	23	1.750-1	1.000-0	60 674	7	N, GAMMA
92-U	-238	23	1.950-1	1.950-1	59 526	1	N, GAMMA
92-U	-238	23	2.000-1	4.000-0	58 363	3	N, GAMMA
92-U	-238	23	4.000-1	4.000-1	71 3821	2	N, GAMMA
92-U	-238	23	4.000-1	3.000-0	45 1403	5	N, GAMMA
92-U	-238	23	1.200+0	4.000-0	72 4019	11	N, GAMMA
92-U	-238	23	5.000+0	2.000-1	72 4048	7	N, GAMMA
92-U	-238	23	1.400+1	1.400-1	71 2194	1	N, GAMMA
92-U	-238	23	1.450+1	1.450-1	57 521	1	N, GAMMA
93-NP	-237	23	2.530-8	2.530-8	56 166	1	N, GAMMA
93-NP	-237	23	1.210-1	7.790-1	71 3498	7	N, GAMMA
93-NP	-237	23	1.210-1	2.730-0	74 3498	23	N, GAMMA
93-NP	-237	23	1.520-1	1.505-0	67 115	8	N, GAMMA
94-PU	-238	23	2.500-8	2.500-8	57 1348	1	N, GAMMA
94-PU	-238	23	1.779-5	1.993-1	71 3273	3460	N, GAMMA
94-PU	-239	23	1.919-8	1.987-6	70 2106	595	N, GAMMA
94-PU	-239	23	2.530-8	2.530-8	63 1453	1	N, GAMMA
94-PU	-239	23	2.530-8	2.530-8	66 1131	1	N, GAMMA
94-PU	-239	23	2.003-6	1.976-3	71 2106	2549	N, GAMMA
94-PU	-239	23	1.006-4	2.864-2	69 2358	304	N, GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	94-PU-239	23		2.000-4	6.000-3	70 3315	22	N.GAMMA
	94-PU-239	23		1.770-2	6.000-1	66 1025	41	N.GAMMA
	94-PU-239	23		2.400-2	2.400-2	65 1342	1	N.GAMMA
	94-PU-239	23		2.400-2	2.400-1	58 1338	2	N.GAMMA
	94-PU-239	23		2.400-2	9.000-1	56 1360	5	N.GAMMA
	94-PU-239	23		3.000-2	1.000+0	62 709	9	N.GAMMA
	94-PU-240	23		2.530-8	2.530-8	60 1171	1	N.GAMMA
	94-PU-240	23		2.530-8	2.530-8	66 1131	1	N.GAMMA
	94-PU-240	23		2.530-8	2.530-8	70 2515	1	N.GAMMA
N	94-PU-240	23		3.482-3	3.668-1	73 3828	2488	N.GAMMA
	94-PU-241	23		2.530-8	2.530-8	66 1131	1	N.GAMMA
	94-PU-242	23		2.500-8	2.500-8	57 1348	1	N.GAMMA
	94-PU-242	23		2.530-8	2.530-8	69 2914	1	N.GAMMA
N	94-PU-242	23		6.271-3	8.530-2	74 3540	250	N.GAMMA
	95-AM-242	23		2.500-8	2.500-8	50 1476	1	N.GAMMA
	95-AM-243	23		2.500-8	2.500-8	54 1474	1	N.GAMMA
	95-AM-243	23		2.500-8	2.500-8	57 1348	1	N.GAMMA
	96-CM-244	23		2.500-8	2.500-8	54 1474	1	N.GAMMA
C	96-CM-244	23		2.001-5	9.951-3	71 3062	3451	N.GAMMA
	96-CM-245	23		2.500-8	2.500-8	54 1474	1	N.GAMMA
	96-CM-245	23		2.500-8	2.500-8	69 3325	1	N.GAMMA
	96-CM-246	23		2.500-8	2.500-8	54 1474	1	N.GAMMA
	96-CM-246	23		2.500-8	2.500-8	69 3325	1	N.GAMMA
	96-CM-246	23		8.415-5	3.821-4	71 3062	107	N.GAMMA
	96-CM-248	23		2.522-5	1.002-4	71 3062	106	N.GAMMA
	98-CF-249	23		2.500-8	2.500-8	71 3323	1	N.GAMMA
	98-CF-250	23		2.500-8	2.500-8	71 3323	1	N.GAMMA
	98-CF-251	23		2.500-8	2.500-8	71 3323	1	N.GAMMA
	98-CF-252	23		2.530-8	2.530-8	69 2102	1	N.GAMMA
N	11-NA-23	23	2	9.200-1	3.950+0	72 3857	3	N.GAMMA
	32-GE-74	23	2	3.000+0	3.000+0	68 2345	1	N.GAMMA
N	32-GE-76	23	2	2.400-2	2.400-2	66 1788	1	N.GAMMA
	32-GE-76	23	2	2.400-2	2.400-2	68 2392	1	N.GAMMA
	34-GE-82	23	2	2.400-2	2.400-2	66 1788	1	N.GAMMA
	45-RH-103	23	2	2.530-8	2.530-8	66 2150	1	N.GAMMA
	45-RH-103	23	2	2.400-2	2.400-2	66 1788	1	N.GAMMA
	45-RH-103	23	2	1.400-1	1.650+0	64 2069	21	N.GAMMA
	45-RH-103	23	2	1.750-1	1.700+0	61 669	20	N.GAMMA
	45-RH-103	23	2	2.500+0	4.000+0	58 1041	3	N.GAMMA
	45-RH-103	23	2	1.467+1	1.467+1	63 749	1	N.GAMMA
	47-AO-109	23	2	2.400-2	2.400-2	66 1788	1	N.GAMMA
	49-IN-113	23	2	2.400-2	2.400-2	66 1788	1	N.GAMMA
	49-IN-113	23	2	3.680-1	1.022+0	68 1096	11	N.GAMMA
	49-IN-115	23	2	2.530-8	2.530-8	65 2738	1	N.GAMMA
	49-IN-115	23	2	2.400-2	2.400-2	65 867	1	N.GAMMA
	49-IN-115	23	2	2.400-2	3.100+0	63 749	2	N.GAMMA
	49-IN-115	23	2	1.500-1	1.400+0	64 2069	14	N.GAMMA
	49-IN-115	23	2	3.650-1	1.019+0	68 1096	11	N.GAMMA
	68-ER-166	23	2	2.330-8	2.530-8	64 2645	1	N.GAMMA
	72-HF-177	23	2	2.530-8	2.530-8	62 2638	1	N.GAMMA
	72-HF-178	23	2	2.530-8	2.530-8	62 2638	1	N.GAMMA
N	75-PT-198	23	2	1.500+1	1.500+1	73 4000	1	N.GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	95-AM-241	23	2	3.000-1	6.800+0	70 1526	9	N, GAMMA
	95-AM-243	23	2	3.000-1	4.000+0	69 2900	13	N, GAMMA
N	13-AL-27	23	3	2.400-2	2.400-2	68 2856	1	N, GAMMA
	17-CL-37	23	3	2.530-8	2.530-8	47 888	1	N, GAMMA
	17-CL-37	23	3	2.400-2	2.400-2	57 305	1	N, GAMMA
N	17-CL-37	23	3	2.400-2	2.400-2	68 2856	1	N, GAMMA
	27-CO-59	23	3	2.530-8	2.530-8	51 2568	1	N, GAMMA
	27-CO-59	23	3	1.800-1	2.600+0	59 663	14	N, GAMMA
N	27-CO-59	23	3	1.780+0	1.400+1	67 3786	4	N, GAMMA
	30-ZN-68	23	3	2.100-2	2.100-2	57 23	1	N, GAMMA
	30-ZN-68	23	3	2.400-2	2.400-2	66 1788	1	N, GAMMA
	30-ZN-68	23	3	2.900+0	2.900+0	68 3375	1	N, GAMMA
	32-GE-74	23	3	2.530-8	2.530-8	47 888	1	N, GAMMA
	32-GE-74	23	3	2.400-2	2.400-2	57 305	1	N, GAMMA
	32-GE-74	23	3	2.400-2	2.400-2	66 1788	1	N, GAMMA
	32-GE-74	23	3	2.500+0	4.000+0	58 1044	3	N, GAMMA
	32-GE-74	23	3	3.000+0	3.000+0	68 2345	1	N, GAMMA
	34-SE-80	23	3	1.100-2	3.380-1	69 2994	14	N, GAMMA
	34-SE-80	23	3	2.400-2	2.400-2	66 1788	2	N, GAMMA
	34-SE-80	23	3	3.000+0	3.000+0	68 2345	2	N, GAMMA
	34-SE-82	23	3	2.530-8	2.530-8	47 888	1	N, GAMMA
	35-BR-79	23	3	2.400-2	2.400-2	65 1788	1	N, GAMMA
	35-BR-79	23	3	1.600-1	1.485+0	64 2069	17	N, GAMMA
	35-BR-79	23	3	1.800-1	3.000+0	59 663	17	N, GAMMA
	35-BR-81	23	3	3.000+0	3.000+0	68 2345	1	N, GAMMA
	37-RB-85	23	3	1.560-1	1.484+0	69 2533	28	N, GAMMA
	37-RB-85	23	3	2.800+0	2.800+0	67 2602	1	N, GAMMA
N	37-RB-87	23	3	2.400-2	2.400-2	68 2856	1	N, GAMMA
	41-NB-93	23	3	2.530-8	2.530-8	47 888	1	N, GAMMA
	41-NB-93	23	3	1.450+1	1.450+1	62 3169	1	N, GAMMA
	41-NB-93	23	3	1.480+1	1.480+1	63 756	1	N, GAMMA
	45-RH-103	23	3	2.530-8	2.530-8	66 2150	1	N, GAMMA
	45-RH-103	23	3	2.400-2	2.400-2	66 1788	1	N, GAMMA
	45-RH-103	23	3	1.400-1	1.650+0	64 2069	21	N, GAMMA
	45-RH-103	23	3	1.750-1	1.700+0	61 669	19	N, GAMMA
	45-RH-103	23	3	2.500+0	4.000+0	58 1044	3	N, GAMMA
	45-RH-103	23	3	3.000+0	3.000+0	67 1991	1	N, GAMMA
	46-PD-108	23	3	2.400-2	2.400-2	68 2392	1	N, GAMMA
	46-PD-110	23	3	2.530-8	2.530-8	47 888	1	N, GAMMA
	46-PD-110	23	3	2.400-2	2.400-2	66 1788	1	N, GAMMA
	46-PD-110	23	3	2.500+0	4.000+0	58 1044	3	N, GAMMA
	47-AG-107	23	3	2.400-2	2.400-2	65 867	1	N, GAMMA
	47-AG-107	23	3	3.000+0	3.000+0	67 1991	1	N, GAMMA
	48-CD-115	23	3	2.400-2	2.400-2	66 1788	1	N, GAMMA
	49-IN-115	23	3	2.530-8	2.530-8	47 888	1	N, GAMMA
	49-IN-115	23	3	7.800-3	6.400-2	66 3019	3	N, GAMMA
	49-IN-115	23	3	2.100-2	2.100-2	57 23	1	N, GAMMA
	49-IN-115	23	3	2.400-2	2.400-2	65 867	1	N, GAMMA
	49-IN-115	23	3	2.430-2	2.430-2	74 3565	1	N, GAMMA
	49-IN-115	23	3	1.500-1	1.400+0	64 2069	13	N, GAMMA
	49-IN-115	23	3	1.600-1	6.200+0	59 663	28	N, GAMMA
	49-IN-115	23	3	1.950-1	1.950-1	59 526	1	N, GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 23

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

49-IN-115	23	3	3.610-1	1.017+1	68 1096	11	N.GAMMA
49-IN-115	23	3	9.700-1	1.933+1	67 1698	17	N.GAMMA
49-IN-115	23	3	2.800+0	2.800+0	67 2602	1	N.GAMMA
49-IN-115	23	3	2.900+0	2.900+0	68 3375	1	N.GAMMA
49-IN-115	23	3	3.000+0	3.000+0	67 1991	1	N.GAMMA
50-SN-122	23	3	2.400-2	2.400-2	68 2856	1	N.GAMMA
50-SN-122	23	3	2.000-1	3.128+0	69 4031	22	N.GAMMA
50-SN-122	23	3	2.500+0	4.000+0	58 1044	3	N.GAMMA
50-SN-122	23	3	9.000+3	3.130+0	69 4031	24	N.GAMMA
50-SN-124	23	3	2.400-2	2.400-2	68 2856	1	N.GAMMA
50-SN-124	23	3	2.400-2	2.400-2	68 2856	25	N.GAMMA
51-SN-127	23	3	1.100-2	3.128+0	69 2994	1	N.GAMMA
52-TE-128	23	3	2.400-2	2.400-2	66 1788	26	N.GAMMA
52-TE-130	23	3	1.100-2	3.128+0	69 2994	1	N.GAMMA
52-TE-130	23	3	2.400-2	2.400-2	68 2392	1	N.GAMMA
52-TE-130	23	3	3.000+0	3.000+0	69 2345	1	N.GAMMA
53-1-127	23	3	3.800+0	2.600+0	73 3824	1	N.GAMMA
58-BA-138	23	3	1.400+1	1.980+0	70 3009	1	N.GAMMA
58-BA-141	23	3	3.000+0	3.000+0	69 5345	1	N.GAMMA
66-DY-164	23	3	2.530-8	2.530-8	72 2679	2	N.GAMMA
66-DY-164	23	3	1.400-2	1.480+1	68 2392	1	N.GAMMA
71-1-181	23	3	2.530-8	2.530-8	60 2642	1	N.GAMMA
73-TA-181	23	3	1.300-1	1.700+0	64 2645	1	N.GAMMA
73-TA-181	23	3	4.300-1	2.644+0	64 2645	25	N.GAMMA
77-RE-187	23	3	2.530-8	2.530-8	68 2298	27	N.GAMMA
77-RE-187	23	3	2.530-8	2.530-8	47 888	1	N.GAMMA
78-PT-198	23	3	2.530-8	2.530-8	47 888	1	N.GAMMA
78-PT-198	23	3	2.100-2	2.100-2	57 23	1	N.GAMMA
78-PT-198	23	3	2.400-2	2.400-2	66 1788	1	N.GAMMA
78-PT-198	23	3	1.500+1	1.500+1	73 4000	1	N.GAMMA
91-PA-233	23	3	2.530-8	2.530-8	58 1163	1	N.GAMMA
95-AP-243	23	3	2.500-8	2.500-8	50 1476	1	N.GAMMA
11-NA-23	23	4	2.530-8	2.530-8	47 888	1	N.GAMMA
11-NA-23	23	4	2.530-8	2.530-8	56 2825	1	N.GAMMA
11-NA-23	23	4	2.100-2	2.100-2	57 23	1	N.GAMMA
11-NA-23	23	4	2.400-2	2.400-2	57 305	1	N.GAMMA
11-NA-23	23	4	2.400-2	2.400-2	68 2856	1	N.GAMMA
29-CU-23	23	4	2.400-2	2.400-2	68 2856	1	N.GAMMA
30-ZN-68	23	4	2.100-2	2.100-2	57 23	1	N.GAMMA
31-GA-71	23	4	2.400-2	2.400-2	66 1788	1	N.GAMMA
31-GA-71	23	4	2.530-8	2.530-8	47 888	1	N.GAMMA
31-GA-71	23	4	1.480+1	1.480+1	70 4008	1	N.GAMMA
32-GE-76	23	4	2.530-8	2.530-8	47 888	1	N.GAMMA
32-GE-76	23	4	2.400-2	2.400-2	47 2699	1	N.GAMMA
32-GE-76	23	4	2.530-8	2.530-8	46 1788	1	N.GAMMA
32-GE-76	23	4	2.400-2	2.400-2	68 2392	1	N.GAMMA
33-AS-75	23	4	2.100-2	2.100-2	57 23	1	N.GAMMA
33-AS-75	23	4	2.400-2	2.400-2	68 2856	1	N.GAMMA
33-AS-75	23	4	1.480+1	1.480+1	70 4008	1	N.GAMMA
35-BR-79	23	4	2.400-2	2.400-2	66 1788	1	N.GAMMA
35-BR-79	23	4	1.600-1	1.500+0	64 2089	16	N.GAMMA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
35-BR-79	23	4	1.800-1	2.700+0	59 663	13	N, GAMMA
35-BR-81	23	4	2.400-2	2.400-2	66 1788	1	N, GAMMA
38-SR-86	23	4	2.530-8	2.530-8	47 888	1	N, GAMMA
38-SR-86	23	4	1.800-1	3.200-1	59 663	4	N, GAMMA
39-Y-89	23	4	2.530-8	2.530-8	47 888	1	N, GAMMA
39-Y-89	23	4	4.510-3	1.480+1	67 2117	26	N, GAMMA
39-Y-89	23	4	2.100-2	2.100-2	57 23	1	N, GAMMA
39-Y-89	23	4	2.400-2	2.400-2	68 2856	1	N, GAMMA
39-Y-89	23	4	1.620-1	1.449+0	69 2533	24	N, GAMMA
39-Y-89	23	4	1.480+1	1.480+1	63 756	1	N, GAMMA
42-MO-98	23	4	2.400-2	2.400-2	68 2856	1	N, GAMMA
44-RU-104	23	4	2.400-2	2.400-2	66 1788	1	N, GAMMA
46-PD-108	23	4	2.530-8	2.530-8	47 888	1	N, GAMMA
46-PD-108	23	4	2.100-2	2.100-2	57 23	1	N, GAMMA
46-PD-108	23	4	2.400-2	2.400-2	57 305	1	N, GAMMA
46-PD-108	23	4	2.400-2	2.400-2	68 2392	1	N, GAMMA
48-CD-114	23	4	2.400-2	2.400-2	65 867	1	N, GAMMA
50-SN-120	23	4	2.400-2	2.400-2	68 2856	1	N, GAMMA
52-TE-126	23	4	2.400-2	2.400-2	65 867	1	N, GAMMA
53-I-127	23	4	1.480+1	1.480+1	70 4008	1	N, GAMMA
55-CS-133	23	4	2.100-2	2.100-2	57 23	1	N, GAMMA
55-CS-133	23	4	1.420-1	1.230+0	67 2493	8	N, GAMMA
55-CS-133	23	4	2.600+0	2.600+0	63 3824	1	N, GAMMA
59-PR-141	23	4	3.000+0	3.000+0	68 2345	1	N, GAMMA
59-PR-141	23	4	1.480+1	1.480+1	63 756	1	N, GAMMA
59-PR-141	23	4	1.480+1	1.480+1	70 4008	1	N, GAMMA
63-EU-151	23	4	2.074-8	4.600-7	71 3695	9	N, GAMMA
63-EU-151	23	4	1.750-1	2.600+0	59 663	14	N, GAMMA
66-DY-164	23	4	2.100-2	2.100-2	57 23	1	N, GAMMA
66-DY-164	23	4	2.400-2	2.400-2	68 2392	1	N, GAMMA
66-DY-164	23	4	1.500-1	5.500+0	59 663	17	N, GAMMA
66-DY-164	23	4	1.480+1	1.480+1	60 672	1	N, GAMMA
67-HO-165	23	4	2.530-8	2.530-8	47 888	1	N, GAMMA
67-HO-165	23	4	2.530-8	2.530-8	62 2972	1	N, GAMMA
67-HO-165	23	4	2.400-2	2.400-2	65 867	1	N, GAMMA
67-HO-165	23	4	1.800-1	5.500+0	59 663	15	N, GAMMA
67-HO-165	23	4	9.700-1	1.939+1	67 1698	17	N, GAMMA
67-HO-165	23	4	3.000+0	3.000+0	67 1991	1	N, GAMMA
67-HO-165	23	4	1.340+1	1.500+1	67 1695	8	N, GAMMA
71-LU-175	23	4	2.530-8	2.530-8	69 3678	1	N, GAMMA
71-LU-175	23	4	2.400-2	2.400-2	65 867	1	N, GAMMA
71-LU-175	23	4	1.410-1	3.133+0	67 2694	18	N, GAMMA
71-LU-175	23	4	1.480+1	1.480+1	60 672	1	N, GAMMA
74-W-186	23	4	2.530-8	2.530-8	67 3676	1	N, GAMMA
75-RE-187	23	4	2.530-8	2.530-8	47 888	1	N, GAMMA
75-RE-187	23	4	2.400-2	2.400-2	66 1788	1	N, GAMMA
76-OS-192	23	4	1.470+1	1.470+1	75 4003	1	N, GAMMA
77-IR-193	23	4	2.530-8	2.530-8	47 888	1	N, GAMMA
77-IR-193	23	4	2.400-2	2.400-2	66 1788	1	N, GAMMA
78-PT-196	23	4	2.100-2	2.100-2	57 23	1	N, GAMMA
78-PT-196	23	4	2.400-2	2.400-2	66 1788	1	N, GAMMA
80-HG-196	23	4	2.530-8	2.530-8	67 3722	2	N, GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 23

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 23

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 95-AM-241	23	4	2.530-8	2.530-8	73 3503	1	N, GAMMA
21-SC-45	23	5	2.530-8	2.530-8	47 888	1	N, GAMMA
21-SC-45	23	5	2.100-2	2.100-2	57 23	1	N, GAMMA
37-RB-85	23	5	2.530-8	2.530-8	47 888	1	N, GAMMA
37-RB-85	23	5	2.400-2	2.400-2	57 305	1	N, GAMMA
N 47-AG-109	23	5	2.530-8	2.530-8	72 3727	1	N, GAMMA
47-AG-109	23	5	7.800-3	6.400-2	66 3019	3	N, GAMMA
48-CD-114	23	5	2.530-8	2.530-8	66 2622	2	N, GAMMA
49-IN-113	23	5	2.530-8	2.530-8	47 888	1	N, GAMMA
49-IN-113	23	5	7.800-3	6.400-2	66 3019	3	N, GAMMA
49-IN-113	23	5	2.100-2	2.100-2	57 23	1	N, GAMMA
49-IN-113	23	5	3.610-1	1.017+0	68 1096	11	N, GAMMA
50-SN-112	23	5	2.530-8	2.530-8	47 888	1	N, GAMMA
50-SN-124	23	5	9.000-3	3.380-1	69 2994	8	N, GAMMA
51-SB-121	23	5	7.800-3	6.400-2	66 3019	3	N, GAMMA
N 51-SB-121	23	5	1.100-2	3.130+0	69 4031	28	N, GAMMA
51-SB-121	23	5	2.100-2	2.100-2	57 23	1	N, GAMMA
51-SB-121	23	5	2.400-2	2.400-2	57 305	1	N, GAMMA
N 51-SB-121	23	5	2.400-2	2.400-2	68 2956	1	N, GAMMA
51-SB-121	23	5	1.950-1	1.950-1	59 526	1	N, GAMMA
51-SB-123	23	5	7.800-3	6.400-2	66 3019	3	N, GAMMA
51-SB-123	23	5	2.100-2	2.100-2	57 23	1	N, GAMMA
51-SB-123	23	5	1.950-1	1.950-1	59 526	1	N, GAMMA
N 51-SB-123	23	5	2.000-1	2.723+0	69 4031	18	N, GAMMA
52-TC-124	23	5	2.530-8	2.530-8	59 2672	1	N, GAMMA
52-TC-130	23	5	2.400-2	2.400-2	68 2392	1	N, GAMMA
54-XE-132	23	5	2.530-8	2.530-8	63 1010	1	N, GAMMA
61-PM-147	23	5	1.000-5	1.000-5	66 2227	2	N, GAMMA
N 61-PM-1480	23	5	2.530-8	2.530-8	69 3746	1	N, GAMMA
70-YB-174	23	5	2.530-8	2.530-8	63 2591	1	N, GAMMA
71-LU-176	23	5	2.530-8	2.530-8	47 888	1	N, GAMMA
71-LU-176	23	5	2.530-8	2.530-8	62 2634	1	N, GAMMA
73-TA-181	23	5	2.530-8	2.530-8	47 888	1	N, GAMMA
73-TA-181	23	5	2.100-2	2.100-2	57 23	1	N, GAMMA
74-W-184	23	5	2.530-8	2.530-8	47 888	1	N, GAMMA
74-W-184	23	5	2.100-2	2.100-2	57 23	1	N, GAMMA
76-OS-190	23	5	2.400-2	2.400-2	57 305	1	N, GAMMA
77-IR-191	23	5	2.530-8	2.530-8	47 888	1	N, GAMMA
83-B1-209	23	5	2.530-8	2.530-8	47 888	1	N, GAMMA
83-B1-209	23	5	2.100-2	2.100-2	57 23	1	N, GAMMA
83-B1-209	23	5	3.000-2	0.500-2	61 677	2	N, GAMMA
83-B1-209	23	5	4.000-1	4.000-1	60 674	1	N, GAMMA
83-B1-209	23	5	1.450+1	1.450+1	57 521	1	N, GAMMA
83-B1-209	23	5	1.470+1	1.470+1	67 1695	1	N, GAMMA
27-CO-59	23	6	2.530-8	2.530-8	51 2567	1	N, GAMMA
27-CO-59	23	6	2.530-8	2.530-8	51 2568	1	N, GAMMA
27-CO-59	23	6	2.530-8	2.530-8	68 2479	1	N, GAMMA
55-CS-133	23	6	2.100-2	2.100-2	57 23	1	N, GAMMA
N 72-HF-177	23	6	2.530-8	2.530-8	73 3455	1	N, GAMMA
95-AM-241	23	6	2.500-8	2.500-8	50 1476	1	N, GAMMA
N 95-AM-241	23	6	2.530-8	2.530-8	73 3503	1	N, GAMMA
N 52-TE-123M	23	7	2.500-8	2.500-8	75 3563	2	N, GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 23

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 62-SM-152	23	7	2.530	8	2.530	8	71 3517 104 N.GAMMA
82-PB-204	23	7	1.950	3	1.950	3	71 3220 8 N.GAMMA
62-PB-207	23	7	1.950	3	1.950	3	71 3220 1 N.GAMMA
N 1-H-1	23	9	2.530	8	2.530	8	62 3275 1 N.GAMMA
N 32-OS-74	23	11	2.500	2	2.500	2	72 3965 2 N.GAMMA
N 34-SF-80	23	11	2.500	2	2.500	2	72 3965 2 N.GAMMA
N 35-BR-79	23	11	2.500	2	2.500	2	72 3965 2 N.GAMMA
N 37-RB-85	23	11	2.500	2	2.500	2	72 3965 2 N.GAMMA
N 45-TA-103	23	11	2.500	2	2.500	2	72 3965 2 N.GAMMA
N 51-SB-121	23	11	2.500	2	2.500	2	72 3965 2 N.GAMMA
N 63-EU-151	23	11	2.500	2	2.500	2	72 3965 2 N.GAMMA
N 66-DY-164	23	11	2.500	2	2.500	2	72 3965 2 N.GAMMA
N 14-SI-30	23	87	2.500	8	2.500	8	72 3417 14 N.GAMMA
N 16-S-34	23	87	2.500	8	2.500	8	72 3417 21 N.GAMMA
N 26-FC-58	23	87	2.500	8	2.500	8	71 3416 13 N.GAMMA
N 38-SK-06	23	87	2.500	8	2.500	8	72 3418 31 N.GAMMA
N 40-ZR-92	23	87	2.500	8	2.500	8	72 3418 14 N.GAMMA
73-TA-181	23	87	2.000	3	2.000	3	71 3211 70 N.GAMMA
4-BE-9	24		3.200	0	3.200	0	54 113 1 N.X GAMMA
4-BE-9	24		1.400	1	1.400	1	58 405 1 N.X GAMMA
6-C-12	24		1.420	1	1.420	1	53 294 1 N.X GAMMA
7-N-NAT	24		1.480	1	1.480	1	64 1730 1 N.X GAMMA
8-O-NAT	24		1.420	1	1.420	1	53 294 1 N.X GAMMA
8-O-NAT	24		1.480	1	1.480	1	64 1730 1 N.X GAMMA
N 12-MG-NAT	24		2.250	0	2.900	0	71 3747 7 N.X GAMMA
13-AI-27	24		2.250	0	2.900	0	41 194 7 N.X GAMMA
13-AL-27	24		1.420	1	1.420	1	53 294 1 N.X GAMMA
14-SI-NAT	24		2.250	0	2.900	0	41 194 7 N.X GAMMA
22-TI-NAT	24		1.100	0	3.210	0	65 1797 20 N.X GAMMA
26-FE-NAT	24		2.250	0	2.900	0	41 194 7 N.X GAMMA
26-FE-NAT	24		1.400	1	1.400	1	53 292 1 N.X GAMMA
26-FE-NAT	24		1.400	1	1.400	1	63 1723 1 N.X GAMMA
N 27-CO-59	24		2.250	0	2.900	0	71 3747 7 N.X GAMMA
28-NI-NAT	24		1.420	1	1.420	1	53 294 1 N.X GAMMA
29-CU-NAT	24		2.250	0	2.900	0	41 194 7 N.X GAMMA
29-CU-NAT	24		1.420	1	1.420	1	53 294 1 N.X GAMMA
47-AG-NAT	24		2.250	0	2.900	0	41 194 7 N.X GAMMA
48-CD-NAT	24		2.250	0	2.900	0	41 194 7 N.X GAMMA
48-CD-NAT	24		1.420	1	1.420	1	53 294 1 N.X GAMMA
62-PB-NAT	24		2.250	0	2.900	0	41 194 7 N.X GAMMA
62-PB-NAT	24		1.410	1	1.410	1	63 1723 1 N.X GAMMA
62-PB-NAT	24		1.420	1	1.420	1	53 294 1 N.X GAMMA
N 63-BI-209	24		2.250	0	2.900	0	71 3747 7 N.X GAMMA
92-U-235	24		1.090	0	1.480	1	66 1027 6 N.X GAMMA
92-U-238	24		1.090	0	1.480	1	66 1027 6 N.X GAMMA
92-U-238	24		1.090	0	1.480	1	66 1027 6 N.X GAMMA
94-PU-239	24		1.090	0	1.480	1	66 1027 6 N.X GAMMA
5-B-NAT	24	7	1.400	1	1.400	1	68 2997 10 N.X GAMMA
5-B-10	24	7	4.700	2	1.480	1	70 3324 31 N.X GAMMA
5-B-10	24	7	1.050	0	5.150	0	60 665 81 N.X GAMMA
5-B-10	24	7	2.560	0	2.560	0	56 140 1 N.X GAMMA
5-B-11	24	7	2.430	0	3.140	0	58 11 15 N.X GAMMA
6-C-12	24	7	5.830	0	7.500	0	70 1497 7 N.X GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 24

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
6-C -12	24	7	6.580+	0	6.580+ 0	56 140	1 N,X GAMMA
6-C -12	24	7	1.400+	1	1.400+ 1	60 583	1 N,X GAMMA
6-C -12	24	7	1.400+	1	1.400+ 1	60 833	1 N,X GAMMA
6-C -12	24	7	1.400+	1	1.400+ 1	60 1721	2 N,X GAMMA
5-C -12	24	7	1.400+	1	1.400+ 1	61 850	2 N,X GAMMA
6-C -12	24	7	1.400+	1	1.400+ 1	66 1839	5 N,X GAMMA
6-C -12	24	7	1.400+	1	1.400+ 1	68 2997	1 N,X GAMMA
6-C -12	24	7	1.410+	1	1.410+ 1	54 302	1 N,X GAMMA
6-C -12	24	7	1.410+	1	1.410+ 1	64 1666	1 N,X GAMMA
6-C -12	24	7	1.420+	1	1.420+ 1	53 294	4 N,X GAMMA
6-C -12	24	7	1.560+	1	1.600+ 1	65 1797	2 N,X GAMMA
7-N -NAT	24	7	2.530+	0	1.469+ 1	69 2512	109 N,X GAMMA
7-N -NAT	24	7	3.950+	0	3.950+ 0	56 140	1 N,X GAMMA
7-N -NAT	24	7	1.400+	1	1.400+ 1	68 2997	4 N,X GAMMA
7-N -NAT	24	7	1.480+	1	1.480+ 1	64 1730	16 N,X GAMMA
8-O -NAT	24	7	6.725+	0	1.525+ 1	69 2512	51 N,X GAMMA
8-O -NAT	24	7	7.060+	0	7.060+ 0	56 140	1 N,X GAMMA
8-O -NAT	24	7	1.400+	1	1.400+ 1	54 302	2 N,X GAMMA
8-O -NAT	24	7	1.400+	1	1.400+ 1	60 1721	5 N,X GAMMA
8-O -NAT	24	7	1.400+	1	1.400+ 1	66 1839	4 N,X GAMMA
8-O -NAT	24	7	1.400+	1	1.400+ 1	68 2997	3 N,X GAMMA
8-O -NAT	24	7	1.420+	1	1.420+ 1	53 294	3 N,X GAMMA
8-O -NAT	24	7	1.420+	1	1.480+ 1	64 1730	11 N,X GAMMA
8-O -16	24	7	1.400+	1	1.400+ 1	61 850	5 N,X GAMMA
9-F -19	24	7	1.000+	1	1.000+ 0	55 128	25 N,X GAMMA
9-F -19	24	7	1.320+	0	3.600+ 0	57 816	95 N,X GAMMA
9-F -19	24	7	2.500+	0	2.500+ 0	52 284	1 N,X GAMMA
9-F -19	24	7	2.560+	0	2.560+ 0	56 140	6 N,X GAMMA
9-F -19	24	7	1.400+	1	1.400+ 1	68 2997	6 N,X GAMMA
11-NA-23	24	7	4.000+	1	3.350+ 0	61 11	134 N,X GAMMA
11-NA-23	24	7	1.410+	1	1.410+ 1	65 1694	1 N,X GAMMA
12-MG-NAT	24	7	2.500+	0	2.500+ 0	52 284	1 N,X GAMMA
12-MG-NAT	24	7	2.560+	0	2.560+ 0	56 140	3 N,X GAMMA
12-MG-NAT	24	7	1.400+	1	1.400+ 1	60 833	1 N,X GAMMA
12-MG-24	24	7	2.900+	0	2.900+ 0	61 686	1 N,X GAMMA
12-MG-24	24	7	3.000+	0	4.350+ 0	65 1713	4 N,X GAMMA
12-MG-24	24	7	1.400+	1	1.400+ 1	64 1729	1 N,X GAMMA
12-MG-24	24	7	1.410+	1	1.410+ 1	64 1666	1 N,X GAMMA
13-AL-27	24	7	1.015+	0	2.788+ 0	54 111	208 N,X GAMMA
13-AL-27	24	7	2.560+	0	2.560+ 0	56 140	4 N,X GAMMA
13-AL-27	24	7	3.500+	0	3.500+ 0	68 2371	5 N,X GAMMA
13-AL-27	24	7	3.570+	0	4.570+ 0	65 1713	17 N,X GAMMA
13-AL-27	24	7	1.400+	1	1.400+ 1	60 1721	5 N,X GAMMA
13-AL-27	24	7	1.400+	1	1.400+ 1	61 850	5 N,X GAMMA
13-AL-27	24	7	1.400+	1	1.400+ 1	66 1839	9 N,X GAMMA
13-AL-27	24	7	1.400+	1	1.400+ 1	68 2997	4 N,X GAMMA
13-AL-27	24	7	1.410+	1	1.410+ 1	63 1723	5 N,X GAMMA
13-AL-27	24	7	1.420+	1	1.420+ 1	53 294	3 N,X GAMMA
14-SI-NAT	24	7	4.000+	0	7.500+ 0	69 2862	18 N,X GAMMA
14-SI-NAT	24	7	1.410+	1	1.410+ 1	63 1723	1 N,X GAMMA
14-SI-28	24	7	1.750+	0	3.000+ 0	61 11	26 N,X GAMMA
14-SI-28	24	7	3.000+	0	4.000+ 0	65 1713	3 N,X GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 24

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 24

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
14-SI-28	24	7	4.000+ 0	7.670+ 0	70 1497	23	N,X GAMMA
14-SI-28	24	7	1.410+ 1	1.410+ 1	65 1694	1	N,X GAMMA
14-SI-29	24	7	2.150+ 0	3.000+ 0	61 11	32	N,X GAMMA
14-SI-30	24	7	2.300+ 0	3.000+ 0	61 11	15	N,X GAMMA
16-S -NAT	24	7	2.500+ 0	2.500+ 0	51 284	1	N,X GAMMA
16-S -NAT	24	7	2.560+ 0	2.560+ 0	56 140	2	N,X GAMMA
16-S -NAT	24	7	1.410+ 1	1.410+ 1	63 1723	1	N,X GAMMA
17-CL-NAT	24	7	2.970+ 0	2.970+ 0	64 834	3	N,X GAMMA
18-AR-40	24	7	3.500+ 0	3.500+ 0	65 1731	5	N,X GAMMA
19-K -NAT	24	7	1.820+ 0	3.960+ 0	68 2010	20	N,X GAMMA
19-K -NAT	24	7	3.960+ 0	3.960+ 0	66 1783	4	N,X GAMMA
19-K -39	24	7	2.500+ 0	3.960+ 0	61 11	81	N,X GAMMA
19-K -39	24	7	3.420+ 0	3.960+ 0	68 2010	2	N,X GAMMA
20-CA-NAT	24	7	3.950+ 0	3.950+ 0	56 140	7	N,X GAMMA
20-CA-NAT	24	7	1.410+ 1	1.410+ 1	63 1723	1	N,X GAMMA
21-SC-45	24	7	1.610+ 0	1.610+ 0	61 11	6	N,X GAMMA
22-TI-NAT	24	7	1.100+ 0	3.210+ 0	65 1797	48	N,X GAMMA
24-CR-NAT	24	7	1.440+ 0	2.760+ 0	54 111	45	N,X GAMMA
24-CR-NAT	24	7	2.500+ 0	2.500+ 0	51 284	1	N,X GAMMA
24-CR-NAT	24	7	3.200+ 0	3.200+ 0	54 113	3	N,X GAMMA
25-MN-55	24	7	2.000+ 1	1.200+ 0	56 135	9	N,X GAMMA
25-MN-55	24	7	9.400+ 1	1.240+ 0	55 213	19	N,X GAMMA
25-MN-55	24	7	1.000+ 0	1.000+ 0	63 1728	1	N,X GAMMA
25-MN-55	24	7	1.220+ 0	2.470+ 0	59 547	15	N,X GAMMA
25-MN-55	24	7	2.900+ 0	2.900+ 0	61 686	2	N,X GAMMA
26-FE-NAT	24	7	8.430+ 1	2.706+ 0	54 111	179	N,X GAMMA
26-FE-NAT	24	7	9.000+ 1	3.820+ 0	62 724	231	N,X GAMMA
26-FE-NAT	24	7	9.300+ 1	7.370+ 0	70 3386	204	N,X GAMMA
26-FE-NAT	24	7	9.500+ 1	4.000+ 0	66 942	27	N,X GAMMA
26-FE-NAT	24	7	2.500+ 0	2.500+ 0	51 284	2	N,X GAMMA
26-FE-NAT	34	7	2.560+ 0	2.550+ 0	56 140	6	N,X GAMMA
26-FE-NAT	24	7	3.200+ 0	3.200+ 0	54 113	3	N,X GAMMA
26-FE-NAT	24	7	4.280+ 0	1.600+ 1	65 1797	19	N,X GAMMA
26-FE-NAT	24	7	6.000+ 0	7.500+ 0	70 1497	3	N,X GAMMA
26-FE-NAT	24	7	1.400+ 1	1.400+ 1	53 292	5	N,X GAMMA
26-FE-NAT	24	7	1.400+ 1	1.400+ 1	55 202	2	N,X GAMMA
26-FE-NAT	24	7	1.400+ 1	1.400+ 1	63 1723	2	N,X GAMMA
26-FE-NAT	24	7	1.400+ 1	1.400+ 1	66 1839	6	N,X GAMMA
26-FE-56	24	7	1.630+ 0	2.640+ 0	65 1023	22	N,X GAMMA
26-FE-56	24	7	1.000+ 0	3.300+ 0	60 1725	9	N,X GAMMA
26-FE-56	24	7	2.900+ 0	2.900+ 0	61 686	1	N,X GAMMA
27-CO-59	24	7	1.100+ 0	1.450+ 0	65 1023	18	N,X GAMMA
27-CO-59	24	7	3.200+ 0	3.200+ 0	54 113	5	N,X GAMMA
28-NI-NAT	24	7	1.300+ 0	2.000+ 0	65 1023	8	N,X GAMMA
28-NI-NAT	24	7	1.347+ 0	2.690+ 0	54 111	77	N,X GAMMA
28-NI-NAT	24	7	1.810+ 0	6.590+ 0	70 3386	127	N,X GAMMA
28-NI-NAT	24	7	2.560+ 0	2.560+ 0	56 140	4	N,X GAMMA
28-NI-NAT	24	7	3.200+ 0	3.200+ 0	54 113	4	N,X GAMMA
28-NI-NAT	24	7	1.420+ 1	1.420+ 1	52 294	4	N,X GAMMA
28-NI-58	24	7	1.400+ 0	2.000+ 0	65 1023	7	N,X GAMMA
29-CU-NAT	24	7	7.680+ 1	1.382+ 0	67 1897	22	N,X GAMMA
29-CU-NAT	24	7	2.500+ 0	2.500+ 0	52 284	2	N,X GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 24

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 24

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
29-CU-NAT	24	7	2.560+0	2.560+0	56 140	11	N.X GAMMA
29-CU-NAT	24	7	3.200+0	3.200+0	54 113	4	N.X GAMMA
29-CU-NAT	24	7	1.400+1	1.400+1	61 850	3	N.X GAMMA
29-CU-NAT	24	7	1.420+1	1.420+1	53 294	2	N.X GAMMA
29-CU-63	24	7	6.300-1	2.590+0	65 1023	17	N.X GAMMA
29-CU-63	24	7	7.680-1	1.382+0	67 1897	12	N.X GAMMA
29-CU-65	24	7	7.500-1	1.300+0	65 1023	9	N.X GAMMA
29-CU-65	24	7	7.680-1	1.382+0	67 1897	10	N.X GAMMA
30-ZN-NAT	24	7	1.000+0	1.800+0	65 1023	17	N.X GAMMA
30-ZN-NAT	24	7	3.200+0	3.200+0	54 113	3	N.X GAMMA
32-GE-70	24	7	1.078+0	1.478+0	68 2413	41	N.X GAMMA
32-GE-70	24	7	1.750+0	2.550+0	69 2763	5	N.X GAMMA
32-GE-72	24	7	7.080-1	1.488+0	68 2413	134	N.X GAMMA
32-GE-72	24	7	1.750+0	2.550+0	69 2763	12	N.X GAMMA
32-GE-74	24	7	6.130-1	1.488+0	68 2413	82	N.X GAMMA
32-GE-74	24	7	1.750+0	2.550+0	69 2763	21	N.X GAMMA
32-GE-76	24	7	5.880-1	1.488+0	68 2413	90	N.X GAMMA
32-GE-76	24	7	1.750+0	2.550+0	69 2763	9	N.X GAMMA
39-Y-89	24	7	1.410+1	1.410+1	74 3548	19	N.X GAMMA
40-ZR-NAT	24	7	9.000-1	3.200+0	54 113	10	N.X GAMMA
40-ZR-NAT	24	7	9.980-1	1.590+0	56 136	167	N.X GAMMA
40-ZR-NAT	24	7	1.150+0	3.950+0	61 11	71	N.X GAMMA
40-ZR-90	24	7	1.750+0	4.000+0	61 11	133	N.X GAMMA
40-ZR-91	24	7	1.250+0	3.650+0	61 11	66	N.X GAMMA
40-ZR-92	24	7	9.500-1	3.055+0	61 11	109	N.X GAMMA
40-ZR-94	24	7	9.400-1	3.050+0	61 11	123	N.X GAMMA
41-NB-93	24	7	7.790-1	1.940+0	57 161	32	N.X GAMMA
41-NB-93	24	7	7.900-1	1.790+0	71 3243	92	N.X GAMMA
41-NB-93	24	7	9.330-1	2.120+0	59 547	48	N.X GAMMA
41-NB-93	24	7	1.000+0	4.200+0	68 1019	51	N.X GAMMA
41-NB-93	24	7	6.000+0	7.500+0	70 1497	8	N.X GAMMA
42-MO-NAT	24	7	7.800-1	1.500+0	65 1023	29	N.X GAMMA
42-MO-NAT	24	7	3.200+0	3.200+0	54 113	3	N.X GAMMA
45-RH-103	24	7	3.080-1	1.107+0	57 161	30	N.X GAMMA
47-AG-NAT	24	7	3.210-1	9.930-1	65 1023	63	N.X GAMMA
48-CD-NAT	24	7	5.440-1	9.950-1	65 1023	22	N.X GAMMA
48-CD-NAT	24	7	3.200+0	3.200+0	54 113	2	N.X GAMMA
49-IN-115	24	7	9.000-1	2.050+0	61 11	87	N.X GAMMA
50-SN-NAT	24	7	1.090+0	2.000+0	65 1023	17	N.X GAMMA
50-SN-NAT	24	7	3.200+0	3.200+0	54 113	3	N.X GAMMA
51-SB-NAT	24	7	2.200-1	1.240+0	69 3386	27	N.X GAMMA
53-I-127	24	7	1.400-1	2.400+0	56 135	56	N.X GAMMA
53-I-127	24	7	2.500+1	2.000+0	61 11	184	N.X GAMMA
58-CE-140	24	7	1.929+0	2.075+0	62 597	10	N.X GAMMA
73-TA-181	24	7	2.400-1	1.790+0	71 3243	94	N.X GAMMA
73-TA-181	24	7	4.000-1	1.650+0	61 11	26	N.X GAMMA
73-TA-181	24	7	2.560+0	2.560+0	56 140	4	N.X GAMMA
73-TA-181	24	7	3.200+0	3.200+0	54 113	2	N.X GAMMA
79-AU-197	24	7	1.500-1	1.525+0	61 11	111	N.X GAMMA
82-PB-NAT	24	7	1.203+0	2.700+0	54 111	33	N.X GAMMA
82-PB-NAT	24	7	2.560+0	2.560+0	56 140	9	N.X GAMMA
82-PB-NAT	24	7	3.200+0	3.200+0	54 113	6	N.X GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 24

TARGET	CODE	S	E	E-MIN-REV	E-MAX-REV	REFERENCE	POINTS	REACTION DESCRIPTION
C	82-PB-NAT	24	7	1.420*	1.1400*	1	66 1839	N X GAMMA
	82-PB-NAT	24	7	1.420*	1.1400*	1	53 293	N X GAMMA
	82-PB-206	24	7	7.000-1	3.200-0	61 11	250	N X GAMMA
	82-PB-206	24	7	2.950-0	2.900-0	61 686	2	N X GAMMA
	82-PB-209	24	7	1.400-1	1.400-1	59 1722	1	N X GAMMA
	83-P1-209	24	7	8.890-1	2.742-0	54 111	36	N X GAMMA
	83-P1-209	24	7	3.200-0	3.200-0	54 113	4	N X GAMMA
	90-T1-232	24	7	7.000-1	1.650-0	61 11	114	N X GAMMA
	92-U-238	24	7	6.000-1	1.700-0	61 11	135	N X GAMMA
	7-N-NAT	24	10	1.480*	1.1480*	64 1730	1	N X GAMMA
N	8-C-NAT	24	10	1.480*	1.1480*	64 1730	1	N X GAMMA
	12-HG-NAT	24	10	1.410*	1.1410*	63 1723	1	N X GAMMA
	14-S1-NAT	24	10	1.410*	1.1410*	63 1723	1	N X GAMMA
	14-S1-NAT	24	10	8.000-0	1.100-1	69 3501	4	N X GAMMA
	16-S-NAT	24	10	1.410*	1.1410*	63 1723	1	N X GAMMA
	20-CA-NAT	24	10	1.410*	1.1410*	63 1723	1	N X GAMMA
	20-CA-NAT	24	10	1.400*	1.1400*	60 1721	3	N X GAMMA
	28-N1-NAT	24	10	1.440-1	1.5300-1	59 1719	12	N X GAMMA
	33-CU-NAT	24	10	1.400-1	1.400-1	60 1721	3	N X GAMMA
	50-CE-NAT	24	10	1.410*	1.1410*	63 1723	1	N X GAMMA
Z	58-CE-NAT	24	10	1.410*	1.1410*	63 1723	1	N X GAMMA
	7-N-14	25	4	0.015*-0	0.198*-0	55 523	114	N X CHARGED PARTICLE
	35-KR-NAT	25	4	6.350*-0	1.198*-0	62 3073	12	N X CHARGED PARTICLE
	40-ZR-NAT	25	4	1.450*-1	1.450*-1	60 861	13	N X CHARGED PARTICLE
	32-GE-NAT	25	4	1.450*-1	1.450*-1	59 829	45	N P
	2-H4-3	26	8	6.650-3	4.197-0	58 519	9	N P
	2-H4-3	26	2	2.000-1	1.200-0	69 2752	18	N P
	2-H4-3	26	3	3.500-1	1.000-0	50 187	15	N P
	2-H4-3	26	3	3.940-1	3.000-0	59 1612	22	N P
	2-H4-3	26	4	8.000-1	1.100-1	59 578	4	N P
P	2-H4-3	26	4	9.500-1	8.070-0	50 518	4	N P
	2-H4-3	26	1	1.440*-1	1.1440*	67 1614	7	N P
	3-L1-6	26	3	3.500*-0	1.480*-0	63 842	7	N P
	3-L1-6	26	3	3.600*-0	9.000*-0	65 1629	34	N P
	3-L1-6	26	1	1.410*-1	1.1410*	53 86	1	N P
	3-L1-6	26	1	1.410*-1	1.1410*	54 104	1	N P
	3-L1-6	26	1	1.410*-1	1.1410*	61 487	1	N P
	4-H6-9	26	1	3.550*-1	1.950*-1	63 913	1	N P
	2-H-11	26	1	1.400*-1	1.400*-1	61 2374	1	N P
	2-H-11	26	1	1.450*-1	1.450*-1	67 1851	1	N P
N	5-B-11	26	1	1.70*-1	1.470*-1	62 88	1	N P
	5-B-11	26	1	1.402*-1	1.470*-1	57 3371	1	N P
	5-C-12	26	1	1.402*-1	1.751*-0	59 931	4	N P
	7-N-NAT	26	1	1.480*-1	2.730*-0	59 82	185	N P
	7-N-14	26	2	2.530*-0	2.530*-0	51 3920	1	N P
	7-N-14	26	2	2.530*-0	2.530*-0	66 1619	1	N P
	7-N-14	26	1	1.470*-1	1.470*-1	66 1619	1	N P
	7-N-15	26	1	1.480*-1	1.480*-1	66 2142	1	N P
9-O-NAT	26	1	1.470*-1	1.470*-1	62 188	1	N P	
	8-O-16	26	1	1.000*-1	1.795*-1	54 102	12	N P

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
8-0	-16	26	1.108+	1.904+	62 700	27	N,P
8-0	-16	26	1.261+	1.630+	81 671	22	N,P
8-0	-16	26	1.335+	1.665+	56 1682	15	N,P
8-0	-16	26	1.410+	1.410+	52 79	1	N,P
8-0	-16	26	1.440+	1.440+	51 542	1	N,P
8-0	-16	26	1.450+	1.450+	53 27	1	N,P
8-0	-16	26	1.470+	1.470+	60 695	1	N,P
8-0	-16	26	1.480+	1.480+	66 907	1	N,P
8-0	-16	26	1.480+	1.480+	66 2142	1	N,P
9-F	-19	26	4.600+	7.980+	55 129	18	N,P
9-F	-19	26	4.980+	8.975+	66 1684	159	N,P
9-F	-19	26	1.260+	1.960+	65 843	10	N,P
9-F	-19	26	1.418+	2.100+	65 449	11	N,P
9-F	-19	26	1.450+	1.450+	53 27	1	N,P
9-F	-19	26	1.470+	1.470+	62 88	1	N,P
9-F	-19	26	1.470+	1.470+	66 1675	1	N,P
9-F	-19	26	1.470+	1.470+	67 1921	1	N,P
9-F	-19	26	1.480+	1.480+	66 907	1	N,P
9-F	-19	26	1.480+	1.480+	66 2142	1	N,P
10-NE-NAT	26		1.410+	1.410+	66 1689	1	N,P
11-NA-23	26		3.950+	0 1.890+	61 681	189	N,P
11-NA-23	26		5.800+	0 8.975+	66 1684	128	N,P
11-NA-23	26		1.400+	1.400+	60 586	1	N,P
11-NA-23	26		1.400+	1.400+	61 361	1	N,P
11-NA-23	26		1.418+	2.100+	65 449	12	N,P
11-NA-23	26		1.450+	1.450+	53 27	1	N,P
11-NA-23	26		1.470+	1.470+	66 1675	1	N,P
11-NA-23	26		1.470+	1.470+	67 1921	1	N,P
11-NA-23	26		1.470+	1.470+	67 3371	1	N,P
11-NA-23	26		1.480+	1.480+	61 660	1	N,P
11-NA-23	26		1.480+	1.480+	65 1697	1	N,P
11-NA-23	26		1.480+	1.480+	66 907	1	N,P
11-NA-23	26		1.480+	1.480+	66 2142	1	N,P
12-MG-NAT	26		1.440+	1.440+	62 688	1	N,P
12-MG-24	26		6.060+	0 8.200+	66 1714	17	N,P
12-MG-24	26		1.010+	1.400+	30 590	5	N,P
12-MG-24	26		1.205+	1.960+	64 445	24	N,P
12-MG-24	26		1.234+	1.391+	67 1712	53	N,P
12-MG-24	26		1.260+	1.720+	62 806	14	N,P
12-MG-24	26		1.263+	1.959+	65 1738	23	N,P
12-MG-24	26		1.265+	1.755+	56 36	12	N,P
12-MG-24	26		1.303+	1.303+	59 533	1	N,P
12-MG-24	26		1.400+	1.400+	61 361	1	N,P
12-MG-24	26		1.450+	1.450+	53 27	1	N,P
12-MG-24	26		1.460+	1.460+	69 2354	1	N,P
12-MG-24	26		1.470+	1.470+	67 1921	1	N,P
12-MG-24	26		1.470+	1.470+	68 2596	1	N,P
12-MG-24	26		1.500+	1.500+	60 628	1	N,P
12-MG-25	26		1.300+	1.665+	66 1682	12	N,P
12-MG-25	26		1.400+	1.400+	61 361	1	N,P
12-MG-25	26		1.450+	1.450+	53 27	1	N,P
12-MG-25	26		1.470+	1.470+	67 1921	1	N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C - 26

07/04/76

CSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 26

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
12-MG-25	26		1.480+	1.480+	1	58 443	1 N,P
12-MG-25	26		1.460+	1.480+	1	66 2142	1 N,P
12-MG-26	26		1.400+	1.400+	1	61 361	1 N,P
12-MG-26	26		1.460+	1.480+	1	58 443	1 N,P
13-AL-27	26		2.440+	1.410+	1	67 1500	12 N,P
13-AL-27	26		2.620+	5.100+	0	62 478	48 N,P
13-AL-27	26		2.630+	5.180+	0	54 430	38 N,P
C 13-AL-27	26		2.805+	9.960+	0	73 3342	160 N,P
13-AL-27	26		6.000+	9.000+	0	66 1684	121 N,P
N 13-AL-27	26		8.000+	9.300+	0	72 3426	4 N,P
13-AL-27	26		1.192+	2.072+	1	60 230	17 N,P
13-AL-27	26		1.235+	1.389+	1	67 1712	40 N,P
13-AL-27	26		1.240+	1.770+	1	62 806	15 N,P
13-AL-27	26		1.303+	1.703+	1	59 579	31 N,P
13-AL-27	26		1.400+	1.400+	1	57 217	1 N,P
13-AL-27	26		1.400+	1.400+	1	61 361	1 N,P
13-AL-27	26		1.410+	1.410+	1	52 84	1 N,P
13-AL-27	26		1.410+	1.410+	1	57 159	1 N,P
13-AL-27	26		1.410+	1.410+	1	60 837	1 N,P
13-AL-27	26		1.410+	1.410+	1	61 651	1 N,P
13-AL-27	26		1.414+	1.414+	1	57 535	1 N,P
13-AL-27	26		1.420+	1.420+	1	68 1944	1 N,P
13-AL-27	26		1.420+	1.420+	1	69 2334	1 N,P
13-AL-27	26		1.440+	1.440+	1	62 688	1 N,P
13-AL-27	26		1.440+	1.440+	1	68 2695	1 N,P
13-AL-27	26		1.450+	1.450+	1	53 27	1 N,P
13-AL-27	26		1.450+	1.450+	1	69 2050	1 N,P
13-AL-27	26		1.460+	1.450+	1	63 372	1 N,P
13-AL-27	26		1.470+	1.470+	1	62 88	1 N,P
13-AL-27	26		1.470+	1.470+	1	64 1948	1 N,P
13-AL-27	26		1.480+	1.480+	1	59 662	1 N,P
13-AL-27	26		1.480+	1.480+	1	61 660	1 N,P
13-AL-27	26		1.480+	1.480+	1	66 907	1 N,P
13-AL-27	26		1.480+	1.480+	1	70 3150	1 N,P
N 13-AL-27	26		1.460+	1.480+	1	71 3200	1 N,P
N 13-AL-27	26		1.480+	1.480+	1	72 3832	1 N,P
13-AL-27	26		1.500+	1.500+	1	60 628	1 N,P
14-SI-NAT	26		1.440+	1.440+	1	62 688	1 N,P
14-SI-28	26		4.400+	8.090+	0	55 134	39 N,P
14-SI-28	26		5.350+	6.400+	0	63 420	8 N,P
14-SI-28	26		6.000+	9.000+	0	66 1684	121 N,P
14-SI-28	26		1.230+	1.820+	1	59 533	24 N,P
14-SI-28	26		1.255+	2.100+	1	63 374	8 N,P
14-SI-28	26		1.305+	1.750+	1	56 36	18 N,P
14-SI-28	26		1.400+	1.400+	1	61 361	1 N,P
14-SI-28	26		1.440+	1.440+	1	68 2695	1 N,P
14-SI-28	26		1.450+	1.450+	1	53 27	1 N,P
14-SI-28	26		1.450+	1.450+	1	70 3258	1 N,P
14-SI-28	26		1.470+	1.470+	1	67 1921	1 N,P
14-SI-28	26		1.480+	1.480+	1	65 1697	1 N,P
14-SI-28	26		1.480+	1.480+	1	66 907	1 N,P
14-SI-29	26		1.440+	1.440+	1	68 2695	1 N,P

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 26

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 26

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
14-SI-29	26	1.450+	1.450+	53	27	1	N,P
14-SI-29	26	1.450+	1.450+	70	3256	1	N,P
14-SI-29	26	1.470+	1.470+	57	1921	1	N,P
14-SI-30	26	1.450+	1.450+	70	3256	1	N,P
15-P-31	26	1.590+	1.410+	58	321	20	N,P
15-P-31	26	1.680+	1.410+	67	1500	17	N,P
15-P-31	26	1.910+	1.640+	51	38	88	N,P
15-P-31	26	2.710+	1.030+	60	620	53	N,P
15-P-31	26	3.250+	1.200+	58	538	10	N,P
15-P-31	26	1.400+	1.400+	61	361	1	N,P
15-P-31	26	1.410+	1.410+	52	84	1	N,P
15-P-31	26	1.440+	1.440+	62	688	1	N,P
15-P-31	26	1.450+	1.450+	53	27	1	N,P
15-P-31	26	1.470+	1.470+	62	88	1	N,P
15-P-31	26	1.470+	1.470+	67	1921	1	N,P
15-P-31	26	1.480+	1.480+	65	3379	1	N,P
16-S-NAT	26	2.170+	1.750+	67	1507	20	N,P
16-S-NAT	26	1.440+	1.440+	62	688	1	N,P
16-S-32	26	1.590+	1.495+	57	163	32	N,P
16-S-32	26	1.630+	1.800+	48	182	8	N,P
16-S-32	26	1.900+	1.660+	50	32	38	N,P
16-S-32	26	1.040+	1.2030+	63	375	16	N,P
16-S-32	26	1.400+	1.400+	61	361	1	N,P
16-S-32	26	1.400+	1.400+	63	323	1	N,P
16-S-32	26	1.450+	1.450+	53	27	1	N,P
16-S-32	26	1.460+	1.460+	63	224	2	N,P
16-S-32	26	1.460+	1.480+	69	2354	3	N,P
16-S-32	26	1.470+	1.470+	67	1921	1	N,P
16-S-32	26	1.480+	1.480+	65	1697	1	N,P
16-S-32	26	1.480+	1.480+	68	2711	1	N,P
16-S-32	26	1.480+	1.480+	68	4071	1	N,P
16-S-34	26	1.400+	1.665+	66	1682	6	N,P
16-S-34	26	1.450+	1.450+	53	27	1	N,P
16-S-34	26	1.480+	1.480+	66	2142	1	N,P
17-CL-35	26	2.530-	2.530-	44	2874	1	N,P
17-CL-35	26	2.530-	2.530-	47	888	1	N,P
17-CL-35	26	2.530-	2.530-	49	2873	1	N,P
17-CL-35	26	2.530-	2.530-	69	3216	1	N,P
17-CL-35	26	2.600-	7.400-	61	857	43	N,P
17-CL-35	26	1.400+	1.400+	61	361	1	N,P
17-CL-35	26	1.460+	1.460+	65	1777	1	N,P
17-CL-37	26	1.310+	2.200+	66	1779	12	N,P
17-CL-37	26	1.320+	1.605+	56	36	6	N,P
17-CL-37	26	1.410+	1.480+	67	3307	2	N,P
17-CL-37	26	1.450+	1.450+	53	27	1	N,P
17-CL-37	26	1.470+	1.470+	67	1921	1	N,P
17-CL-37	26	1.480+	1.480+	58	531	1	N,P
17-CL-37	26	1.480+	1.480+	65	1697	1	N,P
17-CL-37	26	1.480+	1.480+	66	907	1	N,P
18-AR-38	26	1.440+	1.440+	69	2747	1	N,P
18-AR-38	26	1.480+	1.480+	68	1945	1	N,P
18-AR-40	26	1.440+	1.440+	69	2747	1	N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-155 ***

C = 26

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 26

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
18-AR-40	26		1.470+	1.470+	65 1781	1	N,P
18-AR-40	26		1.480+	1.480+	68 1945	1	N,P
19-K -39	26		2.460+0	2.460+0	61 653	1	N,P
19-K -39	26		2.460+0	2.460+0	67 1856	1	N,P
19-K -39	26		2.590+0	2.590+0	58 457	1	N,P
19-K -39	26		4.000+0	8.000+0	64 459	9	N,P
19-K -39	26		1.400+	1.400+	60 586	1	N,P
19-K -41	26		1.420+	1.420+	68 1944	1	N,P
19-K -41	26		1.450+	1.450+	53 27	1	N,P
19-K -41	26		1.470+	1.470+	67 1921	1	N,P
19-K -41	26		1.480+	1.480+	63 756	1	N,P
19-K -41	26		1.480+	1.480+	65 1697	1	N,P
N 19-K -41	26		1.480+	1.480+	68 4071	1	N,P
20-CA-40	26		6.000+	6.000+0	61 2032	1	N,P
N 20-CA-40	26		1.410+	1.410+	68 3021	1	N,P
20-CA-42	26		1.400+	1.400+	63 323	1	N,P
20-CA-42	26		1.420+	1.420+	68 1944	1	N,P
N 20-CA-42	26		1.460+	1.460+	64 3685	1	N,P
20-CA-42	26		1.460+	1.460+	65 1777	1	N,P
20-CA-42	26		1.470+	1.470+	66 1675	1	N,P
N 20-CA-42	26		1.480+	1.480+	68 4071	1	N,P
20-CA-42	26		1.490+	1.490+	61 3373	1	N,P
N 20-CA-43	26		1.420+	1.420+	68 1944	1	N,P
20-CA-43	26		1.460+	1.460+	64 3685	1	N,P
N 20-CA-43	26		1.460+	1.460+	65 1777	1	N,P
20-CA-43	26		1.470+	1.470+	66 1675	1	N,P
20-CA-44	26		1.400+	1.400+	63 323	1	N,P
20-CA-44	26		1.420+	1.420+	68 1944	1	N,P
20-CA-44	26		1.470+	1.470+	66 1675	1	N,P
20-CA-44	26		1.480+	1.480+	65 1697	1	N,P
N 20-CA-44	26		1.480+	1.480+	68 4071	1	N,P
20-CA-44	26		1.490+	1.490+	61 3373	1	N,P
21-SC-45	26		1.340+	1.481+	60 588	6	N,P
21-SC-45	26		1.470+	1.470+	66 1675	1	N,P
N 21-SC-45	26		1.480+	1.480+	68 4071	1	N,P
22-TI-NAT	26		1.440+	1.440+	62 688	1	N,P
C 22-TI-46	26		3.668+0	9.950+0	73 3342	57	N,P
22-TI-46	26		4.100+0	6.100+0	71 3178	3	N,P
22-TI-46	26		4.910+0	7.040+0	69 2132	11	N,P
22-TI-46	26		1.250+	1.700+	65 1800	6	N,P
22-TI-46	26		1.260+	1.652+	65 893	17	N,P
22-TI-46	26		1.360+	1.950+	66 1799	5	N,P
22-TI-46	26		1.400+	1.400+	61 361	1	N,P
22-TI-46	26		1.450+	1.450+	63 1009	1	N,P
22-TI-46	26		1.470+	1.470+	64 1801	1	N,P
22-TI-46	26		1.480+	1.480+	59 662	1	N,P
C 22-TI-47	26		9.140+0	9.950+0	73 3342	143	N,P
22-TI-47	26		1.990+0	3.650+0	62 692	12	N,P
22-TI-47	26		2.190+0	3.640+0	67 3287	5	N,P
22-TI-47	26		3.400+0	6.100+0	71 3178	4	N,P
22-TI-47	26		1.310+	1.950+	66 1799	5	N,P
22-TI-47	26		1.400+	1.400+	61 361	1	N,P

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 26

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 26

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	26-FE-54	26	1.410+	1.570+	1	60 837	2	N,P
	26-FE-54	26	1.440+	1.440+	1	67 1844	1	N,P
	26-FE-54	26	1.450+	1.450+	1	62 1009	1	N,P
C	26-FE-54	26	1.450+	1.450+	1	63 1009	1	N,P
	26-FE-54	26	1.450+	1.450+	1	72 3345	1	N,P
	26-FE-54	26	1.460+	1.480+	1	69 2354	2	N,P
	26-FE-54	26	1.480+	1.480+	1	68 2711	1	N,P
	26-FE-56	26	3.950+	0	1.410+	67 1500	9	N,P
C	26-FE-56	26	3.979+	0	9.945+	73 3342	56	N,P
	26-FE-56	26	4.270+	0	2.030+	64 1846	47	N,P
	26-FE-56	26	6.060+	0	8.200+	66 1714	17	N,P
	26-FE-56	26	1.260+	1	1.958+	65 1847	28	N,P
	26-FE-56	26	1.358+	1	1.473+	62 1008	3	N,P
	26-FE-56	26	1.400+	1	1.400+	95 202	1	N,P
	26-FE-56	26	1.400+	1	1.400+	57 217	1	N,P
	26-FE-56	26	1.400+	1	1.400+	61 361	1	N,P
	26-FE-56	26	1.410+	1	1.410+	52 84	1	N,P
	26-FE-56	26	1.410+	1	1.410+	60 837	1	N,P
	26-FE-56	26	1.410+	1	1.410+	61 651	1	N,P
	26-FE-56	26	1.414+	1	1.414+	57 535	1	N,P
	26-FE-56	26	1.440+	1	1.440+	62 806	1	N,P
N	26-FE-56	26	1.440+	1	1.440+	72 3463	1	N,P
	26-FE-56	26	1.450+	1	1.450+	53 27	1	N,P
	26-FE-56	26	1.450+	1	1.450+	62 1009	1	N,P
C	26-FE-56	26	1.450+	1	1.450+	63 1009	1	N,P
	26-FE-56	26	1.450+	1	1.450+	72 3345	1	N,P
	26-FE-56	26	1.460+	1	1.480+	69 2354	2	N,P
	26-FE-56	26	1.470+	1	1.470+	64 1848	1	N,P
	26-FE-56	26	1.470+	1	1.470+	68 2596	1	N,P
	26-FE-56	26	1.480+	1	1.480+	64 843	1	N,P
	26-FE-56	26	1.480+	1	1.480+	68 2711	1	N,P
N	26-FE-56	26	1.480+	1	1.480+	68 4071	1	N,P
	26-FE-56	26	1.484+	1	1.484+	61 679	1	N,P
	26-FE-56	26	1.500+	1	1.500+	50 628	1	N,P
N	26-FE-56	26	1.510+	1	1.510+	69 3662	1	N,P
	26-FE-56	26	1.527+	1	1.527+	59 533	1	N,P
	26-FE-57	26	1.410+	1	1.410+	61 651	1	N,P
	26-FE-57	26	1.450+	1	1.450+	63 1009	1	N,P
	26-FE-57	26	1.450+	1	1.450+	72 3345	1	N,P
	26-FE-57	26	1.480+	1	1.480+	61 679	1	N,P
N	26-FE-58	26	1.440+	1	1.440+	72 3463	1	N,P
	26-FE-58	26	1.450+	1	1.450+	72 3345	1	N,P
	26-FE-58	26	1.480+	1	1.480+	61 679	1	N,P
N	27-CO-59	26	4.334+	0	9.944+	73 3342	32	N,P
	27-CO-59	26	1.355+	1	2.100+	63 374	7	N,P
	27-CO-59	26	1.400+	1	1.400+	61 361	1	N,P
	27-CO-59	26	1.410+	1	1.410+	60 837	1	N,P
	27-CO-59	26	1.440+	1	1.440+	62 686	1	N,P
	27-CO-59	26	1.450+	1	1.450+	50 629	1	N,P
N	27-CO-59	26	1.460+	1	1.460+	72 3427	1	N,P
	27-CO-59	26	1.480+	1	1.480+	60 596	1	N,P
	27-CO-59	26	1.480+	1	1.480+	65 1855	1	N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 26

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 26

S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

N	27-CO-59	26	1.480+	1.480+	1	58 4071	1	N.P
N	28-NI-NAT	26	1.440+	1.440+	1	62 688	1	N.P
C	28-NI-58	26	1.500+	1.500+	1	63 767	1	N.P
N	28-NI-58	26	4.410+	9.897+	0	73 3342	230	N.P
N	28-NI-58	26	9.900+	1.640+	1	71 3789	39	N.P
N	28-NI-58	26	1.040+	2.670+	0	63 768	11	N.P
N	28-NI-58	26	1.625+	1.480+	1	62 721	13	N.P
N	28-NI-58	26	1.840+	4.820+	0	62 875	13	N.P
N	28-NI-58	26	1.950+	1.708+	1	58 2340	16	N.P
N	28-NI-58	26	2.190+	3.640+	0	67 3287	6	N.P
N	28-NI-58	26	2.200+	1.475+	1	68 1999	18	N.P
N	28-NI-58	26	2.220+	3.550+	0	60 929	10	N.P
N	28-NI-58	26	2.240+	3.770+	0	63 762	36	N.P
N	28-NI-58	26	3.300+	3.300+	0	61 655	1	N.P
N	28-NI-58	26	8.400+	8.400+	0	65 1739	1	N.P
N	28-NI-58	26	1.295+	1.960+	1	66 1682	10	N.P
N	28-NI-58	26	1.355+	1.550+	1	66 1910	7	N.P
N	28-NI-58	26	1.355+	1.495+	1	67 1671	7	N.P
N	28-NI-58	26	1.355+	2.100+	1	63 374	3	N.P
N	28-NI-58	26	1.355+	1.735+	1	62 108	3	N.P
N	28-NI-58	26	1.355+	1.485+	1	61 878	9	N.P
N	28-NI-58	26	1.305+	1.485+	1	67 212	9	N.P
N	28-NI-58	26	1.400+	1.400+	1	61 351	1	N.P
N	28-NI-58	26	1.400+	1.400+	1	59 527	1	N.P
N	28-NI-58	26	1.410+	1.410+	1	60 837	2	N.P
N	28-NI-58	26	1.440+	1.440+	1	70 3834	1	N.P
N	28-NI-58	26	1.440+	1.450+	1	62 1039	1	N.P
N	28-NI-58	26	1.450+	1.450+	1	63 1039	1	N.P
N	28-NI-58	26	1.450+	1.450+	1	69 2050	1	N.P
N	28-NI-58	26	1.460+	1.460+	1	72 3427	1	N.P
N	28-NI-58	26	1.480+	1.480+	1	69 2354	3	N.P
N	28-NI-58	26	1.480+	1.480+	1	68 2711	1	N.P
N	28-NI-58	26	2.530+	2.530+	8	75 3910	1	N.P
N	28-NI-58	26	5.760+	5.760+	0	67 3785	40	N.P
N	28-NI-58	26	8.250+	8.250+	0	66 1714	10	N.P
N	28-NI-58	26	8.190+	1.400+	1	67 3785	2	N.P
N	28-NI-58	26	1.267+	1.652+	1	65 893	11	N.P
N	28-NI-58	26	1.350+	1.350+	1	58 448	1	N.P
N	28-NI-58	26	1.400+	1.400+	1	57 217	1	N.P
N	28-NI-58	26	1.410+	1.410+	1	60 837	1	N.P
N	28-NI-58	26	1.420+	1.420+	1	72 3427	1	N.P
N	28-NI-58	26	1.450+	1.450+	1	62 1008	1	N.P
N	28-NI-58	26	1.450+	1.450+	1	62 1009	1	N.P
N	28-NI-58	26	1.450+	1.450+	1	63 1009	1	N.P
N	28-NI-58	26	3.300+	3.300+	0	61 655	1	N.P
N	28-NI-58	26	1.400+	1.400+	1	56 278	1	N.P
N	28-NI-58	26	1.410+	1.410+	1	62 868	1	N.P
N	28-NI-58	26	1.450+	1.450+	1	53 27	1	N.P
N	28-NI-58	26	1.450+	1.450+	1	62 1009	1	N.P
N	28-NI-58	26	1.450+	1.450+	1	63 1009	1	N.P

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

... 2-159 ...

C = 26

07/04/76

EC51...600 REACTION INDEX (REACTION NO. ORDERED)

C = 26

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 20-NI-61	26	1.460*	1.460*	1.460*	72 3427	1	N.P.
20-NI-61	26	1.480*	1.480*	1.480*	60 598	1	N.P.
N 20-NI-62	26	1.420*	1.460*	1.460*	72 3427	2	N.P.
20-NI-62	26	1.450*	1.450*	1.450*	62 1009	1	N.P.
C 20-NI-62	26	1.450*	1.450*	1.450*	63 1009	1	N.P.
29-CU-63	26	1.400*	1.400*	1.400*	57 217	1	N.P.
29-CU-63	26	1.400*	1.400*	1.400*	61 761	1	N.P.
29-CU-63	26	1.410*	1.410*	1.410*	60 637	1	N.P.
29-CU-65	26	3.560*	0 2.020*	1.66 2065	43 N.P.	43	N.P.
29-CU-65	26	1.320*	1.400*	1.63 417	10 N.P.	10	N.P.
29-CU-65	26	1.400*	1.400*	1.56 278	1	N.P.	
29-CU-65	26	1.410*	1.410*	1.52 84	1	N.P.	
29-CU-65	26	1.410*	1.410*	1.60 837	1	N.P.	
29-CU-65	26	1.410*	1.410*	1.61 651	1	N.P.	
29-CU-65	26	1.410*	1.480*	1.67 3307	2	N.P.	
29-CU-65	26	1.420*	1.460*	1.72 3427	2	N.P.	
29-CU-65	26	1.470*	1.470*	1.64 1848	1	N.P.	
29-CU-65	26	1.480*	1.480*	1.58 531	1	N.P.	
29-CU-65	26	1.480*	1.480*	1.59 662	1	N.P.	
29-CU-65	26	1.480*	1.480*	1.60 598	1	N.P.	
29-CU-65	26	1.480*	1.480*	1.61 680	1	N.P.	
29-CU-65	26	1.480*	1.480*	1.63 756	1	N.P.	
29-CU-65	26	1.480*	1.480*	1.67 2005	1	N.P.	
29-CU-65	26	1.500*	1.500*	1.60 628	1	N.P.	
30-ZN-NAT	26	2.190*	0 3.640*	1 67 3287	8	N.P.	
N 30-ZN-64	26	1.159*	0 9.939*	0 73 3342	68	N.P.	
30-ZN-64	26	1.490*	0 1.980*	1.67 2066	63	N.P.	
N 30-ZN-64	26	1.830*	0 1.980*	1.71 3516	73	N.P.	
30-ZN-64	26	1.850*	0 4.820*	0 62 875	13	N.P.	
30-ZN-64	26	1.990*	0 3.550*	0 59 541	12	N.P.	
30-ZN-64	26	2.600*	0 2.600*	0 61 655	1	N.P.	
30-ZN-64	26	3.300*	0 3.600*	0 61 651	2	N.P.	
30-ZN-64	26	1.245*	1.750*	1.62 806	17	N.P.	
30-ZN-64	26	1.360*	1.390*	1.62 1770	5	N.P.	
30-ZN-64	26	1.400*	1.400*	1.61 761	1	N.P.	
30-ZN-64	26	1.400*	1.400*	1.63 323	1	N.P.	
30-ZN-64	26	1.410*	1.570*	1.68 837	2	N.P.	
30-ZN-64	26	1.440*	1.440*	1.68 6695	1	N.P.	
30-ZN-64	26	1.450*	1.450*	1.58 254	1	N.P.	
30-ZN-64	26	1.460*	1.460*	1.60 598	1	N.P.	
30-ZN-64	26	1.480*	1.480*	1.63 756	1	N.P.	
30-ZN-64	26	1.480*	1.480*	1.66 3360	1	N.P.	
30-ZN-64	26	1.480*	1.480*	1.67 2005	1	N.P.	
30-ZN-64	26	1.480*	1.480*	1.75 2535	1	N.P.	
N 30-ZN-66	26	5.561*	0 9.965*	0 75 3536	16	N.P.	
30-ZN-66	26	1.320*	1.320*	1.75 843	1	N.P.	
30-ZN-66	26	1.400*	1.400*	1.56 278	1	N.P.	
30-ZN-66	26	1.400*	1.400*	1.61 361	1	N.P.	
30-ZN-66	26	1.400*	1.400*	1.63 323	1	N.P.	
30-ZN-66	26	1.414*	1.414*	1.57 535	1	N.P.	
30-ZN-66	26	1.440*	1.440*	1.68 2695	1	N.P.	

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

... 2-160 ...

C = 26

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

07/04/76

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

30-ZN-65	26	1.450+	1	1.450+	1	53	27	1	N.P
30-ZN-66	26	1.480+	1	1.480+	1	60	588	1	N.P
30-ZN-66	26	1.480+	1	1.480+	1	67	2005	1	N.P
30-ZN-67	26	3.300+	0	3.300+	0	61	655	1	N.P
30-ZN-67	26	1.400+	1	1.400+	1	61	361	1	N.P
30-ZN-67	26	1.400+	1	1.400+	1	62	323	1	N.P
30-ZN-67	26	1.480+	1	1.480+	1	62	285	1	N.P
30-ZN-68	26	1.480+	1	1.480+	1	60	258	1	N.P
30-ZN-68	26	1.480+	1	1.480+	1	60	598	1	N.P
32-OE-70	26	1.400+	1	1.400+	1	56	278	1	N.P
32-OE-70	26	1.450+	1	1.450+	1	53	27	1	N.P
32-OE-70	26	1.480+	1	1.480+	1	67	2005	1	N.P
32-OE-72	26	1.400+	1	1.400+	1	56	278	1	N.P
32-OE-72	26	1.440+	1	1.440+	1	67	3010	1	N.P
32-OE-72	26	1.480+	1	1.480+	1	67	2005	1	N.P
32-OE-73	26	1.400+	1	1.400+	1	56	278	1	N.P
32-OE-73	26	1.440+	1	1.440+	1	67	3010	1	N.P
32-OE-73	26	1.480+	1	1.480+	1	67	2005	1	N.P
32-OE-74	26	1.440+	1	1.440+	1	67	3010	1	N.P
32-OE-74	26	1.480+	1	1.480+	1	67	2005	1	N.P
33-AS-75	26	7.000+	0	1.490+	1	60	588	7	N.P
33-AS-75	26	1.333+	1	1.496+	1	67	1871	10	N.P
33-AS-75	26	1.410+	1	1.410+	1	66	2894	1	N.P
33-AS-75	26	1.410+	1	1.480+	1	67	3307	2	N.P
34-SI-74	26	1.293+	1	1.360+	1	66	1882	2	N.P
34-SI-74	26	1.403+	1	1.475+	1	66	1874	1	N.P
34-SI-74	26	1.440+	1	1.440+	1	67	1844	1	N.P
34-SI-74	26	1.480+	1	1.480+	1	67	4077	1	N.P
34-SI-74	26	1.480+	1	1.480+	1	67	1805	1	N.P
34-SI-76	26	1.470+	1	1.470+	1	67	1876	1	N.P
34-SI-76	26	1.470+	1	1.470+	1	67	2004	1	N.P
34-SI-76	26	1.470+	1	1.470+	1	69	4077	1	N.P
34-SI-76	26	1.480+	1	1.480+	1	67	2005	1	N.P
34-SI-77	26	1.450+	1	1.450+	1	53	27	1	N.P
34-SI-77	26	1.480+	1	1.480+	1	67	2005	1	N.P
34-SI-78	26	1.440+	1	1.440+	1	67	1844	1	N.P
34-SI-78	26	1.470+	1	1.470+	1	68	4077	1	N.P
34-SI-80	26	1.460+	1	1.460+	1	62	702	1	N.P
35-BR-81	26	1.440+	1	1.440+	1	68	2842	1	N.P
36-KR-82	26	1.440+	1	1.440+	1	68	2642	1	N.P
36-KR-84	26	1.280+	1	1.680+	1	55	1857	5	N.P
37-RQ-NAT	26	1.440+	1	1.440+	1	68	2002	1	N.P
37-RQ-87	26	1.480+	1	1.480+	1	70	3150	1	N.P
38-SR-NAT	26	1.400+	1	1.400+	1	61	361	1	N.P
38-SR-86	26	1.340+	1	1.493+	1	60	588	6	N.P
38-SR-86	26	1.400+	1	1.400+	1	63	323	1	N.P
38-SR-86	26	1.480+	1	1.480+	1	62	702	1	N.P
38-SR-88	26	1.480+	1	1.480+	1	68	4077	1	N.P
38-SR-88	26	1.300+	1	1.750+	1	58	35	17	N.P
38-SR-88	26	1.400+	1	1.400+	1	63	323	1	N.P

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECS:1-600 REACTION INDEX (REACTION NO. ORDERED)

C = 26

TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
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38-SR-88	26	1.450*	1.450*	1.450*	53 27	1	N.P
38-SR-88	26	1.460*	1.460*	1.460*	62 702	1	N.P
38-SR-88	26	1.480*	1.480*	1.480*	61 701	1	N.P
38-SR-88	26	1.480*	1.480*	1.480*	68 4071	1	N.P
38-SR-88	26	1.480*	1.480*	1.480*	70 3150	1	N.P
39-Y -89	26	7.000*	1.976*	1.976*	60 588	18	N.P
39-Y -89	26	9.350*	0	1.400*	60 590	5	N.P
39-Y -89	26	1.470*	1.470*	1.470*	66 1675	1	N.P
39-Y -89	26	1.480*	1.480*	1.480*	68 4071	1	N.P
40-ZR-NAT	26	1.400*	1.400*	1.400*	61 361	1	N.P
40-ZR-NAT	26	1.410*	1.410*	1.410*	55 125	1	N.P
40-ZR-90	26	2.350*	0	1.513*	64 978	11	N.P
40-ZR-90	26	8.000*	0	1.976*	73 4068	4	N.P
40-ZR-90	26	1.400*	1.400*	1.400*	60 389	17	N.P
40-ZR-90	26	1.400*	1.400*	1.400*	60 523	1	N.P
40-ZR-90	26	1.450*	1.450*	1.450*	60 584	1	N.P
40-ZR-90	26	1.450*	0	6.020*	62 702	4	N.P
40-ZR-91	26	1.400*	1.400*	1.400*	64 978	1	N.P
40-ZR-91	26	1.410*	1.410*	1.410*	63 323	1	N.P
40-ZR-91	26	1.420*	1.420*	1.420*	60 644	1	N.P
40-ZR-91	26	1.460*	1.460*	1.460*	62 702	1	N.P
40-ZR-92	26	1.400*	1.400*	1.400*	61 701	1	N.P
40-ZR-92	26	1.410*	1.410*	1.410*	63 323	1	N.P
40-ZR-92	26	1.410*	1.410*	1.410*	60 644	1	N.P
40-ZR-92	26	1.450*	1.450*	1.450*	63 860	1	N.P
40-ZR-92	26	1.460*	1.460*	1.460*	62 702	1	N.P
40-ZR-92	26	1.480*	1.480*	1.480*	61 701	1	N.P
40-ZR-92	26	1.480*	1.480*	1.480*	63 756	1	N.P
40-ZR-94	26	1.400*	1.400*	1.400*	63 323	1	N.P
40-ZR-94	26	1.410*	1.410*	1.410*	60 644	1	N.P
40-ZR-94	26	1.450*	1.450*	1.450*	53 27	1	N.P
40-ZR-94	26	1.450*	1.450*	1.450*	63 860	1	N.P
40-ZR-94	26	1.460*	1.460*	1.460*	62 702	1	N.P
40-ZR-94	26	1.480*	1.480*	1.480*	61 701	1	N.P
40-ZR-94	26	1.480*	1.480*	1.480*	63 756	1	N.P
40-ZR-96	26	1.450*	1.450*	1.450*	61 2181	1	N.P
40-ZR-NAT	26	1.400*	1.400*	1.400*	61 361	1	N.P
42-MO-92	26	1.341*	1.492*	1.492*	72 3774	10	N.P
42-MO-92	26	1.460*	1.460*	1.460*	62 702	1	N.P
42-MO-96	26	1.410*	1.410*	1.410*	67 1897	1	N.P
42-MO-96	26	1.460*	1.460*	1.460*	62 702	1	N.P
42-MO-96	26	1.480*	1.480*	1.480*	63 756	1	N.P
42-MO-97	26	1.410*	1.410*	1.410*	67 1887	1	N.P
42-MO-97	26	1.450*	1.450*	1.450*	53 27	1	N.P
42-MO-97	26	1.460*	1.460*	1.460*	62 702	1	N.P
43-TC-99	26	1.410*	1.410*	1.410*	55 2140	1	N.P
44-RU-96	26	1.470*	1.470*	1.470*	55 2141	1	N.P
44-RU-100	26	1.460*	1.460*	1.460*	55 2142	1	N.P
44-RU-103	26	1.470*	1.470*	1.470*	53 27	1	N.P
44-RU-103	26	1.470*	1.470*	1.470*	55 2141	1	N.P
44-RU-105	26	1.460*	1.460*	1.460*	55 2142	1	N.P
44-RU-104	26	1.470*	1.470*	1.470*	55 2141	1	N.P

TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
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... 2-162 ...

C = 26

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 26

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
46-PD-105	26	1.440+	1	1.440+	1	68 2853	1 N,P
47-AG-109	26	7.000+	0	1.976+	1	60 588	15 N,P
47-AG-109	26	1.400+	1	1.400+	1	57 350	1 N,P
47-AG-109	26	1.400+	1	1.400+	1	63 2174	1 N,P
47-AG-109	26	1.450+	1	1.450+	1	59 550	1 N,P
48-CD-NAT	26	1.400+	1	1.400+	1	31 361	1 N,P
48-CD-106	26	1.400+	1	1.400+	1	57 351	1 N,P
48-CD-110	26	1.410+	1	1.410+	1	67 1780	1 N,P
48-CD-111	26	7.000+	0	1.976+	1	60 588	16 N,P
48-CD-111	26	1.400+	1	1.400+	1	63 323	1 N,P
48-CD-111	26	1.410+	1	1.410+	1	67 1780	1 N,P
N 48-CD-112	26	1.300+	1	1.660+	1	75 4012	8 N,P
48-CD-112	26	1.400+	1	1.400+	1	57 351	1 N,P
48-CD-112	26	1.400+	1	1.400+	1	63 323	1 N,P
48-CD-112	26	1.410+	1	1.410+	1	67 1780	1 N,P
48-CD-112	26	1.440+	1	1.440+	1	68 2853	1 N,P
48-CD-113	26	1.400+	1	1.400+	1	57 351	1 N,P
48-CD-113	26	1.400+	1	1.400+	1	63 323	1 N,P
48-CD-113	26	1.410+	1	1.410+	1	67 1780	1 N,P
N 48-CD-116	26	1.410+	1	1.410+	1	67 1780	1 N,P
48-CD-116	26	1.470+	1	1.470+	1	73 3898	1 N,P
49-IN-NAT	26	1.400+	1	1.400+	1	61 361	1 N,P
49-IN-115	26	1.450+	1	1.450+	1	59 550	1 N,P
50-SN-NAT	26	1.400+	1	1.400+	1	61 361	1 N,P
50-SN-112	26	1.410+	1	1.410+	1	64 2184	1 N,P
50-SN-116	26	1.420+	1	1.420+	1	63 2185	1 N,P
50-SN-117	26	1.410+	1	1.410+	1	64 2184	1 N,P
50-SN-117	26	1.420+	1	1.420+	1	63 2185	1 N,P
51-SB-NAT	26	1.400+	1	1.400+	1	61 361	1 N,P
52-TE-NAT	26	1.400+	1	1.400+	1	61 361	1 N,P
52-TE-124	26	1.420+	1	1.420+	1	63 2185	1 N,P
52-TE-128	26	1.420+	1	1.420+	1	63 2185	1 N,P
52-TE-128	26	1.400+	1	1.480+	1	68 2314	1 N,P
52-TE-130	26	1.420+	1	1.420+	1	63 2185	1 N,P
N 53-I -127	26	2.600+	0	2.600+	0	63 3824	1 N,P
53-I -127	26	1.400+	1	1.400+	1	60 586	1 N,P
53-I -127	26	1.400+	1	1.400+	1	61 361	1 N,P
53-I -127	26	1.450+	1	1.450+	1	53 27	1 N,P
53-I -127	26	1.450+	1	1.450+	1	59 550	1 N,P
54-XE-134	26	1.440+	1	1.440+	1	68 2842	1 N,P
56-BA-136	26	1.450+	1	1.450+	1	59 550	1 N,P
56-BA-136	26	1.480+	1	1.480+	1	60 672	1 N,P
N 56-BA-136	26	1.480+	1	1.480+	1	68 4071	1 N,P
56-BA-138	26	1.400+	1	1.400+	1	63 323	1 N,P
56-BA-138	26	1.450+	1	1.450+	1	53 27	1 N,P
56-BA-138	26	1.450+	1	1.450+	1	59 550	1 N,P
56-BA-138	26	1.480+	1	1.480+	1	60 672	1 N,P
N 56-BA-138	26	1.480+	1	1.480+	1	68 4071	1 N,P
57-LA-139	26	1.400+	1	1.400+	1	65 2216	1 N,P
57-LA-139	26	1.450+	1	1.450+	1	53 27	1 N,P
57-LA-139	26	1.450+	1	1.450+	1	59 550	1 N,P
57-LA-139	26	1.470+	1	1.470+	1	66 1675	1 N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-163 ***

C = 26

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 26

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	26-NI-58	26	1	1.460	1	1.460	73 3987	1 N,P
N	29-CU-65	26	1	1.460	1	1.460	73 3987	1 N,P
N	30-ZN-64	26	1	1.460	1	1.460	73 3987	1 N,P
N	33-ZN-66	26	1	1.460	1	1.460	73 3987	1 N,P
N	33-AS-75	26	1	1.460	1	1.460	73 3987	1 N,P
N	38-SR-88	26	1	1.460	1	1.460	73 3987	1 N,P
N	4-BE-9	26	2	1.450	1	1.490	73 3492	2 N,P
N	6-C-12	26	2	1.410	1	1.480	72 4028	2 N,P
N	8-O-17	26	2	1.410	1	1.410	70 3165	1 N,P
	12-MG-NAT	26	2	1.450	1	1.450	59 829	1 N,P
	12-MG-24	26	2	1.480	1	1.480	71 3200	1 N,P
	14-SI-30	26	2	1.400	1	1.400	63 2033	1 N,P
	14-SI-30	26	2	1.440	1	1.440	68 2695	1 N,P
	14-SI-30	26	2	1.500	1	1.500	71 3199	1 N,P
	33-AS-75	26	2	1.275	1	1.675	67 2888	15 N,P
N	33-AS-75	26	2	1.300	1	1.650	75 3818	8 N,P
N	33-AS-75	26	2	1.339	1	1.496	67 1871	10 N,P
	33-AS-75	26	2	1.410	1	1.410	61 704	1 N,P
	33-AS-75	26	2	1.410	1	1.410	66 2894	1 N,P
	33-AS-75	26	2	1.420	1	1.420	69 2334	1 N,P
	46-PD-104	26	2	1.450	1	1.450	53 27	1 N,P
N	46-PD-106	26	2	1.440	1	1.440	70 3433	1 N,P
N	46-PD-108	26	2	1.440	1	1.440	70 3433	1 N,P
	50-SN-116	26	2	1.420	1	1.420	63 2185	1 N,P
	50-SN-116	26	2	1.490	1	1.490	65 2186	1 N,P
	50-SN-118	26	2	1.490	1	1.490	65 2186	1 N,P
	50-SN-120	26	2	1.450	1	1.450	63 2183	1 N,P
	50-SN-120	26	2	1.480	1	1.480	60 2188	2 N,P
N	78-PT-198	26	2	1.500	1	1.500	73 4000	1 N,P
	13-AL-27	26	3	1.400	1	1.400	59 619	1 N,P
	13-AL-27	26	3	1.410	1	1.410	61 830	1 N,P
	22-TI-49	26	3	1.400	1	1.400	59 619	1 N,P
N	22-TI-49	26	3	1.480	1	1.480	69 4083	1 N,P
	22-TI-50	26	3	1.400	1	1.400	59 619	1 N,P
N	22-TI-50	26	3	1.480	1	1.480	63 756	1 N,P
N	22-TI-50	26	3	1.480	1	1.480	69 4083	1 N,P
N	28-NI-60	26	3	8.190	0	1.400	67 3786	2 N,P
	28-NI-60	26	3	1.450	1	1.450	63 1009	1 N,P
	28-NI-60	26	3	1.480	1	1.480	58 598	1 N,P
N	28-NI-61	26	3	1.480	1	1.480	69 4083	1 N,P
	28-NI-62	26	3	1.410	1	1.410	62 868	2 N,P
	28-NI-62	26	3	1.410	1	1.410	66 1768	1 N,P
	28-NI-62	26	3	1.450	1	1.450	63 1009	1 N,P
	28-NI-62	26	3	1.480	1	1.480	60 598	2 N,P
N	28-NI-62	26	3	1.480	1	1.480	69 4083	2 N,P
	28-NI-64	26	3	1.410	1	1.410	62 868	2 N,P
	28-NI-64	26	3	1.480	1	1.480	60 598	2 N,P
	31-GA-69	26	3	1.480	1	1.480	67 2005	1 N,P
	31-GA-71	26	3	1.480	1	1.480	67 2005	1 N,P
	32-GE-73	26	3	1.450	1	1.450	53 27	1 N,P
N	33-AS-75	26	3	1.300	1	1.780	75 3818	10 N,P
	33-AS-75	26	3	1.410	1	1.410	61 704	1 N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-165 ***

C = 26

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 26

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	33-AS-75	26	3	1.420+	1.420+	69 2334	1	N,P
	33-AS-75	26	3	1.440+	1.440+	71 3184	1	N,P
	33-AS-75	26	3	1.450+	1.450+	53 27	1	N,P
	33-AS-75	26	3	1.480+	1.480+	67 2006	1	N,P
	34-SE-78	26	3	1.470+	1.470+	67 1876	2	N,P
	34-SE-78	26	3	1.480+	1.480+	67 2006	1	N,P
	35-BR-79	26	3	1.480+	1.480+	66 3380	1	N,P
	35-BR-81	26	3	1.440+	1.440+	71 3184	1	N,P
	35-BR-81	26	3	1.460+	1.460+	62 702	2	N,P
N	35-BR-81	26	3	1.480+	1.480+	66 3380	2	N,P
	35-BR-81	26	3	1.480+	1.480+	67 2006	2	N,P
	37-RB-87	26	3	1.440+	1.440+	71 3184	1	N,P
	38-SR-86	26	3	1.480+	1.480+	70 3150	1	N,P
N	38-SR-86	26	3	1.480+	1.480+	72 3832	1	N,P
	3F-SR-88	26	3	1.440+	1.440+	71 3184	1	N,P
	40-ZR-91	26	3	1.410+	1.410+	60 844	1	N,P
N	40-ZR-91	26	3	1.440+	1.440+	70 3433	1	N,P
N	40-ZR-94	26	3	1.480+	1.480+	69 4083	1	N,P
N	42-MO-94	26	3	1.480+	1.480+	63 756	1	N,P
N	42-MO-97	26	3	1.440+	1.440+	70 3433	2	N,P
	42-MO-98	26	3	1.410+	1.410+	67 1887	1	N,P
N	42-MO-98	26	3	1.440+	1.440+	70 3433	1	N,P
N	42-MO-98	26	3	1.480+	1.480+	63 756	1	N,P
	42-MO-98	26	3	1.480+	1.480+	66 2137	2	N,P
	45-RH-103	26	3	1.480+	1.480+	68 2707	1	N,P
N	46-PD-106	26	3	1.440+	1.440+	70 3433	1	N,P
N	47-AG-109	26	3	1.300+	1.650+	73 3986	8	N,P
	48-CD-106	26	3	1.278+	1.942+	58 2891	10	N,P
N	48-CD-106	26	3	1.440+	1.440+	70 3834	1	N,P
	50-SN-112	26	3	1.410+	1.410+	64 2184	1	N,P
C	50-SN-112	26	3	1.440+	1.440+	68 2427	2	N,P
N	50-SN-112	26	3	1.440+	1.440+	70 3834	2	N,P
	50-SN-112	26	3	1.450+	1.450+	63 2183	1	N,P
	50-SN-116	26	3	1.420+	1.420+	63 2185	1	N,P
	50-SN-116	26	3	1.440+	1.440+	68 2427	1	N,P
N	50-SN-116	26	3	1.440+	1.440+	70 3433	1	N,P
	50-SN-116	26	3	1.450+	1.450+	63 2183	1	N,P
	50-SN-116	26	3	1.480+	1.480+	65 2186	1	N,P
N	50-SN-117	26	3	1.300+	1.730+	75 3818	9	N,P
	50-SN-117	26	3	1.440+	1.440+	68 2427	1	N,P
N	50-SN-117	26	3	1.440+	1.440+	70 3433	1	N,P
N	50-SN-117	26	3	1.480+	1.480+	72 3868	1	N,P
	50-SN-117	26	3	1.490+	1.490+	65 2186	2	N,P
	50-SN-118	26	3	1.440+	1.440+	68 2427	1	N,P
	50-SN-118	26	3	1.450+	1.450+	63 2183	1	N,P
	50-SN-118	26	3	1.490+	1.490+	65 2186	1	N,P
	50-SN-119	26	3	1.440+	1.440+	68 2427	2	N,P
	50-SN-119	26	3	1.450+	1.450+	63 2183	1	N,P
	50-SN-119	26	3	1.490+	1.490+	65 2186	2	N,P
	52-TE-124	26	3	1.420+	1.420+	63 2185	1	N,P
	52-TE-124	26	3	1.490+	1.490+	65 2186	2	N,P
N	52-TE-126	26	3	1.470+	1.470+	74 4002	1	N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-167 ***

C = 26

07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

C = 26

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
52-12-126	26	3	1.480+	1.480+	68 2314	1	N.P
52-12-126	26	3	1.420+	1.420+	63 2185	1	N.P
52-12-126	26	3	1.470+	1.470+	74 4002	1	N.P
52-12-126	26	3	1.480+	1.480+	68 2314	1	N.P
52-12-126	26	3	1.480+	1.480+	72 3868	1	N.P
52-12-126	26	3	1.490+	1.490+	65 2185	2	N.P
52-12-126	26	3	1.420+	1.420+	63 2185	2	N.P
52-12-130	26	3	1.490+	1.490+	65 2186	2	N.P
52-12-130	26	3	1.440+	1.440+	70 3433	1	N.P
52-12-130	26	3	1.410+	1.410+	61 704	1	N.P
52-12-130	26	3	1.470+	1.470+	75 4003	1	N.P
52-12-130	26	3	1.480+	1.480+	72 3820	46	N.P
52-12-130	26	3	1.450+	1.450+	63 376	5	N.P
52-12-130	26	3	1.450+	1.450+	62 562	6	N.P
52-12-130	26	3	1.450+	1.450+	67 1871	1	N.P
52-12-130	26	3	1.450+	1.450+	66 1768	1	N.P
52-12-130	26	3	1.450+	1.450+	63 1009	1	N.P
52-12-130	26	3	1.480+	1.480+	60 598	1	N.P
52-12-130	26	3	1.480+	1.480+	69 4083	1	N.P
52-12-130	26	3	1.450+	1.450+	53 27	1	N.P
52-12-130	26	3	1.480+	1.480+	67 2005	5	N.P
52-12-130	26	3	1.521+	1.521+	52 562	10	N.P
52-12-130	26	3	1.500+	1.500+	73 3818	1	N.P
52-12-130	26	3	1.480+	1.480+	67 2005	1	N.P
52-12-130	26	3	1.450+	1.450+	63 284	1	N.P
52-12-130	26	3	1.450+	1.450+	68 1885	10	N.P
52-12-130	26	3	1.450+	1.450+	68 1885	5	N.P
52-12-130	26	3	1.450+	1.450+	74 4010	1	N.P
52-12-130	26	3	1.440+	1.440+	68 2002	1	N.P
52-12-130	26	3	1.440+	1.440+	71 3194	1	N.P
52-12-130	26	3	1.480+	1.480+	70 3150	1	N.P
52-12-130	26	3	1.480+	1.480+	72 3832	1	N.P
52-12-130	26	3	1.440+	1.440+	70 3433	1	N.P
52-12-130	26	3	1.450+	1.450+	63 860	1	N.P
52-12-130	26	3	1.470+	1.470+	62 770	1	N.P
52-12-130	26	3	1.480+	1.480+	69 4083	1	N.P
52-12-130	26	3	1.480+	1.480+	70 3150	1	N.P
52-12-130	26	3	1.480+	1.480+	72 3832	1	N.P
52-12-130	26	3	1.480+	1.480+	75 3562	1	N.P
52-12-130	26	3	1.440+	1.440+	70 33	1	N.P
52-12-130	26	3	1.480+	1.480+	69 4083	1	N.P
52-12-130	26	3	1.440+	1.440+	70 3433	1	N.P
52-12-130	26	3	1.440+	1.440+	70 3433	1	N.P
52-12-130	26	3	1.440+	1.440+	70 3433	1	N.P
52-12-130	26	3	1.440+	1.440+	53 27	1	N.P
52-12-130	26	3	1.450+	1.450+	69 4083	1	N.P
52-12-130	26	3	1.360+	1.360+	61 660	1	N.P
52-12-130	26	3	1.480+	1.480+	70 3433	1	N.P
52-12-130	26	3	1.440+	1.440+	68 2427	1	N.P
52-12-130	26	3	1.420+	1.420+	63 2185	2	N.P
52-12-130	26	3	1.440+	1.440+	68 2427	1	N.P

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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C = 26

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 26

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	50-SN-117	26	4	1.440+1	1.440+1	70 3433	1 N,P
N	50-SN-117	26	4	1.480+1	1.480+1	72 3868	1 N,P
	52-TE-128	26	4	1.420+1	1.420+1	63 2185	1 N,P
	52-TE-128	26	4	1.480+1	1.480+1	68 2314	1 N,P
	52-TE-128	26	4	1.490+1	1.490+1	65 2186	1 N,P
	53-I -127	26	4	1.470+1	1.470+1	68 2483	2 N,P
N	53-I -127	26	4	1.480+1	1.480+1	69 4083	1 N,P
N	54-XE-130	26	4	1.440+1	1.440+1	68 2842	1 N,P
N	54-XE-132	26	4	1.440+1	1.440+1	60 2842	1 N,P
N	58-CE-140	26	4	1.440+1	1.440+1	70 3433	1 N,P
N	65-TB-159	26	4	1.480+1	1.480+1	72 3832	1 N,P
	67-HO-165	26	4	1.410+1	1.410+1	61 704	1 N,P
N	76-OS-188	26	4	1.470+1	1.470+1	75 4003	1 N,P
N	76-OS-189	26	4	1.470+1	1.470+1	75 4003	1 N,P
N	76-OS-190	26	4	1.470+1	1.470+1	75 4003	1 N,P
N	17-CL-35	26	5	1.460+1	1.460+1	64 3685	2 N,P
N	22-TI-46	26	5	1.480+1	1.480+1	69 4083	1 N,P
N	22-TI-47	26	5	1.480+1	1.480+1	69 4083	1 N,P
N	22-TI-48	26	5	1.480+1	1.480+1	69 4083	1 N,P
N	23-V -51	26	5	1.480+1	1.480+1	69 4083	1 N,P
	26-FE-54	26	5	1.400+1	1.400+1	61 651	1 N,P
	27-CO-59	26	5	1.255+1	2.100+1	63 374	8 N,P
	28-NI-58	26	5	1.410+1	1.410+1	66 1768	1 N,P
	28-NI-58	26	5	1.480+1	1.480+1	60 598	1 N,P
N	28-NI-58	26	5	1.480+1	1.480+1	69 4083	1 N,P
N	40-ZR-90	26	5	1.480+1	1.480+1	69 4083	1 N,P
	40-ZR-91	26	5	1.410+1	1.410+1	60 644	1 N,P
N	40-ZR-91	26	5	1.480+1	1.480+1	69 4083	1 N,P
N	42-MO-92	26	5	1.440+1	1.440+1	70 3433	1 N,P
N	42-MO-92	26	5	1.480+1	1.480+1	63 756	1 N,P
N	42-MO-92	26	5	1.480+1	1.480+1	75 3562	1 N,P
N	44-RU-96	26	5	1.410+1	1.410+1	70 3340	1 N,P
N	44-RU-96	26	5	1.440+1	1.440+1	70 3433	1 N,P
N	48-CO-106	26	5	1.440+1	1.440+1	70 3834	1 N,P
	49-IN-115	26	5	1.410+1	1.410+1	70 3340	1 N,P
N	49-IN-115	26	5	1.480+1	1.480+1	69 4083	2 N,P
	52-TE-124	26	5	1.420+1	1.420+1	63 2185	1 N,P
	52-TE-124	26	5	1.490+1	1.490+1	65 2186	1 N,P
	53-I -127	26	5	1.470+1	1.470+1	68 2483	1 N,P
N	53-I -127	26	5	1.480+1	1.480+1	69 4083	1 N,P
N	54-XL-131	26	5	1.440+1	1.440+1	68 2842	1 N,P
	62-SM-148	26	5	1.420+1	1.420+1	69 2334	2 N,P
N	76-OS-184	26	5	1.470+1	1.470+1	75 4003	1 N,P
N	28-NI-60	26	6	1.480+1	1.480+1	69 4083	1 N,P
	13-AL-27	26	7	1.400+1	1.400+1	64 1859	1 N,P
	14-SI-28	26	7	1.400+1	1.400+1	64 1859	1 N,P
	26-FE-56	26	7	1.400+1	1.400+1	64 1859	1 N,P
	16-S -32	26	8	1.400+1	1.400+1	60 849	1 N,P
	12-MG-24	26	80	1.360+1	1.460+1	68 2596	6 N,P
	22-TI-48	26	80	1.360+1	1.460+1	68 2596	6 N,P
	26-FE-56	26	80	1.360+1	1.460+1	68 2596	6 N,P
	14-SI-28	26	81	4.750+0	5.450+0	63 926	22 N,P

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-169 ***

C = 26

07/04/76

ECOSIL-200 REACTION INDEX (REACTION NO. ORDERED)

C = 27

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	27		1.320+	1.320+	57 847	1	N.X P
13-AL-27	27		1.480+	1.480+	61 658	1	N.X P
16-S-32	27		1.460+	1.460+	63 224	1	N.X P
25-MN-55	27		1.400+	1.400+	58 1818	1	N.X P
26-FE-54	27		1.400+	1.400+	59 1840	1	N.X P
26-FE-56	27		1.320+	1.320+	57 847	1	N.X P
28-NI-7	27		1.480+	1.480+	60 630	1	N.X P
29-CU-NAT	27		1.400+	1.400+	58 441	1	N.X P
29-CU-NAT	27		1.400+	1.400+	59 1840	1	N.X P
30-ZN-NAT	27		1.440+	1.440+	62 688	1	N.X P
30-ZN-64	27		1.400+	1.400+	56 25	1	N.X P
45-RH-103	27		1.320+	1.320+	57 847	1	N.X P
50-SN-119	27	3	1.450+	1.450+	63 2133	1	N.X P
2-ME-NAT	28		2.209+	2.238+	64 796	9	N.D
2-ME-3	28		4.360+ 0	1.400+	62 984	8	N.D
2-ME-3	28		5.000+ 0	8.070+ 0	60 578	2	N.D
2-ME-3	28		1.440+	1.440+	67 1614	1	N.D
3-LI-7	28		1.410+	1.410+	53 86	1	N.D
3-LI-7	28		1.410+	1.410+	61 487	1	N.D
3-LI-7	28		1.480+	1.480+	63 842	1	N.D
4-BE-9	28		1.654+	1.879+	69 3101	17	N.D
8-O-16	28		1.410+	1.410+	52 79	1	N.D
18-AR-40	28		1.470+	1.470+	65 1781	1	N.D
20-CA-43	28		1.420+	1.420+	68 1944	1	N.D
20-CA-44	28		1.420+	1.420+	68 1944	1	N.D
28-NI-58	28		1.480+	1.480+	61 654	1	N.D
34-SE-77	28		1.470+	1.470+	69 4077	1	N.D
40-ZR-96	28		1.480+	1.480+	63 859	1	N.D
46-PD-108	28		1.480+	1.480+	63 859	1	N.D
50-SN-112	28		1.410+	1.410+	70 3340	1	N.D
74-W-184	28		1.480+	1.480+	63 859	1	N.D
74-W-186	28		1.480+	1.480+	63 859	1	N.D
46-PD-110	28	2	1.480+	1.480+	63 859	1	N.D
44-RU-96	28	4	1.410+	1.410+	70 3340	1	N.D
44-RU-96	28	5	1.410+	1.410+	70 3340	1	N.D
46-PD-102	28	5	1.410+	1.410+	70 3340	1	N.D
3-LI-6	30		1.038- 3	3.270- 1	74 3801	159	N.T
3-LI-6	30		2.433- 3	1.711+ 0	74 3259	152	N.T
3-LI-6	30		9.000- 3	3.420- 1	59 525	29	N.T
3-LI-6	30		9.100- 3	7.300- 1	56 1628	24	N.T
3-LI-6	30		1.400- 2	1.700+ 0	72 3803	117	N.T
3-LI-6	30		2.500- 2	1.000- 1	66 1631	3	N.T
3-LI-6	30		6.500- 2	5.450- 1	76 3845	28	N.T
3-LI-6	30		9.100- 2	1.500+ 0	74 3451	67	N.T
3-LI-6	30		1.560- 1	3.900+ 0	72 3791	68	N.T
3-LI-6	30		2.700- 1	2.700- 1	53 1626	1	N.T
3-LI-6	30		1.500+ 0	2.000+ 0	54 109	2	N.T
3-LI-6	30		2.160+ 0	9.660+ 0	75 3597	24	N.T
3-LI-6	30		2.490+ 0	1.420+ 1	52 1637	2	N.T
3-LI-6	30		2.500+ 0	1.410+ 1	60 586	2	N.T
3-LI-6	30		2.700+ 0	1.440+ 1	67 2691	2	N.T
3-LI-6	30		1.250+ 1	1.825+ 1	58 495	35	N.T

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-170 ***

C = 30

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 30

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
3-LI-6	30		1.410+	1.410+	61 487	1	N,T
3-LI-7	30		1.410+	1.410+	61 487	1	N,T
4-BE-9	30		1.400+	1.600+	58 494	3	N,T
4-BE-9	30		1.410+	1.410+	58 496	1	N,T
4-BE-9	30		1.410+	1.410+	61 650	1	N,T
4-BE-9	30		1.470+	1.470+	73 3996	1	N,T
N 5-B -NAT	30		1.470+	1.470+	73 3996	1	N,T
N 5-B -10	30		1.360+	0.260+	61 742	56	N,T
5-B -10	30		4.000+	0.410+	58 498	4	N,T
5-B -10	30		5.600+	0.950+	56 144	7	N,T
5-B -11	30		1.410+	1.410+	58 496	1	N,T
N 6-C -13	30		1.470+	1.470+	73 3996	1	N,T
N 13-AL-27	30		1.470+	1.470+	73 3996	1	N,T
16-S -32	30		1.460+	1.460+	61 661	1	N,T
N 16-S -32	30		1.460+	1.460+	74 3823	1	N,T
16-S -32	30		1.470+	1.470+	62 1770	1	N,T
N 16-S -32	30		1.470+	1.470+	68 3369	1	N,T
16-S -32	30		1.470+	1.960+	66 1682	6	N,T
16-S -32	30		1.480+	1.480+	65 1697	1	N,T
N 19-K -NAT	30		1.470+	1.470+	73 3996	1	N,T
N 19-K -39	30		1.470+	1.470+	73 3996	1	N,T
N 20-CA-40	30		1.460+	1.460+	74 3823	1	N,T
20-CA-40	30		1.470+	1.470+	68 3369	1	N,T
N 20-CA-40	30		1.480+	1.480+	65 1697	1	N,T
N 22-TI -NAT	30		1.470+	1.470+	73 3996	1	N,T
N 26-FE -NAT	30		1.470+	1.470+	73 3996	1	N,T
N 27-CO-59	30		1.470+	1.470+	73 3996	1	N,T
27-CO-59	30		1.480+	1.480+	65 1697	1	N,T
N 29-CU -NAT	30		1.470+	1.470+	73 3996	1	N,T
N 30-ZN -NAT	30		1.470+	1.470+	73 3996	1	N,T
N 30-ZN-64	30		1.460+	1.460+	74 3823	1	N,T
30-ZN-64	30		1.470+	1.470+	68 2708	1	N,T
N 45-RH-103	30		1.470+	1.470+	73 3996	1	N,T
7-N -14	30	1	5.366+	0.8198+	0 59 523	65	N,T
7-N -14	30	1	5.650+	0.6370+	0 66 2896	14	N,T
7-N -14	30	1	1.570+	1.570+	67 1943	1	N,T
20-CA-40	30	3	1.420+	1.420+	68 1944	1	N,T
N 26-FE-54	30	3	1.460+	1.460+	74 3823	1	N,T
26-FE-54	30	3	1.480+	1.480+	61 679	1	N,T
N 39-Y -89	30	4	1.460+	1.460+	74 3823	1	N,T
4-BE-9	30	7	1.357+	1.473+	59 605	10	N,T
13-AL-27	32		1.480+	1.480+	60 667	1	N,HE-3
N 15-P -31	32		1.400+	1.400+	71 3816	1	N,HE-3
15-P -31	32		1.480+	1.480+	60 667	1	N,HE-3
N 19-K -41	32		1.400+	1.400+	71 3816	1	N,HE-3
23-V -51	32		1.480+	1.480+	60 667	1	N,HE-3
N 25-MN-55	32		1.400+	1.400+	71 3816	1	N,HE-3
25-MN-55	32		1.480+	1.480+	60 667	1	N,HE-3
N 27-CO-59	32		1.400+	1.400+	71 3816	1	N,HE-3
27-CO-59	32		1.480+	1.480+	60 667	1	N,HE-3
N 27-CO-59	32		1.480+	1.480+	65 2151	1	N,HE-3
29-CU-63	32		1.400+	1.400+	71 3816	1	N,HE-3

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-171 ***

C = 32

07/04/76

CCSIL-760C REACTION INDEX (REACTION NO. ORDERED)

C = 32

S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

29-CU-63	32	1.410*	1.410*	1.61	651	1	N, HE-3
29-CU-65	32	1.480*	1.480*	1.60	598	1	N, HE-3
31-GA-71	32	1.400*	1.400*	1.71	3816	1	N, HE-3
33-AS-75	32	1.400*	1.400*	1.71	3816	1	N, HE-3
33-AS-75	32	1.480*	1.480*	1.60	667	1	N, HE-3
33-AS-75	32	1.480*	1.480*	1.65	2151	1	N, HE-3
40-ZR-96	32	1.400*	1.400*	1.71	3816	1	N, HE-3
41-NB-83	32	1.400*	1.400*	1.71	3816	1	N, HE-3
45-RH-103	32	1.400*	1.400*	1.71	3816	1	N, HE-3
45-RH-103	32	1.470*	1.470*	1.66	1919	1	N, HE-3
45-RH-103	32	1.480*	1.480*	1.60	667	1	N, HE-3
45-RH-103	32	1.480*	1.480*	1.63	2151	1	N, HE-3
47-AO-109	32	1.480*	1.480*	1.69	2707	1	N, HE-3
47-AO-109	32	1.400*	1.400*	1.71	3816	1	N, HE-3
52-IR-115	32	1.400*	1.400*	1.71	3816	1	N, HE-3
52-IR-130	32	1.400*	1.400*	1.71	3816	1	N, HE-3
52-IR-130	32	1.470*	1.470*	1.95	2212	1	N, HE-3
52-IR-183	32	1.400*	1.400*	1.71	3816	1	N, HE-3
70-PC-NAT	34	1.800*	1.700*	1.50	1634	5	N, HE-3
3-LI-6	34	2.800*	3.580*	1.50	1634	83	N, ALPHA
3-LI-6	34	1.070*	2.100*	1.57	1020	7	N, ALPHA
3-LI-6	34	1.000*	1.000*	1.64	3333	1	N, ALPHA
3-LI-6	34	8.800*	1.410*	1.58	1147	8	N, ALPHA
3-LI-6	34	1.500*	0.7960*	1.59	506	31	N, ALPHA
3-LI-6	34	2.010*	0.2680*	1.59	741	47	N, ALPHA
3-LI-6	34	2.150*	0.2150*	1.60	832	1	N, ALPHA
3-LI-6	34	2.500*	0.2500*	1.57	492	1	N, ALPHA
4-BE-9	34	7.400*	0.4410*	1.57	160	53	N, ALPHA
4-BE-9	34	1.000*	0.7000*	1.58	494	7	N, ALPHA
4-BE-9	34	3.910*	0.8590*	1.61	733	54	N, ALPHA
4-BE-9	34	1.410*	1.410*	1.53	86	1	N, ALPHA
4-BE-9	34	1.410*	1.410*	1.61	650	1	N, ALPHA
5-B-NAT	34	3.700*	1.2700*	0.51	71	152	N, ALPHA
5-B-10	34	2.443*	1.718*	0.74	3259	15	N, ALPHA
5-B-10	34	6.800*	3.6800*	1.63	802	28	N, ALPHA
5-B-10	34	1.070*	2.470*	1.67	1020	12	N, ALPHA
5-B-10	34	2.000*	2.710*	1.65	1649	8	N, ALPHA
5-B-10	34	2.000*	2.4780*	1.57	392	89	N, ALPHA
5-B-10	34	2.900*	2.500*	1.56	278	27	N, ALPHA
5-B-10	34	1.260*	1.2000*	1.56	145	9	N, ALPHA
5-B-11	34	1.410*	1.410*	1.59	539	1	N, ALPHA
5-B-11	34	1.470*	1.470*	1.62	88	1	N, ALPHA
5-B-11	34	1.003*	0.2110*	1.50	62	70	N, ALPHA
5-B-11	34	1.410*	1.410*	1.52	79	1	N, ALPHA
5-B-11	34	3.352*	0.248*	1.57	306	108	N, ALPHA
5-B-11	34	3.352*	0.248*	1.57	2601	408	N, ALPHA
5-B-11	34	3.352*	0.248*	1.57	2601	408	N, ALPHA
5-B-11	34	1.230*	1.560*	1.53	11	12	N, ALPHA
5-B-11	34	1.230*	1.560*	1.53	11	12	N, ALPHA
5-B-11	34	1.410*	1.410*	1.53	79	1	N, ALPHA
5-B-11	34	2.530*	0.2530*	1.56	2822	1	N, ALPHA

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

... 2-172 ...

C = 34

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 34

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
8-D	-17	34	2.530-8	2.530-8	61 2819	1	N, ALPHA
9-F	-19	34	3.090+0	7.940+0	55 129	88	N, ALPHA
9-F	-19	34	3.330+0	5.860+0	55 383	62	N, ALPHA
9-F	-19	34	3.868+0	6.155+0	60 694	91	N, ALPHA
9-F	-19	34	4.980+0	6.975+0	66 1684	162	N, ALPHA
9-F	-19	34	6.000+0	6.000+0	65 1685	1	N, ALPHA
9-F	-19	34	1.418+1	2.100+1	65 449	11	N, ALPHA
9-F	-19	34	1.480+1	1.480+1	66 2142	1	N, ALPHA
10-NE	-20	34	1.830+0	3.345+0	51 67	55	N, ALPHA
10-NE	-20	34	2.800+0	7.280+0	59 641	162	N, ALPHA
10-NE	-20	34	4.360+0	7.280+0	59 856	63	N, ALPHA
N 10-NE	-20	34	1.410+1	1.410+1	72 3960	1	N, ALPHA
10-NE	-20	34	1.430+1	1.430+1	71 3186	1	N, ALPHA
10-NE	-21	34	2.530-8	2.530-8	61 2824	1	N, ALPHA
11-NA	-23	34	6.300+0	1.900+1	61 681	45	N, ALPHA
11-NA	-23	34	6.800+0	8.975+0	66 1684	88	N, ALPHA
11-NA	-23	34	1.260+1	1.870+1	66 1693	7	N, ALPHA
11-NA	-23	34	1.260+1	1.870+1	66 2895	7	N, ALPHA
11-NA	-23	34	1.400+1	1.400+1	60 586	1	N, ALPHA
11-NA	-23	34	1.405+1	1.405+1	62 585	1	N, ALPHA
11-NA	-23	34	1.418+1	2.100+1	65 449	12	N, ALPHA
11-NA	-23	34	1.470+1	1.470+1	67 3371	1	N, ALPHA
11-NA	-23	34	1.480+1	1.480+1	61 660	1	N, ALPHA
12-MG	-26	34	1.300+1	1.665+1	66 1682	12	N, ALPHA
12-MG	-26	34	1.470+1	1.470+1	67 1921	1	N, ALPHA
12-MG	-26	34	1.480+1	1.480+1	58 443	1	N, ALPHA
12-MG	-26	34	1.480+1	1.480+1	66 2142	1	N, ALPHA
13-AL	-27	34	5.950+0	1.410+1	67 1500	6	N, ALPHA
13-AL	-27	34	6.130+0	1.476+1	51 734	39	N, ALPHA
13-AL	-27	34	6.730+0	9.010+0	58 321	6	N, ALPHA
13-AL	-27	34	7.000+0	1.976+1	60 588	15	N, ALPHA
N 13-AL	-27	34	7.700+0	9.300+0	72 3426	4	N, ALPHA
13-AL	-27	34	8.400+0	1.510+1	60 590	15	N, ALPHA
13-AL	-27	34	1.192+1	2.072+1	60 230	24	N, ALPHA
13-AL	-27	34	1.250+1	1.770+1	62 806	23	N, ALPHA
13-AL	-27	34	1.263+1	1.959+1	65 1738	23	N, ALPHA
13-AL	-27	34	1.266+1	1.798+1	64 445	4	N, ALPHA
13-AL	-27	34	1.303+1	1.570+1	59 533	12	N, ALPHA
13-AL	-27	34	1.410+1	1.410+1	65 891	1	N, ALPHA
13-AL	-27	34	1.414+1	1.414+1	57 531	1	N, ALPHA
13-AL	-27	34	1.443+1	1.443+1	70 3384	1	N, ALPHA
13-AL	-27	34	1.460+1	1.460+1	62 702	1	N, ALPHA
13-AL	-27	34	1.460+1	1.460+1	63 372	1	N, ALPHA
13-AL	-27	34	1.460+1	1.460+1	64 1735	1	N, ALPHA
13-AL	-27	34	1.470+1	1.470+1	67 1902	1	N, ALPHA
13-AL	-27	34	1.470+1	1.470+1	69 3351	1	N, ALPHA
N 13-AL	-27	34	1.470+1	1.470+1	70 3197	1	N, ALPHA
13-AL	-27	34	1.475+1	1.475+1	69 2354	1	N, ALPHA
13-AL	-27	34	1.480+1	1.480+1	59 662	1	N, ALPHA
13-AL	-27	34	1.480+1	1.480+1	64 843	1	N, ALPHA
13-AL	-27	34	1.480+1	1.480+1	68 2711	1	N, ALPHA
N 13-AL	-27	34	1.480+1	1.480+1	71 3200	1	N, ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-173 ***

C = 34

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 34

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	34	1	500+	1	60 628	1	N.ALPHA
14-SI-22	34	5	350+	0	63 420	8	N.ALPHA
14-SI-28	34	9	500+	0	65 1934	8	N.ALPHA
14-SI-29	34	2	440+	0	63 762	46	N.ALPHA
14-SI-29	34	4	000+	0	63 420	16	N.ALPHA
14-SI-30	34	1	440+	1	68 2695	1	N.ALPHA
14-SI-30	34	1	450+	1	53 27	1	N.ALPHA
14-SI-30	34	1	450+	1	70 2258	1	N.ALPHA
14-SI-30	34	1	470+	1	67 1921	1	N.ALPHA
14-SI-30	34	1	480+	1	65 1697	1	N.ALPHA
15-P-31	34	3	000+	0	63 2047	20	N.ALPHA
15-P-31	34	6	125+	0	66 1684	116	N.ALPHA
15-P-31	34	1	304+	1	62 806	8	N.ALPHA
15-P-31	34	1	304+	1	65 4016	10	N.ALPHA
15-P-31	34	1	320+	1	63 477	7	N.ALPHA
15-P-31	34	1	450+	1	65 1727	1	N.ALPHA
15-P-31	34	1	450+	1	62 88	1	N.ALPHA
15-P-31	34	1	470+	1	67 1921	1	N.ALPHA
15-P-31	34	1	480+	1	65 1379	1	N.ALPHA
15-S-32	34	3	500+	0	65 1767	1	N.ALPHA
15-S-32	34	1	370+	0	58 446	48	N.ALPHA
15-S-32	34	3	600+	0	65 1771	1	N.ALPHA
15-S-32	34	1	480+	1	58 537	1	N.ALPHA
15-S-33	34	3	500+	0	65 1767	1	N.ALPHA
15-S-33	34	4	820+	0	57 163	12	N.ALPHA
15-S-34	34	1	450+	1	53 27	1	N.ALPHA
15-S-34	34	1	460+	1	69 2354	1	N.ALPHA
15-S-34	34	1	470+	1	67 1921	1	N.ALPHA
15-S-34	34	1	480+	1	65 1697	1	N.ALPHA
15-S-34	34	2	530+	0	61 2935	1	N.ALPHA
17-CL-35	34	3	000+	0	56 28	10	N.ALPHA
17-CL-35	34	1	400+	1	63 323	1	N.ALPHA
17-CL-35	34	1	450+	1	53 27	1	N.ALPHA
17-CL-35	34	1	460+	1	65 1777	1	N.ALPHA
17-CL-35	34	1	460+	1	69 2354	1	N.ALPHA
17-CL-35	34	1	480+	1	58 531	1	N.ALPHA
17-CL-37	34	1	450+	1	53 27	1	N.ALPHA
17-CL-37	34	1	480+	1	58 531	1	N.ALPHA
17-CL-37	34	1	480+	1	66 2142	1	N.ALPHA
18-AR-NAT	34	2	500+	0	46 171	1	N.ALPHA
18-AR-36	34	2	530+	0	61 2819	13	N.ALPHA
18-AR-40	34	1	400+	1	66 1779	1	N.ALPHA
18-AR-40	34	1	410+	1	67 1780	1	N.ALPHA
18-AR-40	34	1	440+	1	69 2747	1	N.ALPHA
18-AR-40	34	1	470+	1	65 1781	1	N.ALPHA
18-AP-70	34	2	480+	0	68 1945	1	N.ALPHA
18-X-39	34	2	460+	0	67 1893	1	N.ALPHA
18-X-39	34	2	550+	0	58 457	1	N.ALPHA
18-X-39	34	4	000+	0	64 469	9	N.ALPHA
18-X-39	34	1	400+	1	60 586	1	N.ALPHA

N

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	34	1	500+	1	60 628	1	N.ALPHA
14-SI-22	34	5	350+	0	63 420	8	N.ALPHA
14-SI-28	34	9	500+	0	65 1934	8	N.ALPHA
14-SI-29	34	2	440+	0	63 762	46	N.ALPHA
14-SI-29	34	4	000+	0	63 420	16	N.ALPHA
14-SI-30	34	1	440+	1	68 2695	1	N.ALPHA
14-SI-30	34	1	450+	1	53 27	1	N.ALPHA
14-SI-30	34	1	450+	1	70 2258	1	N.ALPHA
14-SI-30	34	1	470+	1	67 1921	1	N.ALPHA
14-SI-30	34	1	480+	1	65 1697	1	N.ALPHA
15-P-31	34	3	000+	0	63 2047	20	N.ALPHA
15-P-31	34	6	125+	0	66 1684	116	N.ALPHA
15-P-31	34	1	304+	1	62 806	8	N.ALPHA
15-P-31	34	1	304+	1	65 4016	10	N.ALPHA
15-P-31	34	1	320+	1	63 477	7	N.ALPHA
15-P-31	34	1	450+	1	65 1727	1	N.ALPHA
15-P-31	34	1	450+	1	62 88	1	N.ALPHA
15-P-31	34	1	470+	1	67 1921	1	N.ALPHA
15-P-31	34	1	480+	1	65 1379	1	N.ALPHA
15-S-32	34	3	500+	0	65 1767	1	N.ALPHA
15-S-32	34	1	370+	0	58 446	48	N.ALPHA
15-S-32	34	3	600+	0	65 1771	1	N.ALPHA
15-S-32	34	1	480+	1	58 537	1	N.ALPHA
15-S-33	34	3	500+	0	65 1767	1	N.ALPHA
15-S-33	34	4	820+	0	57 163	12	N.ALPHA
15-S-34	34	1	450+	1	53 27	1	N.ALPHA
15-S-34	34	1	460+	1	69 2354	1	N.ALPHA
15-S-34	34	1	470+	1	67 1921	1	N.ALPHA
15-S-34	34	1	480+	1	65 1697	1	N.ALPHA
15-S-34	34	2	530+	0	61 2935	1	N.ALPHA
17-CL-35	34	3	000+	0	56 28	10	N.ALPHA
17-CL-35	34	1	400+	1	63 323	1	N.ALPHA
17-CL-35	34	1	450+	1	53 27	1	N.ALPHA
17-CL-35	34	1	460+	1	65 1777	1	N.ALPHA
17-CL-35	34	1	460+	1	69 2354	1	N.ALPHA
17-CL-35	34	1	480+	1	58 531	1	N.ALPHA
17-CL-37	34	1	450+	1	53 27	1	N.ALPHA
17-CL-37	34	1	480+	1	58 531	1	N.ALPHA
17-CL-37	34	1	480+	1	66 2142	1	N.ALPHA
18-AR-NAT	34	2	500+	0	46 171	1	N.ALPHA
18-AR-36	34	2	530+	0	61 2819	13	N.ALPHA
18-AR-40	34	1	400+	1	66 1779	1	N.ALPHA
18-AR-40	34	1	410+	1	67 1780	1	N.ALPHA
18-AR-40	34	1	440+	1	69 2747	1	N.ALPHA
18-AR-40	34	1	470+	1	65 1781	1	N.ALPHA
18-AP-70	34	2	480+	0	68 1945	1	N.ALPHA
18-X-39	34	2	460+	0	67 1893	1	N.ALPHA
18-X-39	34	2	550+	0	58 457	1	N.ALPHA
18-X-39	34	4	000+	0	64 469	9	N.ALPHA
18-X-39	34	1	400+	1	60 586	1	N.ALPHA

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C = 34

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	19-K -41	34		1.400+ 1	1.400+ 1	60 586	1	N, ALPHA
	19-K -41	34		1.420+ 1	1.420+ 1	68 1944	1	N, ALPHA
	19-K -41	34		1.450+ 1	1.450+ 1	65 1764	1	N, ALPHA
	19-K -41	34		1.470+ 1	1.470+ 1	67 1921	1	N, ALPHA
	19-K -41	34		1.480+ 1	1.480+ 1	65 1697	1	N, ALPHA
N	19-K -41	34		1.480+ 1	1.480+ 1	68 4071	1	N, ALPHA
N	20-CA-NAT	34		1.410+ 1	1.470+ 1	75 3581	2	N, ALPHA
N	20-CA-40	34		2.980+ 0	9.300+ 0	75 3561	10	N, ALPHA
	20-CA-40	34		6.000+ 0	6.000+ 0	61 2032	1	N, ALPHA
	20-CA-44	34		1.420+ 1	1.420+ 1	68 1944	1	N, ALPHA
	20-CA-44	34		1.480+ 1	1.480+ 1	65 1697	1	N, ALPHA
	20-CA-41	34		1.490+ 1	1.490+ 1	61 3373	1	N, ALPHA
	21-SC-45	34		8.000+ 0	1.976+ 1	60 568	11	N, ALPHA
	21-SC-45	34		1.480+ 1	1.480+ 1	61 660	1	N, ALPHA
	21-SC-45	34		1.480+ 1	1.480+ 1	63 756	1	N, ALPHA
N	21-SC-45	34		1.480+ 1	1.480+ 1	68 4071	1	N, ALPHA
N	22-TI-48	34		1.410+ 1	1.410+ 1	67 1780	1	N, ALPHA
	22-TI-48	34		1.450+ 1	1.450+ 1	63 1009	1	N, ALPHA
	22-TI-50	34		1.410+ 1	1.410+ 1	67 1780	1	N, ALPHA
	22-TI-50	34		1.450+ 1	1.450+ 1	62 840	1	N, ALPHA
	22-TI-50	34		1.450+ 1	1.450+ 1	63 1009	1	N, ALPHA
	23-V -51	34		1.260+ 1	1.960+ 1	61 713	9	N, ALPHA
	23-V -51	34		1.410+ 1	1.410+ 1	58 614	1	N, ALPHA
	23-V -51	34		1.450+ 1	1.450+ 1	53 27	1	N, ALPHA
	23-V -51	34		1.450+ 1	1.450+ 1	62 840	1	N, ALPHA
	23-V -51	34		1.470+ 1	1.470+ 1	68 2596	1	N, ALPHA
	23-V -51	34		1.480+ 1	1.480+ 1	58 537	1	N, ALPHA
	23-V -51	34		1.480+ 1	1.480+ 1	63 756	1	N, ALPHA
	25-MN-55	34		1.240+ 1	1.770+ 1	62 806	13	N, ALPHA
N	25-MN-55	34		1.260+ 1	1.880+ 1	65 843	10	N, ALPHA
	25-MN-55	34		1.304+ 1	1.785+ 1	75 4016	10	N, ALPHA
	25-MN-55	34		1.450+ 1	1.450+ 1	53 27	1	N, ALPHA
	25-MN-55	34		1.450+ 1	1.450+ 1	60 629	1	N, ALPHA
	25-MN-55	34		1.450+ 1	1.450+ 1	65 1764	1	N, ALPHA
	25-MN-55	34		1.470+ 1	1.470+ 1	67 1902	1	N, ALPHA
	25-MN-55	34		1.480+ 1	1.480+ 1	58 536	1	N, ALPHA
	25-MN-55	34		1.480+ 1	1.480+ 1	61 701	1	N, ALPHA
	25-MN-55	34		1.480+ 1	1.480+ 1	65 1697	1	N, ALPHA
N	25-MN-55	34		1.480+ 1	1.480+ 1	65 2151	1	N, ALPHA
	26-FE-54	34		2.230+ 0	1.675+ 1	65 1843	9	N, ALPHA
	26-FE-54	34		1.358+ 1	1.473+ 1	62 1008	3	N, ALPHA
	26-FE-54	34		1.410+ 1	1.410+ 1	61 651	1	N, ALPHA
	26-FE-54	34		1.440+ 1	1.440+ 1	67 1844	1	N, ALPHA
	26-FE-54	34		1.450+ 1	1.450+ 1	62 1009	1	N, ALPHA
C	26-FE-54	34		1.450+ 1	1.450+ 1	63 1009	1	N, ALPHA
	26-FE-54	34		1.450+ 1	1.450+ 1	72 3345	1	N, ALPHA
N	26-FE-54	34		1.460+ 1	1.460+ 1	72 3427	1	N, ALPHA
	26-FE-54	34		1.480+ 1	1.480+ 1	61 679	1	N, ALPHA
	26-FE-58	34		1.480+ 1	1.480+ 1	61 679	1	N, ALPHA
	27-CO-59	34		6.020+ 0	2.030+ 1	64 1846	32	N, ALPHA
	27-CO-59	34		6.630+ 0	8.200+ 0	66 1714	13	N, ALPHA
	27-CO-59	34		1.255+ 1	2.100+ 1	63 374	8	N, ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
27-CO-59	34	1.260+	1	1.958+	1	65 1847	28 N, ALPHA
27-CO-59	34	1.260+	1	1.960+	1	61 713	9 N, ALPHA
27-CO-59	34	1.270+	1	1.710+	1	62 806	14 N, ALPHA
N 27-CO-59	34	1.304+	1	1.785+	1	75 4016	10 N, ALPHA
27-CO-59	34	1.405+	1	1.405+	1	58 401	1 N, ALPHA
27-CO-59	34	1.410+	1	1.410+	1	65 1800	1 N, ALPHA
27-CO-59	34	1.450+	1	1.450+	1	53 27	1 N, ALPHA
27-CO-59	34	1.450+	1	1.450+	1	60 629	1 N, ALPHA
27-CO-59	34	1.480+	1	1.480+	1	60 598	1 N, ALPHA
27-CO-59	34	1.480+	1	1.480+	1	65 1637	1 N, ALPHA
N 27-CO-59	34	1.480+	1	1.480+	1	65 2151	1 N, ALPHA
N 27-CO-59	34	1.480+	1	1.480+	1	68 4071	1 N, ALPHA
N 28-NI-59	34	2.530-	8	2.530-	8	74 3481	1 N, ALPHA
N 28-NI-59	34	2.530-	8	2.530-	8	75 3910	1 N, ALPHA
N 28-NI-59	34	5.510-	8	5.510-	8	75 3573	1 N, ALPHA
N 28-NI-61	34	2.530-	8	2.530-	8	75 3910	1 N, ALPHA
28-NI-62	34	1.410+	1	1.410+	1	67 1780	1 N, ALPHA
N 28-NI-62	34	1.480+	1	1.480+	1	68 4071	1 N, ALPHA
N 28-NI-64	34	1.480+	1	1.480+	1	68 4071	1 N, ALPHA
N 29-CU-63	34	5.760+	0	1.955+	1	67 3785	40 N, ALPHA
29-CU-63	34	6.730+	0	8.250+	0	66 1714	8 N, ALPHA
N 29-CU-63	34	8.190+	0	1.470+	1	67 3785	2 N, ALPHA
29-CU-63	34	1.267+	1	1.652+	1	65 893	11 N, ALPHA
29-CU-63	34	1.400+	1	1.400+	1	60 3372	1 N, ALPHA
N 29-CU-63	34	1.420+	1	1.420+	1	72 3939	1 N, ALPHA
29-CU-63	34	1.460+	1	1.460+	1	69 2354	1 N, ALPHA
N 29-CU-63	34	1.460+	1	1.460+	1	72 3427	1 N, ALPHA
29-CU-65	34	1.480+	1	1.480+	1	60 598	1 N, ALPHA
N 30-ZN-68	34	6.510+	0	1.450+	1	71 3516	14 N, ALPHA
N 30-ZN-68	34	1.360+	1	1.480+	1	71 3765	3 N, ALPHA
30-ZN-68	34	1.400+	1	1.400+	1	55 131	1 N, ALPHA
30-ZN-68	34	1.405+	1	1.405+	1	58 401	1 N, ALPHA
30-ZN-68	34	1.440+	1	1.440+	1	68 2695	1 N, ALPHA
30-ZN-68	34	1.480+	1	1.480+	1	60 598	1 N, ALPHA
30-ZN-68	34	1.480+	1	1.480+	1	63 756	1 N, ALPHA
30-ZN-68	34	1.480+	1	1.480+	1	67 2005	1 N, ALPHA
31-GA-69	34	1.450+	1	1.450+	1	53 27	1 N, ALPHA
31-GA-69	34	1.480+	1	1.480+	1	67 2005	1 N, ALPHA
31-GA-71	34	1.480+	1	1.480+	1	66 2142	1 N, ALPHA
32-GE-72	34	1.440+	1	1.440+	1	67 3010	1 N, ALPHA
32-GE-74	34	1.440+	1	1.440+	1	67 3010	1 N, ALPHA
32-GE-74	34	1.450+	1	1.450+	1	53 27	1 N, ALPHA
33-AS-75	34	7.000+	0	1.976+	1	60 598	11 N, ALPHA
N 33-AS-75	34	1.304+	1	1.785+	1	75 4016	10 N, ALPHA
33-AS-75	34	1.420+	1	1.420+	1	69 2334	1 N, ALPHA
33-AS-75	34	1.480+	1	1.480+	1	61 701	1 N, ALPHA
33-AS-75	34	1.480+	1	1.480+	1	67 2006	1 N, ALPHA
34-SE-78	34	1.440+	1	1.440+	1	67 1844	1 N, ALPHA
34-SE-80	34	1.470+	1	1.470+	1	67 2004	1 N, ALPHA
N 34-SE-80	34	1.470+	1	1.470+	1	69 4077	1 N, ALPHA
35-BR-NAT	34	1.290+	1	1.700+	1	65 1857	5 N, ALPHA
35-BR-79	34	1.320+	1	1.870+	1	63 417	10 N, ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	35-BR-79	34		1.360*	1.480*	71 3765	3	N, ALPHA
	35-BR-79	34		1.405*	1.405*	58 401	1	N, ALPHA
	35-BR-79	34		1.440*	1.440*	68 2002	1	N, ALPHA
N	35-BR-79	34		1.480*	1.480*	65 3379	1	N, ALPHA
	35-BR-79	34		1.480*	1.480*	66 3380	1	N, ALPHA
	35-BR-79	34		1.480*	1.480*	67 2006	1	N, ALPHA
N	35-BR-81	34		1.360*	1.480*	71 3765	3	N, ALPHA
	35-BR-81	34		1.440*	1.440*	68 2002	1	N, ALPHA
	35-BR-81	34		1.460*	1.460*	62 702	1	N, ALPHA
	35-BR-81	34		1.480*	1.480*	63 756	1	N, ALPHA
	35-BR-81	34		1.480*	1.480*	65 3379	2	N, ALPHA
	35-BR-81	34		1.480*	1.480*	66 3380	1	N, ALPHA
	35-KR-86	34		1.440*	1.440*	68 2842	1	N, ALPHA
	37-RB-NAT	34		1.280*	1.680*	65 1857	5	N, ALPHA
	37-RB-85	34		1.294*	1.958*	66 1682	10	N, ALPHA
	37-RB-85	34		1.440*	1.440*	68 2002	1	N, ALPHA
	37-RB-85	34		1.460*	1.460*	62 702	1	N, ALPHA
N	37-RB-85	34		1.480*	1.480*	68 4071	1	N, ALPHA
	37-RB-87	34		1.440*	1.440*	68 2002	1	N, ALPHA
	37-RB-87	34		1.460*	1.460*	62 702	1	N, ALPHA
N	37-RB-87	34		1.480*	1.480*	68 4071	2	N, ALPHA
	39-Y -89	34		9.350* 0	1.400*	60 590	5	N, ALPHA
	39-Y -89	34		1.340*	1.481*	60 588	6	N, ALPHA
	39-Y -89	34		1.460*	1.460*	62 702	1	N, ALPHA
N	39-Y -89	34		1.480*	1.480*	68 4071	1	N, ALPHA
	40-ZR-90	34		1.400*	1.400*	55 131	1	N, ALPHA
	40-ZR-92	34		1.340*	1.976*	60 588	9	N, ALPHA
	40-ZR-92	34		1.410*	1.410*	60 644	1	N, ALPHA
	40-ZR-94	34		1.214*	1.976*	60 588	14	N, ALPHA
	40-ZR-94	34		1.400*	1.400*	55 131	1	N, ALPHA
	40-ZR-94	34		1.400*	1.400*	63 323	1	N, ALPHA
	40-ZR-94	34		1.410*	1.410*	60 644	1	N, ALPHA
N	40-ZR-94	34		1.440*	1.440*	70 3433	1	N, ALPHA
	40-ZR-94	34		1.450*	1.450*	63 860	1	N, ALPHA
	40-ZR-94	34		1.480*	1.480*	61 701	1	N, ALPHA
	40-ZR-94	34		1.480*	1.480*	63 756	1	N, ALPHA
	40-ZR-96	34		1.400*	1.400*	60 644	1	N, ALPHA
	40-ZR-96	34		1.400*	1.400*	63 323	1	N, ALPHA
	40-ZR-96	34		1.450*	1.450*	63 860	1	N, ALPHA
	40-ZR-96	34		1.480*	1.480*	61 701	1	N, ALPHA
	40-ZR-96	34		1.480*	1.480*	63 756	1	N, ALPHA
	41-NB-93	34		7.000* 0	1.976*	60 588	12	N, ALPHA
	41-NB-93	34		8.400* 0	1.510*	60 590	14	N, ALPHA
N	41-NB-93	34		1.304*	1.775*	75 4016	10	N, ALPHA
	41-NB-93	34		1.420*	1.420*	72 3939	1	N, ALPHA
	41-NB-93	34		1.470*	1.470*	64 2036	1	N, ALPHA
N	42-MO-92	34		1.341*	1.492*	72 3774	10	N, ALPHA
	42-MO-98	34		1.440*	1.440*	70 3433	1	N, ALPHA
	42-MO-100	34		1.410*	1.410*	67 1827	1	N, ALPHA
	42-MO-100	34		1.460*	1.460*	62 702	1	N, ALPHA
	43-TC-99	34		1.410*	1.410*	65 2140	1	N, ALPHA
	44-RU-102	34		1.410*	1.410*	70 3340	1	N, ALPHA

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 34

TARGET CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
44-RJ-104	34	1.470	1.470	1	66 2141	N, ALPHA
45-RH-103	34	1.420	1.420	1	72 3939	N, ALPHA
45-RH-103	34	1.467	1.467	1	63 749	N, ALPHA
45-RH-103	34	1.480	1.480	1	66 2142	N, ALPHA
46-PD-105	34	1.440	1.440	1	68 2853	N, ALPHA
46-PD-105	34	1.440	1.440	1	70 3433	N, ALPHA
46-PD-105	34	1.405	1.405	1	58 401	N, ALPHA
46-PD-105	34	1.440	1.440	1	68 2853	N, ALPHA
46-PD-105	34	1.440	1.440	1	70 3433	N, ALPHA
46-PD-105	34	1.450	1.450	1	63 860	N, ALPHA
46-PD-105	34	1.450	1.450	1	53 27	N, ALPHA
46-PD-105	34	1.420	1.420	1	72 3939	N, ALPHA
46-PD-105	34	1.480	1.480	1	61 660	N, ALPHA
46-PD-105	34	1.410	1.410	1	67 1780	N, ALPHA
46-PD-105	34	1.400	1.400	1	60 588	N, ALPHA
46-PD-105	34	1.400	1.400	1	57 350	N, ALPHA
46-PD-105	34	1.400	1.400	1	63 323	N, ALPHA
46-PD-105	34	1.410	1.410	1	67 1780	N, ALPHA
46-PD-105	34	1.400	1.400	1	63 323	N, ALPHA
46-PD-105	34	1.410	1.410	1	67 1780	N, ALPHA
46-PD-105	34	1.400	1.400	1	62 2180	N, ALPHA
46-PD-105	34	1.400	1.400	1	55 131	N, ALPHA
46-PD-105	34	1.405	1.405	1	58 401	N, ALPHA
46-PD-105	34	1.410	1.410	1	70 3340	N, ALPHA
46-PD-105	34	1.450	1.450	1	59 550	N, ALPHA
46-PD-105	34	1.460	1.460	1	65 1777	N, ALPHA
46-PD-105	34	1.450	1.450	1	59 550	N, ALPHA
46-PD-105	34	1.405	1.405	1	62 2508	N, ALPHA
46-PD-105	34	1.210	2.150	1	62 2508	N, ALPHA
46-PD-105	34	1.405	1.405	1	58 401	N, ALPHA
46-PD-105	34	1.420	1.420	1	72 3939	N, ALPHA
46-PD-105	34	1.440	1.440	1	70 3433	N, ALPHA
46-PD-105	34	1.450	1.450	1	59 550	N, ALPHA
46-PD-105	34	1.480	1.480	1	68 4071	N, ALPHA
46-PD-105	34	1.500	1.500	1	67 1892	N, ALPHA
46-PD-105	34	1.400	1.400	1	67 2326	N, ALPHA
46-PD-105	34	1.450	1.450	1	59 550	N, ALPHA
46-PD-105	34	1.460	1.460	1	65 1975	N, ALPHA
46-PD-105	34	1.480	1.480	1	60 672	N, ALPHA
46-PD-105	34	1.500	1.500	1	72 3832	N, ALPHA
46-PD-105	34	1.400	1.400	1	67 1892	N, ALPHA
46-PD-105	34	1.400	1.400	1	55 216	N, ALPHA
46-PD-105	34	1.440	1.440	1	70 3433	N, ALPHA
46-PD-105	34	1.450	1.450	1	59 550	N, ALPHA
46-PD-105	34	1.480	1.480	1	60 672	N, ALPHA
46-PD-105	34	1.480	1.480	1	68 4071	N, ALPHA
46-PD-105	34	1.470	1.470	1	72 3832	N, ALPHA
46-PD-105	34	1.480	1.480	1	75 3036	N, ALPHA
46-PD-105	34	1.480	1.480	1	75 3832	N, ALPHA
46-PD-105	34	1.500	1.500	1	67 1892	N, ALPHA
46-PD-105	34	1.420	1.420	1	69 2334	N, ALPHA

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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 34

TARGET	CODE	S	E-MIN-KEV	E-MAX-KEV	REFERENCE	POINTS	REACTION DESCRIPTION
60-ND-146	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
60-ND-146	34	1	1.480+	1	1.480+	60 672	1 N.ALPHA
60-ND-148	34	1	1.480+	1	1.480+	60 672	1 N.ALPHA
62-SM-150	34	1	1.480+	1	1.480+	72 38-2	1 N.ALPHA
62-SM-152	34	1	1.450+	1	1.450+	53 27	1 N.ALPHA
62-SM-152	34	1	1.480+	1	1.480+	60 672	1 N.ALPHA
62-SM-152	34	1	1.463+	1	1.463+	72 3832	1 N.ALPHA
62-SM-154	34	1	1.480+	1	1.480+	60 672	1 N.ALPHA
62-SM-154	34	1	1.480+	1	1.480+	72 3832	1 N.ALPHA
63-EU-153	34	1	1.480+	1	1.480+	65 1657	1 N.ALPHA
64-OD-156	34	1	1.420+	1	1.420+	59 550	1 N.ALPHA
64-OD-156	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
64-OD-158	34	1	1.420+	1	1.420+	69 2334	1 N.ALPHA
64-OD-160	34	1	1.480+	1	1.480+	60 672	1 N.ALPHA
65-18-153	34	1	1.400+	1	1.400+	67 2326	1 N.ALPHA
65-18-159	34	1	1.460+	1	1.460+	65 1975	1 N.ALPHA
66-0Y-162	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
66-0Y-162	34	1	1.480+	1	1.480+	72 3832	1 N.ALPHA
66-0Y-164	34	1	1.440+	1	1.440+	68 2841	1 N.ALPHA
66-0Y-164	34	1	1.480+	1	1.480+	60 672	1 N.ALPHA
66-0Y-164	34	1	1.480+	1	1.480+	65 1697	1 N.ALPHA
66-0Y-164	34	1	1.480+	1	1.480+	80 5716	1 N.ALPHA
70-18-178	34	1	1.480+	1	1.480+	58 256	1 N.ALPHA
72-HF-180	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
72-HF-180	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
74-H-186	34	1	1.450+	1	1.450+	63 860	1 N.ALPHA
75-RE-187	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
76-05-190	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
76-05-190	34	1	1.460+	1	1.460+	64 1885	1 N.ALPHA
76-05-190	34	1	1.460+	1	1.460+	65 1777	1 N.ALPHA
77-1R-191	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
78-PT-194	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
78-PT-196	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
79-AU-197	34	1	1.450+	1	1.450+	69 2773	1 N.ALPHA
80-HG-200	34	1	1.410+	1	1.410+	69 2773	1 N.ALPHA
80-HG-200	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
80-HG-202	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
81-TL-201	34	1	1.450+	1	1.450+	72 3518	1 N.ALPHA
81-TL-201	34	1	1.440+	1	1.440+	59 550	1 N.ALPHA
82-P8-206	34	1	1.410+	1	1.410+	67 1780	1 N.ALPHA
82-P8-206	34	1	1.420+	1	1.420+	72 3427	2 N.ALPHA
82-P8-208	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
83-BI-209	34	1	1.450+	1	1.450+	53 27	1 N.ALPHA
83-BI-209	34	1	1.460+	1	1.460+	65 1875	1 N.ALPHA
83-BI-209	34	1	1.480+	1	1.480+	59 550	1 N.ALPHA
83-BI-209	34	1	1.480+	1	1.480+	61 860	1 N.ALPHA
90-UH-230	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
90-UH-230	34	1	1.450+	1	1.450+	59 550	1 N.ALPHA
90-UH-230	34	1	1.470+	1	1.470+	66 3304	1 N.ALPHA

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C = 34

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	4-BE-9	34	1	1.440+ 1	1.440+ 1	67 2367	1	N, ALPHA
	5-B-10	34	1	2.049- 2	9.777- 1	74 3259	56	N, ALPHA
	5-B-10	34	1	3.000- 2	5.160- 1	68 1940	22	N, ALPHA
	5-B-10	34	1	2.150- 1	7.630+ 0	61 742	174	N, ALPHA
N	5-B-10	34	1	1.440+ 1	1.440+ 1	69 3282	3	N, ALPHA
	5-R-11	34	1	1.410+ 1	1.410+ 1	73 3942	2	N, ALPHA
	6-C-12	34	1	1.450+ 0	1.450+ 0	64 821	1	N, ALPHA
	6-C-12	34	1	7.880+ 0	8.640+ 0	63 782	13	N, ALPHA
N	6-C-12	34	1	1.440+ 1	1.440+ 1	71 3202	1	N, ALPHA
	6-C-12	34	1	1.600+ 1	1.700+ 1	66 3022	2	N, ALPHA
	7-N-14	34	1	1.285+ 0	8.198+ 0	59 523	430	N, ALPHA
	7-N-14	34	1	1.960+ 0	3.670+ 0	51 801	36	N, ALPHA
N	7-N-14	34	1	2.480+ 0	6.370+ 0	66 2896	92	N, ALPHA
	7-N-14	34	1	1.410+ 1	1.410+ 1	68 3292	4	N, ALPHA
	7-N-14	34	1	1.410+ 1	1.410+ 1	73 3942	2	N, ALPHA
	8-O-16	34	1	5.020+ 0	9.770+ 0	63 782	186	N, ALPHA
N	8-O-16	34	1	1.410+ 1	1.410+ 1	66 1920	1	N, ALPHA
	8-O-16	34	1	1.410+ 1	1.410+ 1	67 2365	3	N, ALPHA
	8-C-19	34	1	1.410+ 1	1.410+ 1	73 3942	1	N, ALPHA
	9-F-19	34	1	2.890+ 0	8.200+ 0	61 742	68	N, ALPHA
C	10-NE-20	34	1	1.410+ 1	1.410+ 1	66 1920	2	N, ALPHA
	10-NE-20	34	1	1.430+ 1	1.430+ 1	71 3186	7	N, ALPHA
	11-NA-23	34	1	8.000+ 0	8.800+ 0	65 1717	12	N, ALPHA
	14-SI-28	34	1	5.420+ 0	8.420+ 0	63 800	312	N, ALPHA
C	14-SI-28	34	1	5.864+ 0	9.122+ 0	64 460	669	N, ALPHA
	14-SI-28	34	1	6.640+ 0	1.344+ 1	69 2370	910	N, ALPHA
	14-SI-28	34	1	9.500+ 0	1.020+ 1	65 1934	32	N, ALPHA
	14-SI-28	34	1	1.215+ 1	1.840+ 1	63 468	415	N, ALPHA
C	14-SI-28	34	1	1.403+ 1	1.403+ 1	61 656	5	N, ALPHA
	14-SI-29	34	1	3.710+ 0	5.440+ 0	63 926	36	N, ALPHA
	14-SI-29	34	1	4.750+ 0	8.470+ 0	62 800	123	N, ALPHA
	16-S-32	34	1	2.200+ 0	3.620+ 0	55 30	29	N, ALPHA
C	18-AR-36	34	1	1.210+ 0	8.660+ 0	64 477	307	N, ALPHA
	18-AR-36	34	1	2.150+ 0	4.400+ 0	53 96	8	N, ALPHA
	18-AR-40	34	1	5.860+ 0	8.950+ 0	62 477	86	N, ALPHA
	18-AR-40	34	1	1.440+ 1	1.440+ 1	71 3202	1	N, ALPHA
C	19-K-39	34	1	2.300+ 0	3.830+ 0	61 735	30	N, ALPHA
	19-K-39	34	1	4.000+ 0	8.000+ 0	64 469	13	N, ALPHA
	22-TI-47	34	1	1.460+ 1	1.460+ 1	69 2710	1	N, ALPHA
	26-FE-56	34	1	1.460+ 1	1.460+ 1	69 2710	1	N, ALPHA
C	27-CO-59	34	1	1.460+ 1	1.460+ 1	69 2710	1	N, ALPHA
	28-NI-58	34	1	1.460+ 1	1.460+ 1	69 2710	2	N, ALPHA
	28-NI-60	34	1	1.460+ 1	1.460+ 1	69 2710	1	N, ALPHA
	28-NI-61	34	1	1.460+ 1	1.460+ 1	69 2710	2	N, ALPHA
N	29-CU-63	34	1	1.460+ 1	1.460+ 1	69 2710	1	N, ALPHA
	30-ZN-64	34	1	1.460+ 1	1.460+ 1	69 2710	1	N, ALPHA
	60-ND-143	34	1	2.530- 8	2.530- 8	70 3771	1	N, ALPHA
	60-ND-144	34	1	2.530- 8	2.530- 8	70 3771	2	N, ALPHA
N	62-SM-147	34	1	2.530- 8	2.530- 8	70 3771	2	N, ALPHA
	62-SM-149	34	1	2.530- 8	2.530- 8	70 3771	3	N, ALPHA
	13-AL-27	34	2	1.450+ 1	1.450+ 1	59 829	1	N, ALPHA
	13-AL-27	34	2	1.480+ 1	1.480+ 1	71 3200	1	N, ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 34

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 34

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
34-SE-78	34	2	1.470+	1.470+	67 1876	1	N, ALPHA
34-SE-80	34	2	1.450+	1.450+	53 27	1	N, ALPHA
34-SE-80	34	2	1.470+	1.470+	67 1876	1	N, ALPHA
45-RH-103	34	2	1.450+	1.450+	53 27	1	N, ALPHA
58-CE-140	34	2	1.335+	1.665+	66 1768	13	N, ALPHA
60-ND-142	34	2	1.480+	1.480+	60 672	1	N, ALPHA
19-K -41	34	3	1.450+	1.450+	53 27	1	N, ALPHA
N 19-K -41	34	3	1.480+	1.480+	63 756	1	N, ALPHA
N 29-CU-63	34	3	8.190+ 0	8.190+ 0	67 3786	1	N, ALPHA
29-CU-63	34	3	1.470+	1.470+	62 88	1	N, ALPHA
29-CU-65	34	3	1.410+	1.410+	66 1768	1	N, ALPHA
29-CU-65	34	3	1.470+	1.470+	62 88	1	N, ALPHA
C 29-CU-65	34	3	1.480+	1.480+	63 756	3	N, ALPHA
32-GC-74	34	3	1.480+	1.480+	67 2005	1	N, ALPHA
32-GC-74	34	3	1.480+	1.480+	67 2005	1	N, ALPHA
34-SE-78	34	3	1.470+	1.470+	67 1876	1	N, ALPHA
34-SE-78	34	3	1.480+	1.480+	67 2006	1	N, ALPHA
35-BR-81	34	3	1.440+	1.440+	71 3184	1	N, ALPHA
35-BR-81	34	3	1.450+	1.450+	53 27	1	N, ALPHA
35-BR-81	34	3	1.480+	1.480+	67 2006	1	N, ALPHA
37-RB-87	34	3	1.440+	1.440+	71 3184	1	N, ALPHA
37-RB-87	34	3	1.450+	1.450+	53 27	1	N, ALPHA
39-Y -89	34	3	1.400+	1.480+	63 756	1	N, ALPHA
40-ZR-90	34	3	1.450+	1.450+	53 27	1	N, ALPHA
N 40-ZR-90	34	3	1.480+	1.480+	69 4083	1	N, ALPHA
N 42-MO-92	34	3	1.351+	1.492+	72 3774	20	N, ALPHA
N 42-MO-92	34	3	1.440+	1.440+	70 3433	1	N, ALPHA
N 42-MO-92	34	3	1.480+	1.480+	72 3868	1	N, ALPHA
N 42-MO-92	34	3	1.480+	1.480+	75 3562	1	N, ALPHA
47-AG-109	34	3	1.400+	1.400+	59 619	1	N, ALPHA
48-CD-114	34	3	1.400+	1.400+	57 350	1	N, ALPHA
48-CD-114	34	3	1.410+	1.410+	67 1780	1	N, ALPHA
52-TE-126	34	3	1.480+	1.480+	68 2314	1	N, ALPHA
52-TE-126	34	3	1.480+	1.480+	63 2203	1	N, ALPHA
52-TE-126	34	3	1.480+	1.480+	68 2314	1	N, ALPHA
52-TE-126	34	3	1.480+	1.480+	63 2203	1	N, ALPHA
53-I -127	34	3	1.450+	1.450+	53 27	1	N, ALPHA
C 57-I -127	34	3	1.470+	1.470+	68 2483	1	N, ALPHA
N 56-BA-138	34	3	1.410+	1.410+	61 704	1	N, ALPHA
N 56-BA-138	34	3	1.440+	1.440+	70 3433	1	N, ALPHA
58-CE-140	34	3	1.450+	1.450+	53 27	1	N, ALPHA
58-CE-140	34	3	1.480+	1.480+	60 672	1	N, ALPHA
68-ER-168	34	3	1.480+	1.480+	60 672	2	N, ALPHA
73-TA-181	34	3	1.450+	1.450+	63 860	1	N, ALPHA
N 76-OS-192	34	3	1.470+	1.470+	75 4003	1	N, ALPHA
13-AL-27	34	4	5.450+ 0	2.030+ 0	63 375	45	N, ALPHA
13-AL-27	34	4	6.060+ 0	8.200+ 0	66 1714	17	N, ALPHA
13-AL-27	34	4	6.130+ 0	1.939+ 0	67 1686	10	N, ALPHA
13-AL-27	34	4	1.234+ 1	1.485+ 1	67 1712	54	N, ALPHA
13-AL-27	34	4	1.255+ 1	2.100+ 1	63 374	8	N, ALPHA
13-AL-27	34	4	1.260+ 1	1.960+ 1	61 713	5	N, ALPHA
13-AL-27	34	4	1.400+ 1	1.400+ 1	59 619	1	N, ALPHA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 34

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	34	4	1.410+	1.410+	52 84	1	N, ALPHA
13-AL-27	34	4	1.450+	1.450+	53 27	1	N, ALPHA
13-AL-27	34	4	1.470+	1.470+	64 1848	1	N, ALPHA
21-SC-45	34	4	1.400+	1.400+	59 619	1	N, ALPHA
32-GE-72	34	4	1.440+	1.440+	67 3010	1	N, ALPHA
32-GE-72	34	4	1.480+	1.480+	67 2005	1	N, ALPHA
32-GE-74	34	4	1.440+	1.440+	67 3010	1	N, ALPHA
32-GE-74	34	4	1.480+	1.480+	67 2005	1	N, ALPHA
33-AS-75	34	4	1.440+	1.440+	71 3184	1	N, ALPHA
33-AS-75	34	4	1.450+	1.450+	53 27	1	N, ALPHA
N 33-AS-75	34	4	1.480+	1.480+	63 756	1	N, ALPHA
34-SE-80	34	4	1.470+	1.470+	67 1878	1	N, ALPHA
34-SE-80	34	4	1.480+	1.480+	67 2008	1	N, ALPHA
35-BR-79	34	4	1.440+	1.440+	71 3184	1	N, ALPHA
N 35-BR-79	34	4	1.480+	1.480+	63 756	1	N, ALPHA
N 37-RB-85	34	4	1.330+	1.550+	74 4010	5	N, ALPHA
37-RB-85	34	4	1.440+	1.440+	71 3184	1	N, ALPHA
38-SR-93	34	4	1.450+	1.450+	53 27	1	N, ALPHA
38-SR-88	34	4	1.460+	1.460+	62 702	1	N, ALPHA
40-ZR-90	34	4	1.405+	1.405+	58 401	1	N, ALPHA
40-ZR-90	34	4	1.410+	1.410+	55 124	1	N, ALPHA
40-ZR-90	34	4	1.410+	1.410+	60 644	1	N, ALPHA
40-ZR-90	34	4	1.450+	1.450+	63 860	1	N, ALPHA
40-ZR-90	34	4	1.480+	1.480+	63 756	1	N, ALPHA
40-ZR-90	34	4	1.480+	1.480+	70 3150	1	N, ALPHA
N 40-ZR-90	34	4	1.480+	1.480+	72 3832	1	N, ALPHA
N 40-ZR-90	34	4	1.480+	1.480+	75 3562	1	N, ALPHA
N 40-ZR-94	34	4	1.480+	1.480+	69 4083	1	N, ALPHA
41-NB-93	34	4	1.405+	1.405+	58 401	1	N, ALPHA
N 41-NB-93	34	4	1.440+	1.440+	70 3433	1	N, ALPHA
41-NB-93	34	4	1.450+	1.450+	62 3169	2	N, ALPHA
41-NB-93	34	4	1.470+	1.470+	62 770	1	N, ALPHA
C 41-NB-93	34	4	1.480+	1.480+	63 756	3	N, ALPHA
N 41-NB-93	34	4	1.480+	1.480+	69 4083	1	N, ALPHA
41-NB-93	34	4	1.480+	1.480+	70 3150	1	N, ALPHA
N 41-NB-93	34	4	1.480+	1.480+	72 3832	1	N, ALPHA
N 42-MO-92	34	4	1.341+	1.492+	72 3774	10	N, ALPHA
N 42-MO-92	34	4	1.440+	1.440+	70 3433	1	N, ALPHA
42-MO-92	34	4	1.480+	1.480+	63 756	1	N, ALPHA
40-CD-114	34	4	1.400+	1.400+	57 350	1	N, ALPHA
48-CD-114	34	4	1.410+	1.410+	67 1780	1	N, ALPHA
N 49-IN-115	34	4	1.460+	1.460+	64 3685	1	N, ALPHA
N 49-IN-115	34	4	1.480+	1.480+	69 4083	1	N, ALPHA
50-SN-118	34	4	1.207+	1.975+	60 508	14	N, ALPHA
52-TE-124	34	4	1.480+	1.480+	63 2203	1	N, ALPHA
52-TE-130	34	4	1.480+	1.480+	63 2203	1	N, ALPHA
N 55-CS-133	34	4	1.480+	1.480+	63 756	1	N, ALPHA
56-BA-138	34	4	1.410+	1.410+	61 704	1	N, ALPHA
N 56-BA-138	34	4	1.440+	1.440+	70 3433	1	N, ALPHA
67-HO-165	34	4	1.420+	1.420+	69 2334	1	N, ALPHA
N 17-CL-35	34	5	1.450+	1.450+	64 3685	2	N, ALPHA
N 22-TI-48	34	5	1.480+	1.480+	69 4083	1	N, ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 34

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 34

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	22-TI-50	34	5	1.460+ 1	1.460+ 1	69 4083	1 N,ALPHA
N	23-V -51	34	5	1.460+ 1	1.490+ 1	69 4083	1 N,ALPHA
	39-Y -69	34	5	1.450+ 1	1.450+ 1	53 27	1 N,ALPHA
N	40-ZR-92	34	5	1.460+ 1	1.460+ 1	69 4083	1 N,ALPHA
N	41-NB-93	34	5	1.460+ 1	1.460+ 1	69 4083	1 N,ALPHA
N	50-SN-118	34	5	1.460+ 1	1.460+ 1	69 4083	2 N,ALPHA
	53-I -127	34	5	1.470+ 1	1.470+ 1	66 2483	1 N,ALPHA
N	53-I -127	34	5	1.480+ 1	1.460+ 1	69 4083	1 N,ALPHA
	60-ND-142	34	5	1.480+ 1	1.480+ 1	60 672	1 N,ALPHA
	63-EU-151	34	5	1.420+ 1	1.420+ 1	69 2334	1 N,ALPHA
N	62-SM-149	34	7	2.530- 8	2.530- 8	72 3817	1 N,ALPHA
	7-N -14	34	8	1.410+ 1	1.410+ 1	68 3292	1 N,ALPHA
	18-AR-4	34	8	1.440+ 1	1.440+ 1	71 3202	5 N,ALPHA
N	13-AL-27	34	80	1.350+ 1	1.490+ 1	74 3487	94 N,ALPHA
	13-AL-27	34	80	1.367+ 1	1.499+ 1	67 2594	50 N,ALPHA
	23-V -51	34	80	1.360+ 1	1.460+ 1	66 2596	6 N,ALPHA
	14-SI-29	34	81	5.000+ 0	5.500+ 0	63 926	13 N,ALPHA
	14-SI-29	34	81	3.720+ 0	5.470+ 0	63 926	53 N,ALPHA
	11-NA-23	35		1.260+ 1	1.870+ 1	66 1693	7 N,X ALPHA
	11-NA-23	35		1.260+ 1	1.870+ 1	66 2895	7 N,X ALPHA
	13-AL-27	35		1.480+ 1	1.480+ 1	59 537	1 N,X ALPHA
	18-AR-NAT	35		1.293+ 1	2.01+ 1	66 1779	9 N,X ALPHA
	20-CA-40	35		1.410+ 1	1.410+ 1	66 2894	1 N,X ALPHA
	27-CO-59	35		1.480+ 1	1.480+ 1	59 536	1 N,X ALPHA
	28-NI-58	35		1.410+ 1	1.410+ 1	65 899	1 N,X ALPHA
	30-ZN-64	35		1.410+ 1	1.410+ 1	66 2894	1 N,X ALPHA
	12-MG-NAT	36		1.255+ 1	2.100+ 1	63 374	3 ACTIVATION
	18-AR-40	36		1.440+ 1	1.440+ 1	69 2747	1 ACTIVATION
	22-TI-47	36		1.360+ 1	1.950+ 1	66 1799	5 ACTIVATION
	22-TI-47	36		1.450+ 1	1.450+ 1	63 1009	1 ACTIVATION
	22-TI-48	36		1.350+ 1	1.950+ 1	66 1799	5 ACTIVATION
	22-TI-48	36		1.450+ 1	1.450+ 1	63 1009	1 ACTIVATION
	22-TI-49	36		1.360+ 1	1.950+ 1	66 1799	5 ACTIVATION
	22-TI-49	36		1.450+ 1	1.450+ 1	63 1009	1 ACTIVATION
	28-NI-58	36		1.372+ 1	1.479+ 1	69 1999	8 ACTIVATION
N	28-NI-58	36		1.420+ 1	1.460+ 1	72 3427	2 ACTIVATION
N	28-NI-58	36		1.440+ 1	1.440+ 1	70 3834	1 ACTIVATION
	28-NI-58	36		1.450+ 1	1.450+ 1	62 1009	1 ACTIVATION
C	28-NI-58	36		1.450+ 1	1.450+ 1	63 1009	1 ACTIVATION
	28-NI-58	36		1.460+ 1	1.479+ 1	69 2354	2 ACTIVATION
	28-NI-58	36		1.460+ 1	1.480+ 1	63 756	1 ACTIVATION
	28-NI-58	36		1.480+ 1	1.480+ 1	69 2711	1 ACTIVATION
	28-NI-58	36		1.450+ 1	1.450+ 1	63 1009	1 ACTIVATION
	28-NI-62	36		1.450+ 1	1.450+ 1	63 1009	1 ACTIVATION
N	34-SE-NAT	36		1.470+ 1	1.470+ 1	69 4077	1 ACTIVATION
	34-SE-77	36		1.470+ 1	1.470+ 1	67 2004	1 ACTIVATION
	44-RU-96	36		1.400+ 1	1.400+ 1	65 1873	1 ACTIVATION
N	50-SN-112	36		1.440+ 1	1.440+ 1	70 3834	1 ACTIVATION
N	80-HO-199	36		1.440+ 1	1.440+ 1	72 3518	1 ACTIVATION
N	72-HF-NAT	36	2	1.480+ 1	1.480+ 1	73 3457	1 ACTIVATION
N	82-PB-NAT	36	2	1.480+ 1	1.480+ 1	73 3471	2 ACTIVATION
N	44-RU-96	36	4	1.440+ 1	1.440+ 1	70 3433	1 ACTIVATION
N	44-RU-96	36	4	1.510+ 1	1.510+ 1	74 3593	1 ACTIVATION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 36

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 41

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
42-MO-NAT	41		0.000+ 0	0.000+ 0	53 370	1	BOUND ATOM
42-MO-NAT	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
46-PD-NAT	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
46-PD-111	41		2.500- 2	2.500- 2	70 3969	1	BOUND ATOM
47-AG-NAT	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
47-AG-107	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
47-AG-109	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
48-CD-117	41		2.500- 2	2.500- 2	70 3969	1	BOUND ATOM
50-SN-NAT	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
51-SB-NAT	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
51-SB-122	41		2.500- 2	2.500- 2	70 3969	1	BOUND ATOM
53-I-127	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
55-CS-133	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
63-EU-152	41		2.500- 2	2.500- 2	70 3969	1	BOUND ATOM
73-TA-NAT	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
74-W-NAT	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
78-PT-NAT	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
78-PT-197	41		2.500- 2	2.500- 2	70 3969	1	BOUND ATOM
79-AU-197	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
82-PB-NAT	41		2.530- 8	2.530- 8	52 2657	1	BOUND ATOM
82-PB-NAT	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
83-BI-209	41		0.000+ 0	0.000+ 0	53 370	1	BOUND ATOM
83-BI-209	41		2.530- 8	2.530- 8	52 2646	1	BOUND ATOM
83-BI-209	41		7.300- 8	7.300- 8	51 1584	1	BOUND ATOM
83-BI-209	41		9.410- 6	9.410- 6	65 1753	1	BOUND ATOM
1-H-1	42		0.000+ 0	0.000+ 0	71 3176	1	FREE ATOM
1-H-1	42		2.530- 8	2.530- 8	67 2364	1	FREE ATOM
1-H-1	42		3.390- 5	3.390- 5	65 786	1	FREE ATOM
C H2O	42		2.500- 8	2.500- 8	66 654	1	FREE ATOM
6-C-NAT	42		0.000+ 0	0.000+ 0	71 3176	1	FREE ATOM
7-N-NAT	42		1.500- 5	1.500- 5	49 53	1	FREE ATOM
C 8-O-NAT	42		1.500- 5	1.500- 5	49 53	1	FREE ATOM
N 9-F-19	42		1.500- 5	1.500- 5	49 53	1	FREE ATOM
13-AL-27	42		9.410- 6	9.410- 6	65 1753	1	FREE ATOM
14-SI-NAT	42		9.420- 6	9.420- 6	66 1759	1	FREE ATOM
22-TI-NAT	42		4.500- 5	4.500- 5	61 887	1	FREE ATOM
23-V-NAT	42		5.000- 6	5.000- 6	53 874	1	FREE ATOM
28-NI-58	42		2.530- 8	2.530- 8	52 437	1	FREE ATOM
36-KR-NAT	42		2.530- 8	2.530- 8	66 2680	1	FREE ATOM
39-Y-89	42		2.530- 8	2.530- 8	65 2118	1	FREE ATOM
40-ZR-NAT	42		1.400- 5	1.400- 5	61 887	1	FREE ATOM
82-PB-NAT	42		9.420- 6	9.420- 6	66 1759	1	FREE ATOM
83-BI-209	42		9.410- 6	9.410- 6	65 1753	1	FREE ATOM
1-H-1	43		2.530- 8	2.530- 8	47 2798	1	COHERENT SCATTERING
1-H-1	43		2.530- 8	2.530- 8	51 2790	1	COHERENT SCATTERING
1-H-1	43		2.530- 8	2.530- 8	53 2789	1	COHERENT SCATTERING
1-H-1	43		2.530- 8	2.530- 8	55 2826	1	COHERENT SCATTERING
1-H-1	43		2.530- 8	2.530- 8	52 2788	1	COHERENT SCATTERING
1-H-1	43		7.300- 8	7.300- 8	51 1584	1	COHERENT SCATTERING
1-H-2	43		2.530- 8	2.530- 8	51 2794	1	COHERENT SCATTERING
1-H-2	43		2.530- 8	2.530- 8	55 2826	1	COHERENT SCATTERING
1-H-2	43		2.530- 8	2.530- 8	63 2654	1	COHERENT SCATTERING

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 43

07/04/76

EISIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 43

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
1-H -2	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
3-L1-NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
3-L1-6	43		2.530-8	2.530-8	62 2801	1	COHERENT SCATTERING
3-L1-7	43		2.530-8	2.530-8	61 2673	1	COHERENT SCATTERING
3-L1-7	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
4-BE-9	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
5-B -NAT	43		2.530-8	2.530-8	64 2654	1	COHERENT SCATTERING
5-B -10	43		0.000+0	0.000+0	66 1018	1	COHERENT SCATTERING
5-B -11	43		0.000+0	0.000+0	66 1018	1	COHERENT SCATTERING
5-B -11	43		2.530-8	2.530-8	66 2621	1	COHERENT SCATTERING
6-C -NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
7-N -NAT	43		6.463-10	6.678-9	65 3396	40	COHERENT SCATTERING
7-N -NAT	43		2.530-8	2.530-8	51 2817	2	COHERENT SCATTERING
7-N -NAT	43		2.530-8	2.530-8	51 2818	1	COHERENT SCATTERING
7-N -NAT	43		2.530-8	2.530-8	52 2816	1	COHERENT SCATTERING
7-N -NAT	43		2.530-8	2.530-8	64 2654	1	COHERENT SCATTERING
7-N -NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
8-O -NAT	43		5.056-10	4.987-9	65 3396	12	COHERENT SCATTERING
8-O -NAT	43		2.530-8	2.530-8	64 2654	1	COHERENT SCATTERING
8-O -NAT	43		4.200-8	4.200-8	62 1275	1	COHERENT SCATTERING
8-O -NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
9-F -19	43		2.530-8	2.530-8	64 2654	1	COHERENT SCATTERING
9-F -19	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
11-NA-23	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
12-MG-NAT	43		2.530-8	2.530-8	51 2832	1	COHERENT SCATTERING
12-MG-NAT	43		2.530-8	2.530-8	52 2831	1	COHERENT SCATTERING
12-MG-NAT	43		2.530-8	2.530-8	63 2830	1	COHERENT SCATTERING
12-MG-NAT	43		2.530-8	2.530-8	63 2877	1	COHERENT SCATTERING
12-MG-NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
13-AL-27	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
13-AL-27	43		9.410-6	9.410-6	65 1753	1	COHERENT SCATTERING
14-SI-NAT	43		2.500-8	2.500-8	72 3240	1	COHERENT SCATTERING
14-SI-NAT	43		2.530-8	2.530-8	51 2564	1	COHERENT SCATTERING
14-SI-NAT	43		2.530-8	2.530-8	73 3626	1	COHERENT SCATTERING
15-P -31	43		2.530-8	2.530-8	52 2937	1	COHERENT SCATTERING
15-P -31	43		2.530-8	2.530-8	61 2673	1	COHERENT SCATTERING
16-S -NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
17-CL-NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
18-AR-36	43		4.963-9	4.963-9	69 3707	1	COHERENT SCATTERING
19-K -NAT	43		2.530-8	2.530-8	63 2877	1	COHERENT SCATTERING
19-K -NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
19-K -39	43		2.530-8	2.530-8	63 2877	1	COHERENT SCATTERING
20-CA-NAT	43		0.000+0	0.000+0	61 1408	1	COHERENT SCATTERING
20-CA-NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
20-CA-44	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
22-TI-NAT	43		2.530-8	2.530-8	51 2564	1	COHERENT SCATTERING
22-TI-NAT	43		7.000-8	7.000-8	60 2561	1	COHERENT SCATTERING
22-TI-NAT	43		7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
22-TI-46	43		7.000-8	7.000-8	60 2561	1	COHERENT SCATTERING
22-TI-47	43		7.000-8	7.000-8	60 2561	1	COHERENT SCATTERING
22-TI-48	43		7.000-8	7.000-8	60 2561	1	COHERENT SCATTERING
22-TI-49	43		7.000-8	7.000-8	60 2561	1	COHERENT SCATTERING

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 43

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 43

TARGET	CODE	5 E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
22-TI-50	43	7.000-8	7.000-8	60 2561	1	COHERENT SCATTERING
24-CR-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
25-MN-55	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
26-FE-NAT	43	6.070-8	6.070-8	62 915	1	COHERENT SCATTERING
26-FE-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
26-FE-54	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
26-FE-56	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
26-FE-57	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
27-CO-58	43	7.300-8	7.300-8	51 2564	1	COHERENT SCATTERING
28-NI-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
28-NI-60	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
28-NI-62	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
29-CU-NAT	43	6.070-8	6.070-8	62 2535	1	COHERENT SCATTERING
29-CU-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
30-ZN-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
32-GE-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
32-GE-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
33-AS-75	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
33-AS-75	43	7.300-8	7.300-8	53 370	1	COHERENT SCATTERING
34-SE-NAT	43	0.000+0	0.000+0	53 370	1	COHERENT SCATTERING
34-SE-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
35-BR-NAT	43	7.160-8	7.160-8	72 3444	1	COHERENT SCATTERING
35-BR-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
37-RB-NAT	43	2.530-8	2.530-8	63 2877	1	COHERENT SCATTERING
37-RB-NAT	43	7.300-8	7.300-8	70 1006	1	COHERENT SCATTERING
37-RB-NAT	43	2.530-8	2.530-8	51 1584	1	COHERENT SCATTERING
38-SR-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
38-SR-NAT	43	2.530-8	2.530-8	63 2877	1	COHERENT SCATTERING
39-Y-89	43	2.530-8	2.530-8	65 2118	1	COHERENT SCATTERING
39-Y-89	43	0.000+0	0.000+0	65 2118	1	COHERENT SCATTERING
40-ZR-NAT	43	2.530-8	2.530-8	51 2818	1	COHERENT SCATTERING
40-ZR-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
40-ZR-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
41-NB-93	43	0.000+0	0.000+0	53 370	1	COHERENT SCATTERING
42-MO-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
43-TC-98	43	2.530-8	2.530-8	63 2877	1	COHERENT SCATTERING
46-PD-NAT	43	2.530-8	2.530-8	50 2564	1	COHERENT SCATTERING
46-PD-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
47-AO-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
47-AO-109	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
48-CD-NAT	43	6.070-8	6.070-8	62 915	1	COHERENT SCATTERING
50-SN-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
51-SB-NAT	43	2.530-8	2.530-8	51 1584	1	COHERENT SCATTERING
51-SB-NAT	43	7.300-8	7.300-8	51 1584	1	COHERENT SCATTERING
52-TE-NAT	43	2.530-8	2.530-8	56 2555	1	COHERENT SCATTERING
52-TE-120	43	2.530-8	2.530-8	56 2555	1	COHERENT SCATTERING
52-TE-123	43	2.530-8	2.530-8	56 2555	1	COHERENT SCATTERING

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C = 43

07/04/76

CCSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 43

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
52-TC-124	43		2.530-	8	2.530- 8	51 2673	1 COHERENT SCATTERING
52-TC-125	43		2.530-	8	2.530- 8	51 2673	1 COHERENT SCATTERING
52-TC-130	43		2.530-	8	2.530- 8	56 2555	1 COHERENT SCATTERING
53-1-127	43		7.160-	8	7.160- 8	72 3444	1 COHERENT SCATTERING
53-1-127	43		7.300-	8	7.300- 8	51 1584	1 COHERENT SCATTERING
55-CS-133	43		7.300-	8	7.300- 8	51 1584	1 COHERENT SCATTERING
57-LA-NAT	43		0.000+	0	0.000+ 0	61 1408	1 COHERENT SCATTERING
57-LA-NAT	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
58-CE-NAT	43		0.000+	0	0.000+ 0	61 1408	1 COHERENT SCATTERING
58-CE-NAT	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
58-CE-140	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
58-CE-142	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
59-PR-141	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
60-NO-NAT	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
60-NO-142	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
60-NO-144	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
60-NO-146	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
62-SM-152	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
62-SM-154	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
63-EU-NAT	43		4.230-	8	4.230- 8	62 928	2 COHERENT SCATTERING
63-EU-153	43		0.000+	0	0.000+ 0	71 3188	1 COHERENT SCATTERING
65-TB-159	43		0.000+	0	0.000+ 0	61 1408	1 COHERENT SCATTERING
67-HD-165	43		2.530-	8	2.530- 8	58 2971	1 COHERENT SCATTERING
68-ER-NAT	43		2.530-	8	2.530- 8	53 2765	1 COHERENT SCATTERING
70-YB-NAT	43		0.000+	0	0.000+ 0	61 1408	1 COHERENT SCATTERING
70-YB-NAT	43		2.530-	8	2.530- 8	61 2845	1 COHERENT SCATTERING
71-LU-NAT	43		0.000+	0	0.000+ 0	61 1408	1 COHERENT SCATTERING
71-LU-NAT	43		2.530-	8	2.530- 8	61 2845	1 COHERENT SCATTERING
72-HF-NAT	43		2.530-	8	2.530- 8	56 2635	1 COHERENT SCATTERING
72-HF-NAT	43		2.530-	8	2.530- 8	64 2635	1 COHERENT SCATTERING
73-TA-NAT	43		7.300-	8	7.300- 8	51 1584	1 COHERENT SCATTERING
74-W-NAT	43		7.300-	8	7.300- 8	51 1584	1 COHERENT SCATTERING
76-OS-NAT	43		2.530-	8	2.530- 8	63 2877	1 COHERENT SCATTERING
76-OS-188	43		2.530-	8	2.530- 8	63 2877	1 COHERENT SCATTERING
76-OS-189	43		2.530-	8	2.530- 8	63 2877	1 COHERENT SCATTERING
76-OS-190	43		2.530-	8	2.530- 8	63 2877	1 COHERENT SCATTERING
76-OS-192	43		2.530-	8	2.530- 8	63 2877	1 COHERENT SCATTERING
77-IR-NAT	43		2.530-	8	2.530- 8	63 2877	1 COHERENT SCATTERING
78-PT-NAT	43		7.300-	8	7.300- 8	51 1584	1 COHERENT SCATTERING
79-AU-197	43		7.300-	8	7.300- 8	51 1584	1 COHERENT SCATTERING
80-HG-NAT	43		3.700-	9	2.420- 8	51 962	3 COHERENT SCATTERING
80-HG-NAT	43		2.530-	8	2.530- 8	63 2654	1 COHERENT SCATTERING
82-PB-NAT	43		7.300-	8	7.300- 8	51 1584	1 COHERENT SCATTERING
83-BI-209	43		0.000+	0	0.000+ 0	53 370	1 COHERENT SCATTERING
83-BI-209	43		2.530-	8	2.530- 8	51 2564	1 COHERENT SCATTERING
83-BI-209	43		2.530-	8	2.530- 8	53 2660	1 COHERENT SCATTERING
92-U-NAT	43		7.300-	8	7.300- 8	51 1584	1 COHERENT SCATTERING
92-U-NAT	43		2.410-	6	2.410- 6	51 1584	1 COHERENT SCATTERING
92-U-NAT	43		4.200-	8	4.200- 8	51 1584	1 COHERENT SCATTERING
92-U-NAT	43		0.000+	0	0.000+ 0	51 1584	1 COHERENT SCATTERING
92-U-NAT	43		0.000+	0	0.000+ 0	51 1584	1 COHERENT SCATTERING
92-U-NAT	43		4.200-	8	4.200- 8	51 1584	1 COHERENT SCATTERING

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-188 ***

C = 43

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 43

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U -238	43		0.000+ 0	0.000+ 0	55 902	1	COHERENT SCATTERING
93-WP-237	43		0.000+ 0	0.000+ 0	57 3192	1	COHERENT SCATTERING
N 94-PU-239	43		4.200- 8	4.200- 8	62 1275	1	COHERENT SCATTERING
94-PU-240	43		2.500- 8	2.500- 8	71 3239	1	COHERENT SCATTERING
94-PU-240	43		2.530- 8	2.530- 8	70 3242	1	COHERENT SCATTERING
94-PU-242	43		2.500- 8	2.500- 8	71 3239	1	COHERENT SCATTERING
N 1-H -2	43 9		4.200- 5	4.200- 9	75 3888	3	COHERENT SCATTERING
27-CO-59	43 11		2.530- 8	2.530- 8	69 3226	2	COHERENT SCATTERING
1-H -1	44		2.500- 8	2.500- 8	51 2791	1	INCOHERENT SCATTER.
1-H -2	44		2.530- 8	2.530- 8	63 2795	1	INCOHERENT SCATTER.
4-BE-9	44		2.530- 8	2.530- 8	63 2663	1	INCOHERENT SCATTER.
12-MG-NAT	44		2.530- 8	2.530- 8	52 2834	1	INCOHERENT SCATTER.
12-MG-NAT	44		2.530- 8	2.530- 8	57 2833	1	INCOHERENT SCATTER.
13-AL-27	44		2.530- 8	2.530- 8	63 2663	1	INCOHERENT SCATTER.
14-SI-NAT	44		9.420- 6	9.420- 6	66 1759	1	INCOHERENT SCATTER.
29-CU-NAT	44		0.000+ 0	0.000+ 0	58 404	1	INCOHERENT SCATTER.
39-Y -89	44		2.530- 8	2.530- 8	65 2118	1	INCOHERENT SCATTER.
52-TE-NAT	44		2.500- 8	2.500- 8	51 2398	1	INCOHERENT SCATTER.
82-PB-NAT	44		9.420- 6	9.420- 6	66 1759	1	INCOHERENT SCATTER.
83-BI-209	44		2.530- 8	2.530- 8	63 2663	1	INCOHERENT SCATTER.
N 50-SN-117	45		0.000+ 0	0.000+ 0	68 2381	1	POTENTIAL SCATTERING
N 54-XE-NAT	45		3.250- 4	3.250- 4	64 3650	1	POTENTIAL SCATTERING
N 65-TB-159	45		2.530- 8	2.530- 8	73 3478	1	POTENTIAL SCATTERING
N 65-TB-159	45		3.053- 6	3.053- 6	71 3669	1	POTENTIAL SCATTERING
N 67-HO-165	45		6.225- 4	6.225- 4	70 3605	1	POTENTIAL SCATTERING
N 69-TM-169	45		3.200- 6	3.200- 6	71 3669	1	POTENTIAL SCATTERING
N 69-TM-169	45		1.000- 3	1.000- 3	71 3610	1	POTENTIAL SCATTERING
N 88-RA-226	45		1.500- 5	1.500- 5	71 4047	1	POTENTIAL SCATTERING
N 90-TH-232	45		3.500- 4	3.500- 4	64 3650	1	POTENTIAL SCATTERING
N 92-U -235	45		6.000- 5	6.000- 5	66 3649	1	POTENTIAL SCATTERING
N 92-U -238	45		6.670- 6	1.169- 4	76 3955	7	POTENTIAL SCATTERING
90-TH-229	46		2.530- 8	2.530- 8	58 1156	1	NU-BAR PROMPT
90-TH-229	46		2.530- 8	2.530- 8	51 1088	1	NU-BAR PROMPT
N 90-TH-229	46		2.530- 8	2.530- 8	70 4040	1	NU-BAR PROMPT
90-TH-232	46		1.390+ 0	4.020+ 0	65 1074	4	NU-BAR PROMPT
90-TH-232	46		1.400+ 0	1.400+ 0	59 1151	1	NU-BAR PROMPT
90-TH-232	46		1.420+ 0	1.480+ 1	65 1378	7	NU-BAR PROMPT
N 90-TH-232	46		1.420+ 0	1.490+ 1	65 1138	9	NU-BAR PROMPT
C 90-TH-232	46		1.480+ 0	3.270+ 0	68 219	7	NU-BAR PROMPT
90-TH-232	46		2.300+ 0	1.570+ 1	61 1079	3	NU-BAR PROMPT
90-TH-232	46		4.000+ 0	4.000+ 0	58 1447	1	NU-BAR PROMPT
90-TH-232	46		1.410+ 1	1.410+ 1	56 1321	1	NU-BAR PROMPT
90-TH-232	46		1.420+ 1	1.420+ 1	58 1330	1	NU-BAR PROMPT
92-U -232	46		2.530- 8	2.530- 8	61 1088	1	NU-BAR PROMPT
N 92-U -233	46		0.000+ 0	0.000+ 0	55 1097	1	NU-BAR PROMPT
N 92-U -233	46		0.000+ 0	0.000+ 0	55 1098	1	NU-BAR PROMPT
N 92-U -233	46		0.000+ 0	0.000+ 0	56 1065	1	NU-BAR PROMPT
N 92-U -233	46		0.000+ 0	0.000+ 0	56 1172	1	NU-BAR PROMPT
N 92-U -233	46		0.000+ 0	0.000+ 0	59 1092	1	NU-BAR PROMPT
N 92-U -233	46		0.000+ 0	0.000+ 0	65 1085	1	NU-BAR PROMPT
N 92-U -233	46		0.000+ 0	0.000+ 0	65 1336	1	NU-BAR PROMPT
N 92-U -233	46		0.000+ 0	0.000+ 0	67 1417	1	NU-BAR PROMPT

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-189 ***

C = 46

TARGET	CODE	S E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 92-U -237	46	0.100+0	1.400+0	73 4052	21	NU-BAR PROMPT
N 92-U -237	46	0.223+0	3.930+0	63 1073	6	NU-BAR PROMPT
N 92-U -237	46	0.000+0	1.000+0	65 1074	5	NU-BAR PROMPT
N 92-U -237	46	1.000+0	1.115+0	73 3595	54	NU-BAR PROMPT
N 92-U -237	46	2.533+0	2.530+0	46 1313	1	NU-BAR PROMPT
N 92-U -237	46	2.533+0	2.530+0	55 1099	1	NU-BAR PROMPT
N 92-U -237	46	2.533+0	2.140+0	72 4027	20	NU-BAR PROMPT
N 92-U -237	46	7.000+0	1.560+0	72 4021	15	NU-BAR PROMPT
N 92-U -237	46	8.000+0	8.000+0	56 1145	1	NU-BAR PROMPT
N 92-U -237	46	8.000+0	7.000+0	67 226	7	NU-BAR PROMPT
N 92-U -237	46	3.600+0	1.870+0	70 3879	7	NU-BAR PROMPT
N 92-U -237	46	5.800+0	1.580+0	63 3879	5	NU-BAR PROMPT
N 92-U -237	46	4.000+0	1.500+0	58 1121	2	NU-BAR PROMPT
N 92-U -237	46	1.400+0	1.400+0	61 1269	1	NU-BAR PROMPT
N 92-U -237	46	1.400+0	1.400+0	56 1321	1	NU-BAR PROMPT
N 92-U -237	46	1.400+0	1.400+0	56 1122	1	NU-BAR PROMPT
N 92-U -237	46	9.900+0	4.000+0	65 1074	4	NU-BAR PROMPT
N 92-U -237	46	0.000+0	0.000+0	55 1065	1	NU-BAR PROMPT
N 92-U -237	46	0.000+0	0.000+0	64 1155	1	NU-BAR PROMPT
N 92-U -237	46	0.000+0	0.000+0	65 1085	1	NU-BAR PROMPT
N 92-U -237	46	0.000+0	0.000+0	65 1071	1	NU-BAR PROMPT
N 92-U -237	46	0.000+0	0.000+0	65 1325	1	NU-BAR PROMPT
N 92-U -237	46	0.000+0	0.000+0	65 1336	1	NU-BAR PROMPT
N 92-U -237	46	0.000+0	1.515+0	70 3415	13	NU-BAR PROMPT
N 92-U -237	46	0.000+0	1.520+0	70 3392	13	NU-BAR PROMPT
N 92-U -237	46	0.000+0	1.900+0	70 3278	15	NU-BAR PROMPT
N 92-U -237	46	0.000+0	1.450+0	61 1073	7	NU-BAR PROMPT
N 92-U -237	46	0.000+0	1.480+0	65 1319	4	NU-BAR PROMPT
N 92-U -237	46	1.200+0	2.530+0	73 3595	37	NU-BAR PROMPT
N 92-U -237	46	2.530+0	2.530+0	44 1318	1	NU-BAR PROMPT
N 92-U -237	46	2.530+0	2.530+0	56 1320	1	NU-BAR PROMPT
N 92-U -237	46	3.000+0	1.760+0	62 1154	6	NU-BAR PROMPT
N 92-U -237	46	4.000+0	1.000+0	62 1327	16	NU-BAR PROMPT
N 92-U -237	46	4.000+0	1.960+0	62 1074	18	NU-BAR PROMPT
N 92-U -237	46	7.500+0	8.000+0	61 1065	3	NU-BAR PROMPT
N 92-U -237	46	8.000+0	9.000+0	62 1145	1	NU-BAR PROMPT
N 92-U -237	46	8.000+0	9.000+0	62 1082	13	NU-BAR PROMPT
N 92-U -237	46	8.000+0	2.500+0	62 3878	9	NU-BAR PROMPT
N 92-U -237	46	1.200+0	1.580+0	61 1324	10	NU-BAR PROMPT
N 92-U -237	46	2.100+0	1.580+0	61 1324	10	NU-BAR PROMPT
N 92-U -237	46	2.100+0	2.279+0	69 217	75	NU-BAR PROMPT
N 92-U -237	46	2.100+0	1.563+0	75 3904	22	NU-BAR PROMPT
N 92-U -237	46	3.700+0	2.130+0	62 3291	21	NU-BAR PROMPT
N 92-U -237	46	3.700+0	3.250+0	67 219	14	NU-BAR PROMPT
N 92-U -237	46	6.500+0	6.600+0	70 3314	37	NU-BAR PROMPT
N 92-U -237	46	7.000+0	7.000+0	55 1374	1	NU-BAR PROMPT
N 92-U -237	46	1.200+0	1.200+0	55 1373	1	NU-BAR PROMPT
N 92-U -237	46	1.250+0	1.800+0	57 1130	2	NU-BAR PROMPT
N 92-U -237	46	1.560+0	1.479+0	57 211	27	NU-BAR PROMPT
N 92-U -237	46	2.500+0	1.410+0	56 1321	2	NU-BAR PROMPT
N 92-U -237	46	4.000+0	4.500+0	55 1393	2	NU-BAR PROMPT

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-190 ***

07/04/76

ECSIL--600 REACTION INDEX (REACTION NO ORDERED)

TARGET CODE 5 E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

92-U-235	46	4.000+ 0	1.500+ 1	58 1121	2	NU-BAR PROMPT
92-U-235	46	7.000+ 0	8.000+ 0	2 69 2092	1	NU-BAR PROMPT
92-U-235	46	1.400+ 1	1.400+ 1	58 1324	1	NU-BAR PROMPT
92-U-235	46	1.430+ 1	1.430+ 1	60 1325	1	NU-BAR PROMPT
92-U-235	46	1.480+ 1	1.480+ 1	58 1322	1	NU-BAR PROMPT
92-U-235	46	6.400+ 0	6.400+ 0	1 69 2509	21	NU-BAR PROMPT
92-U-235	46	7.700+ 1	6.700+ 0	71 2509	21	NU-BAR PROMPT
92-U-238	46	7.700+ 1	6.700+ 0	71 3862	1	NU-BAR PROMPT
92-U-238	46	6.140+ 0	6.140+ 0	52 1366	1	NU-BAR PROMPT
92-U-238	46	6.140+ 0	6.140+ 0	54 1128	1	NU-BAR PROMPT
92-U-238	46	6.140+ 0	6.140+ 0	57 1370	1	NU-BAR PROMPT
92-U-238	46	6.140+ 0	6.140+ 0	59 1157	1	NU-BAR PROMPT
92-U-238	46	6.140+ 0	6.140+ 0	60 1133	1	NU-BAR PROMPT
92-U-238	46	6.140+ 0	6.140+ 0	60 1454	1	NU-BAR PROMPT
92-U-238	46	6.140+ 0	6.140+ 0	71 2505	1	NU-BAR PROMPT
92-U-238	46	2.530+ 8	2.530+ 8	70 3408	46	NU-BAR PROMPT
92-U-238	46	1.570+ 0	1.570+ 0	71 3408	46	NU-BAR PROMPT
92-U-238	46	1.560+ 0	1.560+ 0	72 3863	27	NU-BAR PROMPT
92-U-238	46	1.350+ 0	1.350+ 0	67 211	35	NU-BAR PROMPT
92-U-238	46	1.410+ 0	1.410+ 0	65 1074	4	NU-BAR PROMPT
92-U-238	46	1.500+ 0	1.500+ 0	64 1378	8	NU-BAR PROMPT
92-U-238	46	1.580+ 0	1.580+ 0	61 1334	1	NU-BAR PROMPT
92-U-238	46	2.300+ 0	3.750+ 0	61 1079	1	NU-BAR PROMPT
92-U-238	46	2.500+ 0	1.410+ 1	56 1321	2	NU-BAR PROMPT
92-U-238	46	7.000+ 0	8.000+ 0	2 69 2092	2	NU-BAR PROMPT
92-U-238	46	1.400+ 1	1.400+ 1	58 1324	1	NU-BAR PROMPT
92-U-238	46	1.420+ 1	1.420+ 1	63 1126	1	NU-BAR PROMPT
92-U-238	46	1.420+ 1	1.420+ 1	58 1134	1	NU-BAR PROMPT
92-U-238	46	1.420+ 1	1.420+ 1	58 1330	1	NU-BAR PROMPT
92-U-238	46	1.430+ 1	1.430+ 1	61 1068	1	NU-BAR PROMPT
92-U-238	46	2.530+ 8	2.530+ 8	60 1325	1	NU-BAR PROMPT
92-U-238	46	7.350+ 0	7.350+ 0	56 1146	1	NU-BAR PROMPT
92-U-238	46	7.350+ 0	7.350+ 0	56 1147	1	NU-BAR PROMPT
92-U-238	46	7.010+ 0	7.010+ 0	56 1147	1	NU-BAR PROMPT
92-U-238	46	0.000+ 0	0.000+ 0	55 1097	1	NU-BAR PROMPT
92-U-238	46	0.000+ 0	0.000+ 0	55 1098	1	NU-BAR PROMPT
92-U-238	46	0.000+ 0	0.000+ 0	56 1063	1	NU-BAR PROMPT
92-U-238	46	0.000+ 0	0.000+ 0	58 1073	1	NU-BAR PROMPT
92-U-238	46	0.000+ 0	0.000+ 0	59 1092	1	NU-BAR PROMPT
92-U-238	46	0.000+ 0	0.000+ 0	65 1095	1	NU-BAR PROMPT
92-U-238	46	0.000+ 0	0.000+ 0	67 1417	22	NU-BAR PROMPT
92-U-238	46	0.000+ 0	1.600+ 0	72 3864	7	NU-BAR PROMPT
92-U-238	46	0.000+ 0	4.020+ 0	65 1074	23	NU-BAR PROMPT
92-U-238	46	0.000+ 0	1.450+ 1	63 1073	7	NU-BAR PROMPT
92-U-238	46	2.500+ 8	1.600+ 0	73 4035	23	NU-BAR PROMPT

TARGET CODE 5 E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 46

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
94-PU-239	46		2.530	-8	2.530	-8	44 1318	1 NU-BAR PROMPT
94-PU-239	46		2.530	-8	2.530	-8	44 1320	1 NU-BAR PROMPT
94-PU-239	46		2.530	-8	2.530	-8	55 1099	1 NU-BAR PROMPT
94-PU-239	46		2.530	-8	2.530	-8	58 1445	1 NU-BAR PROMPT
94-PU-239	46		7.700	-2	1.150	+0	69 2600	16 NU-BAR PROMPT
94-PU-239	46		8.000	-2	8.000	-2	56 1145	1 NU-BAR PROMPT
N 94-PU-239	46		8.000	-2	1.150	+0	70 1866	18 NU-BAR PROMPT
N 94-PU-239	46		8.000	-2	1.610	+0	72 4021	16 NU-BAR PROMPT
N 94-PU-239	46		2.000	-1	1.900	+0	72 3880	8 NU-BAR PROMPT
N 94-PU-239	46		2.100	-1	2.279	+1	69 211	75 NU-BAR PROMPT
94-PU-239	46		5.000	-1	1.000	+0	56 149	2 NU-BAR PROMPT
94-PU-239	46		8.900	-1	4.700	+0	70 3314	41 NU-BAR PROMPT
94-PU-239	46		1.360	+0	1.479	+1	67 211	27 NU-BAR PROMPT
94-PU-239	46		4.000	+0	4.500	+0	55 1383	2 NU-BAR PROMPT
94-PU-239	46		4.000	+0	1.500	+1	58 1121	2 NU-BAR PROMPT
94-PU-239	46		4.220	+0	1.480	+1	68 1087	5 NU-BAR PROMPT
94-PU-239	46		8.000	+0	8.000	+0	2 69 2092	1 NU-BAR PROMPT
94-PU-239	46		1.400	+1	1.400	+1	61 1269	1 NU-BAR PROMPT
94-PU-239	46		1.410	+1	1.410	+1	56 1321	1 NU-BAR PROMPT
94-PU-239	46		1.420	+1	1.420	+1	60 1375	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	51 1369	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	53 1132	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	55 1097	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	55 1193	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	55 1367	2 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	56 1145	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	56 1147	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	56 1321	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	58 1063	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	61 1068	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	63 1073	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	63 1075	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	65 1085	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	66 1368	1 NU-BAR PROMPT
94-PU-240	46		-6.680	+0	-6.680	+0	68 1543	1 NU-BAR PROMPT
94-PU-240	46		1.000	-1	1.600	+0	66 1070	3 NU-BAR PROMPT
94-PU-240	46		1.080	+0	3.940	+0	70 3314	24 NU-BAR PROMPT
94-PU-240	46		1.870	+0	1.479	+1	74 3881	22 NU-BAR PROMPT
94-PU-240	46		3.600	+0	1.500	+1	61 1078	2 NU-BAR PROMPT
N 94-PU-241	46		0.000	+0	0.000	+0	55 1097	1 NU-BAR PROMPT
N 94-PU-241	46		0.000	+0	0.000	+0	55 1098	1 NU-BAR PROMPT
N 94-PU-241	46		0.000	+0	0.000	+0	55 1065	1 NU-BAR PROMPT
N 94-PU-241	46		0.000	+0	0.000	+0	58 1172	1 NU-BAR PROMPT
N 94-PU-241	46		0.000	+0	0.000	+0	59 1092	1 NU-BAR PROMPT
N 94-PU-241	46		0.000	+0	0.000	+0	61 1153	1 NU-BAR PROMPT
N 94-PU-241	46		0.000	+0	0.000	+0	65 1085	1 NU-BAR PROMPT
N 94-PU-241	46		0.000	+0	0.000	+0	67 1417	1 NU-BAR PROMPT
N 94-PU-241	46		0.000	+0	0.000	+0	69 1912	1 NU-BAR PROMPT
94-PU-241	46		2.530	-8	2.530	-8	55 1099	1 NU-BAR PROMPT
94-PU-241	46		2.530	-8	2.530	-8	55 1187	1 NU-BAR PROMPT
94-PU-241	46		2.530	-8	2.530	-8	59 1067	1 NU-BAR PROMPT
N 94-PU-241	46		4.280	-6	9.076	-5	75 3902	64 NU-BAR PROMPT

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-192 ***

C = 46

	TARGET	CODE	S	E	N	MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	94-PU-2V1	45	5, 200	1	1, 470	1	68, 1087	5	NU-BAR PROHPT	
	94-PU-2V1	46	1, 870	0	1, 870	1	74, 3881	23	NU-BAR PROHPT	
	94-PU-2V2	45	-6, 360	0	-6, 360	0	56, 1145	1	NU-BAR PROHPT	
	94-PU-2V2	46	-6, 360	0	-6, 360	0	56, 1147	1	NU-BAR PROHPT	
N	94-PU-2V2	45	-6, 360	0	-6, 360	0	68, 1543	1	NU-BAR PROHPT	
	94-PU-2V2	46	-6, 360	0	-6, 360	0	68, 2361	1	NU-BAR PROHPT	
	94-PU-2V4	45	-6, 020	0	-6, 020	0	71, 3156	1	NU-BAR PROHPT	
	94-PU-2V4	46	-6, 020	0	-6, 020	0	71, 3156	1	NU-BAR PROHPT	
N	95-AM-2V1	45	2, 530	8	2, 530	8	58, 1123	1	NU-BAR PROHPT	
	95-AM-2V1	46	2, 530	8	2, 530	8	58, 1123	1	NU-BAR PROHPT	
	95-AM-2V2	45	2, 530	8	2, 530	8	66, 1336	1	NU-BAR PROHPT	
	95-AM-2V2	46	2, 530	8	2, 530	8	66, 1336	1	NU-BAR PROHPT	
N	95-AM-2V2	45	2, 530	8	2, 530	8	69, 1912	1	NU-BAR PROHPT	
	95-AM-2V2	46	2, 530	8	2, 530	8	69, 1912	1	NU-BAR PROHPT	
	96-CN-2V2	45	-7, 200	0	-7, 200	0	53, 1184	1	NU-BAR PROHPT	
	96-CN-2V2	46	-7, 200	0	-7, 200	0	56, 1145	1	NU-BAR PROHPT	
N	96-CN-2V2	45	-7, 200	0	-7, 200	0	56, 1917	1	NU-BAR PROHPT	
	96-CN-2V2	46	-7, 200	0	-7, 200	0	56, 1917	1	NU-BAR PROHPT	
	96-CN-2V3	45	-2, 530	8	-2, 530	8	69, 1912	1	NU-BAR PROHPT	
	96-CN-2V3	46	-2, 530	8	-2, 530	8	69, 1912	1	NU-BAR PROHPT	
N	96-CN-2V4	45	-8, 860	0	-8, 860	0	55, 1143	1	NU-BAR PROHPT	
	96-CN-2V4	46	-8, 860	0	-8, 860	0	55, 1143	1	NU-BAR PROHPT	
	96-CN-2V4	45	-8, 860	0	-8, 860	0	56, 1145	1	NU-BAR PROHPT	
	96-CN-2V4	46	-8, 860	0	-8, 860	0	56, 1145	1	NU-BAR PROHPT	
N	96-CN-2V4	45	-8, 860	0	-8, 860	0	56, 1147	1	NU-BAR PROHPT	
	96-CN-2V4	46	-8, 860	0	-8, 860	0	56, 1147	1	NU-BAR PROHPT	
	96-CN-2V4	45	-8, 860	0	-8, 860	0	69, 1912	1	NU-BAR PROHPT	
	96-CN-2V4	46	-8, 860	0	-8, 860	0	69, 1912	1	NU-BAR PROHPT	
N	96-CN-2V4	45	-8, 860	0	-8, 860	0	72, 3425	1	NU-BAR PROHPT	
	96-CN-2V4	46	-8, 860	0	-8, 860	0	72, 3425	1	NU-BAR PROHPT	
	96-CN-2V4	45	0, 000	0	0, 000	0	70, 4040	1	NU-BAR PROHPT	
	96-CN-2V4	46	0, 000	0	0, 000	0	70, 4040	1	NU-BAR PROHPT	
N	96-CN-2V4	45	0, 000	0	0, 000	0	73, 4038	1	NU-BAR PROHPT	
	96-CN-2V4	46	0, 000	0	0, 000	0	73, 4038	1	NU-BAR PROHPT	
	96-CN-2V5	45	2, 530	8	2, 530	8	69, 1912	1	NU-BAR PROHPT	
	96-CN-2V5	46	2, 530	8	2, 530	8	70, 4040	1	NU-BAR PROHPT	
N	96-CN-2V6	45	-6, 450	0	-6, 450	0	70, 3470	1	NU-BAR PROHPT	
	96-CN-2V6	46	-6, 450	0	-6, 450	0	70, 3470	1	NU-BAR PROHPT	
	96-CN-2V6	45	-6, 450	0	-6, 450	0	72, 3429	1	NU-BAR PROHPT	
	96-CN-2V6	46	-6, 450	0	-6, 450	0	72, 3429	1	NU-BAR PROHPT	
N	96-CN-2V6	45	0, 000	0	0, 000	0	73, 4051	1	NU-BAR PROHPT	
	96-CN-2V6	46	0, 000	0	0, 000	0	73, 4051	1	NU-BAR PROHPT	
	96-CN-2V6	45	0, 000	0	0, 000	0	73, 4059	1	NU-BAR PROHPT	
	96-CN-2V6	46	0, 000	0	0, 000	0	73, 4059	1	NU-BAR PROHPT	
N	96-CN-2V8	45	-6, 210	0	-6, 210	0	71, 3156	1	NU-BAR PROHPT	
	96-CN-2V8	46	-6, 210	0	-6, 210	0	71, 3156	1	NU-BAR PROHPT	
	96-CN-2V8	45	0, 000	0	0, 000	0	72, 3429	1	NU-BAR PROHPT	
	96-CN-2V8	46	0, 000	0	0, 000	0	72, 3429	1	NU-BAR PROHPT	
N	96-CN-2V8	45	-3, 000	0	-3, 000	0	71, 3156	1	NU-BAR PROHPT	
	96-CN-2V8	46	-3, 000	0	-3, 000	0	71, 3156	1	NU-BAR PROHPT	
	96-CN-2V9	45	-5, 500	3	-5, 460	0	72, 3422	1	NU-BAR PROHPT	
	96-CN-2V9	46	-5, 500	3	-5, 460	0	72, 3422	1	NU-BAR PROHPT	
N	98-CT-2V2	45	-6, 350	0	-6, 350	0	71, 3421	1	NU-BAR PROHPT	
	98-CT-2V2	46	-6, 350	0	-6, 350	0	71, 3421	1	NU-BAR PROHPT	
	98-CT-2V2	45	-6, 350	0	-6, 350	0	55, 1142	1	NU-BAR PROHPT	
	98-CT-2V2	46	-6, 350	0	-6, 350	0	55, 1142	1	NU-BAR PROHPT	
N	98-CT-2V2	45	-6, 350	0	-6, 350	0	55, 1145	1	NU-BAR PROHPT	
	98-CT-2V2	46	-6, 350	0	-6, 350	0	55, 1145	1	NU-BAR PROHPT	
	98-CT-2V2	45	-6, 350	0	-6, 350	0	56, 1147	1	NU-BAR PROHPT	
	98-CT-2V2	46	-6, 350	0	-6, 350	0	56, 1147	1	NU-BAR PROHPT	
N	98-CT-2V2	45	-6, 350	0	-6, 350	0	58, 1160	1	NU-BAR PROHPT	
	98-CT-2V2	46	-6, 350	0	-6, 350	0	58, 1160	1	NU-BAR PROHPT	
	98-CT-2V2	45	-6, 350	0	-6, 350	0	61, 1068	1	NU-BAR PROHPT	
	98-CT-2V2	46	-6, 350	0	-6, 350	0	61, 1068	1	NU-BAR PROHPT	
N	98-CT-2V2	45	-6, 350	0	-6, 350	0	61, 1334	1	NU-BAR PROHPT	
	98-CT-2V2	46	-6, 350	0	-6, 350	0	61, 1334	1	NU-BAR PROHPT	
	98-CT-2V2	45	-6, 350	0	-6, 350	0	62, 1054	1	NU-BAR PROHPT	
	98-CT-2V2	46	-6, 350	0	-6, 350	0	62, 1054	1	NU-BAR PROHPT	

AGENT	CODE	S	E	N	E	E	E	E	MAX-HE	REFERENCE	POINTS	REACTION DESCRIPTION
C	95-0-230	6	350	0	0	0	0	0	0	53 1539	1	NU-BAR PROPT
	95-0-231	6	350	0	0	0	0	0	0	63 1085	1	NU-BAR PROPT
	95-0-232	6	350	0	0	0	0	0	0	68 1081	1	NU-BAR PROPT
	95-0-233	6	350	0	0	0	0	0	0	68 1323	1	NU-BAR PROPT
	95-0-234	6	350	0	0	0	0	0	0	68 1501	1	NU-BAR PROPT
	95-0-235	6	350	0	0	0	0	0	0	68 2401	1	NU-BAR PROPT
	95-0-236	6	350	0	0	0	0	0	0	70 4040	1	NU-BAR PROPT
	95-0-237	6	350	0	0	0	0	0	0	71 1417	1	NU-BAR PROPT
	95-0-238	6	350	0	0	0	0	0	0	73 4089	1	NU-BAR PROPT
	95-0-239	6	350	0	0	0	0	0	0	71 3155	1	NU-BAR PROPT
N	95-0-240	6	780	0	0	0	0	0	0	56 1149	1	NU-BAR PROPT
	100-FM-251	6	370	0	0	0	0	0	0	62 3430	1	NU-BAR PROPT
	100-FM-252	6	370	0	0	0	0	0	0	71 3158	1	NU-BAR PROPT
	100-FM-253	6	950	0	0	0	0	0	0	73 3464	1	NU-BAR PROPT
	92-U-235	80	0	0	0	2	900	0	67 226	21	NU-BAR PROPT	
	94-PU-239	6	80	1	500	0	2	350	0	73 4089	5	NU-BAR PROPT
	94-PU-239	6	80	1	500	0	1	600	0	73 4035	23	NU-BAR PROPT
	90-TH-232	47	2	030	0	1	671	0	71 3246	46	NU-BAR PROPT	
	90-TH-232	47	2	000	0	2	000	0	55 1341	3	NU-BAR DELAYED	
	90-TH-232	47	2	400	0	1	500	0	59 1425	3	NU-BAR DELAYED	
N	90-TH-232	47	3	100	0	1	900	0	69 1533	2	NU-BAR DELAYED	
	90-TH-232	47	1	400	0	1	400	0	61 1410	1	NU-BAR DELAYED	
	90-TH-232	47	1	400	0	1	400	0	68 2357	1	NU-BAR DELAYED	
	90-TH-232	47	1	450	0	1	450	0	61 1423	1	NU-BAR DELAYED	
	92-U-233	47	2	500	0	2	500	0	45 1451	1	NU-BAR DELAYED	
	92-U-233	47	2	500	0	2	500	0	55 1426	1	NU-BAR DELAYED	
	92-U-233	47	2	500	0	2	500	0	57 1065	1	NU-BAR DELAYED	
	92-U-233	47	2	500	0	2	500	0	71 3159	1	NU-BAR DELAYED	
	92-U-233	47	2	000	0	2	6	600	0	72 3095	25	NU-BAR DELAYED
	92-U-233	47	2	000	0	2	000	0	55 1341	1	NU-BAR DELAYED	
N	92-U-233	47	3	100	0	1	900	0	69 1533	2	NU-BAR DELAYED	
	92-U-233	47	1	500	0	1	400	0	61 1410	1	NU-BAR DELAYED	
	92-U-233	47	1	500	0	1	500	0	63 2527	1	NU-BAR DELAYED	
	92-U-235	47	2	500	0	2	500	0	48 1421	1	NU-BAR DELAYED	
	92-U-235	47	2	500	0	2	500	0	71 3159	1	NU-BAR DELAYED	
	92-U-235	47	2	500	0	2	500	0	69 2899	1	NU-BAR DELAYED	
	92-U-235	47	2	000	0	2	6	700	0	69 1533	27	NU-BAR DELAYED
	92-U-235	47	3	100	0	1	900	0	59 1425	2	NU-BAR DELAYED	
	92-U-235	47	1	400	0	1	400	0	60 1410	1	NU-BAR DELAYED	
	92-U-238	47	1	650	0	0	6	900	0	72 3495	14	NU-BAR DELAYED
N	92-U-238	47	2	000	0	2	000	0	55 1341	1	NU-BAR DELAYED	
	92-U-238	47	2	400	0	1	500	0	59 1425	3	NU-BAR DELAYED	
	92-U-238	47	3	100	0	1	900	0	59 1425	2	NU-BAR DELAYED	
	92-U-238	47	1	400	0	1	400	0	60 1410	1	NU-BAR DELAYED	
	92-U-238	47	1	400	0	1	400	0	69 1533	3	NU-BAR DELAYED	
	92-U-238	47	1	400	0	1	400	0	69 1410	2	NU-BAR DELAYED	
	92-U-238	47	1	470	0	1	470	0	68 2357	1	NU-BAR DELAYED	
	92-U-238	47	1	470	0	1	470	0	66 1542	1	NU-BAR DELAYED	
	94-PU-239	47	2	500	0	2	500	0	47 1419	1	NU-BAR DELAYED	
	94-PU-239	47	2	500	0	2	500	0	47 1419	1	NU-BAR DELAYED	
N	94-PU-239	47	2	500	0	2	500	0	47 1419	1	NU-BAR DELAYED	
	94-PU-239	47	2	500	0	2	500	0	47 1419	1	NU-BAR DELAYED	
N	94-PU-239	47	2	500	0	2	500	0	47 1419	1	NU-BAR DELAYED	
	94-PU-239	47	2	500	0	2	500	0	47 1419	1	NU-BAR DELAYED	

[illegible]

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07/34/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 47

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	94-PU-239	47	2.500-8	2.500-8	71 3159	1	NU-BAR DELAYED
	94-PU-239	47	5.000-2	1.750-0	72 3495	1	NU-BAR DELAYED
	94-PU-239	47	2.000+0	2.000+0	55 1341	1	NU-BAR DELAYED
	94-PU-239	47	3.100+0	1.490+1	69 1533	2	NU-BAR DELAYED
	94-PU-239	47	1.450+1	1.450+1	61 1423	1	NU-BAR DELAYED
	94-PU-241	47	2.500-8	2.500-8	61 1334	1	NU-BAR DELAYED
N	94-PU-241	47	1.500-1	5.000+0	75 3599	15	NU-BAR DELAYED
N	94-PU-242	47	6.400-1	1.250+0	72 3495	4	NU-BAR DELAYED
	98-CF-252	47	-6.350+0	-6.350+0	58 705	1	NU-BAR DELAYED
	26-FE-NAT	48	1.400+1	1.400+1	58 877	1	ETA
	29-CU-NAT	48	1.400+1	1.400+1	58 877	1	ETA
	42-MO-NAT	48	1.400+1	1.400+1	58 877	1	ETA
	48-CO-NAT	48	1.400+1	1.400+1	58 877	1	ETA
	50-SN-NAT	48	1.400+1	1.400+1	58 877	1	ETA
	51-SB-NAT	48	1.400+1	1.400+1	58 877	1	ETA
	80-HG-NAT	48	1.400+1	1.400+1	58 877	1	ETA
	82-PB-NAT	48	1.400+1	1.400+1	58 877	1	ETA
	83-BI-209	48	1.400+1	1.400+1	58 877	1	ETA
	90-TH-232	48	1.400+1	1.400+1	63 277	1	ETA
	92-U-NAT	48	1.400+1	1.400+1	58 877	1	ETA
	92-U-233	48	1.040-8	9.900-8	56 990	14	ETA
	92-U-233	48	1.679-8	1.063-6	69 2514	50	ETA
	92-U-233	48	1.679-8	1.063-6	70 3155	50	ETA
	92-U-233	48	2.500-8	2.500-8	55 1099	1	ETA
	92-U-233	48	2.500-8	5.700-8	65 1076	2	ETA
	92-U-233	48	2.530-8	2.530-8	46 1313	1	ETA
	92-U-233	48	2.530-8	2.530-8	48 1314	1	ETA
	92-U-233	48	2.530-8	2.530-8	54 1385	1	ETA
	92-U-233	48	2.530-8	2.530-8	59 1285	1	ETA
	92-U-233	48	2.530-8	2.530-8	60 1287	1	ETA
	92-U-233	48	2.530-8	2.530-8	70 1289	1	ETA
	92-U-233	48	2.530-8	2.530-8	70 1290	1	ETA
	92-U-233	48	2.600-8	2.600-8	56 1416	1	ETA
	92-U-233	48	3.500-8	1.104-5	65 1011	673	ETA
	92-U-233	48	4.800-8	2.160-6	57 1411	27	ETA
	92-U-233	48	9.200-8	7.300-6	56 1436	77	ETA
	92-U-233	48	9.976-7	8.207-4	61 1440	155	ETA
	92-U-233	48	2.400-2	9.000-1	56 1360	5	ETA
	92-U-233	48	1.400+1	1.400+1	61 1269	1	ETA
	92-U-235	48	6.000-9	5.000-8	58 1390	8	ETA
	92-U-235	48	1.020-6	1.690-7	56 930	20	ETA
	92-U-235	48	1.410-8	9.280-6	55 1022	63	ETA
	92-U-235	48	2.500-8	2.500-8	65 1076	1	ETA
	92-U-235	48	2.530-8	2.530-8	46 1313	1	ETA
	92-U-235	48	2.530-8	2.530-8	54 1385	1	ETA
	92-U-235	48	2.530-8	2.530-8	59 1285	1	ETA
	92-U-235	48	2.530-8	2.530-8	60 1287	1	ETA
	92-U-235	48	2.530-8	2.530-8	70 1290	1	ETA
	92-U-235	48	3.020-3	1.245-6	64 966	58	ETA
	92-U-235	48	3.500-8	2.001-4	65 1011	2422	ETA
	92-U-235	48	2.400-2	2.400-2	65 1342	1	ETA
	92-U-235	48	2.400-2	8.800-1	58 1338	3	ETA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 48

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U	-235	48	2.400	-2	9.000-1	56 1360	5 ETA
92-U	-235	48	1.400	-1	1.400-1	58 1324	1 ETA
92-U	-235	48	1.260	-1	1.880-1	52 1347	7 ETA
92-U	-235	48	1.400	-1	1.400-1	58 1324	1 ETA
92-U	-235	48	1.410	-1	1.410-1	61 1270	1 ETA
92-U	-235	48	1.410	-1	1.410-1	69 2085	1 ETA
92-U	-235	48	7.000	-9	3.600-7	58 1390	17 ETA
94-PJ	-239	48	1.750	-8	6.800-7	56 990	28 ETA
94-PJ	-239	48	2.500	-2	2.500-8	55 1099	1 ETA
94-PJ	-239	48	2.500	-9	5.700-9	65 1076	2 ETA
94-PJ	-239	48	2.530	-8	2.530-8	59 1285	1 ETA
94-PJ	-239	48	2.530	-8	2.530-8	62 1296	1 ETA
94-PJ	-239	48	2.530	-8	2.530-8	67 1523	1 ETA
94-PJ	-239	48	2.530	-8	2.530-8	70 1289	1 ETA
94-PJ	-239	48	3.800	-8	1.104-5	65 1011	553 ETA
94-PJ	-239	48	4.100	-8	3.610-7	56 2318	10 ETA
94-PJ	-239	48	1.000	-4	9.083-4	68 1080	3762 ETA
94-PJ	-239	48	2.400	-2	2.400-2	55 1342	1 ETA
94-PJ	-239	48	2.400	-2	8.800-1	58 1338	3 ETA
94-PJ	-239	48	2.400	-2	9.000-1	56 1360	5 ETA
94-PJ	-239	48	1.400	-1	1.400-1	81 1259	1 ETA
94-PJ	-241	48	2.530	-8	2.530-8	67 1523	1 ETA
94-PJ	-241	48	2.520	-8	6.000-8	68 1524	2 ETA
92-U	-233	48 80	8.800	-9	3.800-6	55 1212	21 ETA
92-U	-235	48 80	1.020	-8	1.200-6	55 1212	17 ETA
94-PJ	-239	48 80	1.020	-8	3.000-6	55 1212	20 ETA
94-PJ	-239	48 80	2.530	-8	5.000-7	56 989	30 ETA
94-PJ	-239	48 80	3.700	-8	6.100-5	56 954	260 ETA
92-U	-232	48	2.530	-8	2.530-8	71 3943	1 ALPHA
92-U	-233	48	1.100	-9	1.100-9	58 1280	1 ALPHA
92-U	-233	48	1.040	-8	9.900-8	56 990	14 ALPHA
92-U	-233	48	2.500	-8	2.500-8	55 1099	1 ALPHA
92-U	-233	48	2.500	-8	5.700-8	65 1076	2 ALPHA
92-U	-233	48	2.530	-8	2.530-8	46 1313	1 ALPHA
92-U	-233	48	2.530	-8	2.530-8	48 1314	1 ALPHA
92-U	-233	48	2.530	-8	2.530-8	54 1385	1 ALPHA
92-U	-233	48	2.530	-8	2.530-8	59 1285	1 ALPHA
92-U	-233	48	2.530	-8	2.530-8	60 1287	1 ALPHA
92-U	-233	48	2.530	-8	2.530-8	62 1289	1 ALPHA
92-U	-233	48	2.530	-8	2.530-8	62 1290	1 ALPHA
92-U	-233	48	2.530	-8	2.530-8	64 1433	1 ALPHA
92-U	-233	48	2.530	-8	2.530-8	66 1077	1 ALPHA
92-U	-233	48	2.530	-8	2.530-8	66 1312	1 ALPHA
92-U	-233	48	2.530	-8	2.530-0	69 2915	1 ALPHA
92-U	-233	48	2.600	-8	2.600-8	56 1416	1 ALPHA
92-U	-233	48	3.600	-8	1.104-5	65 1011	658 ALPHA
92-U	-233	48	9.200	-8	7.300-6	56 1436	77 ALPHA
92-U	-233	48	9.976	-7	8.207-4	61 1440	155 ALPHA
92-U	-233	48	1.070	-6	2.160-6	57 1411	12 ALPHA
92-U	-233	48	2.966	-4	6.491-4	67 1297	375 ALPHA
92-U	-233	48	2.400	-2	2.500-1	56 1260	4 ALPHA
92-U	-233	48	1.000	-2	1.000-0	62 1259	9 ALPHA

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/78

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	92-U	-235	49	1.100-	9	1.100- 9	58 1280	1 ALPHA
	92-U	-235	49	2.900-	9	2.900- 9	59 1302	1 ALPHA
	92-U	-235	49	3.800-	9	4.020- 7	58 1021	27 ALPHA
	92-U	-235	49	6.000-	9	5.000- 8	58 1390	8 ALPHA
	92-U	-235	49	1.020-	8	1.690- 7	56 990	20 ALPHA
	92-U	-235	49	1.410-	8	9.280- 5	55 1022	79 ALPHA
	92-U	-235	49	2.500-	8	2.500- 8	64 1282	1 ALPHA
	92-U	-235	49	2.500-	8	2.500- 8	65 1076	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	46 1313	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	54 1385	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	59 1295	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	59 1452	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	60 1287	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	62 1007	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	62 1290	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	66 1077	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	66 1311	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	66 1312	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	67 1539	1 ALPHA
	92-U	-235	49	2.530-	8	2.530- 8	2 69 2915	1 ALPHA
	92-U	-235	49	3.000-	8	4.500- 7	55 1381	21 ALPHA
	92-U	-235	49	3.020-	8	1.999- 5	64 966	497 ALPHA
	92-U	-235	49	3.500-	8	1.992- 4	65 1011	2336 ALPHA
	92-U	-235	49	2.000-	3	2.450- 2	74 4043	2 ALPHA
	92-U	-235	49	1.230-	2	6.900- 1	64 1297	26 ALPHA
	92-U	-235	49	1.240-	2	1.100+ 0	71 3318	47 ALPHA
	92-U	-235	49	1.770-	2	6.000- 1	66 1025	41 ALPHA
	92-U	-235	49	2.400-	2	2.400- 2	65 1342	1 ALPHA
	92-U	-235	49	2.400-	2	8.800- 1	58 1338	3 ALPHA
	92-U	-235	49	2.400-	2	9.000- 1	56 1360	5 ALPHA
	92-U	-235	49	3.000-	2	1.000+ 0	62 709	9 ALPHA
	92-U	-235	49	1.800-	1	1.000+ 0	58 1301	9 ALPHA
	94-Pu	-239	49	1.100-	9	1.100- 9	58 1280	1 ALPHA
	94-Pu	-239	49	7.000-	9	3.600- 7	58 1390	17 ALPHA
	94-Pu	-239	49	1.750-	8	6.800- 7	56 990	26 ALPHA
	94-Pu	-239	49	1.750-	8	3.530- 5	58 936	130 ALPHA
	94-Pu	-239	49	2.500-	8	2.500- 8	55 1098	1 ALPHA
	94-Pu	-239	49	2.500-	8	5.700- 8	65 1076	2 ALPHA
	94-Pu	-239	49	2.530-	8	2.530- 8	59 1285	1 ALPHA
	94-Pu	-239	49	2.530-	8	2.530- 8	62 1289	1 ALPHA
	94-Pu	-239	49	2.530-	8	2.530- 8	62 1296	1 ALPHA
	94-Pu	-239	49	2.530-	8	2.530- 8	66 1131	1 ALPHA
	94-Pu	-239	49	2.530-	8	2.530- 8	66 1311	1 ALPHA
	94-Pu	-239	49	2.530-	8	2.530- 8	66 1312	1 ALPHA
	94-Pu	-239	49	2.530-	8	2.530- 8	67 1523	1 ALPHA
	94-Pu	-239	49	2.530-	8	2.530- 8	70 2915	1 ALPHA
	94-Pu	-239	49	2.530-	8	5.000- 7	56 969	30 ALPHA
	94-Pu	-239	49	3.700-	8	6.100- 5	56 954	260 ALPHA
	94-Pu	-239	49	3.900-	8	1.104- 5	65 1011	517 ALPHA
	94-Pu	-239	49	6.950-	5	2.864- 2	69 2358	1130 ALPHA
	94-Pu	-239	49	7.850-	6	9.863- 3	70 4055	101 ALPHA
	94-Pu	-239	49	2.000-	4	6.000- 3	70 3315	22 ALPHA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-239	49		2.000-4	1.250-2	71 4045	25	ALPHA
94-PU-239	49		2.000-3	2.000-3	69 2906	1	ALPHA
94-PU-239	49		2.000-3	1.400-1	74 4043	4	ALPHA
94-PU-239	49		9.400-3	1.000+0	71 3318	52	ALPHA
94-PU-239	49		1.770-2	6.000-1	65 1025	41	ALPHA
94-PU-239	49		2.400-2	2.400-2	65 1342	1	ALPHA
94-PU-239	49		2.400-2	2.400-1	58 1328	2	ALPHA
94-PU-239	49		2.400-2	9.000-1	56 1360	5	ALPHA
94-PU-239	49		3.000-2	1.000+0	62 709	9	ALPHA
94-PU-241	49		2.530-8	2.530-8	66 1131	1	ALPHA
94-PU-241	49		2.530-8	2.530-8	66 1312	1	ALPHA
94-PU-241	49		2.530-8	2.530-8	67 1523	1	ALPHA
94-PU-241	49		2.530-8	6.000-8	68 1524	2	ALPHA
94-CM-244	49		2.530-8	2.530-8	68 2103	1	ALPHA
94-CM-245	49		2.530-8	2.530-8	68 2103	1	ALPHA
98-CF-251	49		2.530-8	2.530-8	68 2103	1	ALPHA
2-HE-NAT	51		2.500-8	2.500-8	58 2797	1	TOTAL
34-XE-135	51		2.500-8	2.500-8	56 2686	1	TOTAL
66-DY-160	51		2.500-8	2.500-8	58 2631	1	TOTAL
66-DY-161	51		2.500-8	2.500-8	58 2631	1	TOTAL
66-DY-162	51		2.500-8	2.500-8	58 2631	1	TOTAL
66-DY-163	51		2.500-8	2.500-8	58 2631	1	TOTAL
66-DY-164	51		2.500-8	2.500-8	58 2631	1	TOTAL
90-TH-232	51		3.500-4	6.000-2	61 408	33	TOTAL
94-PU-239	51		1.500-4	1.150-1	64 988	24	TOTAL
C2H4	51	9	1.900-9	2.500-8	66 3334	9	TOTAL
C6H6	51	9	1.900-9	2.500-8	66 3334	9	TOTAL
9-F-19	52		2.500-8	2.500-8	51 1303	1	ELASTIC
15-P-31	52		2.500-8	2.500-8	51 1303	1	ELASTIC
22-Tl-NAT	52		2.500-8	2.500-8	51 1303	1	ELASTIC
53-I-127	52		2.000+0	2.000+0	68 2990	1	ELASTIC
80-HG-NAT	52		2.500-8	2.500-8	51 962	1	ELASTIC
81-TL-203	52		2.000+0	2.000+0	68 2990	1	ELASTIC
90-TH-232	52		2.500-8	2.500-8	51 1303	1	ELASTIC
90-TH-232	52		2.500-8	2.500-8	51 1397	1	ELASTIC
90-TH-232	52		2.530-8	2.500-8	73 3482	1	ELASTIC
92-U-NAT	52		2.500-8	2.500-8	51 1397	1	ELASTIC
92-U-233	52		2.530-8	2.530-8	73 3482	1	ELASTIC
92-U-235	52		2.500-8	2.500-8	51 1303	1	ELASTIC
92-U-238	52		2.500-8	2.500-9	51 1303	1	ELASTIC
22-V-50	55		5.045-7	5.045-7	72 3431	1	TOTAL SCATTERING
68-ER-NAT	55		1.150-7	1.150-7	68 3393	1	TOTAL SCATTERING
68-ER-162	55		1.150-7	1.150-7	68 3393	1	TOTAL SCATTERING
68-ER-164	55		1.150-7	1.150-7	68 3393	1	TOTAL SCATTERING
68-ER-166	55		1.150-7	1.150-7	68 3393	1	TOTAL SCATTERING
68-ER-167	55		1.150-7	1.150-7	68 3393	1	TOTAL SCATTERING
68-ER-168	55		1.150-7	1.150-7	68 3393	1	TOTAL SCATTERING
69-ER-170	55		1.150-7	1.150-7	68 3393	1	TOTAL SCATTERING
49-IN-115	61		1.000+0	1.000+0	70 3809	1	N,N
49-N-115	61		2.000+0	2.000+0	67 1895	1	N,N
34-SG-77	61	2	2.000+0	2.000+0	65 910	1	N,N
35-SR-79	61	2	4.500+0	4.500+0	73 3989	1	N,N

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 61

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 39-Y-89	61	2	4.500+0	4.500+0	73 3999	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 79-AU-197	61	2	4.500+0	4.500+0	73 3989	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 45-RH-103	61	3	1.500+0	4.500+0	73 3993	2 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 48-CD-111	61	3	8.300-1	8.300-1	73 3994	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
48-CD-111	61	3	2.000+0	2.000+0	65 910	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
56-BA-137	61	3	2.000+0	2.000+0	65 910	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 62-PB-204	61	3	1.000+0	1.000+0	71 3762	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
38-SR-67	61	4	2.000+0	2.000+0	65 910	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 49-IN-115	61	4	8.300-1	8.300-1	73 3994	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 49-IN-115	61	4	1.000+0	1.000+0	62 3702	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 49-IN-115	61	4	1.000+0	1.000+0	65 3671	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 49-IN-115	61	4	1.000+0	1.000+0	73 3743	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 49-IN-115	61	4	4.400+0	4.400+0	64 1741	1 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 49-IN-115	61	4	4.500+0	4.500+0	73 3989	2 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 11-NA-23	61	7	1.000+0	1.000+0	70 3425	2 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 13-AL-27	61	7	1.000+0	1.000+0	70 3425	6 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 22-TI-NAT	61	7	1.000+0	1.000+0	70 3425	2 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 23-V-NAT	61	7	1.000+0	1.000+0	70 3425	4 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 25-MN-55	61	7	1.000+0	1.000+0	70 3425	6 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 26-FE-NAT	61	7	1.000+0	1.000+0	70 3425	6 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 28-NI-NAT	61	7	1.000+0	1.000+0	70 3425	3 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 29-CU-NAT	61	7	1.000+0	1.000+0	70 3425	7 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 30-ZN-NAT	61	7	1.000+0	1.000+0	70 3425	4 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 40-ZR-NAT	61	7	1.000+0	1.000+0	70 3425	4 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 83-BI-209	61	7	1.000+0	1.000+0	70 3425	4 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 82-PB-NAT	61	10	1.000+0	1.000+0	70 3425	3 N,N'	SPECTRUM AVERAGED CROSS SECTION
N 92-U-238	61	10	1.000+0	1.000+0	70 3425	3 N,N'	SPECTRUM AVERAGED CROSS SECTION
4-BE-9	62		2.000+0	2.000+0	66 1942	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
4-BE-9	62		2.000+0	2.000+0	67 3098	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
4-BE-9	62		2.000+0	2.000+0	68 2310	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
6-C-12	62		2.000+0	2.000+0	68 2990	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
B-O-16	62		2.000+0	2.000+0	68 2990	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 9-F-19	62		1.000+0	1.000+0	70 3809	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 9-F-19	62		1.500+0	1.500+0	63 3979	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 9-F-19	62		2.000+0	2.000+0	67 3309	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 9-F-19	62		2.000+0	2.000+0	68 2990	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 11-NA-23	62		1.500+0	1.500+0	62 3981	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 11-NA-23	62		2.000+0	2.000+0	68 2990	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 11-NA-23	62		2.000+0	2.000+0	70 3382	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 25-MN-55	62		1.000+0	1.000+0	65 3371	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 25-MN-55	62		2.000+0	2.000+0	68 2990	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 25-MN-55	62		2.000+0	2.000+0	70 3382	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 27-CO-59	62		2.000+0	2.000+0	68 2990	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 33-AS-75	62		2.000+0	2.000+0	68 2990	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 33-AS-75	62		2.000+0	2.000+0	70 3382	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 39-Y-89	62		2.000+0	2.000+0	70 3382	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 41-NB-93	62		1.000+0	1.000+0	65 3671	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 41-NB-93	62		2.000+0	2.000+0	68 2990	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 57-I-127	62		2.000+0	2.000+0	70 3382	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 65-TM-169	62		1.000+0	1.000+0	66 3534	1 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 74-W-186	62		2.000+0	2.000+0	66 1862	2 N,2N	SPECTRUM AVERAGED CROSS SECTION
N 75-RE-187	62		2.000+0	2.000+0	67 2300	1 N,2N	SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
16-S -NAT	71	2,500	-0	2,500	-0	61 2559	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
17-CL -NAT	71	2,500	-0	2,500	-0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
17-CL -NAT	71	2,500	-0	2,500	-0	0 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
17-CL -NAT	71	2,500	-0	2,500	-0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
17-CL -NAT	71	2,500	-0	2,500	-0	51 1619	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
17-CL -NAT	71	2,500	-0	2,500	-0	63 2558	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
18-AR -NAT	71	2,500	-0	2,500	-0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
19-K -NAT	71	2,500	-0	2,500	-0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
19-K -NAT	71	2,500	-0	2,500	-0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
19-K -NAT	71	2,500	-0	2,500	-0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
19-K -NAT	71	2,500	-0	2,500	-0	61 2559	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
20-CA -NAT	71	2,500	-0	2,500	-0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
20-CA -NAT	71	2,500	-0	2,500	-0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
20-CA -NAT	71	2,500	-0	2,500	-0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
21-SC-45	71	2,500	-0	2,500	-0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
21-SC-45	71	2,500	-0	2,500	-0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
21-SC-45	71	2,500	-0	2,500	-0	51 1619	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
21-SC-45	71	2,500	-0	2,500	-0	52 2563	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
21-SC-45	71	2,500	-0	2,500	-0	53 2562	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
21-SC-45	71	2,500	-0	2,500	-0	55 1793	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
22-TI -NAT	71	2,500	-0	2,500	-0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
22-TI -NAT	71	2,500	-0	2,500	-0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
22-TI -NAT	71	2,500	-0	2,500	-0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
23-V -NAT	71	2,500	-0	2,500	-0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
23-V -NAT	71	2,500	-0	2,500	-0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
23-V -NAT	71	2,500	-0	2,500	-0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
23-V -NAT	71	2,500	-0	2,500	-0	61 2559	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
24-CR -NAT	71	2,500	-0	2,500	-0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
24-CR -NAT	71	2,500	-0	2,500	-0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
24-CR -NAT	71	2,500	-0	2,500	-0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
24-CR -NAT	71	2,500	-0	2,500	-0	51 1619	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
25-MN-54	71	2,500	-0	2,500	-0	71 3339	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
25-MN-55	71	2,500	-0	2,500	-0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
25-MN-55	71	2,500	-0	2,500	-0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
25-MN-55	71	2,500	-0	2,500	-0	51 1619	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
25-MN-55	71	2,500	-0	2,500	-0	56 906	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
25-MN-55	71	2,500	-0	2,500	-0	63 1670	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
25-MN-55	71	2,500	-0	2,500	-0	63 2558	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
26-FE -NAT	71	2,500	-0	2,500	-0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
26-FE -NAT	71	2,500	-0	2,500	-0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
26-FE -NAT	71	2,500	-0	2,500	-0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
26-FE -NAT	71	2,500	-0	2,500	-0	51 1619	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
26-FE -NAT	71	2,500	-0	2,500	-0	61 2559	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
26-FE -NAT	71	2,500	-0	2,500	-0	61 2776	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
27-CO-59	71	2,500	-0	2,500	-0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
27-CO-59	71	2,500	-0	2,500	-0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
27-CO-59	71	2,500	-0	2,500	-0	51 1619	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
27-CO-60	71	2,500	-0	2,500	-0	53 2909	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
27-CO-60H	71	2,500	-0	2,500	-0	53 2909	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
28-NI -NAT	71	2,500	-0	2,500	-0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
28-NI -NAT	71	2,500	-0	2,500	-0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
28-NI -NAT	71	2,500	-0	2,500	-0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

TARGET	CODE	SECTION	MEV	E-MAX	MEV	REFERENCE	POINTS	REACTION DESCRIPTION
25-AL-NAT	71	2	500	0	2 500	0	51 1619	ABSORPTION
25-AL-NAT	71	2	500	0	2 500	0	51 1623	ABSORPTION
25-AL-NAT	71	2	500	0	2 500	0	51 1794	ABSORPTION
25-AL-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
25-AL-NAT	71	2	500	0	2 500	0	51 1619	ABSORPTION
25-AL-NAT	71	2	500	0	2 500	0	51 1794	ABSORPTION
25-AL-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
25-AL-NAT	71	2	500	0	2 500	0	51 1623	ABSORPTION
30-ZN-NAT	71	2	500	0	2 500	0	50 1734	ABSORPTION
30-ZN-NAT	71	2	500	0	2 500	0	50 1623	ABSORPTION
30-ZN-NAT	71	2	500	0	2 500	0	50 1734	ABSORPTION
30-ZN-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
31-GA-NAT	71	2	500	0	2 500	0	50 1794	ABSORPTION
31-GA-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
31-GA-NAT	71	2	500	0	2 500	0	50 1794	ABSORPTION
32-GE-NAT	71	2	500	0	2 500	0	50 1794	ABSORPTION
32-GE-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
33-AS-75	71	2	500	0	2 500	0	50 1794	ABSORPTION
33-AS-75	71	2	500	0	2 500	0	51 882	ABSORPTION
34-SE-NAT	71	2	500	0	2 500	0	50 1623	ABSORPTION
34-SE-NAT	71	2	500	0	2 500	0	50 1794	ABSORPTION
34-SE-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
35-BR-NAT	71	2	500	0	2 500	0	50 1623	ABSORPTION
35-BR-NAT	71	2	500	0	2 500	0	50 1794	ABSORPTION
35-BR-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
36-KR-NAT	71	2	500	0	2 500	0	50 2681	ABSORPTION
37-RB-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
38-SR-NAT	71	2	500	0	2 500	0	50 1623	ABSORPTION
38-SR-NAT	71	2	500	0	2 500	0	50 1794	ABSORPTION
38-SR-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
39-Y-B9	71	2	500	0	2 500	0	51 882	ABSORPTION
40-ZR-NAT	71	2	500	0	2 500	0	50 1623	ABSORPTION
40-ZR-NAT	71	2	500	0	2 500	0	50 1794	ABSORPTION
40-ZR-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
40-ZR-NAT	71	2	500	0	2 500	0	56 906	ABSORPTION
40-ZR-NAT	71	2	500	0	2 500	0	68 1950	ABSORPTION
40-ZR-90	71	2	500	0	2 500	0	55 267	ABSORPTION
40-ZR-91	71	2	500	0	2 500	0	55 267	ABSORPTION
40-ZR-92	71	2	500	0	2 500	0	55 267	ABSORPTION
40-ZR-93	71	2	500	0	2 500	0	55 267	ABSORPTION
40-ZR-94	71	2	500	0	2 500	0	55 267	ABSORPTION
40-ZR-96	71	2	500	0	2 500	0	55 267	ABSORPTION
41-NB-93	71	2	500	0	2 500	0	47 2714	ABSORPTION
41-NB-93	71	2	500	0	2 500	0	50 1623	ABSORPTION
41-NB-93	71	2	500	0	2 500	0	50 1794	ABSORPTION
41-NB-93	71	2	500	0	2 500	0	51 682	ABSORPTION
42-MC-NAT	71	2	500	0	2 500	0	50 1623	ABSORPTION
42-MC-NAT	71	2	500	0	2 500	0	50 1794	ABSORPTION
42-MC-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
43-TC-99	71	2	500	0	2 500	0	55 2721	ABSORPTION
44-TH-NAT	71	2	500	0	2 500	0	51 794	ABSORPTION
44-TH-NAT	71	2	500	0	2 500	0	51 882	ABSORPTION
45-Pa-103	71	2	500	0	2 500	0	50 1794	ABSORPTION
45-Pa-103	71	2	500	0	2 500	0	51 882	ABSORPTION
45-Pa-103	71	2	500	0	2 500	0	51 2719	ABSORPTION

TARGET CODE SECTION MEV E-MAX MEV REFERENCE POINTS REACTION DESCRIPTION

[illegible]

07/04/76

EC5IL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 71

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
72-HF-NAT	71	2.500	0	2.500	0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
72-HF-NAT	71	2.500	0	2.500	0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
72-HF-181	71	2.500	0	2.500	0	61 2639	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
73-TA-NAT	71	2.500	0	2.500	0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
73-TA-NAT	71	2.500	0	2.500	0	50 1704	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
73-TA-NAT	71	2.500	0	2.500	0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
74-W-NAT	71	2.500	0	2.500	0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
74-W-NAT	71	2.500	0	2.500	0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
74-W-NAT	71	2.500	0	2.500	0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
75-RE-NAT	71	2.500	0	2.500	0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
75-RE-NAT	71	2.500	0	2.500	0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
76-OS-NAT	71	2.500	0	2.500	0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
77-IR-NAT	71	2.500	0	2.500	0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
77-IR-NAT	71	2.500	0	2.500	0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
78-Pt-NAT	71	2.500	0	2.500	0	50 1623	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
78-Pt-NAT	71	2.500	0	2.500	0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
78-Pt-NAT	71	2.500	0	2.500	0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
78-Pt-190	71	2.500	0	2.500	0	55 267	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
78-Pt-192	71	2.500	0	2.500	0	55 267	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
78-Pt-194	71	2.500	0	2.500	0	55 267	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
78-Pt-195	71	2.500	0	2.500	0	55 267	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
78-Pt-196	71	2.500	0	2.500	0	55 267	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
78-Pt-198	71	2.500	0	2.500	0	55 267	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
79-AU-197	71	2.500	0	2.500	0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
79-AU-197	71	2.500	0	2.500	0	57 1478	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
79-AU-197	71	2.500	0	2.500	0	57 2579	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
79-AU-197	71	2.500	0	2.500	0	63 1670	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
80-HG-NAT	71	2.500	0	2.500	0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
80-HG-NAT	71	2.500	0	2.500	0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
80-HG-NAT	71	2.500	0	2.500	0	52 1621	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
81-TL-NAT	71	2.500	0	2.500	0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
81-TL-NAT	71	2.500	0	2.500	0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
82-PB-NAT	71	2.500	0	2.500	0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
82-PB-NAT	71	2.500	0	2.500	0	51 882	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
82-PB-204	71	2.500	0	2.500	0	58 2648	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
82-PB-206	71	2.500	0	2.500	0	52 2658	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
82-PB-207	71	2.500	0	2.500	0	52 2658	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
83-BI-209	71	2.500	0	2.500	0	50 1794	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
90-TH-232	71	2.500	0	2.500	0	55 1406	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
90-TH-232	71	2.500	0	2.500	0	57 1478	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
92-U-NAT	71	2.500	0	2.500	0	55 1406	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
92-U-233	71	2.500	0	2.500	0	55 1414	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
92-U-234	71	2.500	0	2.500	0	52 1095	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
92-U-234	71	2.500	0	2.500	0	55 1158	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
92-U-234	71	2.500	0	2.500	0	57 1177	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
C 92-U-235	71	1.100	0	1.975	1	75 3263	274 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
C 92-U-235	71	1.500	4	1.500	1	72 3263	28 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
C 92-U-235	71	2.025	2	9.975	2	76 3263	160 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
92-U-236	71	2.500	0	2.500	0	52 1095	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
92-U-237	71	2.500	0	2.500	0	67 195	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
92-U-238	71	2.500	0	2.500	0	52 1095	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION
92-U-238	71	2.500	0	2.500	0	53 1431	1 ABSORPTION SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-205 ***

C = 71

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 72

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION		
N	92-U	-235	72	2,300	-1	2,300	-1	65 1125	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-235	72	1,000	0	1,000	0	1 68 3730	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-235	72	1,500	0	9,500	2	75 3899	27 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-235	72	2,000	0	2,000	0	55 3363	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-235	72	2,130	0	2,130	0	72 3344	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-237	72	5,500	-4	5,500	-4	68 2081	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-237	72	2,500	-1	5,000	-1	2 68 2101	2 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-238	72	1,000	-2	3,000	-2	72 3256	2 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-238	72	2,300	-1	2,300	-1	65 1125	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-238	72	1,000	0	1,000	0	1 68 3730	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-238	72	2,000	0	2,000	0	55 3363	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-238	72	2,130	0	2,130	0	72 3344	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-239	72	2,500	-8	2,500	-8	56 1204	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	92-U	-239	72	2,500	-8	2,500	-9	57 1195	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	93-NP	-236	72	2,500	-8	2,500	-8	55 13	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	93-NP	-237	72	2,500	-8	2,500	-8	46 1174	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	93-NP	-237	72	2,300	-1	2,300	-1	65 1125	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	93-NP	-237	72	1,000	0	1,000	0	73 3749	2 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	93-NP	-238	72	2,500	-8	2,500	-8	69 2525	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-236	72	2,500	-8	2,500	-8	53 1152	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-236	72	2,500	-8	2,500	-8	61 1522	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-237	72	2,500	-8	2,500	-8	59 1152	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-237	72	2,500	-8	2,500	-8	61 1522	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-238	72	2,500	-8	2,500	-8	51 1188	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-238	72	2,500	-8	2,500	-8	57 386	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-238	72	2,500	-9	2,500	-8	68 2353	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-238	72	2,000	0	2,000	0	65 1168	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-238	72	1,100	-8	1,975	-1	75 3263	251 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-239	72	2,500	-8	2,500	-8	59 1176	2 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-239	72	2,530	-8	2,530	-8	73 3469	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-239	72	1,200	-6	2,458	-2	65 1094	45 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-239	72	1,500	-5	9,500	-3	73 3828	27 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-239	72	7,500	-5	1,500	-1	72 3263	21 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-239	72	1,500	-4	2,500	-2	68 1080	29 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-239	72	1,500	-4	2,500	-2	70 2106	40 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-239	72	1,500	-4	2,530	-2	69 2358	17 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-239	72	1,250	-3	9,500	-1	75 3905	33 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-239	72	3,000	-2	5,000	0	57 198	5 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-239	72	2,300	-1	2,300	-1	65 1125	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-240	72	2,500	-8	2,500	-8	56 1149	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-240	72	2,500	-8	2,500	-8	58 1429	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-240	72	3,000	-2	5,000	0	57 198	4 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-240	72	2,300	-1	2,300	-1	65 1125	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-240	72	2,100	0	2,100	0	58 1217	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-241	72	2,500	-8	2,500	-8	55 1187	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-241	72	2,500	-8	2,500	-8	56 1135	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-241	72	2,500	-8	2,500	-8	59 1176	2 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-241	72	2,500	-8	4,005	-5	75 3906	13 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-241	72	1,500	-5	2,500	-4	70 3208	11 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-241	72	1,500	-5	2,500	-2	73 3828	29 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-242	72	2,500	-8	2,500	-9	57 1348	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N	94-PU	-243	72	2,500	-8	2,500	-8	66 1517	1 N.F.	SPECTRUM AVERAGED CROSS SECTION

(TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION)

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C = 72

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-243	72		2.000-2	2.000-2	68 2088	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
94-PU-245	72		2.000-2	2.000-2	68 2088	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
94-PU-247	72		2.003-2	2.003-2	68 2088	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
94-PU-251	72		2.000-2	2.000-2	68 2088	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-241	72		2.500-8	2.500-8	51 564	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-241	72		2.500-8	2.500-8	51 1188	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-241	72		2.500-8	2.500-8	57 386	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-241	72		2.500-8	2.500-8	67 2193	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-241	72		2.000-0	2.000-0	67 1518	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-242	72		2.500-8	2.500-8	51 1188	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-242	72		2.500-8	2.500-8	52 563	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-242	72		2.500-8	2.500-8	57 386	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-242	72		2.500-8	2.500-8	66 368	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-242	72		2.500-8	2.500-8	66 1264	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-243	72		2.000-0	2.000-0	67 1518	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-2426	72		2.500-8	2.500-8	52 563	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-2426	72		2.500-8	2.500-8	67 2193	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-2440	72		2.500-8	2.500-8	61 1522	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
96-CM-242	72		2.500-8	2.500-8	51 1188	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
96-CM-243	72		2.500-8	2.500-8	57 386	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
96-CM-244	72		2.000-0	2.000-0	67 1518	2 N.F.	SPECTRUM AVERAGED CROSS SECTION
96-CM-245	72		2.500-8	2.500-8	55 1187	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
96-CM-245	72		2.500-8	2.500-8	57 386	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
96-CM-245	72		2.500-8	2.500-8	66 1977	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
96-CM-245	72		2.500-8	2.500-8	68 1517	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
96-CM-245	72		2.500-8	2.500-8	68 2104	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
96-CM-247	72		2.503-8	2.500-8	66 1977	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
96-CM-247	72		2.500-8	2.500-8	68 1517	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
96-CM-247	72		2.500-8	2.500-8	68 2104	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
97-BK-250	72		2.500-8	2.500-8	63 1517	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
98-CF-249	72		2.500-8	2.500-8	64 1980	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
98-CF-251	72		2.500-8	2.500-8	64 1983	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
98-CF-251	72		2.500-8	2.500-8	66 1977	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
98-CF-251	72		2.500-8	2.500-8	68 2104	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N 98-CF-251	72		2.530-8	2.530-8	74 3442	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
98-CF-252	72		2.500-8	2.500-8	70 3233	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N 98-CF-253	72		2.530-8	2.530-8	73 3469	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N 98-CF-253	72		5.400-7	5.400-7	70 2102	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
99-CS-254	72		2.500-8	2.500-8	68 1517	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N 99-CS-254	72		2.530-8	2.530-8	72 3465	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
99-CS-254M	72		2.500-8	2.500-8	68 1517	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N 100-FM-255	72		2.530-8	2.530-8	74 3472	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N 100-FM-257	72		2.530-8	2.530-8	73 3469	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N 82-PB-254	72		1.000-0	1.000-0	71 3762	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-244	72		2.500-8	2.500-8	61 1276	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
95-AM-2426	72		2.500-8	2.500-8	54 65	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
N 11-NB-93	72	5	1.000-0	1.000-0	71 3762	2 N.F.	SPECTRUM AVERAGED CROSS SECTION
N 11-NB-93	72	5	1.000-0	1.000-0	72 3726	1 N.F.	SPECTRUM AVERAGED CROSS SECTION
1-H-1	73		2.500-8	2.500-8	68 3364	1 N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
1-H-2	73		2.500-8	2.500-8	63 2659	1 N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
1-H-2	73		2.500-8	2.500-8	63 2793	1 N.GAMMA	SPECTRUM AVERAGED CROSS SECTION
N 1-H-2	73		2.530-8	2.530-8	73 3450	1 N.GAMMA	SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/76

ECSIL-600 REACTION INDEX (REACTION NO. ORDERED)

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
3-LI-6	73	2.500	0	2.500	0	57 2800	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
3-LI-6	73	2.500	0	2.500	0	61 2799	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
3-LI-7	73	2.500	0	2.500	0	56 2807	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
3-LI-7	73	2.500	0	2.500	0	61 2799	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
4-BE-9	73	2.500	0	2.500	0	47 2804	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
4-BE-9	73	2.500	0	2.500	0	61 2799	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
4 BE-9	73	2.500	0	2.500	0	63 2659	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
5-B -11	73	2.500	0	2.500	0	62 690	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
6-C -12	73	2.500	0	2.500	0	57 2870	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
6-C -12	73	2.500	0	2.500	0	63 2659	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
7-N -14	73	2.500	0	2.500	0	57 2800	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
7-N -14	73	2.500	0	2.500	0	63 2659	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
8-O -16	73	2.500	0	2.500	0	63 2659	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
11-NA-22	73	2.500	0	2.500	0	72 3265	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
11-NA-23	73	2.500	0	2.500	0	53 2563	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
11-NA-23	73	2.500	0	2.500	0	54 2570	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
11-NA-23	73	2.500	0	2.500	0	55 2938	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
11-NA-23	73	2.500	0	2.500	0	63 2740	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 11-NA-23	73	2.530	0	2.530	0	66 3921	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
11-NA-23	73	2.000	0	2.000	0	50 363	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
12-MO-24	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 12-MO-24	73	2.530	0	2.530	0	67 3688	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 12-MO-24	73	2.530	0	2.530	0	70 3693	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
12-MO-25	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 12-MO-25	73	2.530	0	2.530	0	67 3688	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 12-MO-25	73	2.530	0	2.530	0	70 3693	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
12-MO-26	73	2.500	0	2.500	0	49 2742	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
12-MO-26	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 12-MO-26	73	2.530	0	2.530	0	67 3688	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
13-AL-27	73	2.500	0	2.500	0	49 2742	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
13-AL-27	73	2.500	0	2.500	0	56 2574	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 13-AL-27	73	5.500	3	4.500	1	75 4005	8 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
13-AL-27	73	2.000	0	2.000	0	58 363	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
14-SI-28	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 14-SI-28	73	3.000	2	4.500	1	75 4005	7 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
14-SI-29	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
14-SI-30	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
14-SI-30	73	2.500	0	2.500	0	66 1762	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
15-P -31	73	2.500	0	2.500	0	54 2580	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 15-P -31	73	2.530	0	2.530	0	73 3750	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
16-S -34	73	2.500	0	2.500	0	61 2945	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 16-S -34	73	2.530	0	2.530	0	73 3750	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
17-CL-35	73	2.530	0	2.530	0	67 3215	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
17-CL-36	73	2.500	0	2.500	0	69 2875	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
18-AR-40	73	2.500	0	2.500	0	53 2740	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
18-AR-40	73	2.500	0	2.500	0	65 1782	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
18-AR-40	73	2.500	0	2.500	0	69 2747	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
19-K -43	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
19-K -40	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N 19-K -40	73	2.530	0	2.530	0	71 3244	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
19-K -41	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
19-K -41	73	2.500	0	2.500	0	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-209 ***

C = 73

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

20-CA-1	73	2.500-0	2.500-0	71 1792	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-2	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-3	73	2.500-0	2.500-0	71 1792	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-4	73	2.500-0	2.500-0	67 3689	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-5	73	2.500-0	2.500-0	75 4005	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-6	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-7	73	2.500-0	2.500-0	71 1792	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-8	73	2.500-0	2.500-0	67 3689	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-9	73	2.500-0	2.500-0	71 1792	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-10	73	2.500-0	2.500-0	55 2938	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-11	73	2.500-0	2.500-0	67 3689	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-12	73	2.500-0	2.500-0	71 1792	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-13	73	2.500-0	2.500-0	67 3689	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-14	73	2.500-0	2.500-0	71 1792	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-15	73	2.500-0	2.500-0	55 2938	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-16	73	2.500-0	2.500-0	67 3689	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-17	73	2.500-0	2.500-0	71 1792	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-18	73	2.500-0	2.500-0	68 3336	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-19	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-20	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-21	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-22	73	2.500-0	2.500-0	49 2742	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-23	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-24	73	2.500-0	2.500-0	60 809	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-25	73	2.500-0	2.500-0	68 1864	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-26	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-27	73	2.500-0	2.500-0	75 4005	14	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-28	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-29	73	2.500-0	2.500-0	49 2742	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-30	73	2.500-0	2.500-0	53 2560	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-31	73	2.500-0	2.500-0	53 2705	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-32	73	2.500-0	2.500-0	62 1392	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-33	73	2.500-0	2.500-0	59 2098	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-34	73	2.500-0	2.500-0	53 3597	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-35	73	2.500-0	2.500-0	59 387	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-36	73	2.500-0	2.500-0	52 2938	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-37	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-38	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-39	73	2.500-0	2.500-0	55 2938	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-40	73	2.500-0	2.500-0	56 2574	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-41	73	2.500-0	2.500-0	67 1859	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-42	73	2.500-0	2.500-0	72 3566	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-43	73	2.500-0	2.500-0	63 2576	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-44	73	2.500-0	2.500-0	67 2577	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-45	73	2.500-0	2.500-0	66 1866	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-46	73	2.500-0	2.500-0	68 2479	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-47	73	2.500-0	2.500-0	69 2098	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-48	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-49	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
20-CA-50	73	2.500-0	2.500-0	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-210 ***

07/04/78

ECSL-7500 REACTION INDEX (REACTION NO. ORDERED)

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
28-NI-61	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
28-NI-62	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
28-NI-62	73	2.530	- 8	2.530	- 8	73 3750	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
28-NI-64	73	2.500	- 8	2.500	- 8	49 2742	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
28-NI-64	73	2.500	- 8	2.500	- 8	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
28-NI-65	73	2.500	- 8	2.500	- 8	69 2775	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-NAT	73	2.530	- 8	2.530	- 8	71 4005	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-63	73	2.500	- 8	2.500	- 8	49 2742	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-64	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-63	73	2.500	- 8	2.500	- 8	58 2705	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-63	73	2.500	- 8	2.500	- 8	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-63	73	1.000	+ 0	1.000	+ 0	68 3730	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-65	73	2.500	- 8	2.500	- 8	49 2742	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-65	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-65	73	2.000	+ 0	2.000	+ 0	58 363	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
30-ZN-64	73	2.500	- 8	2.500	- 8	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
30-ZN-64	73	2.500	- 8	2.500	- 8	67 2001	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
30-ZN-66	73	2.500	- 8	2.500	- 8	67 2393	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
30-ZN-67	73	2.500	- 8	2.500	- 8	67 2393	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
30-ZN-68	73	2.500	- 8	2.500	- 8	62 908	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
30-ZN-70	73	2.500	- 8	2.500	- 8	62 908	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
31-GA-69	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
31-GA-71	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-70	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-70	73	2.500	- 8	2.500	- 8	55 2938	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-72	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-73	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-74	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-74	73	2.500	- 8	2.500	- 8	55 2938	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-74	73	2.500	- 8	2.500	- 8	66 390	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-76	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-76	73	2.500	- 8	2.500	- 8	55 2938	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
33-AS-75	73	2.500	- 8	2.500	- 8	49 2742	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
33-AS-75	73	2.500	- 8	2.500	- 8	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-74	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-74	73	2.500	- 8	2.500	- 8	67 2001	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-74	73	2.500	- 8	2.500	- 8	67 3353	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-76	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-77	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-78	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-80	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-82	73	2.500	- 8	2.500	- 8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
35-BR-81	73	2.500	- 8	2.500	- 8	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
35-BR-81	73	2.500	- 8	2.500	- 8	65 2070	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
36-KR-76	73	2.500	- 8	2.500	- 8	68 2843	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
36-KR-80	73	2.500	- 8	2.500	- 8	50 2681	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
36-KR-80	73	2.500	- 8	2.500	- 8	50 2703	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
36-KR-80	73	2.500	- 8	2.500	- 8	63 1010	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
36-KR-85	73	2.500	- 8	2.500	- 8	72 3250	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
37-RB-NAT	73	2.500	- 8	2.500	- 8	55 2938	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
37-RB-85	73	2.500	- 8	2.500	- 8	67 2001	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
37-RB-88	73	2.500	- 8	2.500	- 8	58 1163	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-211 ***

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
37-RB-86	73	2.500-8	2.500-8	56 2851	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
38-SR-88	73	2.500-8	2.500-8	58 1163	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
38-SR-88	73	2.500-8	2.500-8	58 2851	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
38-SR-89	73	2.500-8	2.500-8	58 1163	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
38-SR-90	73	2.500+0	2.500+0	66 3366	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
39-Y-89	73	2.500-8	2.500-8	56 2058	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-90	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-90	73	3.750-3	1.250-1	75 4005	13	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-91	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-92	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-94	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-94	73	2.500-8	2.500-8	55 2938	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-94	73	2.500-8	2.500-8	60 909	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-94	73	2.530-0	2.530-8	73 3479	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-96	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-96	73	2.500-8	2.500-8	55 2938	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-96	73	2.500-8	2.530-8	73 3479	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-96	73	2.000+0	2.000+0	58 363	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
41-NB-93	73	2.500-8	2.500-8	67 2098	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
41-NB-93	73	2.500-8	2.500-8	61 2715	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
41-NB-94	73	2.500-8	2.500-8	53 2716	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
41-NB-94	73	2.500-8	2.500-8	69 2098	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-95	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-96	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-97	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-98	73	2.500-8	2.500-8	49 2742	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-98	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-98	73	2.500-8	2.500-8	53 2719	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-98	73	2.500-8	2.500-8	60 909	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-98	73	2.500-8	2.500-8	61 2717	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-98	73	2.500-8	2.500-8	67 2001	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-98	73	1.000+0	1.000+0	68 3730	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-100	73	2.500-8	2.500-8	49 2742	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-100	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-100	73	2.000+0	2.000+0	58 363	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
44-RU-96	73	2.500-8	2.500-8	58 431	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
44-RU-99	73	2.500-8	2.500-8	64 2724	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
44-RU-100	73	2.500-8	2.500-8	64 2724	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
44-RU-101	73	2.500-8	2.500-8	64 2724	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
44-RU-102	73	2.500-8	2.500-8	58 431	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
44-RU-104	73	2.500-8	2.500-8	64 2723	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
44-RU-105	73	2.500-8	2.500-8	60 2726	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
44-RU-106	73	2.500-8	2.500-8	65 2727	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
45-PH-105	73	2.500-8	2.500-8	64 2725	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
46-PD-106	73	2.500-8	2.500-8	64 2722	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
47-AG-107	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
47-AG-109	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
47-AG-109	73	2.000+0	2.000+0	58 363	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
48-CD-108	73	2.500-8	2.500-8	64 866	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
48-CD-114	73	8.300-1	8.300-1	73 3994	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
48-CD-116	73	8.300-1	8.300-1	73 3994	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
51-SB-121	73	2.500-8	2.500-8	52 342	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

97/04/76

ECSIL-7600 REACTION INC (REACTION NO. ORDERED)

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
51-SB-121	73	2.500	0	2.500	0	59 2655	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-123	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-124	73	2.500	0	2.500	0	57 2671	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-124	73	2.500	0	2.500	0	66 2389	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-120	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-122	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-123	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-124	73	2.500	0	2.500	0	49 2845	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-124	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-125	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-126	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-128	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TF-130	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-125	73	2.500	0	2.500	0	61 2676	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-125	73	2.500	0	2.500	0	64 2675	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-127	73	2.500	0	2.500	0	44 1459	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-127	73	2.500	0	2.500	0	49 2742	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-127	73	2.500	0	2.500	0	58 2674	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-127	73	2.500	0	2.500	0	65 2206	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-127	73	6.300	1	8.300	1	73 3994	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-129	73	2.500	0	2.500	0	56 2626	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-130	73	2.500	0	2.500	0	58 1163	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-131	73	2.500	0	2.500	0	49 2679	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-131	73	2.500	0	2.500	0	63 2678	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-124	73	2.500	0	2.500	0	58 2682	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-124	73	2.500	0	2.500	0	04 2210	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-124	73	2.500	0	2.500	0	68 2843	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-126	73	2.500	0	2.500	0	65 2211	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-126	73	2.500	0	2.500	0	65 2685	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-126	73	2.500	0	2.500	0	68 2843	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-134	73	2.500	0	2.500	0	63 1010	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-134	73	2.500	0	2.500	0	68 2843	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-135	73	2.740	0	2.740	0	73 3435	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-136	73	2.500	0	2.500	0	68 2843	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
55-CS-133	73	2.500	0	2.500	0	58 428	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
55-CS-133	73	2.500	0	2.500	0	58 1163	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
55-CS-133	73	2.500	0	2.500	0	61 2756	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
55-CS-133	73	2.530	0	2.530	0	72 3704	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
55-CS-134	73	2.500	0	2.500	0	58 428	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
55-CS-134	73	2.500	0	2.500	0	58 1163	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
55-CS-135	73	2.500	0	2.500	0	49 2948	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
55-CS-137	73	2.500	0	2.500	0	60 2949	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-132	73	2.500	0	2.500	0	47 2951	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-134	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-135	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-135	73	3.500	3	9.000	2	74 3849	15 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-136	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-137	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-138	73	2.500	0	2.500	0	49 2742	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-138	73	2.500	0	2.500	0	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-138	73	2.500	0	2.500	0	60 909	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-138	73	2.500	0	2.500	0	65 910	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-213 ***

C = 73

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION						
N	56-BA-139	73	3.750	3	8.500	2	75 4005	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	56-BA-140	73	2.500	8	2.500	8	58 1163	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	57-LA-139	73	2.500	8	2.500	8	60 909	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
N	57-LA-139	73	2.520	8	2.530	8	67 3494	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	57-LA-140	73	2.500	8	2.500	8	49 2629	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
N	57-LA-140	73	2.530	8	2.530	8	67 3494	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	58-CE-136	73	2.500	8	2.500	2	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	58-CE-138	73	2.500	8	2.500	8	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	58-CE-140	73	2.500	8	2.500	8	49 2629	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	58-CE-140	73	2.500	8	2.500	8	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	58-CE-142	73	2.500	8	2.500	8	49 2629	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	58-CE-142	73	2.500	8	2.500	8	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	58-CE-142	73	2.500	8	2.500	8	56 2625	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	58-CE-142	73	2.500	8	2.500	8	60 909	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	58-CE-143	73	2.500	8	2.500	8	56 2624	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	58-CE-144	73	2.500	8	2.500	8	62 2967	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	59-PR-141	73	2.500	8	2.500	8	60 909	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	59-PR-142	73	2.500	8	2.500	8	55 2628	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	59-PR-143	73	2.500	8	2.500	8	58 1163	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	60-ND-142	73	2.500	8	2.500	8	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	60-ND-143	73	2.500	8	2.500	8	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	60-ND-144	73	2.500	8	2.500	8	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	60-ND-145	73	2.500	8	2.500	8	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	60-ND-146	73	2.500	8	2.500	8	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	60-ND-148	73	2.500	8	2.500	8	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	60-ND-148	73	2.500	8	2.500	8	64 2224	2	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	60-ND-150	73	2.500	8	2.500	8	52 342	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	60-ND-150	73	2.500	8	2.500	8	59 2655	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	61-PH-146	73	2.500	8	2.500	8	67 2225	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
N	61-PH-147	73	2.530	8	2.530	8	70 3930	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	61-PH-148	73	2.500	8	2.500	8	62 2966	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	61-PH-148	73	2.500	8	2.500	8	66 2227	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	61-PH-148	73	2.500	8	2.500	8	65 2228	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	61-PH-148G	73	2.500	8	2.500	8	62 2966	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-144	73	2.500	8	2.500	8	56 2771	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-144	73	2.500	8	2.500	8	32 2969	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-145	73	2.500	8	2.500	8	62 2969	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-147	73	2.500	8	2.500	8	56 2771	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-147	73	2.500	8	2.500	8	66 2227	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-147	73	2.500	8	2.500	8	67 2231	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-148	73	2.500	8	2.500	8	68 3306	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-149	73	2.500	8	2.500	8	68 3306	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-150	73	2.500	8	2.500	8	56 2771	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-151	73	2.500	8	2.500	8	56 2771	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-152	73	2.500	8	2.500	8	56 2771	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
N	62-SM-152	73	8.300	1	8.300	1	73 3994	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-153	73	2.500	8	2.500	8	56 2771	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	62-SM-154	73	8.300	1	8.300	1	73 3994	1	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	63-EU-141	73	2.005	4	1.175	2	70 421	98	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	63-EU-151	73	2.005	4	1.175	2	70 421	98	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION
	63-EU-153	73	2.500	8	2.500	8	67 2240	2	N, GAMMA	SPECTRUM	AVERAGED	CROSS	SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

... 2-214 ...

C = 73

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	63-CU-155	73	2.530	0	2.530	0	70 3193
	64-GO-154	73	2.500	0	2.500	0	56 2771
	64-GO-154	73	2.500	0	2.500	0	65 2244
	64-GO-156	73	2.500	0	2.500	0	65 2247
	64-GO-156	73	2.500	0	2.500	0	66 2244
	64-GO-158	73	2.500	0	2.500	0	49 2964
	64-GO-158	73	2.500	0	2.500	0	60 309
	64-GO-160	73	2.500	0	2.500	0	56 2771
	66-DY-161	73	2.500	0	2.500	0	56 2771
	66-DY-162	73	2.500	0	2.500	0	56 2771
	66-DY-163	73	2.500	0	2.500	0	56 2771
	66-DY-164	73	2.500	0	2.500	0	47 2970
	67-HO-165	73	2.005	4	1.175	2	70 421
	68-CR-162	73	2.500	0	2.500	0	59 2984
	68-CR-162	73	2.500	0	2.500	0	70 3376
	68-CR-164	73	2.500	0	2.500	0	59 2984
	68-CR-164	73	2.500	0	2.500	0	70 3376
	68-CR-166	73	2.500	0	2.500	0	58 2979
	68-CR-167	73	2.500	0	2.500	0	53 2979
	68-CR-167	73	2.500	0	2.500	0	67 3452
N	68-CR-168	73	2.500	0	2.500	0	54 2980
	68-CR-168	73	2.500	0	2.500	0	70 3376
N	68-CR-168	73	2.530	0	2.530	0	67 3452
	68-CR-170	73	2.500	0	2.500	0	54 2980
	68-CR-170	73	2.500	0	2.500	0	70 3376
N	68-CR-170	73	2.530	0	2.530	0	67 3452
J	69-TM-169	73	2.500	0	2.500	0	70 3377
	69-TM-169	73	2.530	0	2.530	0	67 3452
N	69-TM-170	73	2.530	0	2.530	0	67 3452
N	69-TM-171	73	2.530	0	2.530	0	61 2116
	70-YB-168	73	2.500	0	2.500	0	68 2313
	70-YB-168	73	2.500	0	2.500	0	70 3377
	70-YB-170	73	2.500	0	2.500	0	65 2244
	70-YB-171	73	2.500	0	2.500	0	56 2771
	70-YB-171	73	2.500	0	2.500	0	66 2244
	70-YB-172	73	2.500	0	2.500	0	56 2771
	70-YB-172	73	2.500	0	2.500	0	66 2244
	70-YB-173	73	2.500	0	2.500	0	56 2771
	70-YB-174	73	2.500	0	2.500	0	66 2244
	70-YB-174	73	2.500	0	2.500	0	70 3377
	70-YB-176	73	2.500	0	2.500	0	56 2771
	70-YB-176	73	2.500	0	2.500	0	70 3377
	71-LU-NAT	73	2.530	0	2.530	0	64 895
	72-HF-174	73	2.500	0	2.500	0	52 342
	72-HF-176	73	2.500	0	2.500	0	52 342
	72-HF-177	73	2.500	0	2.500	0	52 342
	72-HF-178	73	2.500	0	2.500	0	52 342

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-215 ***

C = 73

ARCTIC CODE	S	E	E-H	HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION	SPECTRUM	AVERAGED	CROSS	SECTION
73-4F-173	73	2	500	0	2	500	0	52	342	1	N.GAMMA	SECTION
73-4F-182	73	2	500	0	2	500	0	55	342	1	N.GAMMA	SECTION
73-4F-183	73	2	500	0	2	500	0	60	267	1	N.GAMMA	SECTION
73-1A-181	73	2	500	0	2	500	0	7	2805	1	N.GAMMA	SECTION
73-1A-182	73	2	500	0	2	500	0	7	2805	1	N.GAMMA	SECTION
73-1A-183	73	2	500	0	2	500	0	55	2641	1	N.GAMMA	SECTION
73-1A-184	73	2	500	0	2	500	0	55	2642	1	N.GAMMA	SECTION
73-1A-185	73	2	500	0	2	500	0	55	2643	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	65	2658	1	N.GAMMA	SECTION
73-1A-187	73	2	500	0	2	500	0	65	2659	1	N.GAMMA	SECTION
73-1A-188	73	2	500	0	2	500	0	65	2656	1	N.GAMMA	SECTION
73-1A-189	73	2	500	0	2	500	0	52	342	1	N.GAMMA	SECTION
73-1A-184	73	2	500	0	2	500	0	65	2632	1	N.GAMMA	SECTION
73-1A-184	73	2	500	0	2	500	0	65	1985	1	N.GAMMA	SECTION
73-1A-184	73	2	500	0	2	500	0	49	2742	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	SECTION
73-1A-186	73	2	500	0	2	500	0	60	2632	1	N.GAMMA	

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
82-PB-206	73	2,500	-8	2,500	-8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
82-PB-206	73	2,500	-8	2,500	-8	63 2659	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
82-PB-207	73	2,500	-8	2,500	-8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
82-PB-207	73	2,500	-8	2,500	-8	63 2659	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
82-PB-208	73	2,500	-8	2,500	-8	49 2742	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
82-PB-208	73	2,000	+0	2,000	+0	58 363	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
83-B1-209	73	2,000	+0	2,000	+0	58 363	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
83-B1-210	73	2,500	-8	2,500	-8	62 2662	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
88-RA-226	73	2,500	-8	2,500	-8	50 1982	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
89-AC-227	73	2,500	-8	2,500	-8	56 1984	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
89-AC-227	73	2,500	-8	2,500	-8	59 1983	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
90-TH-236	73	2,500	-8	2,500	-8	48 251	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
90-TH-236	73	2,500	-8	2,500	-8	53 228	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
90-TH-232	73	2,500	-8	2,500	-8	44 1444	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
90-TH-232	73	2,500	-8	2,500	-8	44 1458	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
90-TH-232	73	2,500	-8	2,500	-8	52 342	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
90-TH-232	73	2,500	-8	2,500	-8	57 339	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
90-TH-233	73	2,500	-8	2,500	-8	48 1503	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
90-TH-233	73	2,500	-8	2,500	-8	60 333	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
90-TH-234	73	2,500	-8	2,500	-8	50 365	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-231	73	2,500	-8	2,500	-8	46 1174	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-231	73	2,500	-8	2,500	-8	52 334	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-231	73	2,500	-8	2,500	-8	52 1203	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-231	73	2,500	-8	2,500	-8	53 14	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-231	73	2,500	-8	2,500	-8	56 675	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-232	73	2,500	-8	2,500	-8	53 14	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-232	73	2,500	-8	2,500	-8	56 675	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-233	73	2,500	-8	2,500	-8	52 1202	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-233	73	2,500	-8	2,500	-8	53 1485	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-233	73	2,500	-8	2,500	-8	55 1404	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-233	73	2,500	-8	2,500	-8	56 10	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-233	73	2,500	-8	2,500	-8	64 1512	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-233	73	2,950	-8	2,950	-8	70 2109	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-232	73	2,500	-8	2,500	-8	53 1140	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-232	73	2,500	-8	2,500	-8	65 1189	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-233	73	2,500	-8	2,500	-8	55 1158	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-233	73	2,500	-8	2,500	-8	55 1414	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-233	73	2,500	-8	2,500	-8	63 1441	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-234	73	2,530	-8	2,530	-8	71 3922	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-235	73	2,500	-8	2,500	-8	46 1412	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-235	73	2,500	-8	2,500	-8	60 360	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-235	73	7,500	-5	9,975	-3	72 3252	184 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-235	73	1,500	-4	2,750	-2	65 1034	32 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-235	73	1,500	-4	1,500	-1	72 3263	28 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-236	73	2,500	-8	2,500	-8	50 1207	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-236	73	2,500	-8	2,500	-8	52 1178	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-236	73	2,500	-8	2,500	-8	55 968	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-236	73	2,500	-8	2,500	-8	56 1119	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-236	73	2,500	-8	2,500	-8	58 1185	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-236	73	2,500	-8	2,500	-8	58 1393	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-236	73	2,500	-8	2,500	-8	64 1392	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
92-U-236	73	2,500	-8	2,500	-8	63 1098	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

	TARGET	CODE	E E-MIN-MEV	E E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	92-U	-236	73	2 530- 0	2 530- 0	71 3922	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	2 500- 0	2 500- 0	44 1444	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-239	73	2 500- 0	2 500- 0	44 1458	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-236	73	2 500- 0	2 500- 0	52 1456	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	2 500- 0	2 500- 0	58 1185	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-236	73	1 500- 4	9 500- 2	72 3269	27 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	92-U	-238	73	1 500- 3	9 500- 2	71 3937	18 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	92-U	-238	73	1 000+ 0	1 000+ 0	68 3730	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-236	73	1 000+ 0	1 000+ 0	71 4063	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-238	73	2 000- 0	2 000- 0	58 363	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-242	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-243	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-244	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-245	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-246	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-247	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	92-U	-248	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	93-NP	-235	73	2 500- 0	2 500- 0	72 3267	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	93-NP	-237	73	2 500- 0	2 500- 0	69 2098	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-238	73	2 500- 0	2 500- 0	48 1179	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-238	73	2 500- 0	2 500- 0	57 386	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-238	73	2 500- 0	2 500- 0	57 1348	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-239	73	2 500- 0	2 500- 0	57 1186	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-239	73	2 500- 0	2 500- 0	66 1131	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	94-Pu	-239	73	1 500- 4	2 500- 2	69 1080	20 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-239	73	1 500- 4	2 530- 2	69 2358	17 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-239	73	1 500- 4	1 500- 1	72 3263	28 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-240	73	2 500- 0	2 500- 0	56 1135	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-240	73	2 500- 0	2 500- 0	57 1186	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-240	73	2 500- 0	2 500- 0	66 1131	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	94-Pu	-240	73	7 000- 3	2 700- 2	70 3112	11 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-241	73	2 500- 0	2 500- 0	55 1187	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-241	73	2 500- 0	2 500- 0	56 1135	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-241	73	2 500- 0	2 500- 0	66 1131	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-242	73	2 500- 0	2 500- 0	54 1141	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-242	73	2 500- 0	2 500- 0	57 1348	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-242	73	2 500- 0	2 500- 0	66 1977	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-242	73	2 500- 0	2 500- 0	70 3185	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	94-Pu	-242	73	7 000- 3	6 500- 2	74 3540	15 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-243	73	2 500- 0	2 500- 0	54 1141	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-243	73	2 500- 0	2 500- 0	55 1187	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-243	73	2 500- 0	2 500- 0	66 1977	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-243	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-244	73	2 500- 0	2 500- 0	55 1129	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-244	73	2 500- 0	2 500- 0	55 1187	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-244	73	2 500- 0	2 500- 0	56 1150	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-244	73	2 500- 0	2 500- 0	69 2904	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-245	73	2 500- 0	2 500- 0	55 1187	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-245	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-247	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-249	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	94-Pu	-251	73	2 000- 2	2 000- 2	68 2088	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET CODE 5 E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-218 ***

07/04/76

ECSIL-1600 RFACTION INDEX (REACTION NO. ORDERED)

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	95-AM-241	73	2,500-0	2,500-0	46 1174	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	95-AM-241	73	1,000+0	1,000+0	71 4073	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	95-AM-242	73	2,500-0	2,500-0	52 563	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	95-AM-243	73	2,500-0	2,500-0	54 1473	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	95-AM-243	73	2,500-0	2,500-0	57 1348	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	95-AM-243	73	2,500-0	2,500-0	67 2193	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	96-CM-244	73	2,500-0	2,500-0	66 1977	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	96-CM-245	73	2,500-0	2,500-0	66 1977	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	96-CM-247	73	2,500-0	2,500-0	55 1187	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	96-CM-247	73	2,500-0	2,500-0	66 1977	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	97-BK-249	73	2,500-0	2,500-0	51 1473	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	97-BK-249	73	2,500-0	2,500-0	54 1979	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	97-BK-249	73	2,500-0	2,500-0	66 1977	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	98-CF-249	73	2,500-0	2,500-0	54 1473	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	98-CF-250	73	2,500-0	2,500-0	66 1977	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	98-CF-251	73	2,500-0	2,500-0	54 1979	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	98-CF-251	73	2,500-0	2,500-0	66 1977	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	98-CF-252	73	2,500-0	2,500-0	54 1473	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	98-CF-252	73	2,500-0	2,500-0	54 1979	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	98-CF-252	73	2,500-0	2,500-0	70 3233	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	98-CF-253	73	5,400-7	5,400-7	70 2102	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	99-CS-253	73	2,500-0	2,500-0	54 1473	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	47-AQ-109	73	2,530-0	2,530-0	72 3704	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	11-NA-23	73	2,500-0	2,500-0	55 2827	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	11-NA-23	73	2,500-0	2,500-0	63 2581	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	17-CL-37	73	2,500-0	2,500-0	34 2876	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	31-GA-71	73	2,500-0	2,500-0	63 2581	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	32-OE-70	73	2,500-0	2,500-0	63 2581	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	32-OE-74	73	2,500-0	2,500-0	62 2696	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	32-UE-74	73	2,500-0	2,500-0	66 390	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	32-GE-76	73	2,500-0	2,500-0	55 2938	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	32-GI-76	73	2,500-0	2,500-0	57 390	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	32-OE-76	73	2,500-0	2,500-0	62 2696	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	34-SE-76	73	2,500-0	2,500-0	30 1808	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	34-SE-76	73	2,500-0	2,500-0	62 2696	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	34-SE-76	73	2,500-0	2,500-0	63 2581	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	34-SE-76	73	2,500-0	2,500-0	65 910	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	34-SE-76	73	2,500-0	2,500-0	68 2843	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	34-SE-76	73	2,500-0	2,500-0	68 2843	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	36-KR-78	73	2,500-0	2,500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	36-KR-80	73	2,500-0	2,500-0	66 2729	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	45-RH-103	73	2,500-0	2,500-0	69 1922	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	46-PD-106	73	2,500-0	2,500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	47-AG-109	73	2,500-0	2,500-0	57 2731	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	47-AG-109	73	2,500-0	2,500-0	63 2556	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	49-IN-113	73	2,500-0	2,500-0	48 2733	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	49-IN-113	73	2,500-0	2,500-0	63 2556	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	49-IN-115	73	2,500-0	2,500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	49-IN-115	73	2,500-0	2,500-0	56 2852	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	49-IN-115	73	2,500-0	2,500-0	60 2736	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	49-IN-115	73	2,500-0	2,500-0	62 2735	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	49-IN-115	73	2,500-0	2,500-0	63 2581	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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... 2-219 ...

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
49-IN-115	73	2	2.500-0	2.500-0	63 2734	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-115	73	2	2.500-0	2.500-0	65 2737	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-123	73	2	2.500-0	2.500-0	62 2669	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-XE-124	73	2	2.500-0	2.500-0	68 2843	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-XE-126	73	2	2.500-0	2.500-0	68 2843	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
58-CE-138	73	2	2.500-0	2.500-0	56 2954	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
58-CE-138	73	2	2.500-0	2.500-0	62 2953	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
66-DY-164	73	2	2.500-0	2.500-0	46 2982	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
66-DY-164	73	2	2.500-0	2.500-0	54 2981	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
66-DY-164	73	2	2.500-0	2.500-0	59 2655	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
68-ER-166	73	2	2.500-0	2.500-0	63 2581	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
70-YB-174	73	2	2.500-0	2.500-0	63 2581	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
78-PT-199	73	2	2.500-0	2.500-0	64 2645	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
95-AM-241	73	2	2.500-0	2.500-0	69 3026	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
17-CL-37	73	3	2.500-0	2.500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
17-CL-37	73	3	2.500-0	2.500-0	61 2935	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73	3	2.500-0	2.500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73	3	2.500-0	2.500-0	53 2554	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73	3	2.500-0	2.500-0	63 2556	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
30-ZN-68	73	3	2.500-0	2.500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
30-ZN-68	73	3	2.500-0	2.500-0	62 908	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
30-ZN-70	73	3	2.500-0	2.500-0	51 2697	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
30-ZN-70	73	3	2.500-0	2.500-0	62 908	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
31-GA-69	73	3	2.500-0	2.500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-74	73	3	2.500-0	2.500-0	60 909	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-78	73	3	2.500-0	2.500-0	60 1808	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-78	73	3	2.500-0	2.500-0	62 2696	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-78	73	3	2.500-0	2.500-0	65 910	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-80	73	3	2.500-0	2.500-0	57 2700	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
35-BP-79	73	3	2.500-0	2.500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
35-BP-79	73	3	4.500-0	4.500-0	73 3989	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
35-BP-81	73	3	2.500-0	2.500-0	65 2070	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
37-RB-85	73	3	2.500-0	2.500-0	60 1808	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
37-RB-85	73	3	2.500-0	2.500-0	63 2556	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
38-SR-84	73	3	2.500-0	2.500-0	60 1808	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
38-SR-84	73	3	2.500-0	2.500-0	65 910	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
41-NB-93	73	3	2.500-0	2.500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
45-RH-103	73	3	2.500-0	2.500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
46-PD-108	73	3	2.500-0	2.500-0	59 2655	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
46-PD-108	73	3	2.500-0	2.500-0	68 1962	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
47-AG-107	73	3	2.530-0	2.500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
48-CD-110	73	3	2.500-0	2.500-0	62 908	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
48-CD-110	73	3	2.500-0	2.500-0	65 910	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-115	73	3	2.500-0	2.500-0	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-115	73	3	2.500-0	2.500-0	57 339	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-115	73	3	2.500-0	2.500-0	57 2731	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-115	73	3	2.500-0	2.500-0	58 2705	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-115	73	3	2.500-0	2.500-0	62 2735	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-115	73	3	2.500-0	2.500-0	63 2734	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-115	73	3	8.300-1	8.300-1	73 3994	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-115	73	3	1.000-0	1.000-0	62 3702	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-115	73	3	4.500-0	4.500-0	73 3989	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION

*TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2720 ***

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 73

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	50-SN-112	73	3	2.500	0	2.500-0	61 2739	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-122	73	3	2.500	0	2.500-0	50 2740	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-122	73	3	2.500	0	2.500-0	53 2719	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-122	73	3	2.500	0	2.500-0	63 1961	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-122	73	3	2.500	0	2.500-0	68 1962	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-124	73	3	2.500	0	2.500-0	49 2741	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-124	73	3	2.500	0	2.500-0	50 2740	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-124	73	3	2.500	0	2.500-0	53 2719	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-124	73	3	2.500	0	2.500-0	63 1961	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-124	73	3	2.500	0	2.500-0	68 1962	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	51-SB-121	73	3	2.500	0	2.500-0	62 2668	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	51-SB-121	73	3	2.500	0	2.500-0	47 2670	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	51-SB-123	73	3	2.500	0	2.500-0	62 2669	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	52-TE-120	73	3	2.500	0	2.500-0	62 908	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	52-TE-130	73	3	2.500	0	2.500-0	62 908	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	52-TE-130	73	3	2.500	0	2.500-0	62 2656	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
N	53-I-127	73	3	4.500+	0	4.500+0	73 3989	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	53-I-129	73	3	2.500	0	2.500-0	66 2677	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	54-XE-134	73	3	2.500	0	2.500-0	68 2843	2 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	56-BA-130	73	3	2.500	0	2.500-0	68 1962	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	56-BA-136	73	3	2.500	0	2.500-0	60 1808	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	56-BA-136	73	3	2.500	0	2.500-0	65 910	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	63-CU-151	73	3	2.500	0	2.500-0	65 2241	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	64-GO-160	73	3	2.500	0	2.500-0	63 1961	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	66-DY-164	73	3	2.500	0	2.500-0	62 908	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	73-YA-181	73	3	2.500	0	2.500-0	61 2640	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	74-W-184	73	3	2.500	0	2.500-0	62 908	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	74-W-184	73	3	2.500	0	2.500-0	63 2644	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	75-RE-187	73	3	2.500	0	2.500-0	64 2647	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	76-OS-189	73	3	2.500	0	2.500-0	62 908	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	76-OS-189	73	3	2.500	0	2.500-0	64 2645	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
N	77-IR-191	73	3	2.500	0	2.500-0	63 2556	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	77-IR-191	73	3	2.500	0	2.500-0	64 2645	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	78-PT-196	73	3	2.500	0	2.500-0	62 908	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	79-PT-199	73	3	2.500	0	2.500-0	49 2742	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	91-PA-233	73	3	2.500	0	2.500-0	55 1484	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	91-PA-233	73	3	2.500	0	2.500-0	60 328	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	93-NP-236	73	3	2.500	0	2.500-0	56 168	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	95-AH-249	73	3	2.500	0	2.500-0	66 1977	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	11-NA-23	73	4	2.500	0	2.500-0	49 2742	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	30-ZN-68	73	4	2.500	0	2.500-0	49 2742	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	30-ZN-68	73	4	2.500	0	2.500-0	60 909	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	30-ZN-68	73	4	2.500	0	2.500-0	62 908	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	30-ZN-68	73	4	2.500	0	2.500-0	65 2709	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
N	30-ZN-70	73	4	2.500	0	2.500-0	61 2698	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	30-ZN-70	73	4	2.500	0	2.500-0	62 908	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	31-GA-71	73	4	2.500	0	2.500-0	60 909	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	32-GE-76	73	4	2.500	0	2.500-0	55 2938	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	32-GE-76	73	4	2.500	0	2.500-0	57 390	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	35-BR-79	73	4	2.500	0	2.500-0	49 2742	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
N	35-BR-79	73	4	4.500+	0	4.500+0	73 3989	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION
	35-BR-81	73	4	2.500	0	2.500-0	49 2742	1 N.GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-221 ***

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
35-BR-61	73	4	2.500-0	2.500-0	65 2071	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
36-KR-82	73	4	2.500-0	2.500-0	65 2072	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
36-KR-82	73	4	2.500-0	2.500-0	68 2843	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
36-KR-84	73	4	2.500-0	2.500-0	68 2843	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
38-SR-86	73	4	2.500-0	2.500-0	60 909	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
38-SR-106	73	4	2.500-0	2.500-0	60 1808	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
38-SR-106	73	4	2.500-0	2.500-0	65 910	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
39-Y-39	73	4	2.500-0	2.500-0	61 2855	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
43-TC-98	73	4	2.500-0	2.500-0	58 399	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
45-RH-105	73	4	2.500-0	2.500-0	63 2729	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
46-PD-108	73	4	2.500-0	2.500-0	58 2705	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
46-PD-108	73	4	2.500-0	2.500-0	59 2655	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
46-PD-108	73	4	2.500-0	2.500-0	60 909	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
46-PD-110	73	4	2.500-0	2.500-0	63 1961	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
48-CD-116	73	4	2.530-0	2.530-0	66 3720	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TC-126	73	4	2.500-0	2.500-0	62 908	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-129	73	4	2.500-0	2.500-0	58 1163	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-129	73	4	2.500-0	2.500-0	66 2677	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
55-CS-123	73	4	2.500-0	2.500-0	60 2627	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
55-CS-133	73	4	2.500-0	2.500-0	61 2947	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-132	73	4	2.500-0	2.500-0	60 1808	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-134	73	4	2.500-0	2.500-0	63 1961	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
58-CC-136	73	4	2.500-0	2.500-0	55 2952	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
63-EU-151	73	4	2.500-0	2.500-0	58 2976	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
63-EU-151	73	4	2.500-0	2.500-0	59 2975	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
63-EU-151	73	4	2.500-0	2.500-0	60 1808	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
63-EU-151	73	4	2.500-0	2.500-0	67 2240	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
63-EU-151	73	4	2.530-0	2.530-0	71 3695	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
64-OD-156	73	4	2.500-0	2.500-0	63 1961	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
66-DY-164	73	4	1.000+0	1.000+0	68 3730	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
68-ER-170	73	4	2.500-0	2.500-0	63 1961	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
71-LU-175	73	4	1.000+0	1.000+0	68 3730	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
72-HF-179	73	4	2.500-0	2.500-0	67 2277	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
75-RF-187	73	4	2.500-0	2.500-0	60 909	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
76-OS-190	73	4	2.500-0	2.500-0	63 1961	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
76-OS-190	73	4	2.500-0	2.500-0	64 2839	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-193	73	4	2.500-0	2.500-0	63 2556	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-193	73	4	2.500-0	2.500-0	64 2645	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
78-PT-196	73	4	2.500-0	2.500-0	64 2645	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
80-HG-196	73	4	2.500-0	2.500-0	59 2655	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
80-HG-196	73	4	2.500-0	2.500-0	60 2664	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
80-HG-196	73	4	2.500-0	2.500-0	63 1961	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
80-HG-196	73	4	2.500-0	2.500-0	64 2645	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
80-HG-196	73	4	2.500-0	2.500-0	68 1962	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-233	73	4	2.500-0	2.500-0	55 1484	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
91-PA-233	73	4	2.500-0	2.500-0	60 328	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
93-AP-239	73	4	2.500-0	2.500-0	56 168	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
95-AM-241	73	4	2.500-0	2.500-0	46 1174	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
95-AM-241	73	4	2.500-0	2.500-0	52 563	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
95-AM-241	73	4	2.500-0	2.500-0	59 825	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
95-AM-241	73	4	2.500-0	2.500-0	64 1494	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
95-AM-241	73	4	2.500-0	2.500-0	67 2193	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
95-AM-243	73	4	2.500-8	2.500-8	66 1977	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
95-AM-243	73	4	2.500-8	2.500-8	69 2098	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
99-E5-253	73	4	2.530-8	2.530-8	73 3522	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-70	73	5	2.500-8	2.500-8	50 909	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
37-RB-85	73	5	2.500-8	2.500-8	56 2702	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
37-RB-85	73	5	2.500-8	2.500-8	60 909	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
37-RB-85	73	5	2.500-8	2.500-8	63 2556	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
38-SR-84	73	5	2.500-8	2.500-8	56 2857	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
38-SR-84	73	5	2.500-8	2.500-8	60 1808	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
41-NB-34	73	5	2.500-8	2.500-8	61 2715	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
47-AG-109	73	5	2.500-8	2.500-8	56 2574	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
47-AG-109	73	5	2.500-8	2.500-8	60 909	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
47-AO-109	73	5	2.500-8	2.500-8	68 1964	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
48-CD-08	73	5	2.500-8	2.500-8	62 908	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-113	73	5	2.500-8	2.500-8	63 2556	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
50-SN-112	73	5	2.500-8	2.500-8	50 2740	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
50-SN-112	73	5	2.500-8	2.500-8	61 2739	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
50-SN-112	73	5	2.500-8	2.500-8	68 1962	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-NAT	73	5	2.500-8	2.500-8	68 2764	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-121	73	5	2.500-8	2.500-8	49 2742	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-121	73	5	2.500-8	2.500-8	60 909	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-121	73	5	2.500-8	2.500-8	32 2658	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-123	73	5	2.500-8	2.500-8	67 2200	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-123	73	5	2.500-8	2.500-8	68 1964	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-123	73	5	2.500-8	2.500-8	68 2764	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-120	73	5	2.500-8	2.500-8	61 2637	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-120	73	5	2.500-8	2.500-8	62 2656	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-130	73	5	2.500-8	2.500-8	62 2656	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-128	73	5	2.500-8	2.500-8	68 1962	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-128	73	5	2.500-8	2.500-8	68 2843	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-130	73	5	2.500-8	2.500-8	68 1962	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-130	73	5	2.500-8	2.500-8	68 2843	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-132	73	5	2.500-8	2.500-8	F2 1010	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-132	73	5	2.500-8	2.500-8	68 1962	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
54-XE-132	73	5	2.500-8	2.500-8	68 2843	3	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-130	73	5	2.500-8	2.500-8	60 909	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
56-BA-130	73	5	2.500-8	2.500-8	64 2645	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
58-CE-138	73	5	2.500-8	2.500-8	50 2455	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
58-CE-138	73	5	2.500-8	2.500-8	55 2994	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
58-CE-138	73	5	2.500-8	2.500-8	62 2953	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
61-PH-147	73	5	2.500-8	2.500-8	60 1441	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
61-PH-147	73	5	2.500-8	2.500-8	62 2956	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
61-PH-147	73	5	2.500-8	2.500-8	65 2227	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
61-PH-147	73	5	2.530-8	2.530-8	71 3183	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
66-DY-156	73	5	2.500-8	2.500-8	59 2655	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
71-LU-175	73	5	2.500-8	2.500-8	67 2272	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
73-TA-181	73	5	2.500-8	2.500-8	60 909	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
74-W-184	73	5	2.500-8	2.500-8	60 909	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
76-OS-190	73	5	2.500-8	2.500-8	63 1961	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IP-191	73	5	2.500-8	2.500-8	63 2556	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-191	73	5	2.500-8	2.500-8	68 1964	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
78-PT-192	73	5	2.500-8	2.500-8	62 2656	1	N, GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 73

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION	SPECTRUM	AVERAGED	CROSS	SECTION
78-P-132	73	5	2.500-	8	2.500-	6	53 1951	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
78-P-134	73	5	2.500-	8	2.500-	6	62 2656	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
79-AJ-197	73	5	4.500+	0	4.500+	0	73 3989	2	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
80-HA-202	73	5	2.500-	8	2.500-	6	68 1964	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
83-PI-269	73	5	2.500-	8	2.500-	6	49 2742	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
89-E5-281	73	5	2.500-	8	2.500-	6	73 3522	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
27-CO-59	73	6	2.500-	8	2.500-	6	49 2742	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
36-KR-84	73	6	2.500-	8	2.500-	6	51 2704	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
36-KR-84	73	6	2.500-	8	2.500-	6	51 2704	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
48-CO-106	73	6	2.500-	8	2.500-	6	64 864	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
48-CO-113	73	6	2.500-	8	2.500-	6	59 869	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
55-C5-133	73	6	2.500-	8	2.500-	6	60 909	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
55-C5-133	73	6	2.500-	8	2.500-	6	60 909	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
55-C5-133	73	6	2.500-	8	2.500-	6	68 1964	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
56-DA-132	73	6	2.500-	8	2.500-	6	56 6214	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
56-BA-132	73	6	2.500-	8	2.500-	6	63 6213	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
63-EU-151	73	6	2.500-	8	2.500-	6	67 6240	2	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
77-HD-185	73	6	2.500-	8	2.500-	6	68 2020	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
77-IR-191	73	6	2.500-	8	2.500-	6	63 6240	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
95-AA-241	73	6	2.500-	8	2.500-	6	52 563	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
95-AA-241	73	6	2.500-	8	2.500-	6	55 825	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
95-AA-241	73	6	2.500-	8	2.500-	6	55 825	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
1-H-1	73	7	2.500-	8	2.500-	6	67 6193	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
3-LI-NAT	73	7	2.500-	8	2.500-	6	70 2415	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
4-BE-9	73	7	2.500-	8	2.500-	6	70 2415	6	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
5-B-NAT	73	7	2.500-	8	2.500-	6	70 2415	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
6-C-NAT	73	7	2.500-	8	2.500-	6	70 2415	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
7-N-NAT	73	7	2.500-	8	2.500-	6	70 2415	1	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
9-F-19	73	7	2.500-	8	2.500-	6	70 2415	36	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
11-NA-23	73	7	2.500-	8	2.500-	6	70 2415	35	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
12-HO-NAT	73	7	2.500-	8	2.500-	6	70 2415	64	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
13-AL-21	73	7	2.500-	8	2.500-	6	70 2415	78	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
14-SI-NAT	73	7	2.500-	8	2.500-	6	70 2415	57	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
15-P-31	73	7	2.500-	8	2.500-	6	70 2415	53	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
15-P-31	73	7	2.500-	8	2.500-	6	70 2415	130	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
16-S-NAT	73	7	2.500-	8	2.500-	6	70 2415	18	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
17-C-NAT	73	7	2.500-	8	2.500-	6	70 2415	144	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
18-V-NAT	73	7	2.500-	8	2.500-	6	70 2415	169	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
20-CA-NAT	73	7	2.500-	8	2.500-	6	70 2415	193	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
21-SC-45	73	7	2.500-	8	2.500-	6	70 2415	24	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
22-V-NAT	73	7	2.500-	8	2.500-	6	70 2415	64	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
23-V-NAT	73	7	2.500-	8	2.500-	6	70 2415	109	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
24-CR-NAT	73	7	2.500-	8	2.500-	6	70 2415	53	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
25-MN-55	73	7	2.500-	8	2.500-	6	70 2415	109	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
26-Fe-NAT	73	7	2.500-	8	2.500-	6	70 2415	197	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
27-CO-59	73	7	2.500-	8	2.500-	6	70 2415	132	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
28-NI-58	73	7	2.500-	8	2.500-	6	70 2415	126	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
28-NI-58	73	7	2.500-	8	2.500-	6	71 3983	28	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
28-NI-60	73	7	2.500-	8	2.500-	6	71 3983	31	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
28-NI-62	73	7	2.500-	8	2.500-	6	71 3983	16	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
28-NI-64	73	7	2.500-	8	2.500-	6	71 3983	8	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION
29-CU-NAT	73	7	2.500-	8	2.500-	6	70 2415	130	N, GAMMA	SPECTRUM	AVERAGED CROSS SECTION

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

... 2-224 ...

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	29-CU-63	73	7	2.530-8	2.530-8	69 3992	66	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	29-CU-65	73	7	2.530-8	2.530-8	69 3992	53	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	30-ZN-NAT	73	7	2.530-8	2.530-8	70 2415	104	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	31-GA-NAT	73	7	2.530-8	2.530-8	70 2415	144	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
C	32-GE-NAT	73	7	2.530-8	2.530-8	70 2415	124	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	33-AS-75	73	7	2.530-8	2.530-8	70 2415	91	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	34-SE-NAT	73	7	2.530-8	2.530-8	70 2415	167	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	35-BR-NAT	73	7	2.530-8	2.530-8	70 2415	129	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	37-RB-NAT	73	7	2.530-8	2.530-8	70 2415	201	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	38-SP-NAT	73	7	2.530-8	2.530-8	70 2415	188	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	39-Y-89	73	7	2.530-8	2.530-8	70 2415	76	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	40-ZR-NAT	73	7	2.530-8	2.530-8	70 2415	94	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	41-NB-93	73	7	2.530-8	2.530-8	70 2415	165	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	42-MO-NAT	73	7	2.530-8	2.530-8	70 2415	154	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	44-RU-NAT	73	7	2.530-8	2.530-8	70 2415	87	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	45-RH-103	73	7	2.530-8	2.530-8	70 2415	89	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	46-PD-NAT	73	7	2.530-8	2.530-8	70 2415	111	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	47-AG-NAT	73	7	2.530-8	2.530-8	70 2415	87	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	48-CO-NAT	73	7	2.530-8	2.530-8	70 2415	181	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	49-IN-NAT	73	7	2.530-8	2.530-8	70 2415	158	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	50-SN-NAT	73	7	2.530-8	2.530-8	70 2415	231	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	51-SB-NAT	73	7	2.530-8	2.530-8	70 2415	82	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	52-TE-NAT	73	7	2.530-8	2.530-8	70 2415	122	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	53-I-127	73	7	2.530-8	2.530-8	70 2415	116	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	55-CS-133	73	7	2.530-8	2.530-8	70 2415	53	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	56-BA-NAT	73	7	2.530-8	2.530-8	70 2415	94	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	57-LA-NAT	73	7	2.530-8	2.530-8	70 2415	157	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	58-CE-NAT	73	7	2.530-8	2.530-8	70 2415	61	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	59-PR-141	73	7	2.530-8	2.530-8	70 2415	160	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	60-ND-NAT	73	7	2.530-8	2.530-8	70 2415	130	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	62-SM-NAT	73	7	2.530-8	2.530-8	70 2415	81	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	63-EU-NAT	73	7	2.530-8	2.530-8	70 2415	31	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	64-GD-NAT	73	7	2.530-8	2.530-8	70 2415	102	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	65-Tb-159	73	7	2.530-8	2.530-8	70 2415	119	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	66-DY-NAT	73	7	2.530-8	2.530-8	70 2415	169	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	67-HO-165	73	7	2.530-8	2.530-8	70 2415	83	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	68-ER-NAT	73	7	2.530-8	2.530-8	70 2415	91	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	69-TM-169	73	7	2.530-8	2.530-8	70 2415	93	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	70-YB-NAT	73	7	2.530-8	2.530-8	70 2415	179	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	71-LU-NAT	73	7	2.530-8	2.530-8	70 2415	71	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	72-HF-NAT	73	7	2.530-8	2.530-8	70 2415	122	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	73-TA-NAT	73	7	2.530-8	2.530-8	70 2415	89	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	74-W-NAT	73	7	2.530-8	2.530-8	70 2415	119	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	75-RE-185	73	7	2.530-8	2.530-8	70 2415	71	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	76-OS-NAT	73	7	2.530-8	2.530-8	70 2415	162	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	77-IR-NAT	73	7	2.530-8	2.530-8	70 2415	77	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	78-Pt-NAT	73	7	2.530-8	2.530-8	70 2415	190	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	79-AU-197	73	7	2.530-8	2.530-8	70 2415	123	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	80-HG-NAT	73	7	2.530-8	2.530-8	70 2415	84	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	81-TL-203	73	7	2.530-8	2.530-8	70 2415	103	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	82-PB-NAT	73	7	2.530-8	2.530-8	70 2415	2	N, GAMMA SPECTRUM AVERAGED CROSS SECTION
	83-BI-209	73	7	2.530-8	2.530-8	70 2415	3	N, GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	73 10	2.530-8	2.530-8	70 2415	20	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
27-CO-59	73 10	2.530-8	2.530-8	70 2415	24	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-ZN-NAT	73 10	2.530-9	2.530-8	70 2415	33	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
32-GE-NAT	73 10	2.530-8	2.530-8	70 2415	35	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
33-AS-75	73 10	2.530-8	2.530-8	70 2415	27	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
34-SE-NAT	73 10	2.530-8	2.530-8	70 2415	27	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
35-BR-NAT	73 10	2.530-8	2.530-8	70 2415	29	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
37-RB-NAT	73 10	2.530-8	2.530-8	70 2415	20	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
38-SR-NAT	73 10	2.530-8	2.530-8	70 2415	31	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	73 10	2.530-8	2.530-8	70 2415	28	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
41-NB-93	73 10	2.530-8	2.530-8	70 2415	26	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
42-MO-NAT	73 10	2.530-8	2.530-8	70 2415	43	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
44-RU-NAT	73 10	2.530-8	2.530-8	70 2415	33	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
45-RH-103	73 10	2.530-8	2.530-8	70 2415	24	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
46-PD-NAT	73 10	2.530-8	2.530-8	70 2415	31	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
47-AG-NAT	73 10	2.530-8	2.530-8	70 2415	26	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
48-CO-NAT	73 10	2.530-8	2.530-8	70 2415	33	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
49-IN-NAT	73 10	2.530-8	2.530-8	70 2415	23	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
50-SN-NAT	73 10	2.530-8	2.530-8	70 2415	32	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
51-SB-NAT	73 10	2.530-8	2.530-8	70 2415	25	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
52-TC-NAT	73 10	2.530-8	2.530-8	70 2415	33	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
53-I-127	73 10	2.530-8	2.530-8	70 2415	25	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
55-CS-133	73 10	2.530-8	2.530-8	70 2415	23	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
56-SA-NAT	73 10	2.530-8	2.530-8	70 2415	20	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
57-LA-NAT	73 10	2.530-8	2.530-8	70 2415	19	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
58-CE-NAT	73 10	2.530-8	2.530-8	70 2415	14	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
59-PR-141	73 10	2.530-8	2.530-8	70 2415	20	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
60-ND-NAT	73 10	2.530-8	2.530-8	70 2415	28	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
62-SM-NAT	73 10	2.530-8	2.530-8	70 2415	31	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
63-EU-NAT	73 10	2.530-8	2.530-8	70 2415	24	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
64-GD-NAT	73 10	2.530-8	2.530-8	70 2415	29	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
65-Tb-159	73 10	2.530-8	2.530-8	70 2415	25	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
66-DY-NAT	73 10	2.530-8	2.530-8	70 2415	26	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
67-HO-165	73 10	2.530-8	2.530-8	70 2415	22	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
68-ER-NAT	73 10	2.530-8	2.530-8	70 2415	28	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
69-TM-169	73 10	2.530-8	2.530-8	70 2415	24	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
70-LB-NAT	73 10	2.530-8	2.530-8	70 2415	29	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
71-LU-NAT	73 10	2.530-8	2.530-8	70 2415	25	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
72-HF-NAT	73 10	2.530-8	2.530-8	70 2415	25	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
73-TA-NAT	73 10	2.530-8	2.530-8	70 2415	26	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
74-W-NAT	73 10	2.530-8	2.530-8	70 2415	26	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
75-RE-185	73 10	2.530-8	2.530-8	70 2415	20	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
76-OS-NAT	73 10	2.530-8	2.530-8	70 2415	25	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
77-IR-NAT	73 10	2.530-8	2.530-8	70 2415	21	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
78-PT-NAT	73 10	2.530-8	2.530-8	70 2415	28	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
79-AU-197	73 10	2.530-8	2.530-8	70 2415	22	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
80-HG-NAT	73 10	2.530-8	2.530-8	70 2415	26	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
81-TL-203	73 10	2.530-8	2.530-8	70 2415	24	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
28-NI-64	73 61	2.530-8	2.530-8	71 3983	1	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
3-F-19	73 87	2.530-8	2.530-8	69 3690	80	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
12-MG-NAT	73 87	2.530-8	2.530-8	67 3688	11	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION
12-MG-24	73 87	2.530-8	2.530-8	67 3688	15	N, GAMMA	SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-226 ***

C = 73

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	12-MG-25	73	87	2.530-8	2.530-8	67 3688	67 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	12-MG-26	73	87	2.530-8	2.530-8	67 3688	8 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	12-MG-26	73	87	2.530-8	2.530-6	70 3693	54 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	13-AL-27	73	87	2.530-8	2.530-8	69 3691	96 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	14-SI-28	73	87	2.530-8	2.530-8	70 3692	20 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	14-SI-29	73	87	2.530-8	2.530-8	70 3692	8 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	14-SI-30	73	87	2.530-8	2.530-8	70 3692	3 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	16-S-32	73	87	2.530-8	2.530-8	66 3687	23 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	18-AR-NAT	73	87	2.530-8	2.530-8	70 3709	49 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	19-K-39	73	87	2.530-8	2.530-8	72 3696	222 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	19-K-41	73	87	2.530-8	2.530-8	72 3696	15 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	20-CA-NAT	73	87	2.530-8	2.530-8	67 3689	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	20-CA-40	73	87	2.530-8	2.530-8	67 3639	37 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	20-CA-42	73	87	2.530-8	2.530-8	67 3689	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	20-CA-43	73	87	2.530-8	2.530-8	67 3689	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	20-CA-44	73	87	2.530-8	2.530-8	67 3689	5 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	22-TI-50	73	87	2.530-8	2.530-8	71 3715	9 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	24-CR-50	73	87	2.530-8	2.530-8	72 3700	10 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	24-CR-52	73	87	2.530-8	2.530-8	72 3700	5 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	25-MN-55	73	87	2.530-8	2.530-8	67 3800	15 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	26-FE-54	73	87	2.530-8	2.530-8	71 3822	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	26-FE-54	73	87	2.530-8	2.530-8	72 3700	10 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	26-FE-56	73	87	2.530-8	2.530-8	71 3822	25 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	26-FE-57	73	87	2.530-8	2.530-8	71 3822	2 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	28-NI-60	73	87	2.530-8	2.530-8	71 3683	1 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	28-NI-60	73	87	2.530-8	2.530-8	72 3700	6 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	28-NI-62	73	87	2.530-8	2.530-8	72 3700	5 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	28-NI-64	73	87	2.530-8	2.530-8	71 3715	14 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	28-NI-64	73	87	2.530-8	2.530-8	71 3983	8 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	31-0A-69	73	87	2.530-8	2.530-8	70 3663	156 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	31-0A-71	73	87	2.530-8	2.530-8	70 3663	190 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	32-GE-NAT	73	87	2.530-8	2.530-8	67 3860	18 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	32-GE-72	73	87	2.530-8	2.530-8	72 3701	34 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	32-GE-74	73	87	2.530-8	2.530-8	72 3701	41 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	32-GE-76	73	87	2.530-8	2.530-8	72 3701	7 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	33-AS-75	73	87	2.530-8	2.530-8	68 3861	15 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	47-AG-107	73	87	2.530-8	2.530-8	68 3735	47 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	53-I-127	73	87	2.530-8	2.530-8	68 3862	13 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	59-PR-141	73	87	2.530-8	2.530-8	74 4004	10 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	62-SM-147	73	87	2.530-8	2.530-8	69 3706	8 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	62-SM-149	73	87	2.530-8	2.530-8	69 3706	23 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	62-SM-152	73	87	2.530-8	2.530-8	69 3706	30 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	68-ER-170	73	87	2.530-8	2.530-8	73 3998	74 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	70-YB-170	73	87	2.530-8	2.530-8	72 3699	73 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	70-YB-171	73	87	2.530-8	2.530-8	71 3712	76 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	70-YB-173	73	87	2.530-8	2.530-8	71 3712	94 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	70-YB-174	73	87	2.530-8	2.530-8	71 3714	126 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	70-YB-176	73	87	2.530-8	2.530-8	72 3698	70 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	72-HF-178	73	87	2.530-8	2.530-8	72 3698	86 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	72-HF-180	73	87	2.530-8	2.530-8	71 3711	137 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	73-TA-181	73	87	2.500-8	2.500-8	71 3211	172 N, GAMMA SPECTRUM AVERAGED CROSS SECTION
N	74-W-184	73	87	2.530-8	2.530-8	73 3998	87 N, GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 73

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 74-W-18E	73 87	2	530-	8	2.530- 8	73 3998	168 N. GAMMA SPECTRUM AVERAGED CROSS SECTION
N 77-IR-NAT	73 87	2	530-	8	2.530- 8	67 3860	11 N. GAMMA SPECTRUM AVERAGED CROSS SECTION
N 79-AU-198	73 87	2	530-	8	2.530- 8	72 3728	54 N. GAMMA SPECTRUM AVERAGED CROSS SECTION
73-TA-161	73 94	2	500-	8	2.500- 8	68 3213	70 N. GAMMA SPECTRUM AVERAGED CROSS SECTION
73-TA-181	73 94	2	500-	8	2.500- 8	69 3212	40 N. GAMMA SPECTRUM AVERAGED CROSS SECTION
1-H-1	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
3-LI-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
4-BE-9	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
6-C-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
7-N-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
9-F-19	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
11-NA-23	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
12-MG-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
13-AL-27	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
14-SI-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
15-P-31	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
16-S-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
17-CL-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
19-K-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
20-CA-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
21-SC-45	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
22-TI-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
23-V-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
24-CR-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
25-MN-55	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
26-FE-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
27-CO-59	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
28-NI-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
29-CU-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
30-ZN-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
31-GA-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
32-GE-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
33-AS-75	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
34-SE-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
35-BR-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
37-RB-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
38-SR-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
39-Y-89	74	2	540-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
40-ZR-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
41-NB-93	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
42-MD-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
44-RU-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
45-RH-103	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
46-PD-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
47-AG-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
48-CD-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
49-IN-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
50-SN-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
51-SB-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
52-TE-NAT	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
53-I-127	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION
55-CS-133	74	2	530-	8	2.530- 8	70 2415	1 N. X GAMMA SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-228 ***

C = 74

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
50-BA-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
57-LA-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
58-CE-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
59-Pb-141	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
60-ND-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
62-SM-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
63-EU-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
64-GD-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
65-Tb-159	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
66-DY-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
67-HO-165	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
68-ER-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
69-TM-169	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
70-YB-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
71-LU-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
72-HF-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
73-TA-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
74-W-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
75-RE-185	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
76-OS-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
77-IR-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
78-PT-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
79-AU-197	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
80-HG-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
81-TL-203	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
82-Pb-NAT	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
83-BI-209	74	2.530	- 0	2.530	- 0	70 2415	1 N, X GAMMA SPECTRUM AVERAGED CROSS SECTION
7-N-14	76	2.500	- 0	2.500	- 0	49 2796	1 N, P SPECTRUM AVERAGED CROSS SECTION
7-N-14	76	2.500	- 0	2.500	- 0	49 2821	1 N, P SPECTRUM AVERAGED CROSS SECTION
8-O-17	76	2.000	- 0	2.000	- 0	64 1918	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 12-MG-24	76	1.000	- 0	1.000	- 0	70 3809	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 12-MG-24	76	1.500	- 0	1.500	- 0	62 3981	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 12-MG-24	76	2.000	- 0	2.000	- 0	67 1895	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 12-MG-24	76	2.070	- 0	2.000	- 0	68 2990	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 13-AL-27	76	1.000	- 0	1.000	- 0	65 3872	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 13-AL-27	76	1.000	- 0	1.000	- 0	70 3809	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 13-AL-27	76	2.000	- 0	2.000	- 0	64 1711	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 13-AL-27	76	4.400	- 0	4.400	- 0	64 1741	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 14-SI-28	76	1.000	- 0	1.000	- 0	70 3724	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 14-SI-28	76	1.000	- 0	1.000	- 0	71 3762	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 14-SI-29	76	1.000	- 0	1.000	- 0	70 1724	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 14-SI-29	76	1.000	- 0	1.000	- 0	71 3762	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 14-SI-29	76	2.000	- 0	2.000	- 0	68 2990	1 N, P SPECTRUM AVERAGED CROSS SECTION
15-P-31	76	2.000	- 0	2.000	- 0	64 1711	1 N, P SPECTRUM AVERAGED CROSS SECTION
15-P-31	76	4.400	- 0	4.400	- 0	64 1741	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 16-S-32	76	1.000	- 0	1.000	- 0	62 3702	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 16-S-32	76	1.000	- 0	1.000	- 0	65 3671	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 16-S-32	76	2.000	- 0	2.000	- 0	64 1711	1 N, P SPECTRUM AVERAGED CROSS SECTION
N 16-S-32	76	4.400	- 0	4.400	- 0	64 1741	1 N, P SPECTRUM AVERAGED CROSS SECTION
16-S-33	76	2.500	- 0	2.500	- 0	52 2868	1 N, P SPECTRUM AVERAGED CROSS SECTION
16-S-33	76	2.500	- 0	2.500	- 0	56 2867	1 N, P SPECTRUM AVERAGED CROSS SECTION
16-S-33	76	2.000	- 0	2.000	- 0	65 1772	1 N, P SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

1. 255 REACTION USED REACTION, NO. ORDERED

*LABEL	CODE	S	E	MIN	MEV	E	MAX	MEV	REFERENCE	POINTS	REACT	DESCRIPTION	SECTION
16-S-34	76	2	000	0	2	000	0	66	1815	1	N,P	AVERAGED CROSS	SECTION
16-S-35	76	2	500	0	2	500	0	55	1824	1	N,P	AVERAGED CROSS	SECTION
17-C-75	76	5	500	0	2	500	0	54	1825	1	N,P	AVERAGED CROSS	SECTION
17-C-76	76	5	500	0	2	500	0	64	1832	1	N,P	AVERAGED CROSS	SECTION
17-C-77	76	5	500	0	2	500	0	68	1835	1	N,P	AVERAGED CROSS	SECTION
17-C-78	76	5	500	0	2	500	0	68	1836	1	N,P	AVERAGED CROSS	SECTION
17-C-79	76	5	500	0	2	500	0	65	1837	1	N,P	AVERAGED CROSS	SECTION
19-X-41	76	5	000	0	2	000	0	65	1815	1	N,P	AVERAGED CROSS	SECTION
19-X-42	76	5	000	0	2	000	0	65	1815	1	N,P	AVERAGED CROSS	SECTION
19-X-43	76	5	000	0	2	000	0	64	1773	1	N,P	AVERAGED CROSS	SECTION
19-X-44	76	5	000	0	2	000	0	64	1773	1	N,P	AVERAGED CROSS	SECTION
19-X-45	76	5	000	0	2	000	0	68	1890	1	N,P	AVERAGED CROSS	SECTION
19-X-46	76	5	000	0	2	000	0	71	1762	2	N,P	AVERAGED CROSS	SECTION
19-X-47	76	5	000	0	2	000	0	65	1773	1	N,P	AVERAGED CROSS	SECTION
19-X-48	76	5	000	0	2	000	0	68	1890	1	N,P	AVERAGED CROSS	SECTION
19-X-49	76	5	000	0	2	000	0	64	1711	1	N,P	AVERAGED CROSS	SECTION
19-X-50	76	5	000	0	2	000	0	65	1815	1	N,P	AVERAGED CROSS	SECTION
19-X-51	76	5	000	0	2	000	0	65	1815	1	N,P	AVERAGED CROSS	SECTION
20-CR-52	76	2	000	0	2	000	0	68	1815	1	N,P	AVERAGED CROSS	SECTION
20-CR-53	76	2	000	0	2	000	0	68	1815	1	N,P	AVERAGED CROSS	SECTION
20-CR-54	76	2	000	0	2	000	0	65	1815	1	N,P	AVERAGED CROSS	SECTION
20-CR-55	76	2	000	0	2	000	0	64	1711	1	N,P	AVERAGED CROSS	SECTION
26-FE-54	76	2	000	0	2	000	0	67	1895	1	N,P	AVERAGED CROSS	SECTION
26-FE-55	76	2	000	0	2	000	0	68	1890	1	N,P	AVERAGED CROSS	SECTION
26-FE-56	76	2	000	0	2	000	0	70	1382	1	N,P	AVERAGED CROSS	SECTION
26-FE-57	76	2	000	0	2	000	0	65	1672	1	N,P	AVERAGED CROSS	SECTION
26-FE-58	76	2	000	0	2	000	0	70	13805	1	N,P	AVERAGED CROSS	SECTION
26-FE-59	76	2	000	0	2	000	0	64	1711	1	N,P	AVERAGED CROSS	SECTION
26-FE-60	76	2	000	0	2	000	0	67	1895	1	N,P	AVERAGED CROSS	SECTION
26-FE-61	76	2	000	0	2	000	0	68	1890	1	N,P	AVERAGED CROSS	SECTION
26-FE-62	76	2	000	0	2	000	0	64	1741	1	N,P	AVERAGED CROSS	SECTION
27-CO-59	76	1	500	0	1	500	0	63	1980	1	N,P	AVERAGED CROSS	SECTION
27-CO-60	76	1	500	0	1	500	0	68	1990	1	N,P	AVERAGED CROSS	SECTION
28-NI-58	76	2	000	0	2	000	0	65	1671	1	N,P	AVERAGED CROSS	SECTION
28-NI-59	76	2	000	0	2	000	0	56	911	1	N,P	AVERAGED CROSS	SECTION
28-NI-60	76	2	000	0	2	000	0	67	1845	1	N,P	AVERAGED CROSS	SECTION
28-NI-61	76	2	000	0	2	000	0	62	2322	1	N,P	AVERAGED CROSS	SECTION
28-NI-62	76	2	000	0	2	000	0	67	1895	1	N,P	AVERAGED CROSS	SECTION
28-NI-63	76	2	000	0	2	000	0	67	1785	1	N,P	AVERAGED CROSS	SECTION
28-NI-64	76	2	000	0	2	000	0	72	3725	1	N,P	AVERAGED CROSS	SECTION
28-NI-65	76	2	000	0	2	000	0	56	911	1	N,P	AVERAGED CROSS	SECTION
28-NI-66	76	2	000	0	2	000	0	68	1890	1	N,P	AVERAGED CROSS	SECTION
28-NI-67	76	2	000	0	2	000	0	72	3725	1	N,P	AVERAGED CROSS	SECTION
28-NI-68	76	2	000	0	2	000	0	68	1890	1	N,P	AVERAGED CROSS	SECTION
28-NI-69	76	2	000	0	2	000	0	65	1672	1	N,P	AVERAGED CROSS	SECTION
30-ZN-64	76	1	000	0	1	000	0	70	13809	1	N,P	AVERAGED CROSS	SECTION

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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 76

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 30-ZN-64	76	1.000+	0	1.000+	0	71 3762	2 N,P SPECTRUM AVERAGED CROSS SECTION
30-ZN-64	76	2.000+	0	2.000+	0	64 1711	1 N,P SPECTRUM AVERAGED CROSS SECTION
30-ZN-64	76	2.000+	0	2.000+	0	66 1815	1 N,P SPECTRUM AVERAGED CROSS SECTION
30-ZN-64	76	2.000+	0	2.000+	0	66 2990	1 N,P SPECTRUM AVERAGED CROSS SECTION
30-ZN-66	76	2.000+	0	2.000+	0	66 1815	1 N,P SPECTRUM AVERAGED CROSS SECTION
30-ZN-66	76	2.000+	0	2.000+	0	68 2990	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 30-ZN-67	76	1.500+	0	1.500+	0	65 3978	1 N,P SPECTRUM AVERAGED CROSS SECTION
30-ZN-67	76	2.000+	0	2.000+	0	64 1711	1 N,P SPECTRUM AVERAGED CROSS SECTION
30-ZN-67	76	2.000+	0	2.000+	0	66 1815	1 N,P SPECTRUM AVERAGED CROSS SECTION
30-ZN-67	76	2.000+	0	2.000+	0	69 270C	1 N,P SPECTRUM AVERAGED CROSS SECTION
30-ZN-67	76	2.000+	0	2.000+	0	69 3023	1 N,P SPECTRUM AVERAGED CROSS SECTION
30-ZN-68	76	2.000+	0	2.000+	0	66 1815	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 34-SE-76	76	1.000+	0	1.000+	0	67 3721	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 34-SE-77	76	1.000+	0	1.000+	0	67 3721	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 42-MO-92	76	1.000+	0	1.000+	0	65 3672	1 N,P SPECTRUM AVERAGED CROSS SECTION
42-MO-92	76	2.000+	0	2.000+	0	64 1711	1 N,P SPECTRUM AVERAGED CROSS SECTION
42-MO-92	76	2.000+	0	2.000+	0	66 1815	1 N,P SPECTRUM AVERAGED CROSS SECTION
42-MO-92	76	2.000+	0	2.000+	0	67 1895	1 N,P SPECTRUM AVERAGED CROSS SECTION
42-MO-92	76	2.000+	0	2.000+	0	68 2990	1 N,P SPECTRUM AVERAGED CROSS SECTION
42-MO-95	76	2.000+	0	2.000+	0	66 1815	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 45-RH-103	76	1.000+	0	1.000+	0	67 3723	1 N,P SPECTRUM AVERAGED CROSS SECTION
56-BA-132	76	2.000+	0	2.000+	0	56 911	1 N,P SPECTRUM AVERAGED CROSS SECTION
56-BA-135	76	2.000+	0	2.000+	0	56 911	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 82-PB-204	76	1.000+	0	1.000+	0	65 3719	1 N,P SPECTRUM AVERAGED CROSS SECTION
19-K-40	76 1	2.500-	8	2.500-	8	68 1946	2 N,P SPECTRUM AVERAGED CROSS SECTION
N 13-AL-27	76 3	4.500+	0	4.500+	0	73 3989	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 14-SI-28	76 3	4.500+	0	4.500+	0	73 3939	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 28-NI-60	76 3	1.000+	0	1.000+	0	72 3725	1 N,P SPECTRUM AVERAGED CROSS SECTION
35-BR-81	76 3	2.000+	0	2.000+	0	67 3354	2 N,P SPECTRUM AVERAGED CROSS SECTION
48-CD-106	76 3	2.000+	0	2.000+	0	67 3354	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 12-MG-24	76 4	1.000+	0	1.000+	0	65 3671	1 N,P SPECTRUM AVERAGED CROSS SECTION
12-MG-24	76 4	2.000+	0	2.000+	0	64 1711	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 15-P-31	76 4	4.500+	0	4.500+	0	73 3989	2 N,P SPECTRUM AVERAGED CROSS SECTION
N 28-NI-58	76 4	1.000+	0	1.000+	0	65 3671	1 N,P SPECTRUM AVERAGED CROSS SECTION
28-NI-58	76 4	2.000+	0	2.000+	0	64 1711	1 N,P SPECTRUM AVERAGED CROSS SECTION
28-NI-58	76 4	2.000+	0	2.000+	0	67 1895	1 N,P SPECTRUM AVERAGED CROSS SECTION
31-GA-69	76 4	2.000+	0	2.000+	0	68 3013	1 N,P SPECTRUM AVERAGED CROSS SECTION
31-GA-69	76 4	2.000+	0	2.000+	0	69 3024	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 32-GE-72	76 4	2.530-	8	2.530-	8	66 3719	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 16-S-32	76 5	1.000+	0	1.000+	0	62 3681	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 22-TI-46	76 5	1.000+	0	1.000+	0	65 3671	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 22-TI-46	76 5	1.000+	0	1.000+	0	71 3762	2 N,P SPECTRUM AVERAGED CROSS SECTION
N 22-TI-46	76 5	1.500+	0	1.500+	0	65 3976	1 N,P SPECTRUM AVERAGED CROSS SECTION
22-TI-46	76 5	2.000+	0	2.000+	0	64 1711	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 22-TI-47	76 5	1.500+	0	1.500+	0	65 3976	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 22-TI-48	76 5	1.500+	0	1.500+	0	65 3976	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 28-NI-58	76 5	1.000+	0	1.000+	0	65 3671	1 N,P SPECTRUM AVERAGED CROSS SECTION
28-NI-58	76 5	2.000+	0	2.000+	0	64 1711	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 34-SE-74	76 5	1.000+	0	1.000+	0	67 3721	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 42-MO-92	76 5	1.000+	0	1.000+	0	71 3762	2 N,P SPECTRUM AVERAGED CROSS SECTION
N 42-MO-92	76 5	1.500+	0	1.500+	0	62 3984	1 N,P SPECTRUM AVERAGED CROSS SECTION
N 42-MO-95	76 5	1.500+	0	1.500+	0	62 3984	1 N,P SPECTRUM AVERAGED CROSS SECTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-231 ***

C = 76

07/04/75

ECSIL-7603 REACTION INDEX (REACTION NO. ORDERED)

C = 75

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	42-MO-95	76	5	2.000+ 0	2.300+ 0	64 1711	1 N,P SPECTRUM AVERAGED CROSS SECTION
N	42-MO-96	76	5	1.500+ 0	1.500+ 0	62 3984	1 N,P SPECTRUM AVERAGED CROSS SECTION
	8-O-18	78		2.000+ 0	2.000+ 0	64 1918	1 N,D SPECTRUM AVERAGED CROSS SECTION
	5-B-10	80		2.000+ 0	2.000+ 0	58 496	1 N,T SPECTRUM AVERAGED CROSS SECTION
	3-LI-0	84		2.300- 1	2.300- 1	65 1125	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	8-O-17	84		2.500- 8	2.500- 8	47 2927	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	13-AL-27	84		2.000+ 0	2.000+ 0	66 1815	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	13-AL-27	84		2.000+ 0	2.000+ 0	68 2990	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	14-SI-30	84		1.000+ 0	1.000+ 0	71 3752	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	16-S-32	84		2.500- 8	2.500- 8	56 2867	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	16-S-32	84		2.500- 8	2.500- 8	59 900	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	16-S-32	84		2.500- 8	2.500- 8	65 1767	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	16-S-33	84		2.500- 8	2.500- 8	58 900	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	16-S-33	84		2.500- 8	2.500- 8	65 1767	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	17-CL-35	84		1.500+ 0	1.500+ 0	65 3974	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	17-CL-35	84		2.000+ 0	2.000+ 0	69 3025	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	17-CL-36	84		2.000+ 0	2.000+ 0	69 3025	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	19-K-39	84		2.500- 8	2.500- 8	65 1767	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	19-K-40	84		2.500- 8	2.500- 8	68 1946	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	19-K-41	84		2.000+ 0	2.000+ 0	66 1815	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	19-K-41	84		2.000+ 0	2.000+ 0	68 3381	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	20-CA-40	84		2.500- 8	2.500- 8	58 900	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	20-CA-44	84		2.000+ 0	2.000+ 0	65 2034	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	23-V-51	84		1.000+ 0	1.000+ 0	71 3752	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	23-V-51	84		2.000+ 0	2.000+ 0	68 2990	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	26-FE-54	84		2.000+ 0	2.000+ 0	68 2990	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	27-CO-59	84		2.000+ 0	2.000+ 0	68 2990	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	28-NI-57	84		2.000+ 0	2.000+ 0	68 2597	3 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	28-NI-58	84		2.500- 8	2.500- 8	58 900	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	28-NI-59	84		2.500- 8	2.500- 8	72 3235	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	28-NI-61	84		2.500- 8	2.500- 8	58 900	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	29-CU-59	84		2.000+ 0	2.000+ 0	67 1895	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	29-CU-63	84		1.000+ 0	1.000+ 0	67 3785	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	29-CU-63	84		2.000+ 0	2.000+ 0	68 2990	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	30-ZN-68	84		2.000+ 0	2.000+ 0	66 1815	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	42-MO-98	84		2.000+ 0	2.000+ 0	66 1815	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	56-BA-138	84		2.000+ 0	2.000+ 0	65 2034	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	60-ND-143	84		2.500- 8	2.500- 8	62 2456	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	62-SM-149	84		2.500- 8	2.500- 8	65 2233	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	64-GO-155	84		2.500- 8	2.500- 8	69 2767	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	60-ND-143	84	1	2.530- 8	2.530- 8	74 3999	5 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	62-SM-147	84	1	2.500- 8	2.500- 8	62 2456	2 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	62-SM-149	84	1	2.500- 8	2.500- 8	62 2456	2 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	62-SM-149	84	1	2.500- 8	2.500- 8	62 2456	2 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	62-SM-149	84	1	2.500- 6	2.500- 8	67 2312	2 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	14-SI-30	84	3	1.500+ 0	1.500+ 0	85 3975	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	29-CU-63	84	3	1.500+ 0	1.500+ 0	85 3978	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	13-AL-27	84	4	1.000+ 0	1.000+ 0	82 3681	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	13-AL-27	84	4	1.000+ 0	1.000+ 0	82 3702	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
N	13-AL-27	84	4	1.000+ 0	1.000+ 0	65 3671	2 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	13-AL-27	84	4	2.000+ 0	2.000+ 0	64 1711	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION
	13-AL-27	84	4	4.400+ 0	4.400+ 0	64 1741	1 N,ALPHA SPECTRUM AVERAGED CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-232 ***

C = 84

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

L = 84

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION				
N	32-GE-72	84	4	2.530-8	2.530-8	66 3719	1	N, ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	32-GE-72	84	4	1.500+0	1.500+0	65 3976	1	N, ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	32-GE-74	84	4	1.500+0	1.500+0	65 3976	1	N, ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	41-NB-93	84	4	1.000+0	1.000+0	72 3726	2	N, ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	55-CS-133	84	4	2.000+0	2.000+0	67 3354	1	N, ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	29-CU-63	84	6	1.000+0	1.000+0	65 3672	1	N, ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	67-SM-159	84	7	2.530-8	2.530-8	72 3817	8	N, ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	22-TI-NAT	85		2.000+0	2.000+0	70 3383	1	N, X ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	24-CR-NAT	85		2.000+0	2.000+0	70 3383	1	N, X ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	26-FE-NAT	85		2.000+0	2.000+0	70 3383	1	N, X ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	28-NI-NAT	85		2.000+0	2.000+0	70 3383	1	N, X ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	29-CU-NAT	85		2.000+0	2.000+0	70 3383	1	N, X ALPHA	SPECTRUM	AVERAGED	CROSS SECTION
N	20-CA-42	86		2.000+0	2.000+0	62 3331	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	20-CA-43	86		2.000+0	2.000+0	62 3331	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	28-NI-NAT	86		2.500-8	2.500-8	59 1719	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	30-ZN-68	86		2.000+0	2.000+0	54 3348	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	58-CE-140	86		2.500-8	2.500-8	67 3350	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	58-CE-142	86		2.500-8	2.500-8	67 3350	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	60-ND-146	86		2.500-8	2.500-8	67 3350	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	60-ND-148	86		2.500-8	2.500-8	67 3350	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	60-ND-150	86		2.500-8	2.500-8	67 3350	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	65-TB-159	86		2.500-8	2.500-8	67 3350	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	34-SE-NAT	86	2	4.500+0	4.500+0	73 3989	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	47-AG-NAT	86	2	8.300+1	8.300+1	73 3991	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	48-CD-NAT	86	3	4.500+0	4.500+0	73 3989	2	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	56-BA-NAT	86	3	4.500+0	4.500+0	73 3989	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	80-HG-NAT	86	3	4.500+0	4.500+0	73 3989	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	38-SR-NAT	86	4	4.500+0	4.500+0	73 3989	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	56-BA-NAT	86	4	4.500+0	4.500+0	73 3989	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	71-LU-NAT	86	4	8.300+1	8.300+1	73 3991	1	ACTIVATION	SPECTRUM	AVERAGED	CROSS SECTION
N	2-HE-NAT	91		2.500-8	2.500-8	51 1608	1	BOUND ATOM	SPECTRUM	AVERAGED	CROSS SECTION
N	21-SC-45	91		2.500-8	2.500-8	55 1793	1	BOUND ATOM	SPECTRUM	AVERAGED	CROSS SECTION
N	10-NE-NAT	92		2.500-8	2.500-8	66 1691	1	FREE ATOM	SPECTRUM	AVERAGED	CROSS SECTION
N	10-NE-21	92		2.500-8	2.500-8	66 1691	1	FREE ATOM	SPECTRUM	AVERAGED	CROSS SECTION
N	10-NE-22	92		2.500-8	2.500-8	66 1691	1	FREE ATOM	SPECTRUM	AVERAGED	CROSS SECTION
N	18-AR-NAT	92		2.500-8	2.500-8	66 1691	1	FREE ATOM	SPECTRUM	AVERAGED	CROSS SECTION
N	18-AR-36	92		2.500-8	2.500-8	66 1691	1	FREE ATOM	SPECTRUM	AVERAGED	CROSS SECTION
N	18-AR-38	92		2.500-8	2.500-8	66 1691	1	FREE ATOM	SPECTRUM	AVERAGED	CROSS SECTION
N	21-SC-45	92		2.500-8	2.500-8	55 1793	1	FREE ATOM	SPECTRUM	AVERAGED	CROSS SECTION
N	36-KR-NAT	92		2.500-8	2.500-8	66 1691	1	FREE ATOM	SPECTRUM	AVERAGED	CROSS SECTION
N	54-XE-NAT	92		2.500+0	2.500+0	66 1691	1	FREE ATOM	SPECTRUM	AVERAGED	CROSS SECTION
N	39-Y-89	93		2.500-8	2.500-8	55 2115	1	COHERENT SCATTERING	SPECTRUM	AVERAGED	CROSS SECTION
N	90-TH-232	93		2.500-8	2.500-8	51 1397	1	COHERENT SCATTERING	SPECTRUM	AVERAGED	CROSS SECTION
N	92-U-NAT	93		2.500-8	2.500-8	51 1397	1	COHERENT SCATTERING	SPECTRUM	AVERAGED	CROSS SECTION
N	21-SC-45	94		2.500-8	2.500-8	55 1793	1	INCOHERENT SCATTER.	SPECTRUM	AVERAGED	CROSS SECTION
N	90-TH-232	96		3.500+0	3.500+0	58 1138	1	NU-BAR PROMPT	SPECTRUM	AVERAGED	CROSS SECTION
N	92-U-233	96		2.530-8	2.530-8	67 1417	1	NU-BAR PROMPT	SPECTRUM	AVERAGED	CROSS SECTION
N	92-U-233	96		1.400+0	1.670+0	58 1161	2	NU-BAR PROMPT	SPECTRUM	AVERAGED	CROSS SECTION
N	92-U-233	96		2.000+0	2.000+0	57 1120	1	NU-BAR PROMPT	SPECTRUM	AVERAGED	CROSS SECTION
N	92-U-235	96		2.530-8	2.530-8	67 1417	1	NU-BAR PROMPT	SPECTRUM	AVERAGED	CROSS SECTION
N	92-U-235	96		1.200+0	1.200+0	58 1198	1	NU-BAR PROMPT	SPECTRUM	AVERAGED	CROSS SECTION
N	92-U-235	96		2.000+0	2.000+0	57 1120	1	NU-BAR PROMPT	SPECTRUM	AVERAGED	CROSS SECTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-233 ***

C = 96

TARGET	CODE	S	E	H	M	N	E	M	A	X	M	E	V	REFERENCE	POINTS	REACTION DESCRIPTION
93-U-235	95	2,300	0	2,000	0	73	395							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
93-U-235	96	2,800	0	1,570	0	50	113							3	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
93-U-235	97	2,800	0	1,800	0	68	113							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
93-U-235	98	3,100	0	1,100	0	58	119							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
93-U-235	99	1,400	0	1,670	0	58	116							2	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
93-NP-237	95	2,000	0	2,500	0	61	112							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
93-NP-237	96	2,500	0	2,500	0	58	119							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
93-NP-237	97	2,500	0	2,530	0	67	147							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
93-NP-237	98	1,400	0	1,670	0	58	116							3	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
93-NP-237	99	2,000	0	2,000	0	57	1120							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
94-PU-239	95	1,400	0	1,670	0	58	116							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
94-PU-239	96	2,000	0	2,000	0	57	1120							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
94-PU-239	97	2,000	0	2,000	0	58	1145							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
94-PU-239	98	2,000	0	2,000	0	58	1145							2	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
94-PU-239	99	1,470	0	1,670	0	58	1161							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
94-PU-240	95	2,000	0	2,000	0	61	1216							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
94-PU-240	96	2,100	0	2,100	0	58	1217							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
94-PU-240	97	2,530	0	2,530	0	67	147							1	NU-BAR PROPT	SPECTRUM AVERAGED CROSS SECTION
94-PU-240	98	2,000	0	2,000	0	55	1427							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
94-PU-240	99	1,400	1	1,400	1	57	1066							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
90-TH-232	97	2,000	0	2,000	0	55	1427							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
92-U-233	97	2,000	0	2,000	0	55	1427							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
92-U-233	98	2,000	0	2,000	0	55	1427							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
92-U-233	99	2,000	0	2,000	0	55	1427							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
92-U-238	97	2,000	0	2,000	0	55	1427							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
92-U-238	98	2,000	0	2,000	0	55	1427							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
92-U-238	99	1,400	1	1,400	1	55	1424							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
94-PU-239	97	2,000	0	2,000	0	55	1427							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
94-PU-239	98	2,000	0	2,000	0	57	1066							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
94-PU-239	99	2,000	0	2,000	0	57	1066							1	NU-BAR DELAYED	SPECTRUM AVERAGED CROSS SECTION
92-U-NAT	97	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-233	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-233	99	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-233	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION
92-U-235	98	2,500	0	2,500	0	55	1317							1	ETA	SPECTRUM AVERAGED CROSS SECTION

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 99

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U	-235	99	2.500-8	2.500-8	55 1315	1	ALPHA SPECTRUM AVERAGED CROSS SECTION
92-U	-235	99	2.500-8	2.500-8	55 1382	1	ALPHA SPECTRUM AVERAGED CROSS SECTION
92-U	-235	99	2.500-8	2.500-8	58 1386	1	ALPHA SPECTRUM AVERAGED CROSS SECTION
92-U	-235	99	2.500-8	2.500-8	59 1452	1	ALPHA SPECTRUM AVERAGED CROSS SECTION
92-U	-235	99	2.500-8	2.500-8	60 360	1	ALPHA SPECTRUM AVERAGED CROSS SECTION
92-U	-235	99	2.500-8	2.500-8	66 1077	1	ALPHA SPECTRUM AVERAGED CROSS SECTION
92-U	-235	99	2.500-8	2.500-8	67 1442	1	ALPHA SPECTRUM AVERAGED CROSS SECTION
92-U	-235	99	2.500-8	2.500-8	67 1539	1	ALPHA SPECTRUM AVERAGED CROSS SECTION
92-U	-235	99	1.500-4	1.135-2	69 2358	15	ALPHA SPECTRUM AVERAGED CROSS SECTION
92-U	-235	99	1.500-4	2.750-2	65 1034	32	ALPHA SPECTRUM AVERAGED CROSS SECTION
92-U	-249	99	2.000-2	2.000-2	68 2088	3	ALPHA SPECTRUM AVERAGED CROSS SECTION
94-Pu-239	99		2.500-8	2.500-8	55 1315	1	ALPHA SPECTRUM AVERAGED CROSS SECTION
94-Pu-239	99		2.500-8	2.500-8	66 1131	1	ALPHA SPECTRUM AVERAGED CROSS SECTION
94-Pu-239	99		3.000-7	2.500-2	70 2106	58	ALPHA SPECTRUM AVERAGED CROSS SECTION
94-Pu-239	99		3.000-7	2.705-2	69 2358	33	ALPHA SPECTRUM AVERAGED CROSS SECTION
94-Pu-239	99		2.350-5	1.580-4	65 1229	4	ALPHA SPECTRUM AVERAGED CROSS SECTION
94-Pu-239	99		1.500-4	2.500-2	68 1080	20	ALPHA SPECTRUM AVERAGED CROSS SECTION
94-Pu-239	99		3.500-4	2.750-2	68 2107	20	ALPHA SPECTRUM AVERAGED CROSS SECTION
94-Pu-241	99		2.500-8	2.500-8	66 1131	1	ALPHA SPECTRUM AVERAGED CROSS SECTION
1-H	-1	102	3.100-0	3.100-0	50 205	3	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.370-1	2.840-1	53 1587	19	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.410-1	1.410-1	53 464	8	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.410-1	1.410-1	55 471	6	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.410-1	1.410-1	60 584	4	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.410-1	1.410-1	70 3056	8	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.420-1	1.420-1	67 1576	15	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.440-1	1.440-1	67 2080	11	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.458-1	1.458-1	61 1911	25	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.790-1	1.790-1	55 482	11	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	2.250-1	2.250-1	62 1567	12	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	2.250-1	1.200-2	63 1563	294	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	2.400-1	2.400-1	59 2879	4	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	2.400-1	2.720-1	73 3347	9	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	2.403-1	2.403-1	72 3346	2	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	2.720-1	2.720-1	51 1585	6	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	4.200-1	9.000-1	49 1568	32	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	5.000-1	5.000-1	73 3456	20	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	6.000-1	6.000-1	70 3885	10	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	9.000-1	9.000-1	50 1595	8	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	9.000-1	9.000-1	51 1583	9	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	9.000-1	9.000-1	51 1589	4	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	9.000-1	9.000-1	57 1579	18	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	9.100-1	9.100-1	54 1569	25	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	9.300-1	9.300-1	53 1588	6	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	9.600-1	1.370-2	58 1578	16	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.050-2	1.370-2	55 1592	14	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.280-2	1.280-2	60 1580	10	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.290-2	1.500-2	66 1581	31	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.300-2	1.300-2	55 1577	14	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.520-2	1.520-2	71 3177	13	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.560-2	1.560-2	52 1593	19	ELASTIC ANGULAR DISTRIBUTION
1-H	-1	102	1.720-2	2.150-2	52 1586	20	ELASTIC ANGULAR DISTRIBUTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-235 ***

C = 102

ECSL-1600 REACTION INDEX (REACTION NO. ORDERED)

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 1-H -1	102	1	1.820	2	1.028	3	373 ELASTIC
N 1-H -1	102	2	2.000	2	2.000	2	21 ELASTIC
N 1-H -1	102	3	2.600	2	2.600	2	15 ELASTIC
N 1-H -1	102	4	2.800	2	2.800	2	17 ELASTIC
N 1-H -1	102	5	3.000	2	3.000	2	17 ELASTIC
N 1-H -1	102	6	3.200	2	3.200	2	24 ELASTIC
N 1-H -1	102	7	3.400	2	3.400	2	23 ELASTIC
N 1-H -1	102	8	3.600	2	3.600	2	15 ELASTIC
N 1-H -1	102	9	3.800	2	3.800	2	4 ELASTIC
N 1-H -1	102	10	4.000	2	4.000	2	30 ELASTIC
N 1-H -1	102	11	4.200	2	4.200	2	73 ELASTIC
N 1-H -1	102	12	4.400	2	4.400	2	105 ELASTIC
N 1-H -1	102	13	4.600	2	4.600	2	89 ELASTIC
N 1-H -1	102	14	4.800	2	4.800	2	17 ELASTIC
N 1-H -1	102	15	5.000	2	5.000	2	12 ELASTIC
N 1-H -1	102	16	5.200	2	5.200	2	13 ELASTIC
N 1-H -1	102	17	5.400	2	5.400	2	102 ELASTIC
N 1-H -1	102	18	5.600	2	5.600	2	56 ELASTIC
N 1-H -1	102	19	5.800	2	5.800	2	26 ELASTIC
N 1-H -1	102	20	6.000	2	6.000	2	8 ELASTIC
N 1-H -1	102	21	6.200	2	6.200	2	22 ELASTIC
N 1-H -1	102	22	6.400	2	6.400	2	19 ELASTIC
N 1-H -1	102	23	6.600	2	6.600	2	11 ELASTIC
N 1-H -1	102	24	6.800	2	6.800	2	6 ELASTIC
 
N 1-H -1	102	76	17.200	2	17.200	2	52 ELASTIC
N 1-H -1	102	77	17.400	2	17.400	2	52 ELASTIC
N 1-H -1	102	78	17.600	2	17.600	2	52 ELASTIC
N 1-H -1	102	79	17.800	2	17.800	2	52 ELASTIC
N 1-H -1	102	80	18.000	2	18.000	2	52 ELASTIC
N 1-H -1	102	81	18.200	2	18.200	2	52 ELASTIC
N 1-H -1	102	82	18.400	2	18.400	2	52 ELASTIC
N 1-H -1	102	83	18.600	2	18.600	2	52 ELASTIC
N 1-H -1	102	84	18.800	2	18.800	2	52 ELASTIC
N 1-H -1	102	85	19.000	2	19.000	2	52 ELASTIC
N 1-H -1	102	86	19.200	2	19.200	2	52 ELASTIC
N 1-H -1	102	87	19.400	2	19.400	2	52 ELASTIC
N 1-H -1	102	88	19.600	2	19.600	2	52 ELASTIC
N 1-H -1	102	89	19.800	2	19.800	2	52 ELASTIC
N 1-H -1	102	90	20.000	2	20.000	2	52 ELASTIC
N 1-H -1	102	91	20.200	2	20.200	2	52 ELASTIC
N 1-H -1	102	92	20.400	2	20.400	2	52 ELASTIC
N 1-H -1	102	93	20.600	2	20.600	2	52 ELASTIC
N 1-H -1	102	94	20.800	2	20.800	2	52 ELASTIC
N 1-H -1	102	95	21.000	2	21.000	2	52 ELASTIC
N 1-H -1	102	96	21.200	2	21.200	2	52 ELASTIC
N 1-H -1	102	97	21.400	2	21.400	2	52 ELASTIC
N 1-H -1	102	98	21.600	2	21.600	2	52 ELASTIC
N 1-H -1	102	99	21.800	2	21.800	2	52 ELASTIC
N 1-H -1	102	100	22.000	2	22.000	2	52 ELASTIC

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

** 2-235 ***

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION	DESCRIPTION
2-HE-3	102		1.440+	1.440+	66 1613	1	ELASTIC	ANGULAR DISTRIBUTION
2-HE-3	102		1.440+	1.440+	67 1614	8	ELASTIC	ANGULAR DISTRIBUTION
2-HE-4	102		1.760+	1.370+	71 3271	43	ELASTIC	ANGULAR DISTRIBUTION
3-LI-NAT 107			2.600+	2.600+	94 1625	8	ELASTIC	ANGULAR DISTRIBUTION
3-LI-NAT 106			3.089-	4.689-	63 748	166	ELASTIC	ANGULAR DISTRIBUTION
3-LI-NAT 105			1.450+	4.210+	59 579	16	ELASTIC	ANGULAR DISTRIBUTION
3-LI-NAT 104			4.370+	4.370+	71 1022	5	ELASTIC	ANGULAR DISTRIBUTION
3-LI-NAT 103			9.600+	9.600+	1 60 1045	6	ELASTIC	ANGULAR DISTRIBUTION
3-LI-NAT 102			1.360+	2.360+	56 1047	5	ELASTIC	ANGULAR DISTRIBUTION
3-LI-6	102		4.900-	2.250+	60 571	264	ELASTIC	ANGULAR DISTRIBUTION
3-LI-6	102		2.100-	1.3000-	1 56 484	24	ELASTIC	ANGULAR DISTRIBUTION
3-LI-6	102		1.000+	2.300+	67 1899	266	ELASTIC	ANGULAR DISTRIBUTION
3-LI-6	102		3.350+	0 0	63 841	41	ELASTIC	ANGULAR DISTRIBUTION
3-LI-6	102		4.830+	0 0	68 1632	20	ELASTIC	ANGULAR DISTRIBUTION
3-LI-6	102		1.400+	1 1	62 1622	14	ELASTIC	ANGULAR DISTRIBUTION
3-LI-6	102		1.400+	1 1	65 1627	16	ELASTIC	ANGULAR DISTRIBUTION
3-LI-6	102		1.410+	1 1	64 1633	17	ELASTIC	ANGULAR DISTRIBUTION
3-LI-6	102		1.410+	1 1	71 3734	16	ELASTIC	ANGULAR DISTRIBUTION
3-LI-7	102		2.000-	2.250+	60 571	272	ELASTIC	ANGULAR DISTRIBUTION
3-LI-7	102		1.000+	1 6.000+	1 56 484	21	ELASTIC	ANGULAR DISTRIBUTION
3-LI-7	102		1.500+	0 0	63 841	52	ELASTIC	ANGULAR DISTRIBUTION
3-LI-7	102		4.830+	0 0	68 1632	12	ELASTIC	ANGULAR DISTRIBUTION
3-LI-7	102		1.400+	1 1	62 1622	1	ELASTIC	ANGULAR DISTRIBUTION
3-LI-7	102		1.400+	1 1	66 1640	20	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		3.000-	2 2.250+	57 231	100	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		5.000-	2 2.250+	60 571	240	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		2.000-	1 9.000+	1 64 1647	150	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		5.400-	1 7.000-	1 56 121	27	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		5.460-	1 8.950-	1 56 231	190	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		7.300-	1 2.920+	60 568	90	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		2.480+	3.460+	60 1645	91	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		3.000+	7.000+	61 1646	109	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		4.000+	0 0	64 1643	17	ELASTIC	ANGULAR DISTRIBUTION
4-BE-5	102		4.100+	0 0	55 296	11	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		4.100+	0 0	59 500	30	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		7.000+	0 0	56 151	7	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		7.550+	0 0	73 3614	6	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		1.400+	1 1	58 402	21	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		1.400+	1 1	66 2585	18	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		1.400+	1 1	68 3106	25	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		1.410+	1 1	71 3737	17	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		1.450+	1 1	71 3731	10	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		9.600+	1 9.400+	1 60 1045	5	ELASTIC	ANGULAR DISTRIBUTION
4-BE-9	102		1.360+	2 1.360+	56 1047	5	ELASTIC	ANGULAR DISTRIBUTION
5-9-NAT 102			6.000-	2 7.300-	1 56 231	45	ELASTIC	ANGULAR DISTRIBUTION
5-9-NAT 102			4.300-	1 1.500+	0 55 121	84	ELASTIC	ANGULAR DISTRIBUTION
5-9-NAT 102			4.370+	0 0	71 1022	5	ELASTIC	ANGULAR DISTRIBUTION
5-9-NAT 102			1.400+	1 1	62 1060	14	ELASTIC	ANGULAR DISTRIBUTION
5-9-NAT 102			1.400+	1 1	66 1647	14	ELASTIC	ANGULAR DISTRIBUTION
5-8-NAT 102			5.500-	1 1	55 121	315	ELASTIC	ANGULAR DISTRIBUTION
5-8-NAT 102			4.391+	0 0	73 3509	20	ELASTIC	ANGULAR DISTRIBUTION
5-8-NAT 102			2.032+	0 0	70 3794	70	ELASTIC	ANGULAR DISTRIBUTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
5-B	-10 102	N	2.630*	0	73 34+2	8	ELASTIC
5-B	-10 102	N	4.370*	0	71 4022	4	ELASTIC
5-B	-10 102	N	9.720*	0	70 3938	9	ELASTIC
5-B	-11 102	N	2.630*	0	70 3123	387	ELASTIC
5-B	-11 102	N	2.032*	0	70 3794	70	ELASTIC
5-B	-11 102	N	2.193*	0	73 3510	315	ELASTIC
5-B	-11 102	N	2.450*	0	69 2999	11	ELASTIC
5-B	-11 102	N	9.720*	0	70 3938	16	ELASTIC
5-B	-11 102	N	1.410*	1	71 3736	16	ELASTIC
5-B	-11 102	N	2.250*	0	60 571	432	ELASTIC
5-B	-11 102	N	5.000*	1	64 885	8	ELASTIC
5-B	-11 102	N	5.000*	1	69 3523	243	ELASTIC
5-B	-11 102	N	5.000*	1	70 3206	427	ELASTIC
5-B	-11 102	N	5.500*	1	55 121	25	ELASTIC
5-B	-11 102	N	7.070*	1	61 1652	107	ELASTIC
5-B	-11 102	N	1.450*	1	74 100*	20	ELASTIC
5-B	-11 102	N	1.650*	1	56 146	652	ELASTIC
5-B	-11 102	N	1.800*	0	75 3574	61	ELASTIC
5-B	-11 102	N	2.330*	0	67 2583	8	ELASTIC
5-B	-11 102	N	2.400*	0	63 550*	54	ELASTIC
5-B	-11 102	N	2.630*	0	73 3847	9	ELASTIC
5-B	-11 102	N	2.720*	0	55 479	56	ELASTIC
5-B	-11 102	N	2.850*	0	59 818	474	ELASTIC
5-B	-11 102	N	3.030*	0	68 2693	32	ELASTIC
5-B	-11 102	N	4.000*	0	64 1643	17	ELASTIC
5-B	-11 102	N	4.100*	0	71 3214	35	ELASTIC
5-B	-11 102	N	4.210*	0	55 296	11	ELASTIC
5-B	-11 102	N	4.400*	0	55 1033	1	ELASTIC
5-B	-11 102	N	4.600*	0	69 3004	265	ELASTIC
5-B	-11 102	N	5.000*	0	58 398	18	ELASTIC
5-B	-11 102	N	5.050*	0	70 2989	21	ELASTIC
5-B	-11 102	N	5.600*	0	60 575	9	ELASTIC
5-B	-11 102	N	6.000*	0	62 1043	12	ELASTIC
5-B	-11 102	N	6.000*	0	59 544	30	ELASTIC
5-B	-11 102	N	6.040*	0	65 889	14	ELASTIC
5-B	-11 102	N	7.000*	0	56 151	106	ELASTIC
5-B	-11 102	N	7.200*	0	73 3583	24	ELASTIC
5-B	-11 102	N	7.400*	0	73 3488	13	ELASTIC
5-B	-11 102	N	7.450*	0	71 3247	6	ELASTIC
5-B	-11 102	N	7.550*	0	73 3614	8	ELASTIC
5-B	-11 102	N	7.550*	0	71 3257	12	ELASTIC
5-B	-11 102	N	7.600*	0	69 2011	1	ELASTIC
5-B	-11 102	N	9.200*	0	71 4041	20	ELASTIC
5-B	-11 102	N	1.400*	1	58 402	13	ELASTIC
5-B	-11 102	N	1.400*	1	61 1046	12	ELASTIC
5-B	-11 102	N	1.400*	1	62 1050	19	ELASTIC
5-B	-11 102	N	1.400*	1	64 1661	18	ELASTIC
5-B	-11 102	N	1.400*	1	66 1659	11	ELASTIC
5-B	-11 102	N	1.410*	1	58 556	10	ELASTIC
5-B	-11 102	N	1.410*	1	59 560	27	ELASTIC
5-B	-11 102	N	1.410*	1	64 845		

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TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	8-0-16 102	3 350	0	3 900	0	64 513	36 ELASTIC
N	8-0-16 102	5 050	0	6 250	0	74 354	28 ELASTIC
N	8-0-16 102	1 410	1	1 410	1	66 168	11 ELASTIC
N	8-0-16 102	1 480	1	1 480	1	67 365	15 ELASTIC
N	8-0-16 102	5 000	2	1 100	1	58 325	26 ELASTIC
N	9-F-19 102	5 650	1	1 000	0	61 1052	10 ELASTIC
N	9-F-19 102	6 500	1	2 920	0	58 322	40 ELASTIC
N	9-F-19 102	1 410	1	1 410	1	68 2692	13 ELASTIC
N	10-NE-NAT 102	8 250	1	1 760	0	59 271	221 ELASTIC
N	10-NE-NAT 102	2 110	0	3 490	0	57 220	107 ELASTIC
N	10-NE-NAT 102	1 890	0	2 050	0	58 220	65 ELASTIC
N	11-NA-23 102	5 200	2	9 000	2	58 325	20 ELASTIC
N	11-NA-23 102	6 000	2	3 900	1	56 231	25 ELASTIC
N	11-NA-23 102	3 000	1	3 000	1	63 1699	8 ELASTIC
N	11-NA-23 102	5 000	1	8 000	1	64 686	16 ELASTIC
N	11-NA-23 102	9 800	1	9 800	1	63 679	9 ELASTIC
N	11-NA-23 102	4 370	0	4 370	0	62 714	42 ELASTIC
N	11-NA-23 102	5 000	0	5 000	0	71 4022	15 ELASTIC
N	11-NA-23 102	5 440	0	6 550	0	71 3793	94 ELASTIC
N	11-NA-23 102	1 470	1	1 470	1	65 367	25 ELASTIC
N	12-HG-NAT 102	3 000	2	4 700	1	65 325	18 ELASTIC
N	12-HG-NAT 102	3 000	1	3 000	1	63 1699	8 ELASTIC
N	12-HG-NAT 102	5 000	1	8 000	1	64 686	16 ELASTIC
N	12-HG-NAT 102	5 910	1	9 300	1	66 1706	26 ELASTIC
N	12-HG-NAT 102	1 890	0	4 760	0	62 691	40 ELASTIC
N	12-HG-NAT 102	2 000	0	5 000	0	58 565	40 ELASTIC
N	12-HG-NAT 102	5 440	0	8 580	0	70 3229	95 ELASTIC
N	12-HG-NAT 102	7 500	0	7 500	0	68 2011	13 ELASTIC
N	12-HG-NAT 102	1 400	1	1 400	1	65 97	11 ELASTIC
N	12-HG-NAT 102	1 410	1	1 410	1	59 475	14 ELASTIC
N	12-HG-NAT 102	1 460	1	1 460	1	64 845	13 ELASTIC
N	12-HG-NAT 102	1 470	1	1 470	1	58 1036	21 ELASTIC
N	12-HG-NAT 102	1 500	1	1 500	1	68 2996	18 ELASTIC
N	12-HG-NAT 102	2 860	0	2 860	0	70 4057	10 ELASTIC
N	12-HG-NAT 102	8 000	0	6 000	0	68 2749	8 ELASTIC
N	13-AL-27 102	7 000	2	1 140	1	58 325	26 ELASTIC
N	13-AL-27 102	1 300	1	8 000	1	56 231	40 ELASTIC
N	13-AL-27 102	2 200	1	2 200	1	60 596	5 ELASTIC
N	13-AL-27 102	3 000	1	3 000	1	63 1699	8 ELASTIC
N	13-AL-27 102	5 000	1	8 000	1	64 686	16 ELASTIC
N	13-AL-27 102	6 000	1	6 000	1	56 2031	15 ELASTIC
N	13-AL-27 102	6 500	1	5 000	1	63 1750	8 ELASTIC
N	13-AL-27 102	9 800	1	9 800	1	57 411	5 ELASTIC
N	13-AL-27 102	9 800	1	9 800	1	63 679	7 ELASTIC
N	13-AL-27 102	9 800	1	9 800	1	62 1012	39 ELASTIC
N	13-AL-27 102	1 950	0	1 500	0	68 2996	10 ELASTIC
N	13-AL-27 102	1 950	0	1 950	0	64 1743	10 ELASTIC
N	13-AL-27 102	2 400	0	2 400	0	52 1742	1 ELASTIC
N	13-AL-27 102	2 470	0	8 050	0	69 2850	135 ELASTIC

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-2-0 ***

07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

C - 102

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
6-C	-NAT	102	1.410*	1.410*	1 65 1639	13	ELASTIC
6-C	-NAT	102	1.410*	1.410*	1 66 1556	8	ELASTIC
6-C	-NAT	102	1.420*	1.420*	1 66 1658	10	ELASTIC
6-C	-NAT	102	1.460*	1.460*	1 63 1665	15	ELASTIC
6-C	-NAT	102	1.470*	1.470*	1 64 1660	15	ELASTIC
6-C	-NAT	102	1.470*	1.470*	1 69 3708	54	ELASTIC
6-C	-NAT	102	1.476*	1.476*	1 65 3697	6	ELASTIC
6-C	-NAT	102	1.480*	1.480*	1 57 367	16	ELASTIC
6-C	-NAT	102	1.500*	1.500*	1 69 3694	12	ELASTIC
6-C	-NAT	102	1.530*	1.530*	1 65 950	148	ELASTIC
6-C	-NAT	102	2.840*	2.840*	1 61 233	1	ELASTIC
6-C	-NAT	102	1.360*	1.360*	1 58 1047	13	ELASTIC
6-C	-NAT	102	3.515*	3.515*	2 58 1935	9	ELASTIC
6-C	-12	102	1.400*	1.400*	1 66 1848	16	ELASTIC
6-C	-12	102	1.410*	1.410*	1 66 3732	13	ELASTIC
6-C	-12	102	1.430*	1.430*	1 71 3731	16	ELASTIC
7-N	-NAT	102	1.320*	1.320*	0 62 3009	323	ELASTIC
7-N	-NAT	102	1.595*	1.595*	0 62 3009	289	ELASTIC
7-N	-NAT	102	1.580*	1.580*	1 61 1846	89	ELASTIC
7-N	-NAT	102	7.000*	7.000*	0 61 1843	16	ELASTIC
7-N	-NAT	102	7.400*	7.400*	0 73 3468	24	ELASTIC
7-N	-NAT	102	7.550*	7.550*	0 71 3257	8	ELASTIC
7-N	-NAT	102	1.400*	1.400*	1 61 1046	13	ELASTIC
7-N	-NAT	102	1.400*	1.400*	1 63 761	21	ELASTIC
7-N	-NAT	102	1.400*	1.400*	1 66 1669	22	ELASTIC
7-N	-NAT	102	1.360*	1.360*	2 56 1047	5	ELASTIC
7-N	-14	102	4.340*	4.340*	0 74 3447	136	ELASTIC
7-N	-14	102	6.250*	6.250*	0 74 3541	22	ELASTIC
7-N	-14	102	6.780*	6.780*	1 66 952	109	ELASTIC
7-N	-14	102	1.410*	1.410*	1 65 1674	1	ELASTIC
7-N	-14	102	1.480*	1.480*	1 71 3739	17	ELASTIC
7-N	-14	102	1.480*	1.480*	1 67 3661	22	ELASTIC
7-N	-14	102	1.940*	1.940*	0 52 248	457	ELASTIC
8-0	-NAT	102	1.260*	1.260*	0 60 571	696	ELASTIC
8-0	-NAT	102	4.100*	4.100*	1 55 123	18	ELASTIC
8-0	-NAT	102	7.300*	7.300*	0 58 489	60	ELASTIC
8-0	-NAT	102	9.000*	9.000*	1 62 901	5	ELASTIC
8-0	-NAT	102	1.510*	1.510*	0 62 1677	35	ELASTIC
8-0	-NAT	102	1.833*	1.833*	0 70 3087	48	ELASTIC
8-0	-NAT	102	2.000*	2.000*	0 62 1678	429	ELASTIC
8-0	-NAT	102	3.000*	3.000*	0 61 1846	109	ELASTIC
8-0	-NAT	102	3.588*	3.588*	0 62 3006	167	ELASTIC
8-0	-NAT	102	4.580*	4.580*	0 62 3222	138	ELASTIC
8-0	-NAT	102	4.580*	4.580*	1 58 589	64	ELASTIC
8-0	-NAT	102	5.000*	5.000*	0 58 589	20	ELASTIC
8-0	-NAT	102	7.400*	7.400*	0 73 3688	8	ELASTIC
8-0	-NAT	102	7.550*	7.550*	0 71 3257	8	ELASTIC
8-0	-NAT	102	1.400*	1.400*	1 63 761	20	ELASTIC
8-0	-NAT	102	1.400*	1.400*	1 67 1679	22	ELASTIC
8-0	-NAT	102	1.410*	1.410*	1 53 289	19	ELASTIC
8-0	-NAT	102	1.360*	1.360*	2 56 1047	5	ELASTIC

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C - 102

07/04/76

ECSIL-1800 REACTION INDEX : REACTION NO. ORDERED)

C = 102

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION	DESCRIPTION
N	8-O-16	102	3.350*	0	3.900-0	54	513	ANGULAR DISTRIBUTION
N	8-O-16	102	3.050*	0	3.250-0	74	154	ANGULAR DISTRIBUTION
N	8-O-16	102	1.410*	1	1.410-1	55	168	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	1	1.460-1	56	169	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	2	1.460-2	57	170	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	3	1.460-3	58	171	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	4	1.460-4	59	172	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	5	1.460-5	60	173	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	6	1.460-6	61	174	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	7	1.460-7	62	175	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	8	1.460-8	63	176	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	9	1.460-9	64	177	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	10	1.460-10	65	178	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	11	1.460-11	66	179	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	12	1.460-12	67	180	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	13	1.460-13	68	181	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	14	1.460-14	69	182	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	15	1.460-15	70	183	ANGULAR DISTRIBUTION
 
N	8-O-16	102	1.460*	60	1.460-60	115	228	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	61	1.460-61	116	229	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	62	1.460-62	117	230	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	63	1.460-63	118	231	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	64	1.460-64	119	232	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	65	1.460-65	120	233	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	66	1.460-66	121	234	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	67	1.460-67	122	235	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	68	1.460-68	123	236	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	69	1.460-69	124	237	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	70	1.460-70	125	238	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	71	1.460-71	126	239	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	72	1.460-72	127	240	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	73	1.460-73	128	241	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	74	1.460-74	129	242	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	75	1.460-75	130	243	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	76	1.460-76	131	244	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	77	1.460-77	132	245	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	78	1.460-78	133	246	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	79	1.460-79	134	247	ANGULAR DISTRIBUTION
N	8-O-16	102	1.460*	80	1.460-80	135	248	ANGULAR DISTRIBUTION

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C = 102

07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

TARGET	CODE	S	E	R	MIN-MEV	E	MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	102	2	500+	0	7,000+	0	56	151	12	ELASTIC
	102	2	720+	0	2,720+	0	55	479	22	ELASTIC
	102	2	760+	0	2,760+	0	63	620	4	ELASTIC
	102	3	100+	0	3,100+	0	61	846	10	ELASTIC
	102	3	200+	0	3,200+	0	66	2950	13	ELASTIC
	102	3	500+	0	4,000+	0	61	1751	42	ELASTIC
	102	3	720+	0	3,720+	0	53	297	11	ELASTIC
	102	4	100+	0	4,100+	0	56	486	52	ELASTIC
	102	4	400+	0	4,400+	0	59	3777	88	ELASTIC
	102	4	710+	0	4,030+	0	58	398	13	ELASTIC
	102	5	000+	0	5,000+	0	72	3230	6	ELASTIC
	102	7	000+	0	7,000+	0	63	636	1	ELASTIC
13-AL-27	102	7	000+	0	7,550+	0	73	3614	6	ELASTIC
	102	7	600+	0	7,600+	0	68	2011	27	ELASTIC
	102	7	970+	0	9,050+	0	72	3982	27	ELASTIC
	102	8	000+	0	8,000+	0	68	2749	13	ELASTIC
	102	8	970+	0	8,970+	0	73	3595	17	ELASTIC
	102	9	200+	0	9,200+	0	61	4941	16	ELASTIC
	102	1	400+	1	1,400+	1	59	567	9	ELASTIC
	102	1	400+	1	1,400+	1	58	403	13	ELASTIC
	102	1	410+	1	1,410+	1	59	557	3	ELASTIC
	102	1	410+	1	1,410+	1	59	556	1	ELASTIC
	102	1	410+	1	1,410+	1	60	577	3	ELASTIC
	102	1	420+	1	1,420+	1	65	1744	7	ELASTIC
13-AL-27	102	1	460+	1	1,460+	1	59	566	15	ELASTIC
	102	1	470+	1	1,470+	1	59	1036	30	ELASTIC
	102	1	480+	1	1,480+	1	57	367	18	ELASTIC
	102	1	480+	1	1,480+	1	73	3547	8	ELASTIC
	102	2	400+	1	2,400+	1	62	1746	28	ELASTIC
	102	8	400+	1	8,400+	1	60	1045	11	ELASTIC
	102	1	360+	2	1,360+	2	56	1847	13	ELASTIC
	102	3	000+	2	3,000+	2	58	1655	9	ELASTIC
	102	3	515+	2	3,515+	2	58	398	13	ELASTIC
	102	5	000+	0	5,000+	0	60	571	488	ELASTIC
	102	3	000+	2	1,810+	0	64	2338	24	ELASTIC
	102	6	340+	1	1,181+	0	66	1755	5	ELASTIC
14-SI-NAT	102	9	000+	1	9,000+	1	62	901	10	ELASTIC
	102	1	300+	0	1,300+	0	68	2996	64	ELASTIC
	102	1	360+	0	1,360+	0	64	1743	103	ELASTIC
	102	2	320+	0	2,320+	0	66	1526	11	ELASTIC
	102	3	100+	0	3,100+	0	66	846	11	ELASTIC
	102	3	200+	0	3,200+	0	66	2990	12	ELASTIC
	102	3	500+	0	4,000+	0	61	1751	41	ELASTIC
	102	4	000+	0	7,500+	0	67	2591	152	ELASTIC
	102	4	000+	0	7,500+	0	69	2662	24	ELASTIC
	102	4	810+	0	8,030+	0	69	3777	52	ELASTIC
	102	5	100+	0	6,100+	0	65	1750	16	ELASTIC
	102	5	100+	0	6,100+	0	65	1750	16	ELASTIC

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
Al	1	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	2	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	3	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	4	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	5	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	6	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	7	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	8	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	9	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	10	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	11	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	12	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	13	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	14	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	15	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	16	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	17	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	18	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	19	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	20	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	21	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	22	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	23	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	24	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	25	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	26	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	27	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	28	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	29	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	30	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	31	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	32	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	33	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	34	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	35	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	36	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	37	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	38	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	39	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	40	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	41	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	42	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	43	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	44	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	45	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	46	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	47	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	48	1	0.000	0.000	1	1	Al-27(p,n)Si-28
Al	49	1	0.000	0.000	1	1	Al-27(p,n)Si-28

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[illegible]

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TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
20-CA-NAT	102	3	660+	0	62 637	21	ELASTIC
20-CA-NAT	102	4	100+	0	60 576	16	ELASTIC
20-CA-NAT	102	4	190+	0	70 3192	75	ELASTIC
20-CA-NAT	102	4	400+	0	55 1033	1	ELASTIC
20-CA-NAT	102	4	400+	0	55 486	1	ELASTIC
20-CA-NAT	102	5	090+	0	69 2890	59	ELASTIC
20-CA-NAT	102	1	400+	0	66 1648	20	ELASTIC
20-CA-NAT	102	1	460+	0	60 631	21	ELASTIC
20-CA-NAT	102	1	460+	0	68 3072	4104	ELASTIC
20-CA-NAT	102	5	502+	0	67 1925	6	ELASTIC
20-CA-NAT	102	2	760+	0	67 1925	14	ELASTIC
20-CA-NAT	102	1	410+	0	64 2015	16	ELASTIC
20-CA-NAT	102	3	000+	0	66 2339	3	ELASTIC
20-CA-NAT	102	5	500+	0	55 1495	3	ELASTIC
20-CA-NAT	102	5	500+	0	56 231	60	ELASTIC
20-CA-NAT	102	5	800+	0	71 3946	131	ELASTIC
20-CA-NAT	102	8	943+	0	72 3546	8	ELASTIC
20-CA-NAT	102	1	000+	0	54 103	9	ELASTIC
20-CA-NAT	102	1	000+	0	54 1032	5	ELASTIC
20-CA-NAT	102	2	260+	0	56 476	20	ELASTIC
20-CA-NAT	102	3	200+	0	66 2950	13	ELASTIC
20-CA-NAT	102	3	440+	0	61 2323	5	ELASTIC
20-CA-NAT	102	4	070+	0	73 3448	105	ELASTIC
20-CA-NAT	102	4	100+	0	55 296	11	ELASTIC
20-CA-NAT	102	1	400+	0	59 567	18	ELASTIC
20-CA-NAT	102	1	400+	0	72 3406	12	ELASTIC
20-CA-NAT	102	3	000+	0	58 325	52	ELASTIC
20-CA-NAT	102	6	000+	0	72 3546	25	ELASTIC
20-CA-NAT	102	8	966+	0	72 3546	8	ELASTIC
20-CA-NAT	102	9	366+	0	69 2890	166	ELASTIC
20-CA-NAT	102	3	200+	0	66 2950	13	ELASTIC
20-CA-NAT	102	5	400+	0	72 3546	97	ELASTIC
20-CA-NAT	102	7	400+	0	73 3546	130	ELASTIC
20-CA-NAT	102	5	500+	0	73 3546	13	ELASTIC
20-CA-NAT	102	2	350+	0	69 1809	13	ELASTIC
20-CA-NAT	102	3	000+	0	58 325	50	ELASTIC
20-CA-NAT	102	6	000+	0	56 231	24	ELASTIC
20-CA-NAT	102	3	000+	0	64 2339	210	ELASTIC
20-CA-NAT	102	3	500+	0	67 3057	280	ELASTIC
20-CA-NAT	102	5	000+	0	72 3546	8	ELASTIC
20-CA-NAT	102	9	800+	0	63 879	72	ELASTIC
20-CA-NAT	102	1	770+	0	70 2890	6	ELASTIC
20-CA-NAT	102	2	340+	0	57 414	166	ELASTIC
20-CA-NAT	102	2	470+	0	69 2890	13	ELASTIC
20-CA-NAT	102	3	200+	0	66 2950	112	ELASTIC
20-CA-NAT	102	4	070+	0	74 3550	15	ELASTIC
20-CA-NAT	102	4	370+	0	71 4022	1	ELASTIC
20-CA-NAT	102	4	400+	0	56 486	1	ELASTIC
20-CA-NAT	102	1	400+	0	65 97	54	ELASTIC
20-CA-NAT	102	6	440+	0	74 3550	520	ELASTIC
20-CA-NAT	102	6	470+	0	66 1755	56	ELASTIC
20-CA-NAT	102	2	470+	0	69 2890	14	ELASTIC
20-CA-NAT	102	3	200+	0	66 2950	14	ELASTIC

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-MN-55	102		7.000+ 0	7.30+ 0	63 836	1	ELASTIC
26-Fe-NAT 102			6.000- 2	8.100- 1	56 231	50	ELASTIC
26-Fe-NAT 102			2.200- 1	2.200- 1	60 596	5	ELASTIC
26-Fe-NAT 102			3.000- 1	3.000- 1	63 699	8	ELASTIC
26-Fe-NAT 102			4.500- 1	2.280+ 0	66 1832	264	ELASTIC
26-Fe-NAT 102			6.500- 1	8.000- 1	64 870	16	ELASTIC
26-Fe-NAT 102			5.000- 1	1.450+ 0	72 3684	231	ELASTIC
26-Fe-NAT 102			7.500- 1	9.823- 1	63 748	244	ELASTIC
26-Fe-NAT 102			9.000- 1	9.000- 1	57 411	5	ELASTIC
26-Fe-NAT 102			9.021- 1	9.021- 1	72 3546	8	ELASTIC
26-Fe-NAT 102			9.400- 1	1.180+ 0	68 1546	168	ELASTIC
26-Fe-NAT 102			8.800- 1	9.800- 1	63 879	9	ELASTIC
26-Fe-NAT 102			8.900- 1	3.990+ 0	55 1016	39	ELASTIC
26-Fe-NAT 102			1.000+ 0	1.000+ 0	54 103	9	ELASTIC
26-Fe-NAT 102			1.370+ 0	3.260+ 0	66 2589	59	ELASTIC
26-Fe-NAT 102			1.426+ 0	2.152+ 0	70 3207	225	ELASTIC
26-Fe-NAT 102			1.480+ 0	1.660+ 0	56 146	54	ELASTIC
26-Fe-NAT 102			1.550+ 0	1.550+ 0	55 1485	1	ELASTIC
26-Fe-NAT 102			1.770+ 0	2.760+ 0	70 2890	82	ELASTIC
26-Fe-NAT 102			1.870+ 0	1.870+ 0	52 1837	1	ELASTIC
26-Fe-NAT 102			1.950+ 0	1.950+ 0	54 1743	10	ELASTIC
26-Fe-NAT 102			2.000+ 0	3.000+ 0	64 1834	17	ELASTIC
26-Fe-NAT 102			2.500+ 0	2.500+ 0	58 437	14	ELASTIC
26-Fe-NAT 102			3.200+ 0	2.430+ 0	59 476	25	ELASTIC
26-Fe-NAT 102			3.300+ 0	2.340+ 0	57 414	5	ELASTIC
26-Fe-NAT 102			3.400+ 0	3.400+ 0	56 1742	1	ELASTIC
26-Fe-NAT 102			3.900+ 0	3.900+ 0	57 1044	8	ELASTIC
26-Fe-NAT 102			3.900+ 0	3.900+ 0	60 2605	93	ELASTIC
26-Fe-NAT 102			3.200+ 0	3.200+ 0	66 2950	14	ELASTIC
26-Fe-NAT 102			3.400+ 0	3.610+ 0	61 2323	15	ELASTIC
26-Fe-NAT 102			3.650+ 0	3.650+ 0	59 559	23	ELASTIC
26-Fe-NAT 102			3.720+ 0	3.720+ 0	53 297	11	ELASTIC
26-Fe-NAT 102			4.100+ 0	4.100+ 0	55 256	1	ELASTIC
26-Fe-NAT 102			4.400+ 0	4.400+ 0	55 1033	1	ELASTIC
26-Fe-NAT 102			4.400+ 0	4.400+ 0	56 1827	1	ELASTIC
26-Fe-NAT 102			4.560+ 0	4.560+ 0	66 1831	20	ELASTIC
26-Fe-NAT 102			5.000+ 0	5.000+ 0	70 3171	168	ELASTIC
26-Fe-NAT 102			5.000+ 0	5.960+ 0	58 398	13	ELASTIC
26-Fe-NAT 102			5.960+ 0	5.960+ 0	69 3660	13	ELASTIC
26-Fe-NAT 102			6.000+ 0	6.000+ 0	61 1049	14	ELASTIC
26-Fe-NAT 102			6.040+ 0	6.040+ 0	65 889	14	ELASTIC
26-Fe-NAT 102			6.500+ 0	6.500+ 0	56 1828	2	ELASTIC
26-Fe-NAT 102			7.550+ 0	7.550+ 0	73 3614	6	ELASTIC
26-Fe-NAT 102			8.970+ 0	8.970+ 0	73 3585	17	ELASTIC
26-Fe-NAT 102			1.400+ 1	1.400+ 1	56 483	11	ELASTIC
26-Fe-NAT 102			1.400+ 1	1.400+ 1	61 1263	2	ELASTIC
26-Fe-NAT 102			1.400+ 1	1.400+ 1	72 3406	11	ELASTIC
26-Fe-NAT 102			1.410+ 1	1.410+ 1	58 557	12	ELASTIC
26-Fe-NAT 102			1.450+ 1	1.450+ 1	58 403	46	ELASTIC
26-Fe-NAT 102			1.450+ 1	1.450+ 1	59 556	45	ELASTIC
26-Fe-NAT 102			1.460+ 1	1.460+ 1	57 561	17	ELASTIC

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

07/04/76

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-FE-NAT	102		1.480+	1.480+	1 57 367	15	ELASTIC
26-FE-NAT	102		2.480+	1 2.480+	1 62 1745	27	ELASTIC
26-FE-54	102		4.040+	0 5.500+	0 71 3214	30	ELASTIC
26-FE-54	102	N	5.500+	0 5.500+	0 74 3589	62	ELASTIC
26-FE-56	102	N	6.300+	1 9.700+	1 67 971	63	ELASTIC
26-FE-56	102	N	8.00+	0 1.800+	0 72 4025	17	ELASTIC
26-FE-56	102		4.600+	0 7.550+	0 68 1998	85	ELASTIC
26-FE-56	102		5.050+	0 5.580+	0 71 3214	19	ELASTIC
27-CO-59	102		3.000+	2 1.040+	0 55 231	55	ELASTIC
27-CO-59	102	N	3.000+	1 8.000+	1 75 2339	16	ELASTIC
27-CO-59	102		8.860+	0 8.860+	0 72 3545	8	ELASTIC
27-CO-59	102		1.080+	0 4.580+	0 65 103	9	ELASTIC
27-CO-59	102		1.480+	0 4.580+	0 65 1831	107	ELASTIC
27-CO-59	102		1.480+	0 8.950+	0 69 2880	147	ELASTIC
27-CO-59	102		1.950+	0 1.950+	0 64 1743	147	ELASTIC
27-CO-59	102		3.200+	0 3.200+	0 65 2950	14	ELASTIC
27-CO-59	102		3.550+	0 3.550+	0 59 259	23	ELASTIC
27-CO-59	102		4.000+	0 4.000+	0 64 1543	17	ELASTIC
27-CO-59	102		4.400+	0 4.400+	0 56 1827	1	ELASTIC
27-CO-59	102		5.000+	0 8.560+	0 70 3170	108	ELASTIC
27-CO-59	102		7.600+	0 7.600+	0 68 2011	11	ELASTIC
27-CO-59	102	N	8.970+	0 8.970+	0 73 3585	27	ELASTIC
28-NI-NAT	102		1.400+	1 1.400+	1 59 567	12	ELASTIC
28-NI-NAT	102		3.000+	1 3.000+	1 63 1699	50	ELASTIC
28-NI-NAT	102		5.000+	1 8.000+	1 64 886	16	ELASTIC
28-NI-NAT	102	N	5.000+	1 1.475+	0 72 3684	280	ELASTIC
28-NI-NAT	102		6.500+	1 6.500+	1 63 1750	8	ELASTIC
28-NI-NAT	102	N	8.754+	1 8.754+	1 72 3545	8	ELASTIC
28-NI-NAT	102		9.000+	1 9.000+	1 62 901	5	ELASTIC
28-NI-NAT	102		1.000+	0 1.000+	0 54 103	9	ELASTIC
28-NI-NAT	102		1.000+	0 1.550+	0 95 1495	3	ELASTIC
28-NI-NAT	102		1.770+	0 2.760+	0 70 2890	90	ELASTIC
28-NI-NAT	102		2.010+	0 3.260+	0 66 2589	36	ELASTIC
28-NI-NAT	102		3.000+	0 2.900+	0 60 820	9	ELASTIC
28-NI-NAT	102		3.000+	0 8.050+	0 69 2890	112	ELASTIC
28-NI-NAT	102		3.650+	0 3.650+	0 59 559	22	ELASTIC
28-NI-NAT	102		4.070+	0 8.560+	0 74 3460	115	ELASTIC
28-NI-NAT	102	N	4.370+	0 4.370+	0 71 4022	15	ELASTIC
28-NI-NAT	102		5.000+	0 5.000+	0 56 1827	1	ELASTIC
28-NI-NAT	102		5.000+	0 8.970+	0 73 3585	13	ELASTIC
28-NI-NAT	102	N	5.000+	0 8.970+	0 73 3585	13	ELASTIC
28-NI-NAT	102		1.400+	1 1.400+	1 55 97	32	ELASTIC
28-NI-NAT	102		1.410+	1 1.410+	1 62 230	27	ELASTIC
28-NI-NAT	102		1.410+	1 1.410+	1 63 2341	33	ELASTIC
28-NI-NAT	102	N	1.460+	1 1.460+	1 73 3536	20	ELASTIC
28-NI-NAT	102		2.900+	0 2.900+	1 58 1436	8	ELASTIC
28-NI-58	102	N	2.900+	0 2.900+	0 72 4025	20	ELASTIC
28-NI-58	102		5.050+	0 5.580+	0 71 3214	20	ELASTIC
28-NI-60	102	N	2.900+	0 2.900+	0 72 4025	8	ELASTIC

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	29-NI-60 102	4.340	C	4.920	C	74	3-60 41 ELASTIC ANGULAR DISTRIBUTION
	29-NI-60 102	5.050	C	5.580	C	71	3214 20 ELASTIC ANGULAR DISTRIBUTION
	29-NI-60 102	6.440	C	8.560	C	70	3172 64 ELASTIC ANGULAR DISTRIBUTION
	29-NI-62 102	2.900	C	2.900	C	72	4025 8 ELASTIC ANGULAR DISTRIBUTION
	29-NI-62 102	4.000	C	4.000	C	64	1643 16 ELASTIC ANGULAR DISTRIBUTION
N	29-CU-NAT 102	5.000	C	8.300	C	60	571 148 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	5.000	C	8.000	C	64	886 16 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	5.000	C	1.550	C	35	1495 2 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	6.720	C	1.232	C	63	1966 552 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	8.000	C	1.800	C	61	1257 47 ELASTIC ANGULAR DISTRIBUTION
N	29-CU-NAT 102	8.768	C	8.768	C	72	3546 8 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	1.000	C	1.000	C	54	103 9 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	1.330	C	6.400	C	71	3404 153 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	1.460	C	8.050	C	69	2950 149 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	1.710	C	2.240	C	70	3776 26 ELASTIC ANGULAR DISTRIBUTION
N	29-CU-NAT 102	2.800	C	2.800	C	58	1044 9 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	2.900	C	2.900	C	57	416 14 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	3.200	C	3.200	C	66	2950 14 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	3.300	C	3.300	C	56	953 9 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	3.650	C	3.650	C	59	559 24 ELASTIC ANGULAR DISTRIBUTION
N	29-CU-NAT 105	5.000	C	7.000	C	63	3546 6 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	7.550	C	7.550	C	73	3816 2 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	9.200	C	9.200	C	71	4041 1 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	1.400	C	1.400	C	61	1263 3 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	1.450	C	1.450	C	58	403 46 ELASTIC ANGULAR DISTRIBUTION
N	29-CU-NAT 102	1.450	C	1.450	C	59	556 43 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	1.460	C	1.460	C	58	1036 15 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	1.470	C	1.470	C	59	166 25 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	1.500	C	1.500	C	61	1262 17 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	8.400	C	8.400	C	50	1748 12 ELASTIC ANGULAR DISTRIBUTION
N	25-CU-NAT 102	9.600	C	9.600	C	50	1045 6 ELASTIC ANGULAR DISTRIBUTION
	25-CU-NAT 102	1.360	C	1.360	C	55	1047 13 ELASTIC ANGULAR DISTRIBUTION
	29-CU-NAT 102	3.515	C	3.515	C	58	1655 9 ELASTIC ANGULAR DISTRIBUTION
	29-CU-63 102	5.500	C	8.500	C	74	3831 63 ELASTIC ANGULAR DISTRIBUTION
	29-CU-65 102	5.500	C	8.500	C	74	3831 60 ELASTIC ANGULAR DISTRIBUTION
N	30-ZN-NAT 102	5.600	C	1.040	C	58	325 14 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	5.000	C	1.040	C	56	231 65 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	3.000	C	3.000	C	63	1699 8 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	5.000	C	8.000	C	54	870 16 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	5.000	C	1.550	C	55	1495 4 ELASTIC ANGULAR DISTRIBUTION
N	30-ZN-NAT 102	6.500	C	6.500	C	63	1750 8 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	8.750	C	8.750	C	72	3546 8 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	1.000	C	1.000	C	54	103 9 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	1.710	C	2.240	C	70	3376 26 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	2.470	C	8.050	C	69	2890 147 ELASTIC ANGULAR DISTRIBUTION
N	30-ZN-NAT 102	2.800	C	2.800	C	58	1044 8 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	3.200	C	3.200	C	66	2950 14 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	3.650	C	3.650	C	59	559 23 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	4.100	C	4.100	C	55	296 11 ELASTIC ANGULAR DISTRIBUTION
	30-ZN-NAT 102	4.480	C	4.480	C	66	1551 59 ELASTIC ANGULAR DISTRIBUTION
30-ZN-NAT 102	4.480	C	7.990	C	69	5777 52 ELASTIC ANGULAR DISTRIBUTION	

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
30-ZN-NAT	102	1	400+	1	57 501	10	ELASTIC
30-ZN-NAT	102	1	400+	1	59 573	25	ELASTIC
30-ZN-NAT	102	1	400+	1	61 1263	8	ELASTIC
30-ZN-NAT	102	1	400+	1	65 97	10	ELASTIC
31-GA-NAT	102	3	200+	0	66 2950	13	ELASTIC
31-GA-NAT	102	6	704+	1	72 3546	8	ELASTIC
32-GF-NAT	102	3	200+	0	66 2950	13	ELASTIC
32-GF-NAT	102	3	660+	0	68 637	21	ELASTIC
32-GF-NAT	102	7	550+	0	69 2850	14	ELASTIC
33-AS-75	102	5	600+	2	58 325	13	ELASTIC
33-AS-75	102	3	200+	0	66 2950	13	ELASTIC
33-AS-75	102	7	550+	0	68 637	21	ELASTIC
33-AS-75	102	8	050+	0	63 836	1	ELASTIC
34-SE-NAT	102	4	000+	2	58 325	20	ELASTIC
34-SE-NAT	102	5	000+	1	64 886	16	ELASTIC
34-SE-NAT	102	6	360+	1	72 3546	9	ELASTIC
34-SE-NAT	102	2	900+	0	60 920	11	ELASTIC
34-SE-NAT	102	3	200+	0	66 2950	12	ELASTIC
34-SE-NAT	102	3	660+	0	62 637	21	ELASTIC
34-SE-NAT	102	7	000+	0	63 836	1	ELASTIC
34-SE-NAT	102	1	400+	1	57 501	12	ELASTIC
34-SE-NAT	102	6	000+	0	75 3903	58	ELASTIC
34-SE-NAT	102	8	000+	0	64 1643	17	ELASTIC
34-SE-NAT	102	8	000+	0	75 3903	22	ELASTIC
34-SE-NAT	102	6	000+	0	75 3903	58	ELASTIC
34-SE-NAT	102	1	300+	1	73 3931	159	ELASTIC
34-SE-NAT	102	5	600+	2	58 325	12	ELASTIC
34-SE-NAT	102	8	860+	1	72 3546	8	ELASTIC
34-SE-NAT	102	1	000+	0	54 103	9	ELASTIC
34-SE-NAT	102	3	200+	0	66 2950	14	ELASTIC
34-SE-NAT	102	3	660+	0	62 637	21	ELASTIC
34-SE-NAT	102	7	000+	0	71 4022	15	ELASTIC
34-SE-NAT	102	1	000+	0	63 836	1	ELASTIC
34-SE-NAT	102	6	660+	1	65 3697	8	ELASTIC
34-SE-NAT	102	1	050+	1	72 3546	8	ELASTIC
34-SE-NAT	102	2	200+	0	59 573	50	ELASTIC
34-SE-NAT	102	3	200+	0	66 2950	14	ELASTIC
34-SE-NAT	102	5	500+	0	65 1823	13	ELASTIC
34-SE-NAT	102	6	000+	0	70 1703	91	ELASTIC
34-SE-NAT	102	6	000+	0	65 1823	14	ELASTIC
34-SE-NAT	102	7	500+	0	68 2011	16	ELASTIC
34-SE-NAT	102	1	400+	1	71 3406	12	ELASTIC
34-SE-NAT	102	5	600+	2	58 325	16	ELASTIC
34-SE-NAT	102	1	300+	1	56 231	50	ELASTIC
34-SE-NAT	102	3	000+	1	64 2338	16	ELASTIC
34-SE-NAT	102	3	400+	1	62 1031	168	ELASTIC
34-SE-NAT	102	5	000+	1	55 1495	3	ELASTIC
34-SE-NAT	102	6	500+	1	63 1750	8	ELASTIC

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

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EC5IL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 102

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 42-MO-NAT	102	6.040+	0	6.040+	0	65 889	14 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-NAT	102	8.050+	0	8.050+	0	69 3660	19 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-NAT	102	1.400+	1	1.400+	1	61 1046	30 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-92	102	3.000+	1	1.500+	0	72 3439	1040 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-92	102	1.500+	0	1.500+	0	74 3586	14 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-94	102	3.000+	1	1.500+	0	72 3439	944 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-94	102	1.500+	0	1.500+	0	74 3586	14 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-96	102	3.000+	1	1.498+	0	72 3439	960 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-96	102	1.500+	0	1.500+	0	74 3586	14 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-98	102	3.000+	1	1.490+	0	72 3439	971 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-100	102	3.400+	1	1.495+	0	72 3439	664 ELASTIC ANGULAR DISTRIBUTION
N 42-MO-100	102	1.500+	0	1.500+	0	74 3586	14 ELASTIC ANGULAR DISTRIBUTION
N 45-RH-103	102	5.000+	1	1.300+	0	75 4013	62 ELASTIC ANGULAR DISTRIBUTION
45-RH-103	102	6.000+	0	6.000+	0	61 1049	13 ELASTIC ANGULAR DISTRIBUTION
45-RH-103	102	6.040+	0	6.040+	0	65 889	14 ELASTIC ANGULAR DISTRIBUTION
46-PD-NAT	102	6.000+	2	4.000+	1	56 231	25 ELASTIC ANGULAR DISTRIBUTION
47-AG-NAT	102	5.600+	2	1.040+	1	58 325	14 ELASTIC ANGULAR DISTRIBUTION
47-AG-NAT	102	5.000+	1	1.550+	0	55 1495	4 ELASTIC ANGULAR DISTRIBUTION
47-AG-NAT	102	6.500+	1	6.500+	1	63 1750	8 ELASTIC ANGULAR DISTRIBUTION
N 47-AG-NAT	102	8.733+	1	8.733+	1	72 3546	8 ELASTIC ANGULAR DISTRIBUTION
47-AG-NAT	102	1.000+	0	1.000+	0	54 103	9 ELASTIC ANGULAR DISTRIBUTION
47-AG-NAT	102	3.200+	0	3.200+	0	68 2950	13 ELASTIC ANGULAR DISTRIBUTION
47-AG-NAT	102	5.000+	0	5.000+	0	66 1254	13 ELASTIC ANGULAR DISTRIBUTION
47-AG-NAT	102	6.700+	0	6.700+	0	62 2165	39 ELASTIC ANGULAR DISTRIBUTION
47-AG-NAT	102	1.450+	1	1.450+	1	61 1937	16 ELASTIC ANGULAR DISTRIBUTION
47-AG-NAT	102	1.460+	1	1.460+	1	57 561	17 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	5.600+	2	1.040+	1	58 325	14 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	3.000+	1	3.000+	1	63 1699	8 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	5.000+	1	8.000+	1	84 870	16 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	5.000+	1	1.550+	0	55 1495	3 ELASTIC ANGULAR DISTRIBUTION
N 48-CD-NAT	102	8.700+	1	8.700+	1	72 3546	8 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	9.800+	1	9.800+	1	63 879	9 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	1.000+	0	1.000+	0	54 103	9 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	1.000+	0	1.000+	0	54 1032	5 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	1.000+	0	1.000+	0	68 2351	6 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	2.800+	0	2.800+	0	58 1044	8 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	3.200+	0	3.200+	0	68 2950	13 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	3.700+	0	3.700+	0	54 303	19 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	4.100+	0	4.100+	0	55 296	11 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	6.000+	0	6.000+	0	61 1049	14 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	6.040+	0	6.040+	0	65 889	14 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	8.050+	0	8.050+	0	69 3660	19 ELASTIC ANGULAR DISTRIBUTION
N 48-CD-NAT	102	1.400+	1	1.400+	1	61 1046	25 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	1.400+	1	1.400+	1	61 1263	4 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	1.400+	1	1.400+	1	65 97	11 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	1.460+	1	1.460+	1	57 561	17 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	1.460+	1	1.460+	1	60 631	26 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	9.600+	1	9.600+	1	60 1045	6 ELASTIC ANGULAR DISTRIBUTION
48-CD-NAT	102	1.350+	2	1.350+	2	55 1047	13 ELASTIC ANGULAR DISTRIBUTION
48-CD-114	102	4.000+	0	4.000+	0	64 1643	17 ELASTIC ANGULAR DISTRIBUTION
N 49-IN-NAT	102	8.704+	1	8.704+	1	72 3546	8 ELASTIC ANGULAR DISTRIBUTION
49-IN-NAT	102	1.000+	0	1.000+	0	54 103	9 ELASTIC ANGULAR DISTRIBUTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 102

TARGET CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
49-IN-NAT 102	3.000*	0	8.050*	0	96	ELASTIC
49-IN-NAT 102	3.200*	0	66 2950	0	13	ELASTIC
49-IN-NAT 102	4.000*	0	60 2131	0	18	ELASTIC
49-IN-NAT 102	6.700*	0	52 2165	0	40	ELASTIC
49-IN-NAT 102	7.000*	0	63 936	0	11	ELASTIC
49-IN-NAT 102	1.400*	1	55 483	1	35	ELASTIC
49-IN-115 102	6.000*	2	5.700-	1	72	ELASTIC
49-IN-115 102	1.800*	0	1.800-	0	72	ELASTIC
49-IN-115 102	4.000*	0	4.000-	0	64	ELASTIC
49-IN-115 102	2.200*	1	2.200-	1	60	ELASTIC
50-SN-NAT 102	3.000*	1	3.000-	1	63	ELASTIC
50-SN-NAT 102	5.000*	1	8.000-	1	64	ELASTIC
50-SN-NAT 102	5.000*	1	1.550-	0	55	ELASTIC
50-SN-NAT 102	6.500*	1	6.500-	1	63	ELASTIC
50-SN-NAT 102	8.816*	1	8.816-	1	72	ELASTIC
50-SN-NAT 102	9.000*	1	9.000-	1	57	ELASTIC
50-SN-NAT 102	9.800*	1	9.800-	1	63	ELASTIC
50-SN-NAT 102	1.000*	0	1.000-	0	54	ELASTIC
50-SN-NAT 102	2.500*	0	2.500-	0	56	ELASTIC
50-SN-NAT 102	3.200*	0	3.200-	0	66	ELASTIC
50-SN-NAT 102	3.650*	0	3.650-	0	71	ELASTIC
50-SN-NAT 102	3.700*	0	3.700-	0	54	ELASTIC
50-SN-NAT 102	4.100*	0	4.100-	0	55	ELASTIC
50-SN-NAT 102	6.000*	0	6.000-	0	61	ELASTIC
50-SN-NAT 102	6.040*	0	6.040-	0	65	ELASTIC
50-SN-NAT 102	7.550*	0	7.550-	0	73	ELASTIC
50-SN-NAT 102	1.400*	1	1.400-	1	57	ELASTIC
50-SN-NAT 102	1.400*	1	1.400-	1	59	ELASTIC
50-SN-NAT 102	1.400*	1	1.400-	1	61	ELASTIC
50-SN-NAT 102	1.400*	1	1.400-	1	65	ELASTIC
50-SN-NAT 102	1.450*	1	1.450-	1	58	ELASTIC
50-SN-NAT 102	1.450*	1	1.450-	1	59	ELASTIC
50-SN-NAT 102	1.460*	1	1.460-	1	57	ELASTIC
50-SN-NAT 102	1.480*	1	1.480-	1	57	ELASTIC
50-SN-NAT 102	1.480*	1	1.480-	1	73	ELASTIC
50-SN-NAT 102	2.400*	1	2.400-	1	62	ELASTIC
50-SN-NAT 102	2.400*	1	2.400-	1	61	ELASTIC
50-SN-NAT 102	3.315*	2	3.315-	2	58	ELASTIC
50-SN-118 102	1.520*	0	1.520-	0	72	ELASTIC
50-SN-120 102	3.000*	1	3.000-	1	66	ELASTIC
51-SB-NAT 102	3.000*	1	3.000-	1	66	ELASTIC
51-SB-NAT 102	5.000*	1	5.000-	1	55	ELASTIC
51-SB-NAT 102	8.700*	1	8.700-	1	72	ELASTIC
51-SB-NAT 102	1.000*	0	1.000-	0	54	ELASTIC
51-SB-NAT 102	2.800*	0	2.800-	0	58	ELASTIC
51-SB-NAT 102	3.200*	0	3.200-	0	66	ELASTIC
51-SB-NAT 102	4.100*	0	4.100-	0	50	ELASTIC
51-SB-NAT 102	5.000*	0	5.000-	0	66	ELASTIC
51-SB-NAT 102	7.000*	0	7.000-	0	63	ELASTIC
51-SB-NAT 102	8.050*	0	8.050-	0	59	ELASTIC
51-SB-NAT 102	1.400*	1	1.400-	1	57	ELASTIC

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 102

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
51-SB-NAT	102		1.400+	1.400+	55 573	2P	ELASTIC ANGULAR DISTRIBUTION
51-SB-NAT	102		1.400+	1.400+	55 97	9	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		6.000-	4.000-	55 231	25	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		3.000-	3.000-	63 1699	8	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		5.000-	8.000-	64 886	16	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		6.500-	6.500-	63 1750	8	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		6.710-	1.109+	66 1706	424	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		1.000+	1.000+	54 103	9	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		2.900+	2.900+	60 320	8	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		3.200+	3.200+	66 2950	13	ELASTIC ANGULAR DISTRIBUTION
52-TE-NAT	102		1.400+	1.400+	61 1046	28	ELASTIC ANGULAR DISTRIBUTION
N 53-I -127	102		8.893-	8.893-	72 3546	8	ELASTIC ANGULAR DISTRIBUTION
53-I -127	102		4.000+	4.000+	64 1643	17	ELASTIC ANGULAR DISTRIBUTION
53-I -127	102		7.000+	7.000+	63 836	1	ELASTIC ANGULAR DISTRIBUTION
N 55-CS-133	102		1.200-	1.100+	73 3991	167	ELASTIC ANGULAR DISTRIBUTION
N 55-CS-133	102		8.772-	8.772-	72 3546	8	ELASTIC ANGULAR DISTRIBUTION
56-BA-NAT	102		5.000-	8.000-	64 870	16	ELASTIC ANGULAR DISTRIBUTION
56-BA-NAT	102		6.500-	6.500-	63 1750	8	ELASTIC ANGULAR DISTRIBUTION
N 56-BA-NAT	102		8.845-	8.845-	72 3546	8	ELASTIC ANGULAR DISTRIBUTION
56-BA-NAT	102		1.000+	1.000+	54 103	9	ELASTIC ANGULAR DISTRIBUTION
56-BA-NAT	102		1.239+	1.682+	63 748	90	ELASTIC ANGULAR DISTRIBUTION
56-BA-NAT	102		3.200+	3.200+	66 2950	13	ELASTIC ANGULAR DISTRIBUTION
56-BA-NAT	102		4.100+	4.100+	60 576	15	ELASTIC ANGULAR DISTRIBUTION
56-BA-NAT	102		5.000+	5.000+	58 398	10	ELASTIC ANGULAR DISTRIBUTION
57-LA-NAT	102		9.800-	9.800-	63 879	8	ELASTIC ANGULAR DISTRIBUTION
N 57-LA-NAT	102		1.500+	3.578+	72 3773	64	ELASTIC ANGULAR DISTRIBUTION
57-LA-NAT	102		3.200+	3.200+	66 2950	12	ELASTIC ANGULAR DISTRIBUTION
57-LA-NAT	102		7.000+	7.000+	63 836	1	ELASTIC ANGULAR DISTRIBUTION
N 57-LA-139	102		2.320-	1.571+	69 2883	66	ELASTIC ANGULAR DISTRIBUTION
58-CE-NAT	102		5.000-	1.550+	55 1495	3	ELASTIC ANGULAR DISTRIBUTION
58-CE-NAT	102		6.790-	1.109+	66 1706	408	ELASTIC ANGULAR DISTRIBUTION
N 58-CE-NAT	102		8.797-	8.797-	72 3546	8	ELASTIC ANGULAR DISTRIBUTION
58-CE-NAT	102		9.800-	9.800-	63 879	8	ELASTIC ANGULAR DISTRIBUTION
58-CE-NAT	102		1.000+	1.000+	54 103	9	ELASTIC ANGULAR DISTRIBUTION
58-CE-NAT	102		1.284+	2.182+	63 748	530	ELASTIC ANGULAR DISTRIBUTION
58-CE-NAT	102		3.200+	3.200+	66 2950	12	ELASTIC ANGULAR DISTRIBUTION
58-CE-NAT	102		5.000+	5.000+	66 1254	13	ELASTIC ANGULAR DISTRIBUTION
58-CE-NAT	102		7.000+	7.000+	63 836	1	ELASTIC ANGULAR DISTRIBUTION
N 59-PR-141	102		2.320-	1.571+	69 2883	65	ELASTIC ANGULAR DISTRIBUTION
N 59-PR-141	102		8.788-	8.788-	72 3546	8	ELASTIC ANGULAR DISTRIBUTION
59-PR-141	102		9.800-	9.800-	63 879	8	ELASTIC ANGULAR DISTRIBUTION
N 59-PR-141	102		1.500+	3.578+	72 3773	65	ELASTIC ANGULAR DISTRIBUTION
59-PR-141	102		3.200+	3.200+	66 2950	11	ELASTIC ANGULAR DISTRIBUTION
59-PR-141	102		5.000+	5.000+	66 1254	13	ELASTIC ANGULAR DISTRIBUTION
60-NO-NAT	102		9.800-	9.800-	63 879	8	ELASTIC ANGULAR DISTRIBUTION
62-SM-NAT	102		9.800-	9.800-	63 879	8	ELASTIC ANGULAR DISTRIBUTION
N 62-SM-148	102		6.250+	6.250+	75 3936	21	ELASTIC ANGULAR DISTRIBUTION
64-GD-NAT	102		9.800-	9.800-	63 879	8	ELASTIC ANGULAR DISTRIBUTION
N 64-GD-NAT	102		1.520+	3.600+	72 3766	65	ELASTIC ANGULAR DISTRIBUTION
66-OY-NAT	102		9.800-	9.800-	63 879	8	ELASTIC ANGULAR DISTRIBUTION
67-HO-165	102		3.500-	3.500-	65 1058	12	ELASTIC ANGULAR DISTRIBUTION
67-HO-165	102		9.800-	9.800-	63 879	9	ELASTIC ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 102

07/04/76

C = 102

ECSIL-5600 REACTION, INDEX REACTION NO. ORDERED)

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	86-ER-NAT 102		9.529-	1	72 3546	8	ELASTIC
N	86-ER-NAT 102		9.800-	1	63 879	8	ELASTIC
N	86-ER-NAT 102		1.450+ 0	1.450+ 0	72 3773	13	ELASTIC
N	70-YB-NAT 102		9.800-	1	63 879	8	ELASTIC
N	72-HF-NAT 102		9.498-	1	72 3546	8	ELASTIC
N	72-HF-NAT 102		1.000+ 0	1.000+ 0	54 103	9	ELASTIC
N	72-HF-NAT 102		8.050+ 0	8.050+ 0	69 3660	20	ELASTIC
N	73-TA-NAT 102		3.500-	1	1.100+ 0	127	ELASTIC
N	73-TA-NAT 102		4.200-	1	62 2037	26	ELASTIC
N	73-TA-NAT 102		5.000-	1	55 1495	3	ELASTIC
N	73-TA-NAT 102		8.733-	1	72 3546	8	ELASTIC
N	73-TA-NAT 102		9.800-	1	63 879	8	ELASTIC
N	73-TA-NAT 102		1.000+ 0	1.000+ 0	54 103	9	ELASTIC
N	73-TA-NAT 102		1.000+ 0	1.000+ 0	54 1032	132	ELASTIC
N	73-TA-NAT 102		2.470+ 0	8.050+ 0	69 2990	132	ELASTIC
N	73-TA-NAT 102		2.500+ 0	7.000+ 0	56 151	25	ELASTIC
N	73-TA-NAT 102		3.200+ 0	3.200+ 0	66 2950	12	ELASTIC
N	73-TA-NAT 102		3.300+ 0	3.300+ 0	56 553	9	ELASTIC
N	73-TA-NAT 102		4.000+ 0	1.400+ 1	56 483	11	ELASTIC
N	73-TA-NAT 102		4.100+ 0	4.100+ 0	55 296	13	ELASTIC
N	73-TA-NAT 102		5.000+ 0	5.000+ 0	66 1254	13	ELASTIC
N	73-TA-NAT 102		7.000+ 0	7.000+ 0	63 836	1	ELASTIC
N	73-TA-NAT 102		1.400+ 1	1.400+ 1	57 162	8	ELASTIC
N	73-TA-NAT 102		1.410+ 1	1.410+ 1	65 1839	7	ELASTIC
N	73-TA-NAT 102		1.460+ 1	1.460+ 1	66 3732	23	ELASTIC
N	73-TA-NAT 102		1.480+ 1	1.480+ 1	50 1631	8	ELASTIC
N	73-TA-NAT 102		1.500+ 0	1.500+ 0	62 1556	25	ELASTIC
N	73-TA-NAT 102		1.550+ 0	1.550+ 0	60 1526	117	ELASTIC
N	73-TA-NAT 102		1.700+ 1	1.700+ 1	68 2381	17	ELASTIC
N	73-TA-NAT 102		1.721+ 1	1.721+ 1	72 3546	17	ELASTIC
N	73-TA-NAT 102		1.800+ 0	2.000+ 0	52 103	17	ELASTIC
N	73-TA-NAT 102		1.870+ 0	2.010+ 0	56 1503	14	ELASTIC
N	73-TA-NAT 102		1.970+ 0	2.010+ 0	66 2529	24	ELASTIC
N	73-TA-NAT 102		2.000+ 0	2.000+ 0	55 2980	22	ELASTIC
N	73-TA-NAT 102		2.500+ 0	2.500+ 0	55 296	11	ELASTIC
N	73-TA-NAT 102		5.000+ 0	5.000+ 0	58 398	13	ELASTIC
N	73-TA-NAT 102		7.000+ 0	7.000+ 0	63 836	1	ELASTIC
N	73-TA-NAT 102		7.550+ 0	7.550+ 0	73 3614	6	ELASTIC
N	73-TA-NAT 102		1.420+ 1	1.400+ 1	57 501	15	ELASTIC
N	73-TA-NAT 102		1.420+ 1	1.420+ 1	63 1256	9	ELASTIC
N	73-TA-NAT 102		3.510+ 5	2.750+ 1	71 3529	41300	ELASTIC
N	73-TA-NAT 102		3.000+ 2	3.300+ 1	56 231	25	ELASTIC
N	73-TA-NAT 102		5.000+ 1	5.000+ 1	56 149	25	ELASTIC
N	73-TA-NAT 102		5.000+ 1	5.000+ 1	65 1950	71	ELASTIC
N	73-TA-NAT 102		6.000+ 1	1.600+ 0	66 2351	31	ELASTIC
N	73-TA-NAT 102		8.779+ 1	8.779+ 1	72 3546	8	ELASTIC
N	73-TA-NAT 102		1.000+ 0	1.000+ 0	54 103	9	ELASTIC
N	73-TA-NAT 102		4.100+ 0	4.100+ 0	55 296	13	ELASTIC
N	73-TA-NAT 102		5.000+ 0	5.000+ 0	66 1254	13	ELASTIC
N	73-TA-NAT 102		7.000+ 0	7.000+ 0	63 836	1	ELASTIC
N	73-TA-NAT 102		8.050+ 0	8.050+ 0	69 3550	20	ELASTIC

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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C = 102

07/04/76

ECSIL-7500 REACTION INDEX (REACTION NO. ORDERED)

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

80-HG-NAT 102	3.000-1	3.000-1	63 189J	8	ELASTIC	ANGULAR DISTRIBUTION
80-HG-NAT 102	5.000-1	8.000-1	63 190J	16	ELASTIC	ANGULAR DISTRIBUTION
80-HG-NAT 102	6.500-1	8.500-1	63 191J	8	ELASTIC	ANGULAR DISTRIBUTION
80-HG-NAT 102	8.016-1	1.016-1	63 192J	9	ELASTIC	ANGULAR DISTRIBUTION
80-HG-NAT 102	2.300-0	3.200-0	66 103	9	ELASTIC	ANGULAR DISTRIBUTION
80-HG-NAT 102	3.200-0	3.200-0	66 104	12	ELASTIC	ANGULAR DISTRIBUTION
80-HG-NAT 102	4.100-0	4.100-0	66 105	16	ELASTIC	ANGULAR DISTRIBUTION
80-HG-NAT 102	1.400-1	1.400-1	67 501	16	ELASTIC	ANGULAR DISTRIBUTION
80-HG-NAT 102	1.450-1	1.450-1	67 502	16	ELASTIC	ANGULAR DISTRIBUTION
80-HG-NAT 102	1.480-1	1.480-1	67 503	16	ELASTIC	ANGULAR DISTRIBUTION
81-TL-NAT 102	6.000-2	2.400-0	56 231	15	ELASTIC	ANGULAR DISTRIBUTION
81-TL-NAT 102	3.200-0	3.200-0	66 296J	11	ELASTIC	ANGULAR DISTRIBUTION
81-TL-NAT 102	5.000-0	5.000-0	66 1254	13	ELASTIC	ANGULAR DISTRIBUTION
81-TL-NAT 102	7.000-0	7.000-0	63 836	13	ELASTIC	ANGULAR DISTRIBUTION
81-TL-204 102	5.000-1	2.500-0	65 1950	66	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	2.200-1	2.200-1	60 596	136	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	3.000-1	3.000-1	64 2338	5	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	5.000-1	8.000-1	64 870	16	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	6.500-1	6.500-1	63 1750	8	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	8.400-1	8.400-1	68 2351	6	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	9.000-1	9.000-1	57 411	7	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	9.800-1	9.800-1	63 879	7	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.000-0	1.000-0	54 103	9	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.000-0	1.000-0	55 1495	3	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.098-0	1.098-0	72 3546	8	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.200-0	3.200-0	62 746	31	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.330-0	8.400-0	61 3404	153	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	2.340-0	2.340-0	57 414	6	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	2.800-0	2.800-0	58 1044	9	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	2.900-0	2.900-0	57 416	6	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	3.200-0	3.200-0	66 2950	12	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	3.300-0	3.300-0	56 553	9	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	3.400-0	3.400-0	55 552	9	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	3.650-0	3.650-0	71 3465	2	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	3.670-0	4.700-0	59 1719	43	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	3.700-0	3.700-0	53 287	36	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	4.000-0	4.000-0	64 1843	17	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	4.100-0	4.100-0	55 286	11	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	4.560-0	4.560-0	58 248P	7	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	5.000-0	5.000-0	59 399	13	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	6.000-0	6.000-0	73 3833	39	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.350-1	1.350-1	68 3660	20	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.400-1	1.400-1	57 501	15	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.400-1	1.400-1	61 1263	23	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.400-1	1.400-1	68 57	19	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.410-1	1.410-1	68 57	19	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.420-1	1.420-1	63 1256	9	ELASTIC	ANGULAR DISTRIBUTION
82-PB-NAT 102	1.450-1	1.450-1	59 403	30	ELASTIC	ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION			
82-Pb-NAT	102	1	460+	1	460+	59	556	46	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-NAT	102	1	460+	1	460+	57	561	19	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-NAT	102	1	470+	1	470+	58	1036	21	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-NAT	102	1	483+	1	480+	57	367	17	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-NAT	102	1	480+	1	480+	71	3547	15	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-NAT	102	1	500+	1	500+	61	1262	46	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-NAT	102	1	500+	1	500+	60	1748	12	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-NAT	102	1	500+	1	500+	60	1045	7	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-NAT	102	1	360+	2	1.360+	56	1047	15	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-NAT	102	1	3.515+	2	3.515+	58	1655	7	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-206	102	1	2.200+	0	2.200+	58	497	72	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-206	102	1	2.200+	0	2.200+	58	497	14	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-206	102	1	8.050+	0	8.050+	65	3560	19	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-207	102	1	5.000+	1	2.500+	65	1950	51	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-207	102	1	3.76+	0	3.560+	73	3775	149	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-208	102	1	5.000+	1	2.500+	65	1950	111	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-208	102	1	7.150+	1	1.761+	72	764	304	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-208	102	1	1.800+	2	1.800+	74	3549	17	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-208	102	1	5.500+	0	5.500+	66	786	66	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-208	102	1	1.000+	0	1.000+	54	103	9	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-208	102	1	4.200+	0	4.200+	59	574	17	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-208	102	1	4.210+	0	4.210+	59	579	24	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-208	102	1	5.000+	0	5.000+	63	1254	13	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-208	102	1	7.000+	0	7.000+	63	836	30	ELASTIC	ANGULAR DISTRIBUTION
82-Pb-208	102	1	7.000+	0	7.000+	65	1973	65	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	2.200+	1	2.200+	60	2338	5	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	3.000+	1	3.000+	56	149	8	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	5.000+	1	5.000+	64	870	16	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	5.000+	1	5.000+	65	1950	30	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	5.000+	1	1.550+	72	3546	8	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	8.083+	1	8.083+	57	411	9	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	1.000+	0	1.000+	54	103	5	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	1.000+	0	1.000+	54	103	5	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	1.450+	0	1.450+	56	151	31	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	2.500+	0	2.500+	57	416	6	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	2.800+	0	2.800+	58	1044	9	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	3.200+	0	3.200+	56	2950	13	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	3.300+	0	3.300+	55	553	9	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	3.400+	0	3.400+	56	552	9	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	3.700+	0	3.700+	54	303	19	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	4.100+	0	4.100+	64	1643	17	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	4.100+	0	4.100+	55	296	12	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	4.210+	0	4.210+	59	579	13	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	4.400+	0	4.400+	56	466	1	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	6.000+	0	6.000+	61	1049	12	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	6.040+	0	6.040+	65	889	12	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	7.050+	0	7.050+	63	2850	55	ELASTIC	ANGULAR DISTRIBUTION
83-Bi-209	102	2	7.000+	0	7.000+	69	836	1	ELASTIC	ANGULAR DISTRIBUTION

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07/04/76

ECSSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C - 102

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
83-81-209 102		7.000+	7.000+	0	56	1973	ANGULAR DISTRIBUTION
83-81-209 102		1.400+	1.400+	1	56	1493	ANGULAR DISTRIBUTION
83-81-209 102		1.400+	1.400+	1	57	1152	ANGULAR DISTRIBUTION
83-81-209 102		1.400+	1.400+	1	59	573	ANGULAR DISTRIBUTION
83-81-209 102		1.400+	1.400+	1	61	1263	ANGULAR DISTRIBUTION
83-81-209 102		1.400+	1.400+	1	65	97	ANGULAR DISTRIBUTION
83-81-209 102		1.410+	1.410+	1	58	557	ANGULAR DISTRIBUTION
83-81-209 102		1.410+	1.410+	1	73	3754	ANGULAR DISTRIBUTION
83-81-209 102		1.420+	1.420+	1	43	1256	ANGULAR DISTRIBUTION
83-81-209 102		1.450+	1.450+	1	61	1997	ANGULAR DISTRIBUTION
83-81-209 102		1.460+	1.460+	1	60	621	ANGULAR DISTRIBUTION
83-81-209 102		1.470+	1.470+	1	59	1036	ANGULAR DISTRIBUTION
83-81-209 102		2.400+	2.400+	1	65	3697	ANGULAR DISTRIBUTION
83-81-209 102		5.000+	5.000+	1	55	1495	ANGULAR DISTRIBUTION
83-81-209 102		5.600+	5.600+	1	62	693	ANGULAR DISTRIBUTION
83-81-209 102		6.000+	6.000+	1	66	2351	ANGULAR DISTRIBUTION
83-81-209 102		8.000+	8.000+	0	61	1257	ANGULAR DISTRIBUTION
83-81-209 102		8.733+	8.733+	1	72	3546	ANGULAR DISTRIBUTION
83-81-209 102		1.000+	1.000+	1	54	103	ANGULAR DISTRIBUTION
83-81-209 102		1.000+	1.000+	0	54	1032	ANGULAR DISTRIBUTION
83-81-209 102		3.000+	3.000+	0	63	1264	ANGULAR DISTRIBUTION
83-81-209 102		3.100+	3.100+	0	61	1946	ANGULAR DISTRIBUTION
83-81-209 102		3.050+	3.050+	0	65	1254	ANGULAR DISTRIBUTION
83-81-209 102		1.420+	1.420+	1	63	1255	ANGULAR DISTRIBUTION
83-81-209 102		1.000+	1.000+	0	52	744	ANGULAR DISTRIBUTION
83-81-209 102		5.500+	5.500+	1	62	1360	ANGULAR DISTRIBUTION
83-81-209 102		5.750+	5.750+	1	71	3450	ANGULAR DISTRIBUTION
83-81-209 102		5.000+	5.000+	0	68	2351	ANGULAR DISTRIBUTION
83-81-209 102		6.000+	6.000+	0	61	1257	ANGULAR DISTRIBUTION
83-81-209 102		8.000+	8.000+	1	61	1257	ANGULAR DISTRIBUTION
83-81-209 102		8.300+	8.300+	0	61	1257	ANGULAR DISTRIBUTION
83-81-209 102		8.715+	8.715+	1	63	879	ANGULAR DISTRIBUTION
83-81-209 102		1.000+	1.000+	0	53	1505	ANGULAR DISTRIBUTION
83-81-209 102		1.500+	1.500+	1	61	1257	ANGULAR DISTRIBUTION
83-81-209 102		2.500+	2.500+	0	56	565	ANGULAR DISTRIBUTION
83-81-209 102		4.000+	4.000+	0	67	204	ANGULAR DISTRIBUTION
83-81-209 102		1.400+	1.400+	0	66	1254	ANGULAR DISTRIBUTION
83-81-209 102		1.410+	1.410+	1	58	403	ANGULAR DISTRIBUTION
83-81-209 102		1.420+	1.420+	1	63	1256	ANGULAR DISTRIBUTION
83-81-209 102		1.470+	1.470+	1	66	2516	ANGULAR DISTRIBUTION
83-81-209 102		1.480+	1.480+	1	73	3547	ANGULAR DISTRIBUTION
83-81-209 102		2.800+	2.800+	2	61	1255	ANGULAR DISTRIBUTION
83-81-209 102		2.840+	2.840+	1	61	1255	ANGULAR DISTRIBUTION
83-81-209 102		5.600+	5.600+	1	61	1045	ANGULAR DISTRIBUTION
83-81-209 102		1.300+	1.300+	1	65	1377	ANGULAR DISTRIBUTION
83-81-209 102		1.500+	1.500+	0	72	3789	ANGULAR DISTRIBUTION
83-81-209 102		1.500+	1.500+	0	72	3789	ANGULAR DISTRIBUTION

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C - 102

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 102

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	92-U	-235	102	2.000+ 0	4.000+ 0	69 2598	27	ELASTIC ANGULAR DISTRIBUTION
	92-U	-235	102	2.500+ 0	2.500+ 0	55 1449	10	ELASTIC ANGULAR DISTRIBUTION
	92-U	-238	102	7.500+ 0	9.900+ 1	66 1267	54	ELASTIC ANGULAR DISTRIBUTION
	92-U	-238	102	5.600+ 1	1.000+ 0	63 1272	19	ELASTIC ANGULAR DISTRIBUTION
Y	92-U	-238	102	8.910+ 0	2.730+ 0	75 3844	9	ELASTIC ANGULAR DISTRIBUTION
	92-U	-238	102	3.000+ 0	7.000+ 0	65 1264	39	ELASTIC ANGULAR DISTRIBUTION
N	92-U	-238	102	7.000+ 0	1.400+ 1	73 3633	16	ELASTIC ANGULAR DISTRIBUTION
	92-U	-238	102	1.410+ 1	1.410+ 1	68 2085	15	ELASTIC ANGULAR DISTRIBUTION
	94-PU-239	102	102	5.000+ 1	1.000+ 0	57 444	17	ELASTIC ANGULAR DISTRIBUTION
N	94-PU-239	102	102	1.500+ 0	5.500+ 0	71 265	74	ELASTIC ANGULAR DISTRIBUTION
	94-PU-239	102	102	2.000+ 0	4.000+ 0	69 2598	27	ELASTIC ANGULAR DISTRIBUTION
N	238-PA-NAT	102	8	8.520+ 0	8.520+ 0	70 3192	19	ELASTIC ANGULAR DISTRIBUTION
	1-H -1	102	80	1.410+ 1	1.410+ 1	65 1849	5	ELASTIC ANGULAR DISTRIBUTION
	1-H -1	102	80	1.990+ 2	1.990+ 2	68 3009	8	ELASTIC ANGULAR DISTRIBUTION
	2-HE-NAT	102	80	2.020+ 1	7.013+ 0	68 2372	974	ELASTIC ANGULAR DISTRIBUTION
	22-Ti-NAT	102	80	2.900+ 0	2.900+ 0	69 3000	8	ELASTIC ANGULAR DISTRIBUTION
	24-CR-NAT	102	80	2.900+ 0	2.900+ 0	69 3000	8	ELASTIC ANGULAR DISTRIBUTION
	38-SR-86	102	80	8.000+ 2	8.000+ 2	55 1258	4	ELASTIC ANGULAR DISTRIBUTION
	50-SN-120	102	80	8.000+ 2	8.000+ 2	55 1258	4	ELASTIC ANGULAR DISTRIBUTION
N	82-PB-NAT	102	80	4.600+ 4	2.600+ 2	56 3395	99	ELASTIC ANGULAR DISTRIBUTION
	92-U -NAT	102	80	8.000+ 2	8.000+ 2	55 1258	5	ELASTIC ANGULAR DISTRIBUTION
	10-NE-22	104		1.900+ 0	3.430+ 0	56 347	82	NEUTRON EMISSION ANGULAR DISTRIBUTION
	82-PB-NAT	104		3.700+ 0	1.500+ 0	55 481	46	NEUTRON EMISSION ANGULAR DISTRIBUTION
N	24-CR-NAT	104	10	1.436+ 1	1.436+ 1	72 4072	5	NEUTRON EMISSION ANGULAR DISTRIBUTION
N	25-MN-55	104	10	1.436+ 1	1.436+ 1	72 4072	10	NEUTRON EMISSION ANGULAR DISTRIBUTION
N	26-Fe-NAT	104	10	1.436+ 1	1.436+ 1	72 4072	10	NEUTRON EMISSION ANGULAR DISTRIBUTION
N	27-CO-59	104	10	1.436+ 1	1.436+ 1	72 4072	10	NEUTRON EMISSION ANGULAR DISTRIBUTION
N	28-NI-NAT	104	10	1.436+ 1	1.436+ 1	72 4072	5	NEUTRON EMISSION ANGULAR DISTRIBUTION
N	39-Y -89	104	10	1.436+ 1	1.436+ 1	72 4072	5	NEUTRON EMISSION ANGULAR DISTRIBUTION
N	40-ZR-NAT	104	10	1.436+ 1	1.436+ 1	72 4072	20	NEUTRON EMISSION ANGULAR DISTRIBUTION
N	41-NB-93	104	10	1.436+ 1	1.436+ 1	72 4072	15	NEUTRON EMISSION ANGULAR DISTRIBUTION
N	74-W-NAT	104	10	1.436+ 1	1.436+ 1	72 4072	25	NEUTRON EMISSION ANGULAR DISTRIBUTION
N	83-BI-209	104	10	1.436+ 1	1.436+ 1	72 4072	20	NEUTRON EMISSION ANGULAR DISTRIBUTION
	H20	105		6.300+ 9	2.200+ 5	69 1947	993	TOTAL SCATTERING ANGULAR DISTRIBUTION
	3-LI-7	105		1.400+ 1	1.400+ 1	65 1639	13	TOTAL SCATTERING ANGULAR DISTRIBUTION
N	3-LI-7	105		1.410+ 1	1.410+ 1	71 3734	14	TOTAL SCATTERING ANGULAR DISTRIBUTION
	5-B -NAT	105		8.100+ 1	1.780+ 0	56 231	60	TOTAL SCATTERING ANGULAR DISTRIBUTION
	6-C -NAT	105		8.300+ 3	8.300+ 3	62 1657	5	TOTAL SCATTERING ANGULAR DISTRIBUTION
	8-O -18	105		2.930+ 0	4.150+ 0	64 1903	131	TOTAL SCATTERING ANGULAR DISTRIBUTION
	9-F -19	105		2.000+ 1	2.200+ 0	64 3058	135	TOTAL SCATTERING ANGULAR DISTRIBUTION
	9-F -19	105		1.410+ 1	1.410+ 1	68 2692	13	TOTAL SCATTERING ANGULAR DISTRIBUTION
	11-NA-23	105		2.000+ 1	2.200+ 0	64 3058	120	TOTAL SCATTERING ANGULAR DISTRIBUTION
	11-NA-23	105		4.700+ 1	1.360+ 0	56 231	60	TOTAL SCATTERING ANGULAR DISTRIBUTION
	12-PG-NAT	105		4.500+ 1	2.200+ 0	70 3055	95	TOTAL SCATTERING ANGULAR DISTRIBUTION
	12-PG-NAT	105		7.200+ 1	1.360+ 0	56 231	40	TOTAL SCATTERING ANGULAR DISTRIBUTION
	12-PG-NAT	105		2.770+ 0	2.770+ 0	55 1705	14	TOTAL SCATTERING ANGULAR DISTRIBUTION
	13-AL-27	105		2.000+ 1	2.200+ 0	64 3058	120	TOTAL SCATTERING ANGULAR DISTRIBUTION
	13-AL-27	105		8.800+ 1	1.440+ 0	56 231	40	TOTAL SCATTERING ANGULAR DISTRIBUTION
	14-SI-NAT	105		3.900+ 2	2.200+ 0	62 1757	155	TOTAL SCATTERING ANGULAR DISTRIBUTION
	15-P -31	105		2.000+ 1	2.200+ 0	64 3058	124	TOTAL SCATTERING ANGULAR DISTRIBUTION
	15-P -31	105		1.300+ 0	1.780+ 0	56 231	35	TOTAL SCATTERING ANGULAR DISTRIBUTION
	23-V -NAT	105		4.900+ 1	1.780+ 0	56 231	65	TOTAL SCATTERING ANGULAR DISTRIBUTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 105

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 105

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
24-CR-NAT	105		8.900-1	1.780+0	56 231	60	TOTAL SCATTERING ANGULAR DISTRIBUTION
26-FE-NAT	105		3.500-1	9.650-1	69 3052	210	TOTAL SCATTERING ANGULAR DISTRIBUTION
26-FE-NAT	105		9.000-1	1.780+0	56 231	60	TOTAL SCATTERING ANGULAR DISTRIBUTION
28-NI-NAT	105		8.800-1	1.440+0	56 231	40	TOTAL SCATTERING ANGULAR DISTRIBUTION
29-CU-NAT	105		8.300-1	2.250+0	60 571	100	TOTAL SCATTERING ANGULAR DISTRIBUTION
30-ZN-NAT	105		1.120+0	1.440+0	56 231	25	TOTAL SCATTERING ANGULAR DISTRIBUTION
34-SE-NAT	105		6.000-2	1.780+0	56 231	110	TOTAL SCATTERING ANGULAR DISTRIBUTION
40-ZR-NAT	105		9.600-1	1.440+0	56 231	35	TOTAL SCATTERING ANGULAR DISTRIBUTION
41-NB-93	105		8.900-1	1.780+0	56 231	60	TOTAL SCATTERING ANGULAR DISTRIBUTION
42-MO-NAT	105		3.900-1	1.360+0	56 231	45	TOTAL SCATTERING ANGULAR DISTRIBUTION
46-PD-NAT	105		4.900-1	1.780+0	56 231	85	TOTAL SCATTERING ANGULAR DISTRIBUTION
47-AG-NAT	105		6.000-2	1.440+0	56 231	85	TOTAL SCATTERING ANGULAR DISTRIBUTION
48-CO-NAT	105		3.000-2	1.360+0	56 231	65	TOTAL SCATTERING ANGULAR DISTRIBUTION
49-IN-115	105		6.600-1	1.780+0	56 231	75	TOTAL SCATTERING ANGULAR DISTRIBUTION
50-SN-NAT	105		5.000-2	2.250+0	60 571	248	TOTAL SCATTERING ANGULAR DISTRIBUTION
50-SN-NAT	105		6.000-2	1.440+0	56 231	90	TOTAL SCATTERING ANGULAR DISTRIBUTION
52-TE-NAT	105		4.900-1	1.780+0	56 231	85	TOTAL SCATTERING ANGULAR DISTRIBUTION
57-LA-NAT	105		8.000+0	8.000+0	68 2113	18	TOTAL SCATTERING ANGULAR DISTRIBUTION
59-PR-14	105		8.000+0	8.000+0	68 2113	19	TOTAL SCATTERING ANGULAR DISTRIBUTION
73-TA-NAT	105		6.000-2	1.370+0	56 231	60	TOTAL SCATTERING ANGULAR DISTRIBUTION
74-W-NAT	105		6.000-2	1.040+0	56 231	65	TOTAL SCATTERING ANGULAR DISTRIBUTION
78-PT-NAT	105		1.300-1	1.360+0	56 231	75	TOTAL SCATTERING ANGULAR DISTRIBUTION
79-AU-197	105		4.700-1	9.700-1	56 231	35	TOTAL SCATTERING ANGULAR DISTRIBUTION
81-TL-NAT	105		3.300-1	1.690+0	56 231	90	TOTAL SCATTERING ANGULAR DISTRIBUTION
82-PB-NAT	105		7.300-1	2.250+0	60 571	112	TOTAL SCATTERING ANGULAR DISTRIBUTION
83-BI-209	105		1.040+0	1.360+0	56 231	25	TOTAL SCATTERING ANGULAR DISTRIBUTION
90-TH-232	105		6.000-2	1.360+0	56 231	85	TOTAL SCATTERING ANGULAR DISTRIBUTION
92-U-NAT	105		5.000-2	2.250+0	60 571	248	TOTAL SCATTERING ANGULAR DISTRIBUTION
92-U-NAT	105		8.300-1	8.300-1	66 1259	10	TOTAL SCATTERING ANGULAR DISTRIBUTION
N 92-U-238	105		1.500+0	5.500+0	71 3845	118	TOTAL SCATTERING ANGULAR DISTRIBUTION
3-LI-7	105	1	1.400+1	1.400+1	62 1622	10	TOTAL SCATTERING ANGULAR DISTRIBUTION
3-LI-7	105	1	1.410+1	1.410+1	63 1633	16	TOTAL SCATTERING ANGULAR DISTRIBUTION
9-F-19	105	1	1.420+1	1.420+1	66 1597	11	TOTAL SCATTERING ANGULAR DISTRIBUTION
N 22-TI-NAT	105	1	5.230+0	5.230+0	73 3448	1	TOTAL SCATTERING ANGULAR DISTRIBUTION
N 62-SM-154	105	1	6.25+0	6.250+0	75 3836	21	TOTAL SCATTERING ANGULAR DISTRIBUTION
N 68-ER-NAT	105	1	2.020+0	3.550+0	72 3173	52	TOTAL SCATTERING ANGULAR DISTRIBUTION
N 74-W-NAT	105	1	4.340+0	8.560+0	73 3531	94	TOTAL SCATTERING ANGULAR DISTRIBUTION
N 92-U-238	105	1	4.340+0	4.920+0	73 3453	39	TOTAL SCATTERING ANGULAR DISTRIBUTION
94-PU-239	105	1	1.490-1	9.840-1	2 68 2089	72	TOTAL SCATTERING ANGULAR DISTRIBUTION
3-LI-7	105	8	1.400+1	1.400+1	62 1622	15	TOTAL SCATTERING ANGULAR DISTRIBUTION
3-LI-7	105	8	1.400+1	1.400+1	65 1639	13	TOTAL SCATTERING ANGULAR DISTRIBUTION
90-TH-232	105	8	2.000+0	2.000+0	65 1264	11	TOTAL SCATTERING ANGULAR DISTRIBUTION
92-U-NAT	105	8	2.000+0	2.000+0	58 397	15	TOTAL SCATTERING ANGULAR DISTRIBUTION
92-U-238	105	8	2.000+0	2.000+0	65 1264	11	TOTAL SCATTERING ANGULAR DISTRIBUTION
94-PU-239	105	6	1.302+0	1.565+0	2 68 2089	22	TOTAL SCATTERING ANGULAR DISTRIBUTION
47-AG-NAT	106	1	1.490+1	1.490+1	62 2166	22	NONELASTIC EMISSION ANGULAR DISTRIBUTION
48-CO-NAT	106	1	1.490+1	1.490+1	62 2166	21	NONELASTIC EMISSION ANGULAR DISTRIBUTION
73-TA-NAT	106	1	1.490+1	1.490+1	62 2166	23	NONELASTIC EMISSION ANGULAR DISTRIBUTION
74-W-NAT	106	1	1.490+1	1.490+1	62 2166	22	NONELASTIC EMISSION ANGULAR DISTRIBUTION
N 7-N-14	111		6.250+0	9.290+0	74 3541	40	N,N' ANGULAR DISTRIBUTION
N 9-F-19	111		1.410+1	1.410+1	68 2692	12	N,N' ANGULAR DISTRIBUTION
N 12-MG-24	111		1.510+1	1.510+1	71 3713	7	N,N' ANGULAR DISTRIBUTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-257 ***

C = 111

TARGET	CODE	S	E-MIN-KEV	E-MAX-KEV	REFERENCE	POINTS	REACTION DESCRIPTION
12-MG-26	111	1	510	1	71 3713	1	N,N
16-S-32	111	2	920	0	66 1551	52	ANGULAR DISTRIBUTION
23-TI-NAT	111	2	900	0	69 3000	9	ANGULAR DISTRIBUTION
23-TI-51	111	2	950	0	71 3799	48	ANGULAR DISTRIBUTION
24-CR-NAT	111	2	900	0	69 3000	8	ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	260	0	66 1832	63	ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	580	0	56 146	32	ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	1450	1	58 403	34	ANGULAR DISTRIBUTION
27-CO-59	111	4	400	0	56 1827	1	ANGULAR DISTRIBUTION
28-NI-NAT	111	4	400	0	56 1827	1	ANGULAR DISTRIBUTION
28-NI-NAT	111	1	1460	1	73 3536	10	ANGULAR DISTRIBUTION
29-CU-NAT	111	1	1450	1	58 403	26	ANGULAR DISTRIBUTION
30-ZN-NAT	111	5	920	0	66 1551	36	ANGULAR DISTRIBUTION
42-MO-NAT	111	4	400	0	56 1828	1	ANGULAR DISTRIBUTION
50-SN-NAT	111	1	1450	1	58 403	28	ANGULAR DISTRIBUTION
82-PB-NAT	111	1	1450	1	59 3662	1	ANGULAR DISTRIBUTION
83-BI-209	111	1	510	1	59 3662	1	ANGULAR DISTRIBUTION
3-LI-6	111	1	3350	0	7540	63	84
3-LI-6	111	1	4370	0	4370	71	4022
3-LI-6	111	1	4830	0	7500	68	1632
3-LI-6	111	1	1400	1	1400	65	1627
3-LI-6	111	1	1410	1	1410	71	3734
3-LI-7	111	1	1500	0	7540	63	84
3-LI-7	111	1	3350	0	7500	68	1632
3-LI-7	111	1	1400	1	1400	65	1639
3-LI-7	111	1	1400	1	1400	66	1640
3-LI-7	111	1	1410	1	1410	71	3734
4-BE-9	111	1	3000	0	5000	59	500
4-BE-9	111	1	7000	0	7000	64	17
4-BE-9	111	1	1400	1	1400	58	405
4-BE-9	111	1	1400	1	1400	66	2585
4-BE-9	111	1	1400	1	1400	68	3106
4-BE-9	111	1	1410	1	1410	71	3737
5-B-NAT	111	1	1400	1	1400	62	1060
5-B-10	111	2	032	0	4823	70	3794
5-B-10	111	7	020	0	69 2999	75	N,N
5-B-10	111	9	720	0	9720	70	3939
5-B-10	111	1	1410	1	1410	71	3736
5-B-11	111	3	177	0	4823	70	3794
5-B-11	111	7	550	0	69 2999	22	N,N
5-B-11	111	9	750	0	9720	70	3939
5-B-11	111	1	1410	1	1410	71	3736
6-C-NAT	111	9	200	0	9200	1	4041
6-C-NAT	111	1	1476	1	65 3697	1	N,N
6-C-NAT	111	5	500	1	58 3694	13	N,N
6-C-12	111	5	780	0	69 6693	124	N,N
6-C-12	111	6	000	0	62 1043	13	N,N
6-C-12	111	8	000	0	59 344	30	N,N
6-C-12	111	8	010	0	6760	69	3004
6-C-12	111	8	040	0	65 4940	13	N,N
6-C-12	111	1	7480	0	72 3247	13	N,N

TARGET CODE S E-MIN-KEV E-MAX-KEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E	MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
6-C-12	111	1	7.600+0	7.600+0	68 2011	12	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.400+1	1.400+1	61 1563	11	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.400+1	1.400+1	61 1568	13	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.400+1	1.400+1	62 1060	12	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.400+1	1.400+1	64 1661	37	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.400+1	1.400+1	66 1559	52	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.410+1	1.410+1	59 580	18	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.410+1	1.410+1	60 582	14	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.410+1	1.410+1	64 845	44	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.410+1	1.410+1	65 1639	38	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.410+1	1.410+1	66 1556	36	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.410+1	1.410+1	66 3732	38	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.460+1	1.460+1	63 1665	34	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.470+1	1.470+1	64 1660	14	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.480+1	1.480+1	62 1904	7	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.480+1	1.480+1	62 3686	7	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.480+1	1.480+1	63 3769	35	N,N'	ANGULAR DISTRIBUTION
6-C-12	111	1	1.737+1	1.737+1	79 3749	93	N,N'	ANGULAR DISTRIBUTION
7-N-14	111	1	6.010+0	6.580+0	61 1568	93	N,N'	ANGULAR DISTRIBUTION
7-N-14	111	1	1.400+1	1.400+1	61 1568	93	N,N'	ANGULAR DISTRIBUTION
7-N-14	111	1	1.400+1	1.400+1	63 761	23	N,N'	ANGULAR DISTRIBUTION
7-N-14	111	1	1.400+1	1.400+1	65 1674	25	N,N'	ANGULAR DISTRIBUTION
7-N-14	111	1	1.410+1	1.410+1	71 3739	40	N,N'	ANGULAR DISTRIBUTION
7-N-14	111	1	1.410+1	1.410+1	72 3222	26	N,N'	ANGULAR DISTRIBUTION
8-O-16	111	1	7.540+0	8.560+0	72 3222	26	N,N'	ANGULAR DISTRIBUTION
8-O-16	111	1	1.400+1	1.400+1	63 761	48	N,N'	ANGULAR DISTRIBUTION
8-O-16	111	1	1.410+1	1.410+1	66 1681	41	N,N'	ANGULAR DISTRIBUTION
9-F-19	111	1	5.650+1	5.650+1	61 1552	16	N,N'	ANGULAR DISTRIBUTION
9-F-19	111	1	2.450+0	2.450+0	56 478	2	N,N'	ANGULAR DISTRIBUTION
9-F-19	111	1	1.410+1	1.410+1	68 2692	12	N,N'	ANGULAR DISTRIBUTION
9-F-19	111	1	1.420+1	1.420+1	66 1687	39	N,N'	ANGULAR DISTRIBUTION
11-NA-23	111	1	9.800+1	3.970+0	62 714	55	N,N'	ANGULAR DISTRIBUTION
11-NA-23	111	1	2.450+0	2.450+0	56 475	1	N,N'	ANGULAR DISTRIBUTION
11-NA-23	111	1	3.490+0	4.000+0	51 572	27	N,N'	ANGULAR DISTRIBUTION
11-NA-23	111	1	4.370+0	4.370+0	71 4022	14	N,N'	ANGULAR DISTRIBUTION
12-MG-24	111	1	2.440+0	8.520+0	72 3228	370	N,N'	ANGULAR DISTRIBUTION
12-MG-24	111	1	2.500+0	2.450+0	58 476	1	N,N'	ANGULAR DISTRIBUTION
12-MG-24	111	1	2.500+0	8.560+0	70 3229	224	N,N'	ANGULAR DISTRIBUTION
12-MG-24	111	1	1.400+1	1.400+1	65 97	22	N,N'	ANGULAR DISTRIBUTION
12-MG-24	111	1	1.400+1	1.400+1	65 97	22	N,N'	ANGULAR DISTRIBUTION
12-MG-24	111	1	2.860+0	2.860+0	74 4067	30	N,N'	ANGULAR DISTRIBUTION
12-MG-24	111	1	1.410+1	1.410+1	94 8615	18	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	2.010+0	3.950+0	63 1012	64	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	2.450+0	2.450+0	56 476	61	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	2.760+0	2.760+0	63 820	8	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	3.500+0	4.800+0	61 1751	98	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	4.190+0	8.560+0	72 3230	478	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	4.400+0	4.400+0	56 486	3	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	4.810+0	8.030+0	69 3777	258	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	5.860+0	8.500+0	71 3554	27	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	7.970+0	9.050+0	72 3582	80	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	8.000+0	8.000+0	68 2749	39	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	8.970+0	8.970+0	73 3585	81	N,N'	ANGULAR DISTRIBUTION
13-AL-27	111	1	1.400+1	1.400+1	65 97	30	N,N'	ANGULAR DISTRIBUTION

07/04/76

EC5IL-1650 REACTION INDEX (REACTION NO. ORDERED)

C = 111

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
13-AL-27	111	1	1.420	1.420	65 1744	28	N,N
14-SI-NAT	111	1	4.000	0	59 2862	56	N,N
14-SI-NAT	111	1	6.100	0	66 1754	16	N,N
14-SI-NAT	111	1	8.920	0	73 3585	27	N,N
14-SI-NAT	111	1	9.800	0	72 3440	18	N,N
14-SI-NAT	111	1	1.400	1.400	65 97	18	N,N
14-SI-NAT	111	1	1.410	1.410	64 1913	2	N,N
14-SI-28	111	1	2.250	0	60 1756	101	N,N
14-SI-28	111	1	3.500	0	61 1751	41	N,N
14-SI-28	111	1	4.000	0	67 2591	151	N,N
14-SI-28	111	1	4.190	0	72 3231	243	N,N
14-SI-28	111	1	4.810	0	69 3777	130	N,N
14-SI-28	111	1	7.710	0	72 3582	44	N,N
14-SI-28	111	1	8.000	0	68 2749	13	N,N
14-SI-28	111	1	1.410	1.410	64 845	13	N,N
15-P-31	111	1	2.450	0	56 476	1	N,N
15-P-31	111	1	3.500	0	61 1751	64	N,N
15-P-31	111	1	7.970	0	72 3582	38	N,N
15-P-31	111	1	8.000	0	68 2749	24	N,N
15-P-31	111	1	1.400	1.400	65 97	6	N,N
15-P-31	111	1	1.420	1.420	65 1765	22	N,N
16-S-NAT	111	1	4.190	0	70 3175	256	N,N
16-S-NAT	111	1	9.800	0	72 3440	18	N,N
16-S-NAT	111	1	1.400	1.400	62 1060	13	N,N
16-S-NAT	111	1	1.400	1.400	65 97	14	N,N
16-S-32	111	1	3.500	0	61 1751	43	N,N
16-S-32	111	1	4.000	0	60 1756	37	N,N
16-S-32	111	1	4.480	0	66 1551	168	N,N
16-S-32	111	1	4.480	0	69 3777	155	N,N
16-S-32	111	1	7.970	0	72 3582	28	N,N
16-S-32	111	1	8.000	0	68 2749	13	N,N
16-S-32	111	1	1.400	1.400	61 1668	12	N,N
16-S-32	111	1	1.410	1.410	64 845	32	N,N
16-S-32	111	1	1.460	1.460	65 1766	13	N,N
19-K-39	111	1	3.760	0	65 1785	42	N,N
20-CA-NAT	111	1	5.000	0	70 3182	68	N,N
20-CA-40	111	1	1.410	1.410	64 2016	13	N,N
21-SC-45	111	1	5.600	1.400	70 3295	198	N,N
22-TI-NAT	111	1	4.070	0	73 3448	197	N,N
22-TI-48	111	1	2.450	0	56 476	1	N,N
22-TI-48	111	1	1.400	1.400	71 3406	11	N,N
23-V-NAT	111	1	2.450	0	56 476	2	N,N
23-V-NAT	111	1	2.470	0	70 3360	227	N,N
23-V-NAT	111	1	4.190	0	70 3581	197	N,N
23-V-51	111	1	2.350	0	65 1809	43	N,N
24-CR-NAT	111	1	2.340	0	57 414	6	N,N
24-CR-NAT	111	1	2.450	0	56 476	1	N,N
24-CR-NAT	111	1	4.070	0	74 3550	218	N,N
24-CR-NAT	111	1	4.370	0	71 4022	10	N,N
24-CR-NAT	111	1	1.400	1.400	65 97	22	N,N
24-CR-50	111	1	8.930	1	73 3564	37	N,N
24-CR-52	111	1	1.455	0	73 3564	97	N,N

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 111

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C - 111

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
24-CR-52	111	1	4.400*	0	56 486	3	N,N' ANGULAR DISTRIBUTION
24-CR-52	111	1	4.400*	0	8.560*	82	N,N' ANGULAR DISTRIBUTION
24-CR-52	111	1	6.440*	0	74 3550	34	N,N' ANGULAR DISTRIBUTION
24-CR-53	111	1	8.230*	0	73 3584	197	N,N' ANGULAR DISTRIBUTION
24-CR-54	111	1	8.330*	0	73 3584	37	N,N' ANGULAR DISTRIBUTION
26-MN-55	111	1	2.450*	0	56 476	3	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	9.370*	0	68 1546	276	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	1.870*	0	52 1837	10	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	1.950*	0	64 1743	10	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.010*	0	85 1016	75	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.340*	0	57 414	5	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	4.400*	0	55 1033	4	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	4.400*	0	56 1827	51	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	4.560*	0	66 1831	51	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	6.300*	0	72 1826	15	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	8.370*	0	72 1826	23	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.550*	0	71 3214	137	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	4.800*	0	74 3589	333	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	5.500*	0	66 2583	119	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	1.370*	0	70 3207	225	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	1.426*	0	2.1524	1	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.450*	0	56 476	1	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.450*	0	68 1988	85	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	5.050*	0	71 3214	95	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	5.050*	0	71 3214	11	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	1.400*	0	72 3405	3	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.450*	0	56 476	10	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	4.190*	0	6.440*	43	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.010*	0	6.440*	10	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	4.370*	0	74 3480	96	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	4.370*	0	71 4022	10	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	8.970*	0	73 3585	17	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	1.400*	0	65 97	13	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	1.410*	0	67 2341	18	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.010*	0	66 2589	50	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.330*	0	67 2583	3	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.360*	0	72 4025	7	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	5.050*	0	71 3214	80	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.010*	0	66 2589	62	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.330*	0	67 2583	5	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.360*	0	72 4025	125	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	4.070*	0	74 3460	40	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	5.050*	0	71 3214	61	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	6.440*	0	70 3172	18	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.010*	0	66 2589	7	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.360*	0	72 4025	36	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.450*	0	56 476	5	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.450*	0	70 3776	13	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.450*	0	74 3831	45	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	5.500*	0	70 3776	13	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	2.330*	0	67 2583	10	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	5.500*	0	74 3831	56	N,N' ANGULAR DISTRIBUTION
26-Fe-NAT	111	1	1.400*	0	65 97	20	N,N' ANGULAR DISTRIBUTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
30-ZN-NAT	111	1	2.450+ 0	2.450+ 0	56 476	1 N.N.	ANGULAR DISTRIBUTION
30-ZN-NAT	111	1	4.480+ 0	5.920+ 0	66 1551	51 N.N.	ANGULAR DISTRIBUTION
33-AS-75	111	1	2.450+ 0	2.450+ 0	56 476	3 N.N.	ANGULAR DISTRIBUTION
34-SE-NAT	111	1	2.450+ 0	2.450+ 0	56 476	2 N.N.	ANGULAR DISTRIBUTION
N 34-SE-76	111	1	6.000+ 0	8.000+ 0	75 3903	36 N.N.	ANGULAR DISTRIBUTION
N 34-SE-78	111	1	8.000+ 0	8.000+ 0	75 3903	17 N.N.	ANGULAR DISTRIBUTION
N 34-SE-80	111	1	8.000+ 0	8.000+ 0	75 3903	15 N.N.	ANGULAR DISTRIBUTION
N 34-SE-82	111	1	6.000+ 0	8.000+ 0	75 3903	32 N.N.	ANGULAR DISTRIBUTION
N 37-PB-85	111	1	2.800+ 0	1.250+ 0	73 3991	98 N.N.	ANGULAR DISTRIBUTION
N 37-PB-87	111	1	5.600+ 0	1.250+ 0	73 3991	40 N.N.	ANGULAR DISTRIBUTION
N 38-SR-NAT	111	1	1.476+ 0	1.476+ 0	65 3697	16 N.N.	ANGULAR DISTRIBUTION
39-Y -89	111	1	2.200+ 0	2.200+ 0	58 497	13 N.N.	ANGULAR DISTRIBUTION
39-Y -89	111	1	3.770+ 0	3.770+ 0	65 1809	39 N.N.	ANGULAR DISTRIBUTION
N 39-Y -89	111	1	4.180+ 0	8.550+ 0	70 3553	74 N.N.	ANGULAR DISTRIBUTION
N 39-Y -89	111	1	1.400+ 0	1.400+ 0	72 3406	4 N.N.	ANGULAR DISTRIBUTION
40-ZR-NAT	111	1	2.450+ 0	2.450+ 0	56 476	1 N.N.	ANGULAR DISTRIBUTION
40-ZR-NAT	111	1	4.400+ 0	4.400+ 0	55 1033	1 N.N.	ANGULAR DISTRIBUTION
N 40-ZR-NAT	111	1	1.400+ 0	1.400+ 0	71 3406	20 N.N.	ANGULAR DISTRIBUTION
40-ZR-NAT	111	1	1.410+ 0	1.410+ 0	67 2341	15 N.N.	ANGULAR DISTRIBUTION
N 40-ZR-92	111	1	1.500+ 0	1.500+ 0	74 3586	14 N.N.	ANGULAR DISTRIBUTION
N 40-ZR-94	111	1	1.500+ 0	1.500+ 0	74 3586	14 N.N.	ANGULAR DISTRIBUTION
42-MO-NAT	111	1	2.450+ 0	2.450+ 0	56 476	2 N.N.	ANGULAR DISTRIBUTION
42-MO-NAT	111	1	4.400+ 0	4.400+ 0	56 1828	1 N.N.	ANGULAR DISTRIBUTION
N 42-MO-94	111	1	1.120+ 0	1.500+ 0	72 3439	195 N.N.	ANGULAR DISTRIBUTION
N 42-MO-94	111	1	1.500+ 0	1.500+ 0	74 3586	14 N.N.	ANGULAR DISTRIBUTION
N 42-MO-96	111	1	1.035+ 0	1.500+ 0	72 3439	276 N.N.	ANGULAR DISTRIBUTION
N 42-MO-90	111	1	1.500+ 0	1.500+ 0	74 3586	28 N.N.	ANGULAR DISTRIBUTION
N 42-MO-98	111	1	1.020+ 0	1.500+ 0	72 3439	413 N.N.	ANGULAR DISTRIBUTION
N 42-MO-100	111	1	1.000+ 0	1.500+ 0	72 3439	343 N.N.	ANGULAR DISTRIBUTION
N 42-MO-100	111	1	1.500+ 0	1.500+ 0	74 3586	28 N.N.	ANGULAR DISTRIBUTION
48-CD-NAT	111	1	2.450+ 0	2.450+ 0	56 476	3 N.N.	ANGULAR DISTRIBUTION
48-CD-NAT	111	1	1.400+ 0	1.400+ 0	65 97	11 N.N.	ANGULAR DISTRIBUTION
50-SN-NAT	111	1	2.450+ 0	2.450+ 0	56 476	1 N.N.	ANGULAR DISTRIBUTION
50-SN-NAT	111	1	1.400+ 0	1.400+ 0	65 97	18 N.N.	ANGULAR DISTRIBUTION
N 50-SN-120	111	1	2.050+ 0	3.600+ 0	72 3766	104 N.N.	ANGULAR DISTRIBUTION
51-SB-NAT	111	1	1.400+ 0	1.400+ 0	65 97	17 N.N.	ANGULAR DISTRIBUTION
52-TE-NAT	111	1	2.450+ 0	2.450+ 0	56 476	1 N.N.	ANGULAR DISTRIBUTION
N 55-CS-133	111	1	2.400+ 0	1.250+ 0	73 3991	133 N.N.	ANGULAR DISTRIBUTION
N 57-LA-139	111	1	3.550+ 0	2.128+ 0	69 2883	87 N.N.	ANGULAR DISTRIBUTION
N 57-LA-139	111	1	1.500+ 0	3.578+ 0	72 3773	33 N.N.	ANGULAR DISTRIBUTION
N 59-PR-141	111	1	2.600+ 0	2.226+ 0	69 2883	121 N.N.	ANGULAR DISTRIBUTION
N 59-PR-141	111	1	1.500+ 0	3.578+ 0	72 3773	128 N.N.	ANGULAR DISTRIBUTION
N 64-GD-NAT	111	1	1.520+ 0	3.600+ 0	72 3766	107 N.N.	ANGULAR DISTRIBUTION
73-TA-NAT	111	1	1.400+ 0	1.400+ 0	65 1639	14 N.N.	ANGULAR DISTRIBUTION
N 73-TA-NAT	111	1	1.410+ 0	1.410+ 0	66 3732	14 N.N.	ANGULAR DISTRIBUTION
73-TA-181	111	1	4.200+ 0	9.930+ 0	61 1652	40 N.N.	ANGULAR DISTRIBUTION
74-W -NAT	111	1	6.990+ 0	2.240+ 0	66 2589	59 N.N.	ANGULAR DISTRIBUTION
74-W -NAT	111	1	1.370+ 0	2.010+ 0	66 1551	38 N.N.	ANGULAR DISTRIBUTION
79-AU-197	111	1	1.270+ 0	1.500+ 0	68 2038	91 N.N.	ANGULAR DISTRIBUTION
82-PB-NAT	111	1	2.340+ 0	2.340+ 0	57 4114	12 N.N.	ANGULAR DISTRIBUTION
82-PB-NAT	111	1	6.000+ 0	6.000+ 0	66 1971	13 N.N.	ANGULAR DISTRIBUTION
82-PB-NAT	111	1	1.400+ 0	1.400+ 0	65 97	17 N.N.	ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 82-P8-207	111	1	1.376+ 0	3.560+ 0	73 377/5	421	N,N' ANGULAR DISTRIBUTION
N 82-P8-207	111	1	1.500+ 0	8.500+ 0	74 354/9	43	N,N' ANGULAR DISTRIBUTION
N 82-P8-208	111	1	1.500+ 0	8.500+ 0	74 354/9	124	N,N' ANGULAR DISTRIBUTION
RADIO LEAD	111	1	2.200+ 0	2.200+ 0	58 497	11	N,N' ANGULAR DISTRIBUTION
RADIO LEAD	111	1	2.450+ 0	2.450+ 0	56 476	3	N,N' ANGULAR DISTRIBUTION
RADIO LEAD	111	1	8.000+ 0	9.000+ 0	66 1571	18	N,N' ANGULAR DISTRIBUTION
N 83-81-209	111	1	1.450+ 0	3.550+ 0	72 377/3	117	N,N' ANGULAR DISTRIBUTION
N 83-81-209	111	1	1.450+ 0	2.450+ 0	56 476	12	N,N' ANGULAR DISTRIBUTION
N 83-81-209	111	1	4.400+ 0	4.400+ 0	56 486	1	N,N' ANGULAR DISTRIBUTION
N 83-81-209	111	1	8.000+ 0	8.000+ 0	66 1971	19	N,N' ANGULAR DISTRIBUTION
N 83-81-209	111	1	1.400+ 0	1.400+ 0	65 57	12	N,N' ANGULAR DISTRIBUTION
N 83-81-209	111	1	1.410+ 0	1.410+ 0	73 375/4	37	N,N' ANGULAR DISTRIBUTION
N 83-81-209	111	1	1.476+ 0	1.476+ 0	65 303/7	24	N,N' ANGULAR DISTRIBUTION
N 90-TH-232	111	1	1.350+ 0	1.560+ 0	62 693	20	N,N' ANGULAR DISTRIBUTION
N 90-TH-232	111	1	1.350+ 0	1.560+ 0	58 1274	3	N,N' ANGULAR DISTRIBUTION
N 92-U-238	111	1	1.060+ 0	1.620+ 0	66 1267	95	N,N' ANGULAR DISTRIBUTION
N 92-U-238	111	1	1.250+ 0	1.630+ 0	70 328/3	93	N,N' ANGULAR DISTRIBUTION
N 92-U-238	111	1	3.500+ 0	1.630+ 0	58 397	18	N,N' ANGULAR DISTRIBUTION
N 92-U-238	111	1	8.910+ 0	2.730+ 0	75 384/4	4	N,N' ANGULAR DISTRIBUTION
N 92-U-238	111	1	1.350+ 0	1.560+ 0	58 1274	4	N,N' ANGULAR DISTRIBUTION
N 92-U-238	111	1	2.450+ 0	2.730+ 0	58 476	30	N,N' ANGULAR DISTRIBUTION
N 94-PH-339	111	1	2.450+ 0	2.730+ 0	58 476	285	N,N' ANGULAR DISTRIBUTION
N 3-11-NAT	111	7	5.380+ 0	2.057+ 0	74 358/8	9	N,N' ANGULAR DISTRIBUTION
N 6-C-12	111	7	1.500+ 0	1.500+ 0	69 358/4	32	N,N' ANGULAR DISTRIBUTION
N 7-N-14	111	7	1.510+ 0	1.510+ 0	71 371/3	9	N,N' ANGULAR DISTRIBUTION
N 8-0-16	111	7	6.580+ 0	8.200+ 0	70 371/3	32	N,N' ANGULAR DISTRIBUTION
N 8-0-16	111	7	1.510+ 0	1.510+ 0	71 371/3	254	N,N' ANGULAR DISTRIBUTION
N 11-NA-23	111	7	6.300+ 0	8.800+ 0	73 394/4	15	N,N' ANGULAR DISTRIBUTION
N 13-A1-27	111	7	1.510+ 0	1.510+ 0	71 371/3	2	N,N' ANGULAR DISTRIBUTION
N 22-T1-48	111	7	2.900+ 0	2.800+ 0	65 171/5	1	N,N' ANGULAR DISTRIBUTION
N 22-T1-50	111	7	2.900+ 0	2.800+ 0	65 171/5	1	N,N' ANGULAR DISTRIBUTION
N 23-V-51	111	7	1.100+ 0	4.500+ 0	72 359/0	110	N,N' ANGULAR DISTRIBUTION
N 25-HN-55	111	7	1.000+ 0	3.600+ 0	72 359/0	86	N,N' ANGULAR DISTRIBUTION
N 25-HN-55	111	7	2.500+ 0	2.500+ 0	55 215/9	7	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	1.650+ 0	1.650+ 0	56 146	11	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	2.200+ 0	2.200+ 0	58 497	13	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	2.500+ 0	2.500+ 0	55 215/9	3	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	2.800+ 0	2.800+ 0	65 171/5	1	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	2.900+ 0	2.900+ 0	57 416	1	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	3.110+ 0	4.720+ 0	71 172/7	55	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	1.455+ 0	3.962+ 0	75 388/9	56	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	2.800+ 0	2.800+ 0	65 171/5	1	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	8.700+ 0	3.962+ 0	75 388/9	144	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	2.500+ 0	2.152+ 0	70 320/7	225	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	2.500+ 0	1.410+ 0	74 394/1	291	N,N' ANGULAR DISTRIBUTION
N 26-FE-NAT	111	7	2.800+ 0	2.800+ 0	65 171/5	3	N,N' ANGULAR DISTRIBUTION
N 28-N1-59	111	7	8.310+ 0	3.962+ 0	75 388/9	36	N,N' ANGULAR DISTRIBUTION
N 28-N1-59	111	7	1.350+ 0	8.800+ 0	73 394/4	39	N,N' ANGULAR DISTRIBUTION
N 28-N1-59	111	7	1.350+ 0	1.430+ 0	69 377/7	2	N,N' ANGULAR DISTRIBUTION
N 28-N1-59	111	7	8.310+ 0	8.800+ 0	73 394/4	46	N,N' ANGULAR DISTRIBUTION
N 29-CU-NAT	111	7	3.110+ 0	4.720+ 0	71 172/7	62	N,N' ANGULAR DISTRIBUTION
N 30-ZN-NAT	111	7	3.110+ 0	4.720+ 0	71 172/7	40	N,N' ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECS1--500 REACTION INDEX (REACTION NO. ORDERED)

C = 111

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
31-04-69	111	7	6.500-	1.780+	59 2688	130	N,N
31-04-71	111	7	6.500-	1.780+	59 2688	140	N,N
32-0E-NAT	111	7	3.110+	4.720+	71 1327	38	N,N
34-SE-NAT	111	7	3.110+	4.720+	71 1327	31	N,N
34-SE-76	111	7	2.000+	4.100+	75 3911	310	N,N
34-SE-78	111	7	2.500+	4.100+	75 3911	251	N,N
34-SE-80	111	7	2.000+	4.100+	75 3911	240	N,N
34-SE-82	111	7	2.500+	4.100+	75 3911	154	N,N
41-NB-93	111	7	1.700+	3.100+	66 2130	23	N,N
45-RB-103	111	7	2.500+	2.500+	55 2159	25	N,N
55-CS-133	111	7	5.480-	3.670-	72 3753	305	N,N
79-AU-197	111	7	1.000+	2.200+	71 3474	135	N,N
82-PB-208	111	7	3.100+	5.250+	74 3623	40	N,N
83-BI-209	111	7	2.900+	2.900+	57 416	40	N,N
5-B-NAT	111	8	1.400+	1.400+	62 1050	28	N,N
5-B-10	111	8	9.720+	9.720+	70 3938	25	N,N
5-B-11	111	8	1.410+	1.410+	71 3735	51	N,N
5-B-12	111	8	9.720+	9.720+	70 3938	5	N,N
5-B-13	111	8	1.410+	1.410+	71 3735	15	N,N
7-N-14	111	8	1.410+	1.410+	71 3735	45	N,N
13-AL-27	111	8	5.960+	8.030+	69 3777	49	N,N
13-AL-27	111	8	7.600+	8.560+	72 3230	17	N,N
14-SI-28	111	8	8.030+	8.030+	69 3777	13	N,N
16-S-NAT	111	8	6.000+	8.520+	70 3175	25	N,N
16-S-NAT	111	8	1.400+	1.400+	62 1050	39	N,N
16-S-32	111	8	6.970+	7.990+	69 3777	25	N,N
20-CI-NAT	111	8	6.000+	8.520+	70 3182	69	N,N
22-TI-NAT	111	9	1.065+	1.500+	70 3128	140	N,N
22-TI-NAT	111	9	4.190+	8.560+	73 3448	94	N,N
26-FC-NAT	111	8	4.190+	8.560+	70 3171	408	N,N
26-FC-56	111	8	5.050+	5.590+	71 3214	19	N,N
27-CO-59	111	8	4.190+	8.560+	70 3170	105	N,N
28-NI-NAT	111	8	5.050+	5.590+	56 476	1	N,N
28-NI-58	111	8	5.050+	5.590+	71 3214	20	N,N
28-NI-60	111	8	5.050+	5.590+	71 3214	20	N,N
28-NI-60	111	8	6.440+	6.560+	70 3172	368	N,N
28-NI-NAT	111	8	2.240+	2.240+	70 3776	13	N,N
39-Y-89	111	8	3.770+	3.770+	65 1809	26	N,N
57-LA-139	111	8	2.030+	3.578+	72 3773	95	N,N
59-PB-141	111	8	2.030+	3.578+	72 3773	51	N,N
82-PB-206	111	8	6.000+	8.500+	74 3549	13	N,N
82-PB-207	111	8	5.500+	3.560+	73 3775	13	N,N
82-PB-208	111	8	5.500+	7.000+	74 3549	28	N,N
83-BI-209	111	8	1.080+	1.500+	69 2515	65	N,N
90-TM-232	111	8	3.060+	3.550+	71 3773	26	N,N
92-U-238	111	8	1.350+	1.580+	59 1274	2	N,N
92-U-238	111	8	1.500+	2.300+	71 3645	119	N,N
92-U-238	111	8	2.000+	2.000+	58 397	2	N,N
94-PD-239	111	8	6.680+	1.334+	65 264	18	N,N
					2 68 2089	5	N,N

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 111

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 111

	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION	DESCRIPTION
	16-S	-32	111 10	1.460+ 1	1.460+ 1	65 1766	6 N,N'		ANGULAR DISTRIBUTION
C	16-S	-32	111 10	1.460+ 1	1.460+ 1	66 1766	7 N,N'		ANGULAR DISTRIBUTION
N	24-CR-NAT	111 10	1.436+ 1	1.436+ 1	72 4072	20 N,N'			ANGULAR DISTRIBUTION
N	25-MN-55	111 10	1.436+ 1	1.436+ 1	72 4072	15 N,N'			ANGULAR DISTRIBUTION
N	26-FE-NAT	111 10	1.436+ 1	1.436+ 1	72 4072	15 N,N'			ANGULAR DISTRIBUTION
N	27-CO-59	111 10	1.436+ 1	1.436+ 1	72 4072	15 N,N'			ANGULAR DISTRIBUTION
N	28-NI-NAT	111 10	1.436+ 1	1.436+ 1	72 4072	20 N,N'			ANGULAR DISTRIBUTION
N	29-CU-NAT	111 10	1.436+ 1	1.436+ 1	72 4072	25 N,N'			ANGULAR DISTRIBUTION
N	39-Y	-89	111 10	1.436+ 1	1.436+ 1	72 4072	20 N,N'		ANGULAR DISTRIBUTION
N	40-ZR-NAT	111 10	1.436+ 1	1.436+ 1	72 4072	5 N,N'			ANGULAR DISTRIBUTION
N	41-NB-93	111 10	1.436+ 1	1.436+ 1	72 4072	10 N,N'			ANGULAR DISTRIBUTION
	22-TI-48	111 81	2.450+ 0	2.450+ 0	56 476	9 N,N'			ANGULAR DISTRIBUTION
	26-FE-56	111 81	2.450+ 0	2.450+ 0	56 476	15 N,N'			ANGULAR DISTRIBUTION
	82-PB-208	111 81	3.960+ 0	3.960+ 0	63 1014	13 N,N'			ANGULAR DISTRIBUTION
	92-U-238	111 81	2.000+ 1	1.100+ 0	70 3283	36 N,N'			ANGULAR DISTRIBUTION
	8-O	-16	111 87	6.870+ 0	7.820+ 0	70 3710	19 N,N'		ANGULAR DISTRIBUTION
N	55-CS-133	111 87	8.300+ 1	1.160+ 0	72 3753	149 N,N'			ANGULAR DISTRIBUTION
N	83-BI-209	111 87	1.170+ 0	1.915+ 0	67 3849	33 N,N'			ANGULAR DISTRIBUTION
	28-NI-NAT	111 88	2.450+ 0	2.450+ 0	56 476	9 N,N'			ANGULAR DISTRIBUTION
	1-H	-2	112	1.410+ 1	1.410+ 1	66 2586	12 N,2N		ANGULAR DISTRIBUTION
N	1-H	-2	112	1.410+ 1	1.410+ 1	69 3770	11 N,2N		ANGULAR DISTRIBUTION
	4-BE-9	112	3.700+ 0	3.700+ 0	58 424	1 N,2N			ANGULAR DISTRIBUTION
	4-BE-9	112	7.000+ 0	7.000+ 0	64 17	12 N,2N			ANGULAR DISTRIBUTION
N	82-PB-208	112	1.510+ 1	1.510+ 1	89 3662	1 N,2N			ANGULAR DISTRIBUTION
	13-AL-27	114 7	1.510+ 1	1.510+ 1	71 3713	1 N,N'P			ANGULAR DISTRIBUTION
	26-FE-54	118	1.480+ 1	1.480+ 1	63 2169	1 N,N'ALPHA			ANGULAR DISTRIBUTION
	29-CU-63	118	1.480+ 1	1.480+ 1	63 2169	1 N,N'ALPHA			ANGULAR DISTRIBUTION
	30-ZN-64	118	1.480+ 1	1.480+ 1	63 2169	1 N,N'ALPHA			ANGULAR DISTRIBUTION
	90-TH-232	122	1.410+ 1	1.410+ 1	70 3303	21 N,F			ANGULAR DISTRIBUTION
	92-U-238	122	1.410+ 1	1.410+ 1	70 3303	21 N,F			ANGULAR DISTRIBUTION
	92-U-238	122	1.470+ 1	1.470+ 1	67 3294	8 N,F			ANGULAR DISTRIBUTION
N	92-U-238	122 90	1.500+ 0	2.300+ 0	71 3645	3 N,F			ANGULAR DISTRIBUTION
	82-PB-206	123 7	1.580+ 0	8.450+ 0	70 3361	24 N,GAMMA			ANGULAR DISTRIBUTION
	28-NI-NAT	123 10	9.000+ 1	2.300+ 0	68 3359	10 N,GAMMA			ANGULAR DISTRIBUTION
	28-NI-58	123 10	9.000+ 1	8.300+ 0	68 3359	10 N,GAMMA			ANGULAR DISTRIBUTION
	83-BI-209	123 10	4.700+ 0	8.300+ 0	68 3359	5 N,GAMMA			ANGULAR DISTRIBUTION
	2-HE-3	124	4.000+ 0	4.000+ 0	63 839	1 N,X GAMMA			ANGULAR DISTRIBUTION
N	6-C-NAT	124	4.782+ 0	1.945+ 1	73 3842	245 N,X GAMMA			ANGULAR DISTRIBUTION
	6-C-12	124	1.400+ 1	1.400+ 1	58 405	12 N,X GAMMA			ANGULAR DISTRIBUTION
	12-MG-24	124	1.430+ 1	1.430+ 1	67 1710	1 N,X GAMMA			ANGULAR DISTRIBUTION
N	74-W-NAT	124	8.000+ 0	8.000+ 0	1 69 3501	13 N,X GAMMA			ANGULAR DISTRIBUTION
	92-U-235	124	1.090+ 0	1.480+ 1	66 1027	6 N,X GAMMA			ANGULAR DISTRIBUTION
	92-U-238	124	1.090+ 0	1.480+ 1	66 1027	6 N,X GAMMA			ANGULAR DISTRIBUTION
	94-PU-239	124	1.090+ 0	1.480+ 1	66 1027	6 N,X GAMMA			ANGULAR DISTRIBUTION
N	6-C-NAT	124 1	1.400+ 1	1.400+ 1	74 3544	4 N,X GAMMA			ANGULAR DISTRIBUTION
N	12-MG-NAT	124 1	1.400+ 1	1.400+ 1	74 3544	4 N,X GAMMA			ANGULAR DISTRIBUTION
N	13-AL-27	124 1	1.047+ 0	4.471+ 0	73 3617	340 N,X GAMMA			ANGULAR DISTRIBUTION
N	13-AL-27	124 1	1.400+ 1	1.400+ 1	74 3544	5 N,X GAMMA			ANGULAR DISTRIBUTION
N	22-TI-NAT	124 1	4.900+ 0	5.900+ 0	74 3536	209 N,X GAMMA			ANGULAR DISTRIBUTION
N	24-CR-NAT	124 1	1.400+ 1	1.400+ 1	74 3544	1 N,X GAMMA			ANGULAR DISTRIBUTION
N	26-FE-NAT	124 1	1.400+ 1	1.400+ 1	74 3544	4 N,X GAMMA			ANGULAR DISTRIBUTION
N	3-LI-NAT	124 7	1.000+ 0	1.480+ 1	63 1723	3 N,X GAMMA			ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 124

TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION	
4-SE-9	124	7	1.4E+0	1.4E+0	1	N X GAMMA	ANGULAR DISTRIBUTION	
5-9-10	124	7	3.00E+0	4.00E+0	68 1019	23	N X GAMMA	ANGULAR DISTRIBUTION
5-B-10	124	7	1.45E+0	1.48E+0	70 3324	31	N X GAMMA	ANGULAR DISTRIBUTION
5-B-10	124	7	3.50E+0	4.75E+0	64 1730	18	N X GAMMA	ANGULAR DISTRIBUTION
5-B-11	124	7	3.50E+0	4.75E+0	64 1730	4	N X GAMMA	ANGULAR DISTRIBUTION
5-B-11	124	7	1.50E+0	1.50E+0	60 1720	1	N X GAMMA	ANGULAR DISTRIBUTION
6-C-NAT	124	7	5.00E+0	1.48E+1	69 1019	2	N X GAMMA	ANGULAR DISTRIBUTION
6-C-12	124	7	1.01E+0	1.01E+0	55 579	1	N X GAMMA	ANGULAR DISTRIBUTION
6-C-12	124	7	4.83E+0	5.77E+0	59 783	119	N X GAMMA	ANGULAR DISTRIBUTION
6-C-12	124	7	5.83E+0	7.50E+0	70 1497	34	N X GAMMA	ANGULAR DISTRIBUTION
6-C-12	124	7	1.30E+1	1.59E+1	64 1730	12	N X GAMMA	ANGULAR DISTRIBUTION
6-C-12	124	7	1.35E+1	1.47E+1	60 583	13	N X GAMMA	ANGULAR DISTRIBUTION
6-C-12	124	7	1.40E+1	1.40E+1	58 405	1	N X GAMMA	ANGULAR DISTRIBUTION
6-C-12	124	7	1.41E+1	1.41E+1	65 1890	7	N X GAMMA	ANGULAR DISTRIBUTION
6-C-12	124	7	1.47E+1	1.47E+1	64 1758	7	N X GAMMA	ANGULAR DISTRIBUTION
6-C-12	124	7	1.48E+1	1.48E+1	64 1728	1	N X GAMMA	ANGULAR DISTRIBUTION
6-C-12	124	7	1.48E+1	1.48E+1	62 1724	1	N X GAMMA	ANGULAR DISTRIBUTION
6-C-12	124	7	1.50E+1	1.50E+1	60 1720	1	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	2.50E+0	7.50E+0	73 3584	2034	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	4.20E+0	7.50E+0	59 1719	2	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	5.80E+0	8.10E+0	59 783	170	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	5.80E+0	8.55E+0	65 2513	145	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	1.47E+1	1.47E+1	64 1758	19	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	1.48E+1	1.48E+1	63 1730	53	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	1.48E+1	1.48E+1	59 1019	12	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	1.48E+1	1.48E+1	59 1019	12	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	1.48E+1	1.48E+1	72 3717	19	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	4.20E+0	6.00E+0	59 1752	6	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	8.00E+0	1.10E+1	70 2513	206	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	8.50E+0	1.51E+1	71 3713	1	N X GAMMA	ANGULAR DISTRIBUTION
7-N-NAT	124	7	1.51E+1	1.51E+1	59 783	125	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	6.40E+0	9.95E+0	60 1704	2	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.47E+1	1.47E+1	64 1758	14	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.48E+1	1.48E+1	63 1728	14	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.48E+1	1.48E+1	64 1730	58	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.48E+1	1.48E+1	66 1019	9	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.48E+1	1.48E+1	67 1225	3	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.48E+1	1.48E+1	70 3201	127	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	6.72E+0	1.1E+0	70 4497	11	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	7.50E+0	1.1E+0	65 1890	7	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.41E+1	1.50E+1	60 1720	1	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.50E+1	2.56E+0	63 1728	12	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.50E+1	2.56E+0	60 666	18	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.00E+0	2.56E+0	69 1019	11	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.00E+0	2.56E+0	68 1019	4	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.00E+0	2.56E+0	63 1728	27	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	3.49E+0	7.50E+0	73 5613	153	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	1.47E+1	2.95E+0	66 1700	8	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	2.95E+0	2.95E+0	65 816	1	N X GAMMA	ANGULAR DISTRIBUTION
8-0-NAT	124	7	4.10E+0	4.10E+0	63 1728	3	N X GAMMA	ANGULAR DISTRIBUTION

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C = 124

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 124

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	12-MG-NAT	124	7 7.600+ 0	7.600+ 0	69 2011	26	N,X GAMMA ANGULAR DISTRIBUTION
	12-MG-NAT	124	7 1.400+ 1	1.400+ 1	74 3544	94	N,X GAMMA ANGULAR DISTRIBUTION
	12-MG-NAT	124	7 1.470+ 1	1.470+ 1	65 1707	13	N,X GAMMA ANGULAR DISTRIBUTION
	12-MG-NAT	124	7 1.500+ 1	1.500+ 1	60 1720	1	N,X GAMMA ANGULAR DISTRIBUTION
N	12-MG-NAT	124	7 1.510+ 1	1.510+ 1	71 3713	11	N,X GAMMA ANGULAR DISTRIBUTION
	12-MG-24	124	7 2.800+ 0	2.800+ 0	65 1715	1	N,X GAMMA ANGULAR DISTRIBUTION
	12-MG-24	124	7 2.900+ 0	2.900+ 0	61 686	5	N,X GAMMA ANGULAR DISTRIBUTION
	12-MG-24	124	7 2.950+ 0	2.950+ 0	59 818	11	N,X GAMMA ANGULAR DISTRIBUTION
	12-MG-24	124	7 3.000+ 0	4.350+ 0	65 1713	4	N,X GAMMA ANGULAR DISTRIBUTION
	12-MG-24	124	7 1.400+ 1	1.400+ 1	65 1708	8	N,X GAMMA ANGULAR DISTRIBUTION
	12-MG-25	124	7 2.800+ 0	2.800+ 0	65 1715	1	N,X GAMMA ANGULAR DISTRIBUTION
	12-MG-26	124	7 2.800+ 0	2.800+ 0	65 1715	1	N,X GAMMA ANGULAR DISTRIBUTION
	12-MG-26	124	7 3.000+ 0	4.350+ 0	65 1713	15	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 4.070+ 1	4.570+ 0	65 1713	125	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 9.515+ 1	1.573+ 1	74 3826	222	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 1.120+ 0	2.100+ 0	65 1736	64	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 2.800+ 0	2.800+ 0	65 1715	3	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 2.950+ 0	2.950+ 0	59 818	3	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 3.500+ 0	4.550+ 0	56 485	23	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 3.570+ 0	4.570+ 0	64 1730	27	N,X GAMMA ANGULAR DISTRIBUTION
N	13-AL-27	124	7 3.700+ 0	3.700+ 0	55 473	3	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 4.000+ 0	7.500+ 0	70 1497	58	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 4.040+ 0	4.040+ 0	62 1724	1	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 4.040+ 0	1.484+ 1	62 1725	9	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 4.100+ 0	4.100+ 0	63 1728	4	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 5.350+ 0	9.000+ 0	71 3554	317	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 7.600+ 0	7.600+ 0	69 2011	57	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 7.800+ 0	7.800+ 0	59 1752	3	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 1.400+ 1	1.400+ 1	65 1708	7	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 1.400+ 1	1.400+ 1	74 3544	47	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 1.430+ 1	1.430+ 1	67 1710	2	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 1.470+ 1	1.470+ 1	65 1707	11	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 1.480+ 1	1.480+ 1	69 1019	6	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 1.500+ 1	1.500+ 1	60 1720	8	N,X GAMMA ANGULAR DISTRIBUTION
	13-AL-27	124	7 1.510+ 1	1.510+ 1	71 3713	1	N,X GAMMA ANGULAR DISTRIBUTION
N	14-SI-NAT	124	7 4.000+ 0	7.670+ 0	69 2862	73	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-NAT	124	7 4.100+ 0	4.100+ 0	63 1728	2	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-NAT	124	7 5.000+ 0	1.100+ 1	69 3501	134	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-NAT	124	7 5.350+ 0	9.000+ 0	70 3174	334	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-NAT	124	7 7.600+ 0	7.600+ 0	69 2011	32	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-NAT	124	7 1.400+ 1	1.400+ 1	60 1704	1	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-NAT	124	7 1.470+ 1	1.470+ 1	64 1758	17	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-NAT	124	7 1.484+ 1	1.484+ 1	62 1725	4	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-NAT	124	7 1.500+ 1	1.500+ 1	60 1720	1	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-28	124	7 2.800+ 0	2.800+ 0	65 1715	1	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-28	124	7 3.000+ 0	4.000+ 0	65 1713	21	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-28	124	7 3.700+ 0	3.700+ 0	55 473	1	N,X GAMMA ANGULAR DISTRIBUTION
	14-SI-28	124	7 3.700+ 0	3.700+ 0	56 485	1	N,X GAMMA ANGULAR DISTRIBUTION
	16-S -NAT	124	7 1.400+ 1	1.400+ 1	65 1708	6	N,X GAMMA ANGULAR DISTRIBUTION
	16-S -NAT	124	7 1.470+ 1	1.470+ 1	66 1700	14	N,X GAMMA ANGULAR DISTRIBUTION
	16-S -NAT	124	7 1.480+ 1	1.480+ 1	63 1728	2	N,X GAMMA ANGULAR DISTRIBUTION
	16-S -32	124	7 7.600+ 0	7.600+ 0	69 2011	46	N,X GAMMA ANGULAR DISTRIBUTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 124

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 124

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
17-CL-NAT	124	7	1.470+	1.470+	66 1700	13	N,X GAMMA ANGULAR DISTRIBUTION
18-AR-40	124	7	3.000+	4.500+	65 1731	37	N,X GAMMA ANGULAR DISTRIBUTION
19-K -NAT	124	7	1.470+	1.470+	66 1700	11	N,X GAMMA ANGULAR DISTRIBUTION
20-CA-NAT	124	7	4.200+	4.430+	64 1730	31	N,X GAMMA ANGULAR DISTRIBUTION
N 20-CA-NAT	124	7	4.650+	6.050+	71 3514	300	N,X GAMMA ANGULAR DISTRIBUTION
20-CA-40	124	7	3.500+	5.000+	65 941	25	N,X GAMMA ANGULAR DISTRIBUTION
20-CA-40	124	7	4.200+	4.430+	64 1730	42	N,X GAMMA ANGULAR DISTRIBUTION
20-CA-44	124	7	3.500+	5.000+	65 941	7	N,X GAMMA ANGULAR DISTRIBUTION
22-Tl-NAT	124	7	1.470+	1.470+	65 1707	9	N,X GAMMA ANGULAR DISTRIBUTION
22-Tl-48	124	7	2.800+	2.800+	65 1715	2	N,X GAMMA ANGULAR DISTRIBUTION
22-Tl-48	124	7	1.430+	1.430+	67 1710	1	N,X GAMMA ANGULAR DISTRIBUTION
22-Tl-50	124	7	2.800+	2.800+	65 1715	1	N,X GAMMA ANGULAR DISTRIBUTION
23-V -NAT	124	7	1.000+	1.000+	63 1728	1	N,X GAMMA ANGULAR DISTRIBUTION
23-V -51	124	7	1.000+	1.000+	68 1019	19	N,X GAMMA ANGULAR DISTRIBUTION
24-CR-NAT	124	7	4.100+	4.100+	63 1728	1	N,X GAMMA ANGULAR DISTRIBUTION
24-CR-NAT	124	7	5.000+	1.480+	69 1019	31	N,X GAMMA ANGULAR DISTRIBUTION
N 24-CR-NAT	124	7	1.400+	1.400+	74 3544	47	N,X GAMMA ANGULAR DISTRIBUTION
24-CR-52	124	7	1.430+	1.430+	67 1710	1	N,X GAMMA ANGULAR DISTRIBUTION
25-MN-55	124	7	1.000+	1.810+	68 1019	9	N,X GAMMA ANGULAR DISTRIBUTION
25-MN-55	124	7	2.900+	2.900+	61 686	10	N,X GAMMA ANGULAR DISTRIBUTION
N 26-FE-NAT	124	7	9.400+	1.573+	75 3825	137	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	7	9.600+	1.4700+	64 1730	139	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	7	1.000+	1.490+	59 1719	20	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	7	1.660+	1.660+	56 146	11	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	7	3.300+	5.000+	56 485	20	N,X GAMMA ANGULAR DISTRIBUTION
N 26-FE-NAT	124	7	3.580+	1.465+	74 3826	68	N,X GAMMA ANGULAR DISTRIBUTION
C 26-FE-NAT	124	7	4.000+	7.670+	70 1497	86	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	7	4.040+	1.484+	62 1724	9	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	7	4.100+	4.100+	63 1728	3	N,X GAMMA ANGULAR DISTRIBUTION
N 26-FE-NAT	124	7	1.400+	1.400+	74 3544	94	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	7	1.470+	1.470+	65 1707	12	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	7	1.500+	1.500+	50 1720	4	N,X GAMMA ANGULAR DISTRIBUTION
N 26-FE-NAT	124	7	1.510+	1.510+	69 3662	19	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-54	124	7	2.800+	2.800+	65 1715	1	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-56	124	7	9.500+	1.3000+	63 1728	12	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-56	124	7	9.600+	4.050+	64 1730	109	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-56	124	7	2.560+	2.560+	60 666	11	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-56	124	7	2.800+	2.800+	65 1715	3	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-56	124	7	2.870+	2.870+	61 686	5	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-56	124	7	2.900+	2.950+	59 818	11	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-56	124	7	3.700+	3.700+	55 473	2	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-56	124	7	1.430+	1.430+	67 1710	1	N,X GAMMA ANGULAR DISTRIBUTION
27-CO-59	124	7	1.700+	4.500+	68 1019	70	N,X GAMMA ANGULAR DISTRIBUTION
27-CO-59	124	7	3.000+	4.500+	64 1730	35	N,X GAMMA ANGULAR DISTRIBUTION
27-CO-59	124	7	7.600+	7.600+	68 2011	10	N,X GAMMA ANGULAR DISTRIBUTION
28-NI-NAT	124	7	4.100+	4.100+	63 1728	5	N,X GAMMA ANGULAR DISTRIBUTION
N 28-NI-NAT	124	7	1.400+	1.400+	74 3544	47	N,X GAMMA ANGULAR DISTRIBUTION
28-NI-NAT	124	7	1.510+	1.510+	69 3662	9	N,X GAMMA ANGULAR DISTRIBUTION
29-CU-NAT	124	7	1.000+	1.000+	63 1728	2	N,X GAMMA ANGULAR DISTRIBUTION
N 29-CU-NAT	124	7	1.250+	1.850+	73 3557	354	N,X GAMMA ANGULAR DISTRIBUTION
29-CU-NAT	124	7	1.400+	1.400+	74 3544	47	N,X GAMMA ANGULAR DISTRIBUTION
N 29-CU-NAT	124	7	1.510+	1.510+	69 3662	13	N,X GAMMA ANGULAR DISTRIBUTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 124

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 124

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
29-CU-63	124	7	1.430+	1.430+	67 1710	1	N,X GAMMA ANGULAR DISTRIBUTION
29-CU-65	124	7	1.430+	1.430+	67 1710	1	N,X GAMMA ANGULAR DISTRIBUTION
32-GG-70	124	7	1.750+	2.550+	70 2763	77	N,X GAMMA ANGULAR DISTRIBUTION
32-GG-72	124	7	1.750+	2.550+	70 2763	99	N,X GAMMA ANGULAR DISTRIBUTION
32-GG-74	124	7	1.750+	2.550+	70 2763	198	N,X GAMMA ANGULAR DISTRIBUTION
32-GG-76	124	7	1.750+	2.550+	70 2763	88	N,X GAMMA ANGULAR DISTRIBUTION
33-AS-75	124	7	8.000+	1.200+	71 3234	107	N,X GAMMA ANGULAR DISTRIBUTION
38-SR-89	124	7	3.460+	1.490+	59 579	25	N,X GAMMA ANGULAR DISTRIBUTION
39-Y -89	124	7	1.180+	1.360+	63 599	53	N,X GAMMA ANGULAR DISTRIBUTION
39-Y -89	124	7	1.000+	4.100+	63 1728	8	N,X GAMMA ANGULAR DISTRIBUTION
39-Y -89	124	7	3.000+	4.500+	67 1732	66	N,X GAMMA ANGULAR DISTRIBUTION
39-Y -89	124	7	4.040+	4.040+	62 1725	7	N,X GAMMA ANGULAR DISTRIBUTION
39-Y -89	124	7	7.600+	7.600+	66 2611	6	N,X GAMMA ANGULAR DISTRIBUTION
40-ZR-NAT	124	7	1.010+	3.800+	59 579	49	N,X GAMMA ANGULAR DISTRIBUTION
40-ZR-NAT	124	7	1.630+	1.480+	69 1019	4	N,X GAMMA ANGULAR DISTRIBUTION
40-ZR-NAT	124	7	4.040+	1.484+	62 1724	4	N,X GAMMA ANGULAR DISTRIBUTION
40-ZR-NAT	124	7	4.100+	4.100+	63 1728	4	N,X GAMMA ANGULAR DISTRIBUTION
40-ZR-NAT	124	7	1.500+	1.500+	60 1720	2	N,X GAMMA ANGULAR DISTRIBUTION
41-NB-93	124	7	8.500+	1.900+	69 1019	200	N,X GAMMA ANGULAR DISTRIBUTION
41-NB-93	124	7	1.000+	4.200+	68 1019	51	N,X GAMMA ANGULAR DISTRIBUTION
41-NB-93	124	7	4.000+	7.670+	70 1497	11	N,X GAMMA ANGULAR DISTRIBUTION
42-MO-NAT	124	7	1.400+	1.400+	74 3544	92	N,X GAMMA ANGULAR DISTRIBUTION
49-IN-NAT	124	7	1.500+	1.500+	68 1019	12	N,X GAMMA ANGULAR DISTRIBUTION
49-IN-NAT	124	7	3.200+	3.200+	54 113	4	N,X GAMMA ANGULAR DISTRIBUTION
51-SB-NAT	124	7	3.700+	3.700+	55 473	1	N,X GAMMA ANGULAR DISTRIBUTION
51-SB-121	124	7	1.000+	1.000+	68 1019	2	N,X GAMMA ANGULAR DISTRIBUTION
51-SB-123	124	7	1.000+	1.000+	68 1019	2	N,X GAMMA ANGULAR DISTRIBUTION
55-CS-133	124	7	1.000+	2.200+	70 3148	78	N,X GAMMA ANGULAR DISTRIBUTION
56-CE-NAT	124	7	3.000+	4.500+	58 1019	12	N,X GAMMA ANGULAR DISTRIBUTION
58-CE-140	124	7	1.750+	2.098+	68 1019	2	N,X GAMMA ANGULAR DISTRIBUTION
58-CE-142	124	7	8.000+	1.750+	68 1019	7	N,X GAMMA ANGULAR DISTRIBUTION
59-PR-141	124	7	1.300+	2.200+	70 3148	74	N,X GAMMA ANGULAR DISTRIBUTION
74-N -NAT	124	7	8.000+	8.000+	69 3501	14	N,X GAMMA ANGULAR DISTRIBUTION
76-PT-NAT	124	7	1.400+	1.400+	74 3544	47	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-NAT	124	7	3.460+	4.590+	59 1719	15	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-NAT	124	7	4.040+	1.484+	62 1724	3	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-NAT	124	7	1.470+	1.470+	66 1700	11	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-NAT	124	7	1.510+	1.510+	69 3662	11	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-206	124	7	1.000+	4.600+	68 1019	13	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-206	124	7	2.900+	2.900+	61 686	10	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-206	124	7	4.040+	4.040+	62 1724	8	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-206	124	7	4.040+	4.040+	62 1725	2	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-206	124	7	4.100+	4.100+	63 1728	2	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-207	124	7	1.000+	4.603+	69 1019	35	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-207	124	7	4.040+	4.040+	62 1725	4	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-207	124	7	4.100+	4.100+	63 1728	6	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-208	124	7	3.000+	4.100+	63 1728	36	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-208	124	7	3.100+	5.250+	68 1019	15	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-208	124	7	3.260+	4.590+	59 1719	11	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-208	124	7	4.040+	1.484+	62 1724	2	N,X GAMMA ANGULAR DISTRIBUTION
82-PB-208	124	7	1.400+	1.400+	59 1722	5	N,X GAMMA ANGULAR DISTRIBUTION
RADIO LEAD	124	7	1.010+	1.010+	59 579	1	N,X GAMMA ANGULAR DISTRIBUTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 124

TARGE*	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
63-B1-209	124	7	1.000+ 0	4.100+ 0	63 1728	23	N,X GAMMA ANGULAR DISTRIBUTION
63-B1-209	124	7	1.760+ 0	4.100+ 0	68 1019	11	N,X GAMMA ANGULAR DISTRIBUTION
23-B1-209	124	7	2.950+ 0	2.950+ 0	59 818	2	N,X GAMMA ANGULAR DISTRIBUTION
83-B1-209	124	7	4.040+ 0	4.040+ 0	62 1725	5	N,X GAMMA ANGULAR DISTRIBUTION
63-B1-209	124	7	1.510+ 1	1.510+ 1	69 3662	5	N,X GAMMA ANGULAR DISTRIBUTION
92-C-238	124	7	1.040+ 0	1.040+ 0	69 1019	3	N,X GAMMA ANGULAR DISTRIBUTION
7-N-NAT	124	10	7.300+ 0	7.300+ 0	59 783	2	N,X GAMMA ANGULAR DISTRIBUTION
7-N-NAT	124	10	7.500+ 0	7.500+ 0	59 1719	1	N,X GAMMA ANGULAR DISTRIBUTION
7-N-NAT	124	10	1.480+ 1	1.480+ 1	64 1730	1	N,X GAMMA ANGULAR DISTRIBUTION
7-N-NAT	124	10	1.480+ 1	1.480+ 1	68 1019	5	N,X GAMMA ANGULAR DISTRIBUTION
7-N-NAT	124	10	1.480+ 1	1.480+ 1	69 1019	8	N,X GAMMA ANGULAR DISTRIBUTION
8-O-NAT	124	10	1.480+ 1	1.480+ 1	63 1728	1	N,X GAMMA ANGULAR DISTRIBUTION
8-O-NAT	124	10	1.480+ 1	1.480+ 1	64 1730	1	N,X GAMMA ANGULAR DISTRIBUTION
8-O-NAT	124	10	1.480+ 1	1.480+ 1	68 1019	2	N,X GAMMA ANGULAR DISTRIBUTION
11-NA-23	124	10	4.100+ 0	4.100+ 0	63 1728	15	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	124	10	4.100+ 0	4.100+ 0	63 1728	4	N,X GAMMA ANGULAR DISTRIBUTION
12-MG-NAT	124	10	1.400+ 1	1.400+ 1	60 1704	9	N,X GAMMA ANGULAR DISTRIBUTION
13-AL-27	124	10	1.480+ 1	1.480+ 1	69 1019	16	N,X GAMMA ANGULAR DISTRIBUTION
13-AL-27	124	10	1.105+ 0	1.465+ 1	74 3826	295	N,X GAMMA ANGULAR DISTRIBUTION
13-AL-27	124	10	4.040+ 0	4.040+ 0	62 1724	4	N,X GAMMA ANGULAR DISTRIBUTION
13-AL-27	124	10	4.100+ 0	4.100+ 0	63 1728	4	N,X GAMMA ANGULAR DISTRIBUTION
13-AL-27	124	10	1.400+ 1	1.400+ 1	60 1704	7	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	124	10	1.400+ 1	1.400+ 1	60 1704	9	N,X GAMMA ANGULAR DISTRIBUTION
14-SI-NAT	124	10	1.480+ 1	1.480+ 1	63 1728	19	N,X GAMMA ANGULAR DISTRIBUTION
15-P-31	124	10	1.400+ 1	1.400+ 1	60 1704	6	N,X GAMMA ANGULAR DISTRIBUTION
16-S-NAT	124	10	1.400+ 1	1.400+ 1	60 1704	7	N,X GAMMA ANGULAR DISTRIBUTION
16-S-NAT	124	10	1.480+ 1	1.480+ 1	63 1728	15	N,X GAMMA ANGULAR DISTRIBUTION
20-CA-NAT	124	10	1.400+ 1	1.400+ 1	60 1704	7	N,X GAMMA ANGULAR DISTRIBUTION
24-CR-NAT	124	10	4.100+ 0	4.100+ 0	63 1728	22	N,X GAMMA ANGULAR DISTRIBUTION
24-CR-NAT	124	10	1.480+ 1	1.480+ 1	69 1019	18	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	10	1.090+ 0	1.465+ 1	74 3826	258	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	10	4.040+ 0	1.484+ 1	62 1724	11	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	10	4.100+ 0	4.100+ 0	63 1728	7	N,X GAMMA ANGULAR DISTRIBUTION
26-FE-NAT	124	10	1.400+ 1	1.400+ 1	60 1704	8	N,X GAMMA ANGULAR DISTRIBUTION
28-Ni-NAT	124	10	4.100+ 0	4.100+ 0	63 1728	6	N,X GAMMA ANGULAR DISTRIBUTION
28-Ni-NAT	124	10	1.480+ 1	1.480+ 1	69 1019	19	N,X GAMMA ANGULAR DISTRIBUTION
28-Ni-NAT	124	10	1.484+ 1	1.484+ 1	62 1724	9	N,X GAMMA ANGULAR DISTRIBUTION
39-Y-89	124	10	4.100+ 0	1.480+ 1	63 1728	19	N,X GAMMA ANGULAR DISTRIBUTION
40-ZR-NAT	124	10	1.630+ 0	1.480+ 1	69 1019	30	N,X GAMMA ANGULAR DISTRIBUTION
40-ZP-NAT	124	10	4.040+ 0	1.484+ 1	62 1724	14	N,X GAMMA ANGULAR DISTRIBUTION
40-ZR-NAT	124	10	4.100+ 0	4.100+ 0	63 1728	7	N,X GAMMA ANGULAR DISTRIBUTION
41-NB-93	124	10	1.400+ 1	1.400+ 1	74 3544	47	N,X GAMMA ANGULAR DISTRIBUTION
58-CE-NAT	124	10	3.000+ 0	4.500+ 0	64 1730	39	N,X GAMMA ANGULAR DISTRIBUTION
73-TA-181	124	10	1.400+ 1	1.400+ 1	74 3544	47	N,X GAMMA ANGULAR DISTRIBUTION
74-W-NAT	124	10	3.020+ 1	3.020+ 1	68 1019	1	N,X GAMMA ANGULAR DISTRIBUTION
74-W-NAT	124	10	3.020+ 1	1.480+ 1	69 1019	76	N,X GAMMA ANGULAR DISTRIBUTION
74-W-NAT	124	10	4.100+ 0	1.480+ 1	63 1728	18	N,X GAMMA ANGULAR DISTRIBUTION
74-W-NAT	124	10	5.000+ 0	1.400+ 1	69 3537	53	N,X GAMMA ANGULAR DISTRIBUTION
74-W-NAT	124	10	1.484+ 1	1.484+ 1	62 1724	5	N,X GAMMA ANGULAR DISTRIBUTION
82-Pb-NAT	124	10	4.040+ 0	1.484+ 1	62 1724	12	N,X GAMMA ANGULAR DISTRIBUTION
82-Pb-205	124	10	1.480+ 0	1.480+ 1	63 1728	19	N,X GAMMA ANGULAR DISTRIBUTION
82-Pb-206	124	10	4.040+ 0	1.484+ 1	62 1724	9	N,X GAMMA ANGULAR DISTRIBUTION

TARGE* CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/73

ECISIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 124

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
82-PB-107	124	10	4.100+ 0	1.480+ 1	63 1728	15 N,X GAMMA	ANGULAR DISTRIBUTION
82-PB-218	124	10	4.040+ 0	1.480+ 1	62 1724	10 N,X GAMMA	ANGULAR DISTRIBUTION
82-PB-208	124	10	1.480+ 1	1.480+ 1	63 1728	10 N,X GAMMA	ANGULAR DISTRIBUTION
83-BI-209	124	10	2.550+ 0	1.480+ 1	63 1728	23 N,X GAMMA	ANGULAR DISTRIBUTION
92-U -NAT	124	10	1.480+ 1	1.480+ 1	63 1728	10 N,X GAMMA	ANGULAR DISTRIBUTION
92-U -NAT	124	10	1.480+ 1	1.480+ 1	64 1730	33 N,X GAMMA	ANGULAR DISTRIBUTION
N 92-U -235	124	10	1.000+ 0	8.000+ 0	74 3569	126 N,X GAMMA	ANGULAR DISTRIBUTION
92-U -235	124	10	1.090+ 0	1.480+ 1	66 1027	60 N,X GAMMA	ANGULAR DISTRIBUTION
N 92-U -235	124	10	1.400+ 1	1.400+ 1	74 3544	45 N,X GAMMA	ANGULAR DISTRIBUTION
92-U -238	124	10	3.020+ 1	3.020+ 1	69 1019	22 N,X GAMMA	ANGULAR DISTRIBUTION
92-U -238	124	10	1.090+ 0	1.480+ 1	66 1027	52 N,X GAMMA	ANGULAR DISTRIBUTION
94-PU-239	124	10	3.020+ 1	3.020+ 1	69 1019	24 N,X GAMMA	ANGULAR DISTRIBUTION
N 94-PU-239	124	10	1.000+ 0	2.000+ 0	74 3569	28 N,X GAMMA	ANGULAR DISTRIBUTION
94-PU-239	124	10	1.090+ 0	1.480+ 1	66 1027	63 N,X GAMMA	ANGULAR DISTRIBUTION
N 94-PU-239	124	10	1.400+ 1	1.400+ 1	74 3544	45 N,X GAMMA	ANGULAR DISTRIBUTION
3-LI-NAT	124	80	4.210+ 0	4.210+ 0	59 579	8 N,X GAMMA	ANGULAR DISTRIBUTION
N 14-SI-NAT	124	80	5.000+ 0	8.000+ 0	69 3501	12 N,X GAMMA	ANGULAR DISTRIBUTION
39-Y -89	124	80	3.670+ 0	4.210+ 0	59 579	17 N,X GAMMA	ANGULAR DISTRIBUTION
40-ZR-NAT	124	80	3.670+ 0	4.210+ 0	59 579	27 N,X GAMMA	ANGULAR DISTRIBUTION
RADIO LEAD	124	80	4.210+ 0	4.210+ 0	59 579	17 N,X GAMMA	ANGULAR DISTRIBUTION
83-BI-209	124	80	4.210+ 0	4.210+ 0	59 577	13 N,X GAMMA	ANGULAR DISTRIBUTION
N 7-N -14	124	87	6.900+ 0	6.900+ 0	72 3717	99 N,X GAMMA	ANGULAR DISTRIBUTION
6-O -NAT	124	87	1.480+ 1	1.480+ 1	68 1019	7 N,X GAMMA	ANGULAR DISTRIBUTION
11-NA-23	124	87	1.000+ 0	1.000+ 0	68 1019	4 N,X GAMMA	ANGULAR DISTRIBUTION
12-MG-24	124	87	3.000+ 0	4.350+ 0	65 1713	32 N,X GAMMA	ANGULAR DISTRIBUTION
12-MG-26	124	87	3.000+ 0	4.350+ 0	65 1713	34 N,X GAMMA	ANGULAR DISTRIBUTION
20-CA-40	124	87	4.200+ 0	5.000+ 0	65 941	55 N,X GAMMA	ANGULAR DISTRIBUTION
23-V -51	124	87	8.000+ 1	1.810+ 0	68 1019	34 N,X GAMMA	ANGULAR DISTRIBUTION
25-MN-55	124	87	1.760+ 0	1.810+ 0	68 1019	21 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-NAT	124	87	1.060+ 0	4.700+ 0	59 1719	23 N,X GAMMA	ANGULAR DISTRIBUTION
26-FE-54	124	87	1.810+ 0	4.000+ 0	67 1733	29 N,X GAMMA	ANGULAR DISTRIBUTION
27-CO-59	124	87	3.000+ 0	3.000+ 0	68 1019	55 N,X GAMMA	ANGULAR DISTRIBUTION
33-AS-75	124	87	3.000+ 1	1.500+ 0	71 3272	94 N,X GAMMA	ANGULAR DISTRIBUTION
39-Y -89	124	87	3.250+ 0	4.000+ 0	67 1732	74 N,X GAMMA	ANGULAR DISTRIBUTION
58-CE-142	124	87	9.960+ 1	1.750+ 0	68 1019	12 N,X GAMMA	ANGULAR DISTRIBUTION
82-PB-NAT	124	87	4.180+ 0	4.180+ 0	59 1719	3 N,X GAMMA	ANGULAR DISTRIBUTION
92-PB-206	124	87	4.100+ 0	4.100+ 0	68 1019	26 N,X GAMMA	ANGULAR DISTRIBUTION
92-PB-207	124	87	4.100+ 0	4.100+ 0	68 1019	26 N,X GAMMA	ANGULAR DISTRIBUTION
92-PB-208	124	87	3.100+ 0	4.100+ 0	68 1019	26 N,X GAMMA	ANGULAR DISTRIBUTION
93-BI-209	124	87	2.550+ 0	4.100+ 0	68 1019	18 N,X GAMMA	ANGULAR DISTRIBUTION
39-Y -89	124	83	4.000+ 0	4.000+ 0	67 1732	4 N,X GAMMA	ANGULAR DISTRIBUTION
58-CE-NAT	124	90	3.000+ 0	4.500+ 0	68 1019	39 N,X GAMMA	ANGULAR DISTRIBUTION
83-BI-209	124	90	2.650+ 0	1.480+ 1	68 1019	23 N,X GAMMA	ANGULAR DISTRIBUTION
1-H -2	126		1.410+ 1	1.410+ 1	61 1603	2 N,P	ANGULAR DISTRIBUTION
1-H -2	126		1.620+ 2	1.620+ 2	66 1605	9 N,P	ANGULAR DISTRIBUTION
2-HE-3	126		1.440+ 1	1.440+ 1	66 1613	1 N,P	ANGULAR DISTRIBUTION
2-HE-7	126		1.440+ 1	1.440+ 1	67 1614	19 N,P	ANGULAR DISTRIBUTION
3-LI-C	126		1.400+ 1	1.400+ 1	54 104	18 N,P	ANGULAR DISTRIBUTION
8-O -16	126		1.440+ 1	1.440+ 1	64 1917	18 N,P	ANGULAR DISTRIBUTION
N 12-MG-24	126		1.510+ 1	1.510+ 1	71 3713	1 N,P	ANGULAR DISTRIBUTION
26-FE-54	126		1.350+ 1	1.350+ 1	58 447	15 N,P	ANGULAR DISTRIBUTION
26-FE-56	126		1.350+ 1	1.350+ 1	58 447	13 N,P	ANGULAR DISTRIBUTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 128

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
26-NI-60	126	1	1.350*	1	58 443	14	N,P
27-AG-NAT	126	1	1.410*	1	59 554	1	N,P
48-CD-NAT	126	1	1.410*	1	59 554	1	N,P
49-IN-119	126	1	1.410*	1	59 554	1	N,P
51-SB-NAT	26	1	1.410*	1	59 554	1	N,P
79-AU-197	26	1	1.400*	1	57 158	7	N,P
3-LI-6	126	1	1.400*	1	72 3927	16	N,P
3-LI-7	126	1	1.480*	1	73 3441	2	N,P
9-F-19	126	1	1.410*	1	68 2587	33	N,P
13-AL-27	126	1	1.400*	1	59 1745	45	N,P
14-SI-28	126	1	1.400*	1	61 1760	1	N,P
7-N-14	126	7	1.510*	1	71 3713	2	N,P
11-NA-23	126	7	6.450*	0	73 3613	2	N,P
13-AL-27	126	7	1.510*	1	71 3713	2	N,P
30-ZN-64	126	10	1.410*	1	71 3768	60	N,P
30-ZN-66	126	10	1.410*	1	71 3768	30	N,P
13-AL-27	127	1	1.440*	1	62 688	6	N,X,P
14-SI-NAT	127	1	1.440*	1	62 688	6	N,X,P
15-P-31	127	1	1.440*	1	62 688	6	N,X,P
16-S-NAT	127	1	1.460*	1	62 688	6	N,X,P
22-TI-NAT	127	1	1.440*	1	62 688	6	N,X,P
26-Fe-NAT	127	1	1.440*	1	62 688	6	N,X,P
27-CO-59	127	1	1.440*	1	62 688	6	N,X,P
28-NI-NAT	127	1	1.440*	1	62 688	6	N,X,P
28-NI-58	127	1	1.480*	1	60 830	16	N,X,P
30-ZN-NAT	127	1	1.440*	1	62 688	6	N,X,P
2-HE-3	128	1	1.440*	1	66 1613	1	N,D
3-LI-6	128	1	1.400*	1	54 104	12	N,D
3-LI-24	128	1	1.510*	1	71 3713	21	N,D
25-TI-68	128	1	1.440*	1	65 1636	7	N,D
3-LI-6	128	1	1.440*	1	65 1636	8	N,D
3-LI-7	128	1	1.440*	1	67 2690	1	N,D
3-LI-7	128	1	1.440*	1	70 3298	8	N,D
3-LI-7	128	1	1.480*	1	73 3441	5	N,D
5-B-10	128	1	1.410*	1	54 1650	14	N,D
5-B-10	128	1	1.440*	1	65 1636	18	N,D
7-N-14	128	1	6.906*	0	61 646	313	N,D
7-N-14	128	1	1.410*	1	57 389	14	N,D
7-N-14	128	1	1.410*	1	67 1673	15	N,D
7-N-14	128	1	1.440*	1	68 2008	9	N,D
7-N-15	128	1	1.460*	1	65 1673	14	N,D
8-O-16	128	1	1.440*	1	65 1636	13	N,D
9-F-19	128	1	1.440*	1	68 2587	22	N,D
9-F-19	128	1	1.408*	1	57 1688	20	N,D
9-F-19	128	1	1.410*	1	68 2219	20	N,D
11-NA-23	128	1	1.440*	1	68 2587	15	N,D
13-AL-27	128	1	1.410*	1	61 658	37	N,D
13-AL-27	128	1	1.480*	1	67 2690	1	N,D
16-S-32	128	1	1.440*	1	67 2008	23	N,D
17-CU-35	128	1	1.440*	1	67 2008	1	N,D

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
19-K -39	128	1	1.440+	1	1.440+	1	67 2008
20-CA-40	128	1	1.440+	1	1.440+	1	67 2008
20-CA-40	128	1	1.440+	1	1.440+	1	67 2008
23-V -51	128	1	1.440+	1	1.440+	1	62 985
29-CU-63	128	1	1.408+	1	1.408+	1	65 2062
29-CU-63	128	1	1.410+	1	1.410+	1	67 1870
29-CU-63	128	1	1.410+	1	1.410+	1	67 1870
29-CU-63	128	1	1.408+	1	1.408+	1	67 1870
30-ZN-64	128	1	1.408+	1	1.408+	1	67 1870
30-ZN-64	128	1	1.408+	1	1.408+	1	67 1870
30-ZN-64	128	1	1.408+	1	1.408+	1	67 1870
33-AS-75	128	1	1.440+	1	1.440+	1	68 2008
7-N -14	128	7	1.510+	1	1.510+	1	71 3713
2-HE-3	130	1	1.440+	1	1.440+	1	66 1613
3-LI-6	130	1	8.000-	2	8.000-	2	66 535
3-LI-6	130	1	1.000-	1	1.000+	0	73 3491
3-LI-6	130	1	1.500-	1	1.500-	1	59 525
3-LI-6	130	1	1.900-	1	1.900-	1	63 1630
3-LI-6	130	2	2.000-	1	6.000-	1	53 1639
3-LI-6	130	1	2.500-	1	6.000+	0	62 3729
3-LI-6	130	1	1.100+	0	2.000+	0	54 109
3-LI-6	130	2	2.150+	0	2.150+	0	60 832
3-LI-6	130	1	2.700+	0	1.440+	1	67 2691
3-LI-6	130	1	1.400+	1	1.400+	1	54 104
3-LI-6	130	1	1.440+	1	1.440+	1	67 2690
3-LI-7	130	1	1.440+	1	1.440+	1	54 104
5-B -10	130	1	1.440+	1	1.440+	1	54 1916
5-B -11	130	1	1.440+	1	1.440+	1	70 3299
7-N -14	130	1	1.410+	1	1.410+	1	67 1673
7-N -14	130	1	1.440+	1	1.440+	1	67 1673
7-N -14	130	1	1.440+	1	1.440+	1	68 2219
7-N -14	130	1	1.440+	1	1.440+	1	70 3299
7-N -14	130	1	1.470+	1	1.470+	1	67 1673
7-N -14	130	1	1.440+	1	1.440+	1	67 1673
9-F -19	130	1	6.000+	0	6.000+	0	65 1695
11-NA-23	130	1	1.400+	1	1.400+	1	65 1695
12-MO-24	130	1	1.510+	1	1.510+	1	71 3713
13-AL-27	130	1	1.410+	1	1.410+	1	65 899
13-AL-27	130	1	1.480+	1	1.480+	1	57 474
16-S -32	130	3	3.200+	0	3.200+	0	65 1555
16-S -32	130	3	3.600+	0	3.600+	0	65 1771
16-S -32	130	1	1.480+	1	1.480+	1	58 537
20-CA-40	130	3	4.150+	0	6.000+	0	64 2778
23-V -51	130	1	1.480+	1	1.480+	1	58 537
25-MN-55	130	1	1.480+	1	1.480+	1	58 536
26-FE-54	130	1	1.480+	1	1.480+	1	63 2169
28-NI-58	130	1	1.410+	1	1.410+	1	65 899
29-CU-63	130	1	1.400+	1	1.400+	1	60 3372
29-CU-63	130	1	1.420+	1	1.420+	1	72 3939
30-ZN-64	130	1	1.480+	1	1.480+	1	63 2169
30-ZN-64	130	1	1.480+	1	1.480+	1	63 2169
33-AS-75	130	1	1.420+	1	1.420+	1	62 6346
41-NB-93	130	1	1.420+	1	1.420+	1	72 3939

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

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C - 134

07/04/76

ECS:--1600 REACTION INDEX (REACTION NO. ORDERED)

C = 134

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
41-NB-93	134	1	1.470	1.470	64 2036	4	N, ALPHA ANGULAR DISTRIBUTION
45-RH-103	134	1	1.400	1.400	67 2326	3	N, ALPHA ANGULAR DISTRIBUTION
45-RH-103	134	1	1.420	1.420	72 3939	6	N, ALPHA ANGULAR DISTRIBUTION
45-RH-103	134	1	1.440	1.440	68 3308	3	N, ALPHA ANGULAR DISTRIBUTION
47-AG-107	134	1	1.420	1.420	72 3939	6	N, ALPHA ANGULAR DISTRIBUTION
47-AG-107	134	1	1.460	1.460	63 2169	1	N, ALPHA ANGULAR DISTRIBUTION
55-CS-133	134	1	1.420	1.420	72 3939	6	N, ALPHA ANGULAR DISTRIBUTION
57-LA-139	134	1	1.400	1.400	67 2326	4	N, ALPHA ANGULAR DISTRIBUTION
57-LA-139	134	1	1.460	1.460	65 1975	4	N, ALPHA ANGULAR DISTRIBUTION
59-PR-141	134	1	1.470	1.470	64 2036	5	N, ALPHA ANGULAR DISTRIBUTION
59-PR-141	134	1	1.510	1.510	71 3772	6	N, ALPHA ANGULAR DISTRIBUTION
62-SM-147	134	1	1.815	1.815	73 3985	1	N, ALPHA ANGULAR DISTRIBUTION
62-SM-149	134	1	1.815	1.815	73 3985	1	N, ALPHA ANGULAR DISTRIBUTION
63-CU-151	134	1	1.815	1.815	73 3985	1	N, ALPHA ANGULAR DISTRIBUTION
65-TB-159	134	1	1.400	1.400	67 2326	4	N, ALPHA ANGULAR DISTRIBUTION
65-TB-159	134	1	1.460	1.460	65 1975	5	N, ALPHA ANGULAR DISTRIBUTION
66-DY-160	134	1	1.412	1.412	72 3851	1	N, ALPHA ANGULAR DISTRIBUTION
66-DY-160	134	1	1.815	1.815	72 3855	1	N, ALPHA ANGULAR DISTRIBUTION
66-DY-161	134	1	1.815	1.815	73 3985	1	N, ALPHA ANGULAR DISTRIBUTION
66-DY-162	134	1	1.412	1.412	72 3851	1	N, ALPHA ANGULAR DISTRIBUTION
66-DY-162	134	1	1.815	1.815	72 3855	1	N, ALPHA ANGULAR DISTRIBUTION
66-DY-164	134	1	1.412	1.412	72 3851	1	N, ALPHA ANGULAR DISTRIBUTION
66-DY-164	134	1	1.815	1.815	72 3855	1	N, ALPHA ANGULAR DISTRIBUTION
67-HO-165	134	1	1.470	1.470	63 2257	1	N, ALPHA ANGULAR DISTRIBUTION
67-HO-165	134	1	1.815	1.815	73 3985	1	N, ALPHA ANGULAR DISTRIBUTION
71-LU-NAT	134	1	1.470	1.470	63 2257	1	N, ALPHA ANGULAR DISTRIBUTION
73-TA-181	134	1	1.470	1.470	63 2257	1	N, ALPHA ANGULAR DISTRIBUTION
83-BI-209	134	1	1.400	1.400	67 2326	2	N, ALPHA ANGULAR DISTRIBUTION
83-BI-209	134	1	1.460	1.460	65 1975	3	N, ALPHA ANGULAR DISTRIBUTION
4-BE-9	134	1	8.000	0 3.000	70 3651	575	N, ALPHA ANGULAR DISTRIBUTION
4-BE-9	134	1	1.440	1.440	57 2367	13	N, ALPHA ANGULAR DISTRIBUTION
5-B-10	134	1	1.440	1.440	69 3282	17	N, ALPHA ANGULAR DISTRIBUTION
5-B-11	134	1	1.410	1.410	73 3942	14	N, ALPHA ANGULAR DISTRIBUTION
7-N-14	134	1	1.410	1.410	68 1933	27	N, ALPHA ANGULAR DISTRIBUTION
7-N-14	134	1	1.410	1.410	68 3292	72	N, ALPHA ANGULAR DISTRIBUTION
7-N-14	134	1	1.410	1.410	73 3942	18	N, ALPHA ANGULAR DISTRIBUTION
8-O-16	134	1	1.410	1.410	66 1920	9	N, ALPHA ANGULAR DISTRIBUTION
8-O-16	134	1	1.410	1.410	67 2365	51	N, ALPHA ANGULAR DISTRIBUTION
9-O-16	134	1	1.410	1.410	73 3942	9	N, ALPHA ANGULAR DISTRIBUTION
10-NE-20	134	1	1.410	1.410	66 1920	12	N, ALPHA ANGULAR DISTRIBUTION
16-S-32	134	1	2.500	0 2.900	65 1555	26	N, ALPHA ANGULAR DISTRIBUTION
40-ZR-90	134	1	1.440	1.440	67 2125	1	N, ALPHA ANGULAR DISTRIBUTION
40-ZR-91	134	1	1.440	1.440	67 2125	1	N, ALPHA ANGULAR DISTRIBUTION
40-ZR-92	134	1	1.440	1.440	67 2125	1	N, ALPHA ANGULAR DISTRIBUTION
8-O-16	134	7	1.510	1.510	71 3713	2	N, ALPHA ANGULAR DISTRIBUTION
13-AL-27	134	7	1.510	1.510	71 3713	1	N, ALPHA ANGULAR DISTRIBUTION
7-N-14	134	8	1.410	1.410	68 3292	18	N, ALPHA ANGULAR DISTRIBUTION
6-O-16	134	8	1.410	1.410	73 3942	6	N, ALPHA ANGULAR DISTRIBUTION
7-N-14	134	8	1.410	1.410	68 3358	32	N, ALPHA ANGULAR DISTRIBUTION
8-O-16	134	8	1.360	1.410	65 3664	15	N, ALPHA ANGULAR DISTRIBUTION
14-SI-28	134	8	1.480	1.480	66 1761	16	N, ALPHA ANGULAR DISTRIBUTION
16-S-32	134	8	2.500	0 3.200	66 1769	39	N, ALPHA ANGULAR DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 134

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 134

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	B-O-16	134	88	1.360+ 1	1.410+ 1	65 3664	15 N, ALPHA ANGULAR DISTRIBUTION
	27-CO-59	135		1.480+ 1	1.480+ 1	58 536	9 N, X ALPHA ANGULAR DISTRIBUTION
	27-CO-59	135		1.480+ 1	1.480+ 1	58 537	1 N, X ALPHA ANGULAR DISTRIBUTION
	92-U-235	203		2.000+ 0	4.000+ 0	69 2598	60 NONELASTIC ENERGY DISTRIBUTION
	94-PU-239	203		2.000+ 0	4.000+ 0	69 2598	60 NONELASTIC ENERGY DISTRIBUTION
	3-LI-6	204		1.410+ 1	1.410+ 1	63 1633	30 NEUTRON EMISSION ENERGY DISTRIBUTION
	3-LI-7	204		1.410+ 1	1.410+ 1	63 1633	31 NEUTRON EMISSION ENERGY DISTRIBUTION
N	24-CR-NAT	204		1.436+ 1	1.436+ 1	72 4072	51 NEUTRON EMISSION ENERGY DISTRIBUTION
N	25-MN-55	204		1.436+ 1	1.436+ 1	72 4072	51 NEUTRON EMISSION ENERGY DISTRIBUTION
N	26-Fe-NAT	204		1.436+ 1	1.436+ 1	72 4072	51 NEUTRON EMISSION ENERGY DISTRIBUTION
N	27-CO-59	204		1.436+ 1	1.436+ 1	72 4072	51 NEUTRON EMISSION ENERGY DISTRIBUTION
N	28-NI-NAT	204		1.436+ 1	1.436+ 1	72 4072	51 NEUTRON EMISSION ENERGY DISTRIBUTION
N	29-CU-NAT	204		1.436+ 1	1.436+ 1	72 4072	51 NEUTRON EMISSION ENERGY DISTRIBUTION
N	39-Y-99	204		1.436+ 1	1.436+ 1	72 4072	51 NEUTRON EMISSION ENERGY DISTRIBUTION
N	40-ZR-NAT	204		1.410+ 1	1.410+ 1	57 317	14 NEUTRON EMISSION ENERGY DISTRIBUTION
N	40-ZR-NAT	204		1.436+ 1	1.436+ 1	72 4072	51 NEUTRON EMISSION ENERGY DISTRIBUTION
N	41-NB-93	204		1.436+ 1	1.436+ 1	72 4072	50 NEUTRON EMISSION ENERGY DISTRIBUTION
N	74-W-NAT	204		1.436+ 1	1.436+ 1	72 4072	51 NEUTRON EMISSION ENERGY DISTRIBUTION
N	83-BI-209	204		1.436+ 1	1.436+ 1	72 4072	50 NEUTRON EMISSION ENERGY DISTRIBUTION
	92-U-238	204		1.400+ 1	1.400+ 1	57 338	31 NEUTRON EMISSION ENERGY DISTRIBUTION
	11-NA-23	211		7.000+ 0	7.000+ 0	67 1883	20 N, N' ENERGY DISTRIBUTION
	13-AL-27	211		7.000+ 0	7.000+ 0	67 1883	20 N, N' ENERGY DISTRIBUTION
	19-K-NAT	211		7.000+ 0	7.000+ 0	67 1883	19 N, N' ENERGY DISTRIBUTION
	24-CR-NAT	211		7.000+ 0	7.000+ 0	67 1883	20 N, N' ENERGY DISTRIBUTION
	26-Fe-NAT	211		5.440+ 0	8.560+ 0	70 3171	90+ N, N' ENERGY DISTRIBUTION
	26-Fe-NAT	211		7.300+ 0	7.000+ 0	67 1883	21 N, N' ENERGY DISTRIBUTION
	27-CO-59	211		4.190+ 0	8.560+ 0	70 3170	221 N, N' ENERGY DISTRIBUTION
N	28-NI-NAT	211		1.460+ 1	1.460+ 1	73 3536	8 N, N' ENERGY DISTRIBUTION
	28-NI-58	211		7.000+ 0	7.000+ 0	67 1883	19 N, N' ENERGY DISTRIBUTION
	28-NI-60	211		6.440+ 0	8.560+ 0	70 3172	690 N, N' ENERGY DISTRIBUTION
	28-NI-60	211		7.000+ 0	7.000+ 0	67 1883	20 N, N' ENERGY DISTRIBUTION
N	30-ZN-NAT	211		1.400+ 1	1.400+ 1	74 4081	60 N, N' ENERGY DISTRIBUTION
N	42-MO-NAT	211		1.400+ 1	1.400+ 1	74 4081	40 N, N' ENERGY DISTRIBUTION
N	48-CO-NAT	211		1.400+ 1	1.400+ 1	74 4081	40 N, N' ENERGY DISTRIBUTION
N	49-IN-NAT	211		1.400+ 1	1.400+ 1	74 4081	50 N, N' ENERGY DISTRIBUTION
N	50-SN-NAT	211		1.400+ 1	1.400+ 1	74 4081	50 N, N' ENERGY DISTRIBUTION
N	73-TA-NAT	211		1.400+ 1	1.400+ 1	74 4081	47 N, N' ENERGY DISTRIBUTION
N	74-W-NAT	211		6.440+ 0	8.560+ 0	73 3531	314 N, N' ENERGY DISTRIBUTION
N	82-PB-NAT	211		1.400+ 1	1.400+ 1	74 4081	40 N, N' ENERGY DISTRIBUTION
	92-U-235	211		2.000+ 0	4.000+ 0	69 2598	42 N, N' ENERGY DISTRIBUTION
	94-PU-239	211		2.000+ 0	4.000+ 0	69 2598	40 N, N' ENERGY DISTRIBUTION
N	92-U-235	222		0.000+ 0	0.000+ 0	74 3948	1300 N, F ENERGY DISTRIBUTION
N	92-U-235	222		1.500+ 0	1.500+ 0	72 3788	56 N, F ENERGY DISTRIBUTION
N	98-CF-252	222		0.000+ 0	0.000+ 0	73 3792	183 N, F ENERGY DISTRIBUTION
	92-U-233	222	80	2.500- 8	2.500- 8	55 267	22 N, F ENERGY DISTRIBUTION
	92-U-233	222	80	2.500- 8	2.500- 8	55 1200	16 N, F ENERGY DISTRIBUTION
	92-U-235	222	80	2.500- 8	2.500- 8	55 267	7 N, F ENERGY DISTRIBUTION
	92-U-235	222	80	1.000- 1	1.000- 1	65 1265	42 N, F ENERGY DISTRIBUTION
N	92-U-235	222	80	4.000- 1	4.000- 1	73 3784	91 N, F ENERGY DISTRIBUTION
N	92-U-235	222	80	5.300- 1	5.300- 1	72 3670	54 N, F ENERGY DISTRIBUTION
	92-U-238	222	80	2.086+ 0	4.908+ 0	65 1265	79 N, F ENERGY DISTRIBUTION
N	94-PU-239	222	80	2.530- 8	2.530- 8	68 2363	18 N, F ENERGY DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 222

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 224

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 42-MO-96	224 80		2.500-8	2.500-8	73 4065	38	N,X GAMMA
N 42-MO-97	224 80		2.500-8	2.500-2	72 4050	42	N,X GAMMA
N 42-MO-97	224 80		2.532-8	2.530-8	71 3655	229	N,X GAMMA
N 42-MO-98	224 80		2.500-8	2.500-8	73 4065	25	N,X GAMMA
N 42-MO-100	224 80		2.500-8	2.500-8	73 4065	52	N,X GAMMA
N 44-RU-102	224 80		2.500-8	2.500-8	74 4092	14	N,X GAMMA
N 44-RU-102	224 80		2.500-8	2.500-5	74 4092	21	N,X GAMMA
N 44-RU-104	224 80		2.500-8	2.500-8	74 4092	15	N,X GAMMA
N 46-FD-104	224 80		2.500-8	2.500-8	74 4093	5	N,X GAMMA
N 46-PD-108	224 80		2.500-8	2.500-8	74 4093	29	N,X GAMMA
N 47-AG-107	224 80		1.660-5	1.660-5	65 3741	7	N,X GAMMA
N 48-CD-113	224 80		2.530-8	2.530-8	61 1881	119	N,X GAMMA
N 49-IN-113	224 80		1.470-5	1.470-5	65 3741	8	N,X GAMMA
N 51-SB-121	224 80		6.250-6	1.560-5	65 3741	11	N,X GAMMA
N 51-SB-123	224 80		2.160-5	2.160-5	65 3741	6	N,X GAMMA
N 52-TE-NAT	224 80		2.530-8	2.530-8	67 1924	28	N,X GAMMA
N 54-XE-129	224 80		2.500-8	2.500-8	71 4038	78	N,X GAMMA
N 54-XE-131	224 80		2.500-8	2.500-8	71 4038	33	N,X GAMMA
N 55-CS-133	224 80		1.160+0	1.160+0	72 3753	20	N,X GAMMA
N 56-BA-NAT	224 80		2.500-8	2.500-8	69 4080	10	N,X GAMMA
N 56-BA-NAT	224 80		2.530-8	2.530-8	71 4056	72	N,X GAMMA
N 56-B-134	224 80		2.500-8	2.500-8	69 4080	7	N,X GAMMA
N 56-BA-135	224 80		2.530-8	2.530-8	71 4056	19	N,X GAMMA
N 56-BA-136	224 80		2.500-8	2.500-8	69 4080	4	N,X GAMMA
N 56-BA-137	224 80		2.530-8	2.530-8	71 4056	25	N,X GAMMA
N 56-BA-138	224 80		3.115-1	2.050+0	69 4080	3	N,X GAMMA
N 57-LA-139	224 80		2.530-8	2.530-8	72 3918	54	N,X GAMMA
N 58-CE-138	224 80		2.500-8	2.500-8	69 4080	3	N,X GAMMA
N 58-CE-140	224 80		2.500-8	2.500-8	69 4080	2	N,X GAMMA
N 58-CE-142	224 80		2.500-8	2.500-8	63 4080	4	N,X GAMMA
N 60-ND-NAT	224 80		2.500-8	2.500-8	68 4079	95	N,X GAMMA
N 60-ND-143	224 80		2.500-8	2.500-8	68 4079	3	N,X GAMMA
N 60-ND-145	224 80		4.800-8	4.800-8	68 3705	15	N,X GAMMA
N 60-ND-144	224 80		2.500-8	2.500-8	68 4079	25	N,X GAMMA
N 60-ND-145	224 80		2.500-8	2.500-8	68 4079	2	N,X GAMMA
N 60-ND-145	224 80		4.800-8	4.800-8	68 3705	16	N,X GAMMA
N 60-ND-146	224 80		2.500-8	2.500-8	68 4079	11	N,X GAMMA
N 62-SM-147	224 80		3.400-6	3.400-6	65 3741	6	N,X GAMMA
N 62-SM-149	224 80		2.530-8	2.530-8	66 1922	237	N,X GAMMA
N 62-SM-149	224 80		8.900-7	8.900-7	65 3741	5	N,X GAMMA
N 62-SM-151	224 80		2.530-8	2.530-8	71 4062	32	N,X GAMMA
N 62-SM-152	224 80		2.530-8	2.530-8	71 4062	20	N,X GAMMA
N 62-SM-152	224 80		8.200-6	8.200-6	65 3741	7	N,X GAMMA
N 63-EU-151	224 80		2.530-8	2.530-8	70 3653	247	N,X GAMMA
N 65-DY-163	224 80		1.700-6	1.700-6	65 3741	10	N,X GAMMA
N 65-DY-164	224 80		2.500-8	2.500-8	66 1557	15	N,X GAMMA
N 68-ER-NAT	224 80		4.600-7	5.800-7	65 3741	8	N,X GAMMA
N 68-ER-166	224 80		2.530-8	2.530-8	67 1900	25	N,X GAMMA
N 69-TM-169	224 80		2.600-8	2.500-8	66 1560	13	N,X GAMMA
N 69-TM-169	224 80		3.900-6	3.900-6	65 3741	4	N,X GAMMA
N 71-LU-175	224 80		2.530-8	2.530-8	72 3915	53	N,X GAMMA
N 71-LU-176	224 80		2.530-8	2.530-8	72 3917	45	N,X GAMMA

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 224

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 72-HF-177	224 80	2,500-	8	2,500-	9	65 1558	25 N,X GAMMA ENERGY DISTRIBUTION
N 72-HF-177	224 80	1,100-	6	1,100-	6	65 3741	4 N,X GAMMA ENERGY DISTRIBUTION
72-HF-178	224 80	2,500-	8	2,500-	8	66 1558	1 N,X GAMMA ENERGY DISTRIBUTION
72-HF-179	224 80	2,500-	8	2,500-	8	66 1558	13 N,X GAMMA ENERGY DISTRIBUTION
N 76-OS-186	224 80	2,500-	8	2,500-	8	74 4091	25 N,X GAMMA ENERGY DISTRIBUTION
N 76-OS-187	224 80	2,500-	8	2,500-	8	74 4091	34 N,X GAMMA ENERGY DISTRIBUTION
N 78-PT-NAT	224 80	2,500-	8	2,500-	8	68 4061	43 N,X GAMMA ENERGY DISTRIBUTION
78-PT-195	224 80	1,180-	5	6,800-	4	66 1923	66 N,X GAMMA ENERGY DISTRIBUTION
N 81-TL-203	224 80	2,530-	8	2,530-	8	72 3916	20 N,X GAMMA ENERGY DISTRIBUTION
N 92-U-235	224 80	6,390-	6	3,941-	5	69 3644	46 N,X GAMMA ENERGY DISTRIBUTION
92-U-238	224 80	2,500-	8	2,500-	8	66 1561	56 N,X GAMMA ENERGY DISTRIBUTION
N 47-AO-109	224 91	5,200-	6	5,200-	6	65 3741	8 N,X GAMMA ENERGY DISTRIBUTION
N 48-CD-113	224 91	1,750-	7	1,750-	7	65 3741	4 N,X GAMMA ENERGY DISTRIBUTION
N 49-IN-115	224 91	1,460-	6	9,100-	6	65 3741	27 N,X GAMMA ENERGY DISTRIBUTION
N 62-SM-149	224 91	9,600-	8	9,600-	8	65 3741	4 N,X GAMMA ENERGY DISTRIBUTION
N 66-OY-162	224 91	5,500-	6	5,500-	6	65 3741	5 N,X GAMMA ENERGY DISTRIBUTION
N 72-HF-178	224 91	7,800-	6	7,800-	6	65 3741	4 N,X GAMMA ENERGY DISTRIBUTION
N 73-TA-181	224 91	4,800-	5	4,800-	5	65 3741	4 N,X GAMMA ENERGY DISTRIBUTION
N 78-PT-195	224 91	1,200-	5	1,200-	5	65 3741	2 N,X GAMMA ENERGY DISTRIBUTION
N 79-AU-197	224 91	4,900-	6	4,900-	6	65 3741	4 N,X GAMMA ENERGY DISTRIBUTION
7-N-114	234	1,470+	1	1,470+	1	67 1672	14 N,ALPHA ENERGY DISTRIBUTION
60-ND-143	234	2,530-	8	2,530-	8	65 2223	3 N,ALPHA ENERGY DISTRIBUTION
62-SM-149	234	2,530-	8	2,530-	8	65 2223	3 N,ALPHA ENERGY DISTRIBUTION
63-EU-151	234	2,530-	8	2,530-	8	65 2223	1 N,ALPHA ENERGY DISTRIBUTION
13-AL-27	235 80	1,400+	1	1,400+	1	62 1906	8 N,X ALPHA ENERGY DISTRIBUTION
27-CO-59	235 80	1,400+	1	1,400+	1	62 1906	9 N,X ALPHA ENERGY DISTRIBUTION
26-FE-NAT	252	3,180+	1	1,460+	0	68 1546	95 ELASTIC INTEGRAL THETA1-THETA2
C 13-AL-27	261	1,420+	1	1,420+	1	65 1744	4 N,N' INTEGRAL THETA1-THETA2
1-H-2	262	1,410+	1	1,410+	1	65 2586	2 N,2N INTEGRAL THETA1-THETA2
28-NI-58	284	1,410+	1	1,410+	1	63 878	1 N,ALPHA ENERGY DISTRIBUTION
N 4-BE-9	304	1,470+	1	1,401+	1	74 4095	620 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 6-C-12	304	1,470+	1	1,490+	1	74 4095	573 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 11-NA-23	304	1,455+	1	1,455+	1	74 4095	484 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 12-MG-NAT	304	1,470+	1	1,490+	1	74 4002	544 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 13-AL-27	304	1,470+	1	1,490+	1	74 4095	460 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 14-SI-NAT	304	1,455+	1	1,455+	1	74 4002	482 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 15-P-31	304	1,469+	1	1,490+	1	74 4095	575 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 16-S-NAT	304	1,453+	1	1,475+	1	74 4002	362 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 20-CA-NAT	304	1,455+	1	1,455+	1	74 4002	350 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 22-TI-NAT	304	1,438+	1	1,475+	1	74 4002	500 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 23-V-51	304	1,438+	1	1,475+	1	74 4095	466 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 24-CR-NAT	304	1,436+	1	1,436+	1	72 4072	255 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 24-CR-NAT	304	1,438+	1	1,475+	1	74 4002	552 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 25-MN-55	304	1,436+	1	1,436+	1	72 4072	255 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 25-MN-55	304	1,469+	1	1,490+	1	74 4095	571 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 26-FE-NAT	304	1,436+	1	1,436+	1	72 4072	259 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 26-FE-NAT	304	1,469+	1	1,490+	1	74 4002	428 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 27-CO-59	304	1,436+	1	1,436+	1	72 4072	255 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 27-CO-59	304	1,438+	1	1,475+	1	74 4095	545 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 28-NI-NAT	304	1,436+	1	1,436+	1	72 4072	204 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 28-NI-NAT	304	1,469+	1	1,490+	1	74 4011	426 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N 29-CU-NAT	304	1,436+	1	1,436+	1	72 4072	255 NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ECSIL-5600 REACTION INDEX (REACTION NO. ORDERED)

C = 304

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	29-CU-NAT	304	1.470+	1.490+	74 4002	426	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	30-ZN-NAT	304	1.455+	1.488+	74 4002	540	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	31-GA-NAT	304	1.455+	1.455+	74 4002	459	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	34-SE-NAT	304	1.455+	1.455+	74 4002	476	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	35-BR-NAT	304	1.455+	1.455+	74 4002	486	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	39-Y -89	304	1.436+	1.436+	72 4072	255	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	40-ZR-NAT	304	1.436+	1.436+	72 4072	255	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	40-ZR-NAT	304	1.455+	1.455+	74 4002	373	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	41-NB-93	304	1.436+	1.436+	72 4072	255	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	41-NB-93	304	1.438+	1.475+	74 4095	496	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	48-CD-NAT	304	1.455+	1.455+	74 4002	470	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	49-IN-NAT	304	1.455+	1.455+	74 4002	467	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	50-SN-NAT	304	1.455+	1.455+	74 4002	466	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	51-SB-NAT	304	1.469+	1.490+	74 4002	554	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	53-I -127	304	1.455+	1.455+	74 4095	482	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	73-TA-181	304	1.439+	1.475+	74 4095	499	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	74-W -NAT	304	1.436+	1.436+	72 4072	204	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	74-W -NAT	304	1.455+	1.455+	74 4002	473	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	79-AU-197	304	1.438+	1.475+	74 4095	186	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	80-HO-NAT	304	1.455+	1.455+	74 4002	474	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	82-PB-NAT	304	1.455+	1.455+	74 4002	472	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	83-BI-209	304	1.436+	1.436+	72 4072	250	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	83-BI-209	304	1.455+	1.455+	74 4095	473	NEUTRON EMISSION DIFF. ENERGY-ANGLE DISTRIBUTION
N	11-NA-23	311	8.520+0	8.520+0	72 3228	325	N,N'
N	13-AL-27	311	9.200+0	9.200+0	71 4041	1	N,N'
N	22-TI-NAT	311	5.230+0	8.560+0	73 3448	5386	N,N'
N	29-CU-NAT	311	9.200+0	9.200+0	71 4041	1	N,N'
N	30-ZN-NAT	311	1.400+	1.400+	74 4081	200	N,N'
N	41-NB-93	311	9.200+0	9.200+0	71 4041	1	N,N'
N	42-MO-NAT	311	1.400+	1.400+	74 4081	199	N,N'
N	48-CD-NAT	311	1.400+	1.400+	74 4081	84	N,N'
N	49-IN-NAT	311	1.400+	1.400+	74 4081	200	N,N'
N	50-SN-NAT	311	1.400+	1.400+	74 4081	191	N,N'
N	73-TA-NAT	311	1.400+	1.400+	74 4081	199	N,N'
N	82-PB-NAT	311	1.400+	1.400+	74 4081	120	N,N'
N	92-U -238	311	6.440+0	8.560+0	73 3453	11184	N,N'
N	4-BE-9	311 80	1.410+	1.410+	65 1932	51	N,N'
N	5-C -12	311 80	1.410+	1.410+	65 1908	35	N,N'
N	11-NA-23	311 80	1.410+	1.410+	65 1932	55	N,N'
N	12-MG-NAT	311 80	1.410+	1.410+	65 1932	54	N,N'
N	13-AL-27	311 80	9.200+0	9.200+0	71 4041	60	N,N'
N	14-SI-NAT	311 80	1.410+	1.410+	65 1908	41	N,N'
N	15-P -31	311 80	1.410+	1.410+	65 1908	40	N,N'
N	16-S -NAT	311 80	1.410+	1.410+	65 1932	50	N,N'
N	19-K -NAT	311 80	1.410+	1.410+	65 1932	53	N,N'
N	20-CA-NAT	311 80	1.410+	1.410+	65 1932	52	N,N'
N	22-TI-NAT	311 80	1.410+	1.410+	65 1908	44	N,N'
N	23-V -NAT	311 80	1.410+	1.410+	65 1908	37	N,N'
N	24-CR-NAT	311 80	1.410+	1.410+	65 1908	41	N,N'
N	25-MN-55	311 80	1.410+	1.410+	65 1908	51	N,N'
N	26-FE-NAT	311 80	1.410+	1.410+	65 1908	40	N,N'
N	27-CO-59	311 80	1.410+	1.410+	65 1908	56	N,N'

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 311

ARGE CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

N	28-NI-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	40	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	59-CU-NAT	311	80	1.410	0	1.410	1	1.410	1	71 1401	50	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	59-CU-NAT	311	80	1.410	0	1.410	1	1.410	1	71 1401	50	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	30-ZN-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	38	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	30-ZN-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	38	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	36-SE-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	39	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	36-SE-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	39	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	40-ZN-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	39	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	41-NB-33	311	80	1.410	0	1.410	1	1.410	1	65 1908	39	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	41-NB-33	311	80	1.410	0	1.410	1	1.410	1	65 1908	39	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	42-MO-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	41	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	49-IN-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	41	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	50-SM-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	50	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	51-SE-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	53	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	53-TE-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	40	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	53-TE-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	40	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	55-CE-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	51	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	55-CE-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	51	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	73-W-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	37	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	73-W-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	37	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	80-WO-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	33	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	82-PB-NAT	311	80	1.410	0	1.410	1	1.410	1	65 1908	33	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	83-BI-209	311	80	1.410	0	1.410	1	1.410	1	65 1908	41	N,N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	1-H-2	312		1.410	0	1.410	1	1.410	1	73 2937	4	N,2N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	1-H-2	312		1.450	0	1.450	1	1.450	1	71 3752	677	N,2N	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	9-F-19	324		1.850	0	1.850	1	1.850	1	74 3628	1744	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	13-AL-27	324		9.450	0	1.850	1	1.850	1	73 3617	5011	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	13-AL-27	324		6.000	0	1.850	1	1.850	1	70 1497	124	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	20-CA-NAT	324		9.500	0	1.860	1	1.860	1	73 3508	2346	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	26-FC-NAT	324		4.000	0	1.860	1	1.860	1	70 1497	215	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	28-NI-NAT	324		4.000	0	1.850	1	1.850	1	70 1497	46	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	29-CU-NAT	324		1.250	0	1.850	1	1.850	1	73 3557	2059	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	30-ZN-NAT	324		9.150	0	1.845	1	1.845	1	74 3556	2535	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	41-NB-33	324		9.000	0	1.845	1	1.845	1	70 1497	202	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	41-NB-33	324		9.150	0	1.845	1	1.845	1	73 3512	2975	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	50-SE-NAT	324		8.100	0	1.845	1	1.845	1	73 3511	3643	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	73-TI-NAT	324		1.250	0	1.860	1	1.860	1	73 3542	2372	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	74-W-NAT	324		1.250	0	1.860	1	1.860	1	73 3542	2372	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	74-W-NAT	324		4.000	0	1.860	1	1.860	1	73 3542	2372	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	92-U-235	324		4.000	0	2.000	0	2.000	0	72 3443	73	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	92-U-235	324		4.000	0	2.000	0	2.000	0	72 3443	73	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	92-U-235	324		5.000	0	2.000	0	2.000	0	72 3443	28	N,X GAMMA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	92-U-235	324		4.000	0	2.000	0	2.000	0	70 1497	92	N,X P	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	1-H-2	326		1.410	0	1.410	1	1.410	1	61 1603	92	N,X P	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	13-AL-27	326		1.480	0	1.480	1	1.480	1	63 3808	16	N,X P	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	20-CA-NAT	326		1.480	0	1.480	1	1.480	1	63 3808	16	N,X P	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	20-CA-NAT	326		1.480	0	1.480	1	1.480	1	63 3808	16	N,X P	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	79-U-235	327		1.480	0	1.480	1	1.480	1	63 3808	16	N,X P	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	79-U-235	327		1.480	0	1.480	1	1.480	1	63 3808	16	N,X P	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	5-B-10	331		1.440	0	1.440	1	1.440	1	66 4690	72	N,X T	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	13-AL-27	334		1.480	0	1.480	1	1.480	1	63 1907	51	N,ALPHA	DIFF	ENERGY-ANGLE	DISTRIBUTION
N	13-AL-27	334		1.440	0	1.440	1	1.440	1	68 3308	57	N,ALPHA	DIFF	ENERGY-ANGLE	DISTRIBUTION

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 334

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
C	49-IN-115	334	1.440+	1.440+	68 3308	15	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
	57-LA-139	334	1.460+	1.460+	65 1975	15	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
N	62-SM-147	334	1.815+	1.815+	73 3985	49	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
	62-SM-149	334	1.815+	1.815+	73 3985	48	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
N	63-EU-151	334	1.815+	1.815+	73 3985	38	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
N	66-OY-160	334	1.412+	1.412+	72 3851	28	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
N	66-OY-160	334	1.815+	1.815+	72 3855	35	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
N	66-DY-161	334	1.815+	1.815+	73 3983	36	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
N	66-DY-162	334	1.412+	1.412+	72 3851	29	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
N	66-DY-162	334	1.815+	1.815+	72 3855	28	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
N	66-DY-164	334	1.412+	1.412+	72 3851	24	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
N	66-DY-164	334	1.815+	1.815+	72 3855	26	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
N	67-HO-165	334	1.815+	1.815+	73 3965	28	N,ALPHA	DIFF. ENERGY-ANGLE DISTRIBUTION
	1-H -2	362	1.410+	1.410+	66 2586	1	N,2N	INTEGRAL E1-E2,THETA1-THETA2
C	13-AL-27	377 80	1.420+	1.420+	61 3296	75	N,X P	INTEGRAL E1-E2,THETA1-THETA2
	40-ZR-NAT	384	1.410+	1.410+	55 2122	1	N,ALPHA	INTEGRAL E1-E2,THETA1-THETA2
	6-C -NAT	403	1.410+	1.410+	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	13-AL-27	403	1.410+	1.410+	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	26-FE-NAT	403	1.410+	1.410+	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	29-CU-NAT	403	1.410+	1.410+	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	30-ZN-NAT	403	1.410+	1.410+	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	47-AG-NAT	403	1.410+	1.410+	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	48-CD-NAT	403	1.410+	1.410+	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	50-SN-NAT	403	1.410+	1.410+	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	79-AU-197	403	1.410+	1.410+	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	82-PB-NAT	403	1.410+	1.410+	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	83-BI-209	403	1.410+	1.410+	53 2028	1	NONELASTIC	INTEGRAL E1-E2
	92-U -235	403	2.000+0	3.000+0	69 2598	2	NONELASTIC	INTEGRAL E1-E2
	94-PU-239	403	2.000+0	4.000+0	69 2598	3	NONELASTIC	INTEGRAL E1-E2
	4-BE-9	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	5-B -10	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	6-C -NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	9-F -19	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	12-MG-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	13-AL-27	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	16-S -NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	22-TI-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	26-FE-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	27-CO-59	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	28-NI-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	29-CU-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	30-ZN-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	40-ZR-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	47-AG-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	48-CD-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	50-SN-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	51-SB-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	74-W -NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	79-AU-197	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	80-HG-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	82-PB-NAT	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2
	83-BI-209	406	1.420+	1.420+	58 905	1	NONELASTIC EMISSION	INTEGRAL E1-E2

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-281 ***

C = 406

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 426

TARGET	CODE	S	E-MIN	MEV	E-MAX	MEV	REFERENCE	POINTS	REACTION DESCRIPTION
12-MG-NAT	426	1.400	+	1.400	+	57	391	1	N,P
13-AL-27	426	1.400	+	1.400	+	57	391	1	N,P
26-FE-NAT	426	1.400	+	1.400	+	57	391	1	N,P
28-NI-NAT	426	1.400	+	1.400	+	57	391	1	N,P
29-CU-NAT	426	1.400	+	1.400	+	57	391	1	N,P
41-NB-93	426	1.400	+	1.400	+	57	391	1	N,P
45-RH-103	426	1.400	+	1.400	+	57	391	1	N,P
46-PD-NAT	426	1.400	+	1.400	+	57	391	1	N,P
49-IN-NAT	426	1.400	+	1.400	+	57	391	1	N,P
13-AL-27	427	1.420	+	1.420	+	81	3296	23	N,X,P
4-BE-9	452	4.500	+	1.500	+	66	885	132	ELASTIC
8-C-NAT	452	3.068	0	4.729	0	66	1667	420	ELASTIC
8-O-16	452	3.068	0	4.730	0	66	1667	744	ELASTIC
11-NA-23	452	2.090	+	1.500	+	60	807	304	ELASTIC
11-NA-23	452	3.000	+	1.500	+	66	885	100	ELASTIC
13-AL-27	452	3.000	+	1.500	+	56	885	106	ELASTIC
21-SC-45	452	2.000	+	1.400	+	70	3295	256	ELASTIC
26-FE-NAT	452	2.000	-2	6.400	+	73	3543	252	ELASTIC
27-CO-59	452	2.000	+	1.500	+	66	885	125	ELASTIC
28-NI-NAT	452	2.000	-2	6.400	+	73	3543	252	ELASTIC
28-NI-NAT	452	3.170	+	1.450	+	66	885	364	ELASTIC
29-CU-NAT	452	3.000	+	1.500	+	66	885	104	ELASTIC
30-ZN-NAT	452	3.000	+	1.500	+	66	885	104	ELASTIC
32-GE-NAT	452	3.000	+	1.470	+	68	2413	527	ELASTIC
41-NB-93	452	3.200	+	1.450	+	66	885	163	ELASTIC
42-MO-NAT	452	3.250	+	1.450	+	66	885	289	ELASTIC
46-PD-NAT	452	3.000	+	1.470	+	71	3154	480	ELASTIC
47-AG-NAT	452	3.000	+	1.450	+	66	885	120	ELASTIC
48-CO-NAT	452	3.000	+	1.500	+	66	885	125	ELASTIC
49-IN-NAT	452	3.000	+	1.500	+	66	885	120	ELASTIC
50-SN-NAT	452	3.250	+	1.450	+	66	885	310	ELASTIC
51-SB-NAT	452	3.250	+	1.450	+	66	885	255	ELASTIC
52-TE-NAT	452	3.250	+	1.450	+	66	885	265	ELASTIC
55-CS-133	452	1.100	0	1.100	0	73	3991	4	ELASTIC
67-HO-165	452	3.000	+	1.500	+	70	1040	233	ELASTIC
73-TA-181	452	3.000	+	1.475	0	67	885	476	ELASTIC
74-W-182	452	3.330	+	1.433	0	66	885	272	ELASTIC
74-W-184	452	3.330	+	1.481	0	66	885	294	ELASTIC
74-W-186	452	3.250	+	1.481	0	66	885	294	ELASTIC
75-RE-NAT	452	3.000	+	1.500	+	67	885	482	ELASTIC
76-PT-NAT	452	3.000	+	1.500	+	67	885	515	ELASTIC
79-AU-197	452	3.000	+	1.500	+	66	885	130	ELASTIC
80-HG-NAT	452	3.000	+	1.500	+	66	885	125	ELASTIC
81-TL-NAT	452	3.000	+	1.500	+	66	885	125	ELASTIC
83-BI-209	452	3.000	+	1.500	+	69	2515	285	ELASTIC
92-U-235	452	3.000	+	1.495	0	64	1273	152	ELASTIC
92-U-235	452	4.000	+	6.000	+	66	1331	120	ELASTIC
92-U-238	452	3.000	+	1.170	0	63	1272	85	ELASTIC
92-U-238	452	3.000	+	1.500	0	72	3146	723	ELASTIC
92-U-238	452	3.000	+	500	0	71	3146	150	ELASTIC
92-U-238	452	3.260	+	4.67	+	69	15	884	ELASTIC
92-U-238	452	3.030	+	1.50	+	69	221	29	ELASTIC

TARGET C S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-282 ***

C = 452

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
6A-6D-NAT	452 80	3.0000-	1.5000-	0	69 2395	260	ELASTIC	LEGENDRE EXPANSIONS OF ANGULAR DIST.
72-HF-NAT	452 80	3.0000-	1.501+	0	69 2395	187	TOTAL	LEGENDRE EXPANSIONS OF ANGULAR DIST.
92-U-238	455	8.5000-	1.495+	0	63 1272	130	ELASTIC	LEGENDRE EXPANSIONS OF ANGULAR DIST.
9A-PU-239	455 9	3.0000-	1.450+	0	67 885	604	TOTAL SCATTERING	LEGENDRE EXPANSIONS OF ANGULAR DIST.
5-C-12	461	1.5000+	1.5000+	1	69 3694	2	N	LEGENDRE EXPANSIONS OF ANGULAR DIST.
3-LI-6	460	2.5000+	1.5000+	1	62 3729	6	N	LEGENDRE EXPANSIONS OF ANGULAR DIST.
5-B-NAT	451	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
7-F-19	451	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
12-MG-NAT	521	5.0000+	1.5000+	1	58 1162	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
14-MG-NAT	521	5.0000+	1.5000+	1	60 897	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
17-K-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
22-TI-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
25-MN-55	521	5.0000+	1.5000+	1	58 1162	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
25-MN-55	521	5.0000+	1.5000+	1	60 897	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
25-MN-55	521	5.0000+	1.5000+	1	63 1819	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
25-MN-55	521	5.0000+	1.5000+	1	66 1491	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
26-FE-NAT	521	5.0000+	1.5000+	1	58 1162	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
26-FE-NAT	521	5.0000+	1.5000+	1	60 897	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
26-FE-NAT	521	5.0000+	1.5000+	1	65 1819	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
26-FE-NAT	521	5.0000+	1.5000+	1	66 1491	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
27-CO-59	521	0.0000+	2.0000+	1	71 3311	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
27-CO-59	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
27-CO-59	521	5.0000+	1.5000+	1	65 1819	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
27-CO-59	521	5.0000+	1.5000+	1	66 1491	2	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
28-NI-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
28-NI-NAT	521	5.0000+	1.5000+	1	65 1819	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
28-NI-NAT	521	5.0000+	1.5000+	1	66 1491	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
28-NI-NAT	521	5.0000+	1.5000+	1	67 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
28-NI-NAT	521	5.0000+	1.5000+	1	68 1491	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
28-NI-NAT	521	5.0000+	1.5000+	1	72 3489	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
28-NI-NAT	521	5.0000+	1.5000+	1	67 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
28-CU-NAT	521	5.0000+	1.5000+	1	68 1491	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
28-CU-NAT	521	5.0000+	1.5000+	1	66 1491	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
29-CU-NAT	521	5.0000+	1.5000+	1	66 1491	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
29-CU-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
30-ZN-NAT	521	5.0000+	1.5000+	1	58 1162	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
30-ZN-NAT	521	5.0000+	1.5000+	1	60 897	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
31-GA-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
32-GE-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
33-AS-75	521	5.0000+	1.5000+	1	68 2770	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
34-SE-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
35-BR-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
37-KJ-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
38-SR-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
40-ZR-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
40-ZR-NAT	521	5.0000+	1.5000+	1	58 1162	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
40-ZR-NAT	521	5.0000+	1.5000+	1	68 1959	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
40-ZR-NAT	521	5.0000+	1.5000+	1	66 1491	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
41-NB-93	521	5.0000+	1.5000+	1	58 1162	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
41-NB-93	521	5.0000+	1.5000+	1	60 897	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
42-HO-NAT	521	4.5000+	1.5000+	1	57 1054	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.
42-HO-NAT	521	5.0000+	1.5000+	1	58 1162	1	ABSORPTION	LEGENDRE EXPANSIONS OF ANGULAR DIST.

TARGET CODE: S E-MIN-NEV E-MAX-NEV REFERENCE POINTS REACTION DESCRIPTION

** 2-283 ***

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION	
42-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
43-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
44-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
45-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
46-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
47-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
48-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
49-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
50-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
51-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
52-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
53-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
54-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
55-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
56-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
57-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
58-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
59-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
60-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
61-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
62-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
63-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL
64-C-NAT	521	5	0.000	7	1.500	1	ABSORPTION	RESONANCE INTEGRAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-284 ***

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C - 521

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	65-TB-159	521	5.000-	7 1.500+	68 2770	1	ABSORPTION
C	65-DY-NAT	521	0.000-	0 2.000+	71 3311	1	ABSORPTION
C	66-DY-NAT	521	5.000-	7 1.500+	66 2630	1	ABSORPTION
C	66-DY-160	521	5.000-	7 1.500+	66 2630	1	ABSORPTION
C	66-DY-161	521	5.000-	7 1.500+	66 2630	1	ABSORPTION
C	66-DY-162	521	5.000-	7 1.500+	66 2630	1	ABSORPTION
C	66-DY-163	521	5.000-	7 1.500+	66 2630	1	ABSORPTION
C	66-DY-164	521	5.000-	7 1.500+	66 2630	1	ABSORPTION
C	67-HO-165	521	5.000-	7 1.500+	68 2770	1	ABSORPTION
C	68-ER-NAT	521	5.000-	7 1.500+	68 2770	1	ABSORPTION
C	69-TM-169	521	5.000-	7 1.500+	68 2770	1	ABSORPTION
C	70-YB-NAT	521	5.000-	7 1.500+	68 2770	1	ABSORPTION
C	71-LU-NAT	521	5.000-	7 1.500+	68 2770	1	ABSORPTION
C	71-LU-175	521	5.000-	7 1.500+	68 2770	1	ABSORPTION
C	71-LU-176	521	5.000-	7 1.500+	67 2271	1	ABSORPTION
C	71-LU-176	521	5.000-	7 1.500+	68 2770	1	ABSORPTION
C	72-HF-NAT	521	4.900-	7 1.500+	57 1054	1	ABSORPTION
C	72-HF-NAT	521	5.000-	7 1.500+	58 1162	1	ABSORPTION
C	72-HF-NAT	521	5.000-	7 1.500+	60 897	1	ABSORPTION
C	72-HF-NAT	521	5.000-	7 1.500+	68 2768	1	ABSORPTION
C	72-HF-NAT	521	5.000-	7 1.500+	66 1491	1	ABSORPTION
C	72-HF-176	521	5.000-	7 1.500+	68 2768	1	ABSORPTION
C	72-HF-176	521	5.000-	7 1.500+	68 2768	1	ABSORPTION
C	72-HF-177	521	5.000-	7 1.500+	68 2768	1	ABSORPTION
C	72-HF-177	521	5.000-	7 1.500+	68 2768	1	ABSORPTION
C	72-HF-178	521	5.000-	7 1.500+	68 2768	1	ABSORPTION
C	72-HF-178	521	5.000-	7 1.500+	68 2768	1	ABSORPTION
C	72-HF-179	521	5.000-	7 1.500+	68 2768	1	ABSORPTION
C	72-HF-179	521	5.000-	7 1.500+	68 2768	1	ABSORPTION
C	72-HF-180	521	5.000-	7 1.500+	68 2768	1	ABSORPTION
C	72-HF-180	521	5.000-	7 1.500+	68 2768	1	ABSORPTION
C	73-TA-177	521	4.900-	7 1.500+	57 1054	1	ABSORPTION
C	73-TA-NAT	521	5.000-	7 1.500+	58 1162	1	ABSORPTION
C	73-TA-NAT	521	5.000-	7 1.500+	60 897	1	ABSORPTION
C	73-TA-NAT	521	5.000-	7 1.500+	68 2770	1	ABSORPTION
C	73-TA-NAT	521	5.000-	7 1.500+	70 3254	1	ABSORPTION
C	73-TA-182	521	5.000-	7 1.500+	68 2315	1	ABSORPTION
C	74-W-NAT	521	3.000-	7 1.500+	62 2284	1	ABSORPTION
C	74-W-NAT	521	4.900-	7 1.500+	57 1054	1	ABSORPTION
C	74-W-NAT	521	5.000-	7 1.500+	60 897	1	ABSORPTION
C	74-W-NAT	521	5.000-	7 1.500+	62 2769	1	ABSORPTION
C	74-W-184	521	3.000-	7 1.500+	62 2284	1	ABSORPTION
C	74-W-184	521	5.000-	7 1.500+	62 2769	1	ABSORPTION
C	74-W-185	521	3.000-	7 1.500+	62 2284	1	ABSORPTION
C	74-W-185	521	5.000-	7 1.500+	62 2769	1	ABSORPTION
C	75-RE-NAT	521	5.000-	7 1.500+	68 2840	1	ABSORPTION
C	75-RE-185	521	5.000-	7 1.500+	68 2840	1	ABSORPTION
C	75-RE-187	521	5.000-	7 1.500+	68 2840	1	ABSORPTION
C	76-OS-NAT	521	4.900-	7 1.500+	57 1054	1	ABSORPTION
C	76-OS-NAT	521	5.000-	7 1.500+	68 2770	1	ABSORPTION
C	77-IR-NAT	521	4.900-	7 1.500+	57 1054	1	ABSORPTION
C	77-IR-NAT	521	5.000-	7 1.500+	68 2770	1	ABSORPTION

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C - 521

[illegible]

07/04/76

TARGET	CODE	S	E	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REAC	DESCRIPTION		
N	92-U-235	522	5,000-	7	1,460+	1	64	1278	1	N,F	RESONANCE INTEGRAL
N	92-U-235	522	5,000-	7	1,460+	1	61	1137	1	N,F	RESONANCE INTEGRAL
N	92-U-235	522	5,000-	7	1,500+	1	67	1442	1	N,F	RESONANCE INTEGRAL
N	92-U-235	522	5,000-	7	1,500+	1	71	3270	2	N,F	RESONANCE INTEGRAL
N	92-U-235	522	5,000-	7	1,500+	1	74	3621	1	N,F	RESONANCE INTEGRAL
N	92-U-235	522	5,000-	7	1,500+	1	68	2086	3	N,F	RESONANCE INTEGRAL
N	92-U-235	522	5,000-	7	1,400+	1	63	1310	1	N,F	RESONANCE INTEGRAL
C	93-NP-238	522	5,000-	7	1,500+	1	69	2525	1	N,F	RESONANCE INTEGRAL
C	94-PU-238	522	4,500-	7	1,460+	1	58	1163	1	N,F	RESONANCE INTEGRAL
C	94-PU-239	522	4,500-	7	1,460+	1	64	1175	1	N,F	RESONANCE INTEGRAL
C	94-PU-239	522	5,000-	7	1,000+	0	66	1299	1	N,F	RESONANCE INTEGRAL
N	94-PU-239	522	5,000-	7	1,460+	1	61	1137	1	N,F	RESONANCE INTEGRAL
N	94-PU-239	522	5,000-	7	1,500+	1	67	3755	1	N,F	RESONANCE INTEGRAL
C	94-PU-239	522	3,000-	6	1,500+	1	71	3270	1	N,F	RESONANCE INTEGRAL
C	94-PU-239	522	3,000-	6	1,500+	1	68	2086	1	N,F	RESONANCE INTEGRAL
C	94-PU-239	522	6,0-7	6	3,000-	5	70	3641	6	N,F	RESONANCE INTEGRAL
C	94-PU-240	522	4,500-	7	1,460+	1	58	1163	1	N,F	RESONANCE INTEGRAL
C	94-PU-241	522	4,500-	7	1,460+	1	64	1175	1	N,F	RESONANCE INTEGRAL
C	94-PU-241	522	3,000-	6	1,500+	1	71	3270	1	N,F	RESONANCE INTEGRAL
C	94-PU-241	522	3,000-	6	1,500+	1	68	2086	1	N,F	RESONANCE INTEGRAL
C	95-AM-241	522	1,000-	5	2,000-	3	70	2308	19	N,F	RESONANCE INTEGRAL
C	95-AM-241	522	5,000-	7	1,500+	1	67	2193	1	N,F	RESONANCE INTEGRAL
C	96-CR-244	522	6,250-	1	1,500+	1	72	3232	1	N,F	RESONANCE INTEGRAL
C	96-CR-245	522	6,250-	1	1,500+	1	70	3326	1	N,F	RESONANCE INTEGRAL
C	96-CR-245	522	6,250-	1	1,500+	1	72	3232	1	N,F	RESONANCE INTEGRAL
C	96-CR-246	522	6,250-	1	1,500+	1	72	3232	1	N,F	RESONANCE INTEGRAL
C	96-CR-247	522	5,400-	7	1,500+	1	70	3326	1	N,F	RESONANCE INTEGRAL
C	96-CR-247	522	6,250-	1	1,500+	1	72	3232	1	N,F	RESONANCE INTEGRAL
C	96-CR-248	522	6,250-	1	1,500+	1	72	3232	1	P,F	RESONANCE INTEGRAL
C	96-CR-249	522	6,250-	1	1,500+	1	72	3232	1	N,F	RESONANCE INTEGRAL
C	98-CF-249	522	5,400-	7	1,500+	1	70	3326	1	N,F	RESONANCE INTEGRAL
C	98-CF-252	522	5,400-	8	1,500+	1	71	3325	1	N,F	RESONANCE INTEGRAL
N	99-E3-254	522	6,250-	7	1,500+	1	72	3485	1	N,F	RESONANCE INTEGRAL
C	11-NA-253	522	5,000-	7	1,400+	1	63	1310	1	N,GAMMA	RESONANCE INTEGRAL
C	11-NA-253	523	5,000-	7	1,500+	1	61	2718	1	N,GAMMA	RESONANCE INTEGRAL
C	11-NA-253	523	5,000-	7	1,500+	1	69	3680	1	N,GAMMA	RESONANCE INTEGRAL
C	17-CF-57	523	4,000-	7	1,000+	0	70	3335	1	N,GAMMA	RESONANCE INTEGRAL
C	17-CF-57	523	5,000-	7	1,000+	0	69	3216	1	N,GAMMA	RESONANCE INTEGRAL
C	18-AR-50	523	5,000-	7	1,000+	0	65	1782	1	N,GAMMA	RESONANCE INTEGRAL
C	19-K-41	523	5,000-	7	1,500+	1	65	1787	1	N,GAMMA	RESONANCE INTEGRAL
C	20-CA-46	523	5,000-	7	1,500+	1	69	3680	1	N,GAMMA	RESONANCE INTEGRAL
C	21-SC-45	523	5,000-	7	1,500+	1	69	3680	1	N,GAMMA	RESONANCE INTEGRAL
C	23-V-NAT	523	5,200-	7	1,500+	1	62	1803	1	N,GAMMA	RESONANCE INTEGRAL
C	23-V-NAT	523	1,000-	6	5,000-	2	65	1787	1	N,GAMMA	RESONANCE INTEGRAL
C	23-V-51	523	6,800-	7	1,500+	1	67	2590	1	N,GAMMA	RESONANCE INTEGRAL
C	24-CR-50	523	6,800-	7	1,300+	1	68	1964	1	N,GAMMA	RESONANCE INTEGRAL
C	25-HN-55	523	1,250-	7	1,460+	1	61	2718	1	N,GAMMA	RESONANCE INTEGRAL
C	25-HN-55	523	5,000-	7	1,500+	1	60	1711	1	N,GAMMA	RESONANCE INTEGRAL
C	25-HN-55	523	5,000-	7	1,500+	1	62	1392	1	N,GAMMA	RESONANCE INTEGRAL
C	25-HN-55	523	5,000-	7	1,500+	1	68	2774	1	N,GAMMA	RESONANCE INTEGRAL

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TARGET	CODE	S	E	N	N	E	E	MAX	MEV	PREFERENCE	POINTS	REACTION	DESCRIPTION
C	25-MV-55	523	5	000	-7	1	500	+	69	2098	1	N, GAMMA	RESONANCE INTEGRAL
C	25-MV-55	523	5	000	-7	1	500	+	62	344	1	N, GAMMA	RESONANCE INTEGRAL
C	25-MV-55	523	5	500	-7	1	000	0	70	3325	1	N, GAMMA	RESONANCE INTEGRAL
C	25-MV-55	523	6	300	-7	1	000	+	70	3759	3	N, GAMMA	RESONANCE INTEGRAL
C	25-MV-55	523	6	600	-7	1	500	+	65	1787	1	N, GAMMA	RESONANCE INTEGRAL
C	25-MV-55	523	5	000	-7	1	500	+	65	3680	1	N, GAMMA	RESONANCE INTEGRAL
C	25-FE-58	523	5	000	-7	1	500	+	63	3352	1	N, GAMMA	RESONANCE INTEGRAL
C	26-FE-58	523	5	000	-7	1	500	+	60	333	1	N, GAMMA	RESONANCE INTEGRAL
C	27-CO-59	523	5	000	-7	1	500	+	61	2718	1	N, GAMMA	RESONANCE INTEGRAL
C	27-CO-59	523	5	000	-7	1	500	+	62	1392	1	N, GAMMA	RESONANCE INTEGRAL
C	27-CO-59	523	5	000	-7	1	500	+	63	1851	1	N, GAMMA	RESONANCE INTEGRAL
C	27-CO-59	523	5	000	-7	1	500	+	64	287	1	N, GAMMA	RESONANCE INTEGRAL
C	27-CO-59	523	5	000	-7	1	500	+	69	2098	1	N, GAMMA	RESONANCE INTEGRAL
C	27-CO-59	523	5	000	-7	1	500	+	69	3680	1	N, GAMMA	RESONANCE INTEGRAL
C	29-CU-63	523	5	000	-7	1	500	+	71	4006	1	N, GAMMA	RESONANCE INTEGRAL
C	29-CU-63	523	5	000	-7	1	400	+	63	1310	1	N, GAMMA	RESONANCE INTEGRAL
C	29-CU-63	523	5	000	-7	1	500	+	61	2718	1	N, GAMMA	RESONANCE INTEGRAL
C	29-CU-63	523	5	000	-7	1	500	+	61	2718	1	N, GAMMA	RESONANCE INTEGRAL
C	30-ZN-66	523	5	000	-7	1	500	+	69	2001	1	N, GAMMA	RESONANCE INTEGRAL
C	30-ZN-66	523	5	000	-7	1	500	+	63	3980	1	N, GAMMA	RESONANCE INTEGRAL
C	30-ZN-66	523	5	000	-7	1	500	+	63	3980	1	N, GAMMA	RESONANCE INTEGRAL
C	30-ZN-66	523	5	000	-7	1	500	+	67	2001	1	N, GAMMA	RESONANCE INTEGRAL
C	34-SE-74	523	4	400	-7	1	500	+	68	2426	1	N, GAMMA	RESONANCE INTEGRAL
C	34-SE-74	523	6	000	-7	1	500	+	68	2426	1	N, GAMMA	RESONANCE INTEGRAL
C	34-SE-80	523	5	000	-7	1	500	+	65	2070	1	N, GAMMA	RESONANCE INTEGRAL
C	35-BR-81	523	5	000	-7	1	500	+	68	2426	1	N, GAMMA	RESONANCE INTEGRAL
C	35-KR-85	523	5	400	-7	1	500	+	72	3250	1	N, GAMMA	RESONANCE INTEGRAL
C	37-RB-85	523	4	400	-7	1	500	+	67	2001	1	N, GAMMA	RESONANCE INTEGRAL
C	37-RB-85	523	5	000	-7	1	500	+	69	3680	1	N, GAMMA	RESONANCE INTEGRAL
C	38-SP-88	523	5	000	-7	1	500	+	69	3680	1	N, GAMMA	RESONANCE INTEGRAL
C	40-ZR-NA1	523	1	000	-6	5	000	-2	65	1802	1	N, GAMMA	RESONANCE INTEGRAL
C	40-ZR-50	523	1	000	-6	5	000	-2	65	1802	1	N, GAMMA	RESONANCE INTEGRAL
C	40-ZR-91	523	1	000	-6	5	000	-2	65	1802	1	N, GAMMA	RESONANCE INTEGRAL
C	40-ZR-94	523	5	000	-7	1	500	+	73	3479	1	N, GAMMA	RESONANCE INTEGRAL
C	40-ZR-94	523	5	000	-7	1	500	+	71	3479	1	N, GAMMA	RESONANCE INTEGRAL
C	40-ZR-94	523	6	000	-7	1	500	+	72	3871	1	N, GAMMA	RESONANCE INTEGRAL
C	40-ZR-94	523	1	000	-6	5	000	-2	65	1802	1	N, GAMMA	RESONANCE INTEGRAL
C	40-ZR-96	523	5	000	-7	1	500	+	73	3479	1	N, GAMMA	RESONANCE INTEGRAL
C	40-ZR-96	523	5	000	-7	1	500	+	71	3479	1	N, GAMMA	RESONANCE INTEGRAL
C	40-ZR-96	523	6	000	-7	1	500	+	72	3871	1	N, GAMMA	RESONANCE INTEGRAL
C	40-ZR-96	523	5	000	-7	1	500	+	69	2098	1	N, GAMMA	RESONANCE INTEGRAL
C	41-NB-93	523	5	000	-7	1	500	+	61	2715	1	N, GAMMA	RESONANCE INTEGRAL
C	41-NB-93	523	5	000	-7	1	500	+	61	2715	1	N, GAMMA	RESONANCE INTEGRAL
C	41-NB-93	523	5	000	-7	1	500	+	67	2352	1	N, GAMMA	RESONANCE INTEGRAL
C	41-NB-93	523	5	000	-7	1	500	+	69	2916	1	N, GAMMA	RESONANCE INTEGRAL
C	41-NB-94	523	5	000	-7	1	500	+	67	2352	1	N, GAMMA	RESONANCE INTEGRAL
C	41-NB-94	523	5	000	-7	1	500	+	67	3532	1	N, GAMMA	RESONANCE INTEGRAL
C	42-MO-98	523	5	000	-7	1	500	+	67	2001	1	N, GAMMA	RESONANCE INTEGRAL
C	42-MO-98	523	5	000	-7	1	400	+	63	1310	1	N, GAMMA	RESONANCE INTEGRAL
C	42-MO-98	523	5	000	-7	1	500	+	61	2718	1	N, GAMMA	RESONANCE INTEGRAL
C	42-MO-98	523	5	000	-7	1	500	+	69	3680	1	N, GAMMA	RESONANCE INTEGRAL
C	42-MO-98	523	5	000	-7	1	500	+	69	3680	1	N, GAMMA	RESONANCE INTEGRAL

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
1000000000	00000000	0	0.000000	0.000000	00000000	00000000	00000000

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07/04/76

EC51L-7600 REACTION INDEX (REACTI

P.7. ORDERED)

TARGET CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
42-MO-100 523	C	5.000-7	1.500+	63 1310	1	N. GAMMA
44-RU-104 523	C	5.000-7	1.500+	64 2723	1	N. GAMMA
44-RU-105 523	C	5.000-7	1.500+	65 2727	1	N. GAMMA
47-AG-NAT 523	C	5.000-7	1.500+	64 287	1	N. GAMMA
49-1N-NAT 523	C	5.000-7	1.500+	64 287	1	N. GAMMA
49-1N-115 523	C	1.250-7	1.460+	60 1171	1	N. GAMMA
49-1N-115 523	C	5.000-7	1.500+	63 2734	1	N. GAMMA
49-1N-115 523	C	5.000-7	1.500+	63 1310	1	N. GAMMA
51-58-121 523	C	5.000-7	1.500+	69 3680	1	N. GAMMA
52-TE-130 523	C	5.000-7	1.500+	68 2426	1	N. GAMMA
53-1-125 523	C	5.000-7	1.500+	64 2675	1	N. GAMMA
53-1-125 523	C	5.000-7	1.500+	70 3335	1	N. GAMMA
53-1-125 523	C	5.000-7	1.500+	68 2426	1	N. GAMMA
54-XE-124 523	C	5.000-7	1.500+	64 2210	1	N. GAMMA
54-XE-124 523	C	5.000-7	1.500+	63 1010	2	N. GAMMA
54-XE-124 523	C	5.000-7	1.500+	65 2211	2	N. GAMMA
54-XE-124 523	C	5.000-7	1.500+	63 1010	2	N. GAMMA
55-CS-133 523	C	5.000-7	1.500+	64 287	1	N. GAMMA
55-CS-133 523	C	5.000-7	1.500+	69 3680	1	N. GAMMA
55-CS-133 523	C	5.000-7	1.500+	58 1163	1	N. GAMMA
56-BA-130 523	C	5.000-7	1.500+	69 3680	1	N. GAMMA
56-BA-130 523	C	5.000-7	1.500+	68 2426	1	N. GAMMA
56-BA-130 523	C	5.000-7	1.500+	67 3533	1	N. GAMMA
57-LA-139 523	C	5.000-7	1.500+	67 3494	1	N. GAMMA
57-LA-139 523	C	5.000-7	1.500+	67 3434	1	N. GAMMA
58-CE-140 523	C	5.000-7	1.500+	69 3680	1	N. GAMMA
58-CE-140 523	C	5.000-7	1.500+	68 2426	1	N. GAMMA
58-CE-140 523	C	5.000-7	1.500+	68 2426	1	N. GAMMA
58-CE-144 523	C	5.000-7	1.500+	62 2967	1	N. GAMMA
59-PR-141 523	C	5.000-7	1.500+	69 3680	1	N. GAMMA
59-PR-141 523	C	5.000-7	1.500+	59 2957	1	N. GAMMA
60-NO-145 523	C	5.000-7	1.500+	69 3680	1	N. GAMMA
60-NO-145 523	C	5.000-7	1.500+	73 3959	1	N. GAMMA
60-NO-145 523	C	5.000-7	1.500+	64 2824	1	N. GAMMA
60-NO-145 523	C	5.000-7	1.500+	73 3959	1	N. GAMMA
62-SM-147 523	C	5.000-7	1.500+	73 3879	1	N. GAMMA
62-SM-150 523	C	5.000-7	1.500+	72 3110	1	N. GAMMA
62-SM-151 523	C	5.000-7	1.500+	72 3110	1	N. GAMMA
62-SM-152 523	C	5.000-7	1.500+	73 3879	1	N. GAMMA
63-EU-151 523	C	5.000-7	1.500+	70 1020	1	N. GAMMA
63-EU-151 523	C	5.000-7	1.500+	70 1020	1	N. GAMMA
64-GD-152 523	C	5.000-7	1.500+	67 2240	1	N. GAMMA
64-GD-152 523	C	5.000-7	1.500+	66 2244	1	N. GAMMA
64-GD-156 523	C	5.000-7	1.500+	66 2244	1	N. GAMMA
64-GD-159 523	C	5.000-7	1.500+	69 3680	1	N. GAMMA
65-TB-159 523	C	5.000-7	1.500+	69 3680	1	N. GAMMA
66-DY-156 523	C	5.000-7	1.500+	72 3679	1	N. GAMMA
66-DY-158 523	C	5.000-7	1.500+	72 3679	1	N. GAMMA

TARGET CODE S E-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

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TARGE	CODE	S	E	E-MAX	E-MIN	REFERENCE	POINTS	REACTION	DESCRIPTION
C	66-D-154 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	66-D-155 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	67-H-10 523	2	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	67-H-105 523	2	0.0	7	1	000-2	70	421	N,GAMMA
C	67-H-106 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	67-H-163 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	68-EF-12 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	65-EF-164 523	5	0.0	7	1	000-0	70	3375	N,GAMMA
C	68-EF-187 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	68-EF-188 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	68-EF-189 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	68-EF-170 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	69-H-169 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	69-H-169 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	69-H-170 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	69-H-171 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	69-H-171 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	70-EB-168 523	5	0.0	7	1	000-0	70	3377	N,GAMMA
C	70-EB-169 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	70-EB-171 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	70-EB-171 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	70-EB-174 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	70-EB-176 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	72-HF-NA1 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	72-HF-NA1 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	72-HF-180 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	73-TA-NA1 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	73-TA-181 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	73-TA-181 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	73-TA-181 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	74-W-186 523	5	0.0	7	1	400*	1	N,GAMMA	RESONANCE INTEGRAL
C	74-W-186 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	74-W-186 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	75-EF-185 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	75-EF-187 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	78-PT-NA1 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	80-HG-202 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	80-HG-202 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	82-EF-204 523	2	598-	3	1	600-	73	3138	N,GAMMA
C	83-EF-206 523	2	598-	3	1	992-	73	3138	N,GAMMA
C	85-EB-208 523	2	0.0	7	1	017-	3	3138	N,GAMMA
C	86-EB-209 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	90-H-230 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	90-H-230 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	90-H-232 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	90-H-232 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	90-H-232 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL
C	90-H-232 523	5	0.0	7	1	500*	1	N,GAMMA	RESONANCE INTEGRAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

C	90-TH-232	523	5.000-7	1.500+	57 339	1	N, GAMMA	RESONANCE	INTEGRAL
C	90-TH-232	523	5.000-7	1.500+	60 333	1	N, GAMMA	RESONANCE	INTEGRAL
C	90-TH-232	523	5.000-7	1.500+	64 587	1	N, GAMMA	RESONANCE	INTEGRAL
C	90-TH-232	523	5.000-7	1.500+	65 296	1	N, GAMMA	RESONANCE	INTEGRAL
C	90-TH-232	523	5.000-7	1.500+	65 296	1	N, GAMMA	RESONANCE	INTEGRAL
C	90-TH-232	523	5.000-7	1.500+	69 3680	1	N, GAMMA	RESONANCE	INTEGRAL
C	90-TH-232	523	5.000-7	1.500+	62 344	1	N, GAMMA	RESONANCE	INTEGRAL
C	90-TH-232	523	5.000-7	1.500+	60 333	1	N, GAMMA	RESONANCE	INTEGRAL
C	91-PA-233	523	5.000-7	1.500+	70 2109	1	N, GAMMA	RESONANCE	INTEGRAL
C	91-PA-233	523	5.000-7	1.500+	62 1483	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-233	523	5.000-7	1.450+	65 1199	1	N, GAMMA	RESONANCE	INTEGRAL
N	92-U-233	523	5.000-7	1.400+	64 1278	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-233	523	5.000-7	1.500+	67 1442	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-233	523	5.000-7	1.500+	71 3270	2	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-233	523	5.000-7	1.500+	1 68 2086	3	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-233	523	5.400-7	1.500+	63 1441	1	N, GAMMA	RESONANCE	INTEGRAL
N	92-U-235	523	5.000-7	1.400+	64 1277	1	N, GAMMA	RESONANCE	INTEGRAL
N	92-U-235	523	5.000-7	1.400+	64 1278	1	N, GAMMA	RESONANCE	INTEGRAL
N	92-U-235	523	5.000-7	1.400+	65 1311	1	N, GAMMA	RESONANCE	INTEGRAL
N	92-U-235	523	5.000-7	1.500+	67 1442	1	N, GAMMA	RESONANCE	INTEGRAL
N	92-U-235	523	5.000-7	1.500+	71 3270	2	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-235	523	5.000-7	1.500+	1 68 2086	3	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-235	523	5.000-7	1.500+	58 1393	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-236	523	4.000-7	1.500+	62 1392	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-236	523	5.000-7	1.450+	58 438	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-236	523	5.000-7	1.500+	68 193	2	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-236	523	5.000-7	1.500+	58 2098	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-236	523	5.000-7	1.500+	58 163	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-236	523	5.000-7	1.500+	58 1415	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-236	523	5.000-7	1.400+	63 1310	1	N, GAMMA	RESONANCE	INTEGRAL
N	92-U-236	523	5.000-7	1.500+	69 3580	1	N, GAMMA	RESONANCE	INTEGRAL
N	92-U-236	523	5.000-7	1.500+	74 3621	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-238	523	5.000-7	1.500+	62 344	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-238	523	5.000-7	1.500+	62 1435	1	N, GAMMA	RESONANCE	INTEGRAL
C	92-U-238	523	5.000-7	1.500+	69 2038	1	N, GAMMA	RESONANCE	INTEGRAL
C	93-NP-237	523	5.000-7	1.500+	57 1348	1	N, GAMMA	RESONANCE	INTEGRAL
C	94-PU-239	523	5.000-7	1.500+	71 3270	1	N, GAMMA	RESONANCE	INTEGRAL
C	94-PU-239	523	3.000-6	1.500+	1 68 2086	1	N, GAMMA	RESONANCE	INTEGRAL
C	94-PU-239	523	3.000-6	1.500+	1 68 2086	1	N, GAMMA	RESONANCE	INTEGRAL
C	94-PU-241	523	3.000-6	1.500+	71 3270	1	N, GAMMA	RESONANCE	INTEGRAL
C	94-PU-241	523	3.000-6	1.500+	1 68 2086	1	N, GAMMA	RESONANCE	INTEGRAL
C	94-PU-242	523	5.000-7	1.500+	57 1348	1	N, GAMMA	RESONANCE	INTEGRAL
C	94-PU-244	523	5.000-7	1.500+	2 69 2904	1	N, GAMMA	RESONANCE	INTEGRAL
C	95-AH-243	523	5.000-7	1.500+	57 1348	1	N, GAMMA	RESONANCE	INTEGRAL
C	95-AH-243	523	5.000-7	1.500+	67 1193	1	N, GAMMA	RESONANCE	INTEGRAL
C	95-AH-243	523	5.000-7	1.500+	69 2098	1	N, GAMMA	RESONANCE	INTEGRAL
N	95-AH-243	523	5.320-7	1.500+	72 3497	6	N, GAMMA	RESONANCE	INTEGRAL
C	96-CH-242	523	5.000-7	1.500+	65 2098	1	N, GAMMA	RESONANCE	INTEGRAL
C	96-CH-242	523	5.000-7	1.500+	69 2098	1	N, GAMMA	RESONANCE	INTEGRAL
C	96-CH-245	523	5.000-7	1.500+	1 69 3325	1	N, GAMMA	RESONANCE	INTEGRAL
C	96-CH-246	523	5.000-7	1.500+	1 65 2098	1	N, GAMMA	RESONANCE	INTEGRAL
C	96-CH-246	523	5.400-7	1.500+	1 69 3325	1	N, GAMMA	RESONANCE	INTEGRAL
C	98-CF-249	523	5.000-7	1.500+	1 71 3323	1	N, GAMMA	RESONANCE	INTEGRAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	98-CF-250	523	5.000	7	1.500	1 71 3323	1 N.GAMMA RESONANCE INTEGRAL
C	98-CF-251	523	5.000	7	1.500	1 71 3323	1 N.GAMMA RESONANCE INTEGRAL
C	98-CF-252	523	5.400	7	1.500	63 2102	1 N.GAMMA RESONANCE INTEGRAL
N	47-AG-109	523	5.000	7	1.500	72 3704	2 N.GAMMA RESONANCE INTEGRAL
C	49-IN-115	523	1.300	6	1.500	63 2734	1 N.GAMMA RESONANCE INTEGRAL
C	49-IN-115	523	5.220	7	1.400	53 1310	1 N.GAMMA RESONANCE INTEGRAL
C	35-BR-81	523	5.000	7	1.500	65 2070	1 N.GAMMA RESONANCE INTEGRAL
C	49-IN-115	523	5.000	7	1.500	57 339	1 N.GAMMA RESONANCE INTEGRAL
C	49-IN-115	523	1.300	6	1.500	63 2734	1 N.GAMMA RESONANCE INTEGRAL
C	49-IN-115	523	6.220	7	1.400	53 1310	1 N.GAMMA RESONANCE INTEGRAL
C	91-PA-233	523	5.000	7	1.500	55 1484	1 N.GAMMA RESONANCE INTEGRAL
C	91-PA-233	523	5.000	7	1.500	60 328	1 N.GAMMA RESONANCE INTEGRAL
C	91-PA-233	523	6.000	7	1.4 0	58 1163	1 N.GAMMA RESONANCE INTEGRAL
N	30-ZN-68	523	5.000	7	1.500	69 3690	1 N.GAMMA RESONANCE INTEGRAL
C	30-ZN-68	523	6.000	7	1.500	63 3352	1 N.GAMMA RESONANCE INTEGRAL
C	35-BR-81	522	5.000	7	1.500	65 2070	1 N.GAMMA RESONANCE INTEGRAL
C	63-EU-151	523	5.000	7	1.500	67 2240	1 N.GAMMA RESONANCE INTEGRAL
N	60-HG-196	523	5.000	7	1.500	67 3722	2 N.GAMMA RESONANCE INTEGRAL
C	91-PA-233	523	5.000	7	1.500	55 1484	1 N.GAMMA RESONANCE INTEGRAL
C	91-PA-233	523	5.000	7	1.500	60 328	1 N.GAMMA RESONANCE INTEGRAL
N	95-AM-241	523	3.690	7	1.500	73 3503	1 N.GAMMA RESONANCE INTEGRAL
C	95-AM-241	523	5.000	7	1.500	64 1494	1 N.GAMMA RESONANCE INTEGRAL
C	95-AM-241	523	5.000	7	1.500	67 2193	1 N.GAMMA RESONANCE INTEGRAL
C	95-AM-241	523	5.000	7	1.500	69 2098	1 N.GAMMA RESONANCE INTEGRAL
C	95-AM-243	523	5.000	7	1.500	69 2098	1 N.GAMMA RESONANCE INTEGRAL
N	99-ES-253	523	4.120	7	1.500	73 3522	1 N.GAMMA RESONANCE INTEGRAL
C	47-AG-109	523	5.000	7	1.500	68 1964	1 N.GAMMA RESONANCE INTEGRAL
C	47-AG-109	523	5.500	7	1.500	65 2172	1 N.GAMMA RESONANCE INTEGRAL
C	47-AG-109	523	5.000	7	1.500	62 3355	1 N.GAMMA RESONANCE INTEGRAL
N	47-AG-109	523	6.800	7	1.500	72 3727	2 N.GAMMA RESONANCE INTEGRAL
C	48-CD-114	523	5.500	7	1.500	66 2622	1 N.GAMMA RESONANCE INTEGRAL
C	51-SB-123	523	5.000	7	1.500	68 1984	1 N.GAMMA RESONANCE INTEGRAL
C	54-XE-132	523	5.000	7	1.500	2 63 1010	1 N.GAMMA RESONANCE INTEGRAL
C	61-PH-147	523	5.000	7	1.500	60 1441	2 N.GAMMA RESONANCE INTEGRAL
C	61-PH-147	523	5.000	7	1.500	62 2965	2 N.GAMMA RESONANCE INTEGRAL
C	77-IR-191	523	5.000	7	1.500	68 1964	1 N.GAMMA RESONANCE INTEGRAL
C	80-HG-202	523	5.000	7	1.500	68 1964	1 N.GAMMA RESONANCE INTEGRAL
N	99-ES-253	523	4.120	7	1.500	73 3522	1 N.GAMMA RESONANCE INTEGRAL
C	55-CS-133	523	6.000	7	1.500	68 1964	1 N.GAMMA RESONANCE INTEGRAL
C	63-EU-151	523	5.000	7	1.500	67 2240	1 N.GAMMA RESONANCE INTEGRAL
N	95-AM-241	523	3.690	7	1.500	73 3503	1 N.GAMMA RESONANCE INTEGRAL
L	95-AM-241	523	5.000	7	1.500	67 2193	1 N.GAMMA RESONANCE INTEGRAL
C	95-AM-241	523	5.000	7	1.500	69 2098	1 N.GAMMA RESONANCE INTEGRAL
N	30-ZN-68	523	6.000	7	1.500	72 3870	1 N.GAMMA RESONANCE INTEGRAL
N	30-ZN-68	523	6.000	7	1.500	72 3870	1 N.GAMMA RESONANCE INTEGRAL
N	32-GF-74	523	6.000	7	1.500	72 3872	1 N.GAMMA RESONANCE INTEGRAL
N	32-GF-76	523	6.000	7	1.500	72 3873	2 N.GAMMA RESONANCE INTEGRAL
N	32-GF-76	523	6.000	7	1.500	72 3872	1 N.GAMMA RESONANCE INTEGRAL
N	37-RS-65	523	6.000	7	1.500	72 3870	1 N.GAMMA RESONANCE INTEGRAL
N	35-SR-64	523	6.000	7	1.500	72 3873	1 N.GAMMA RESONANCE INTEGRAL
N	40-ZR-94	523	6.000	7	1.500	72 3871	1 N.GAMMA RESONANCE INTEGRAL
N	40-ZR-96	523	6.000	7	1.500	72 3871	1 N.GAMMA RESONANCE INTEGRAL

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 523

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	42-MO-100	523	80	6.000-7	1.500+1	72 3870	1 N, GAMMA RESONANCE INTEGRAL
N	44-RU-96	523	80	5.000-7	1.500+1	72 3873	1 N, GAMMA RESONANCE INTEGRAL
N	44-RJ-102	523	80	6.000-7	1.500+1	72 3870	1 N, GAMMA RESONANCE INTEGRAL
N	44-RU-104	523	80	5.000-7	1.500+1	72 3873	1 N, GAMMA RESONANCE INTEGRAL
N	49-IN-113	523	80	6.000-7	1.500+1	72 3870	1 N, GAMMA RESONANCE INTEGRAL
N	50-SH-124	523	80	5.000-7	1.500+1	72 3873	1 N, GAMMA RESONANCE INTEGRAL
N	51-SB-121	523	80	5.000-7	1.500+1	72 3873	1 N, GAMMA RESONANCE INTEGRAL
N	51-SB-123	523	80	6.000-7	1.500+1	72 3870	1 N, GAMMA RESONANCE INTEGRAL
N	60-ND-146	523	80	6.000-7	1.500+1	73 3959	1 N, GAMMA RESONANCE INTEGRAL
N	60-ND-148	523	80	6.000-7	1.500+1	73 3959	1 N, GAMMA RESONANCE INTEGRAL
N	65-TB-159	523	80	5.000-7	1.500+1	72 3873	1 N, GAMMA RESONANCE INTEGRAL
N	70-YB-168	523	80	5.000-7	1.500+1	72 3873	1 N, GAMMA RESONANCE INTEGRAL
N	72-HF-180	523	80	6.000-7	1.500+1	72 3870	1 N, GAMMA RESONANCE INTEGRAL
C	17-CL-35	526		5.000-7	1.000+0	69 3216	1 N, P RESONANCE INTEGRAL
C	58-CE-140	536		4.000-7	1.000+0	67 3350	1 ACTIVATION RESONANCE INTEGRAL
C	58-CE-142	536		4.000-7	1.000+0	67 3350	1 ACTIVATION RESONANCE INTEGRAL
C	60-ND-146	536		4.000-7	1.000+0	67 3350	1 ACTIVATION RESONANCE INTEGRAL
C	60-ND-148	536		4.000-7	1.000+0	67 3350	1 ACTIVATION RESONANCE INTEGRAL
C	60-ND-150	536		4.000-7	1.000+0	67 3350	1 ACTIVATION RESONANCE INTEGRAL
C	65-TB-159	536		4.000-7	1.000+0	67 3350	1 ACTIVATION RESONANCE INTEGRAL
N	92-U-233	549		5.000-7	1.400+1	64 1278	1 ALPHA RESONANCE INTEGRAL
N	92-U-233	549		5.000-7	1.500+1	67 1442	1 ALPHA RESONANCE INTEGRAL
C	92-U-233	549		5.000-7	1.500+1	68 2086	2 ALPHA RESONANCE INTEGRAL
C	92-U-233	549		5.000-7	1.400+1	63 1441	1 ALPHA RESONANCE INTEGRAL
N	92-U-235	549		5.000-7	1.400+1	64 1277	1 ALPHA RESONANCE INTEGRAL
N	92-U-235	549		5.000-7	1.400+1	64 1278	1 ALPHA RESONANCE INTEGRAL
N	92-U-235	549		5.000-7	1.400+1	68 1428	1 ALPHA RESONANCE INTEGRAL
C	92-U-235	549		5.000-7	1.500+1	67 1492	1 ALPHA RESONANCE INTEGRAL
C	92-U-235	549		5.000-7	1.500+1	67 1442	1 ALPHA RESONANCE INTEGRAL
C	92-U-235	549		5.000-7	1.500+1	68 2086	3 ALPHA RESONANCE INTEGRAL
C	92-U-235	549		5.100-7	1.500+1	65 1443	1 ALPHA RESONANCE INTEGRAL
N	92-U-235	549		1.000-5	5.000-3	70 4042	16 ALPHA RESONANCE INTEGRAL
C	92-U-235	549		1.000-4	2.500-2	70 2531	1 ALPHA RESONANCE INTEGRAL
N	92-U-235	549		5.000-3	1.400+1	71 3412	32 ALPHA RESONANCE INTEGRAL
N	92-U-235	549		8.000-3	6.000-2	71 3656	21 ALPHA RESONANCE INTEGRAL
C	94-PU-239	549		3.000-6	1.500+1	68 2046	1 ALPHA RESONANCE INTEGRAL
N	94-PU-239	549		5.000-5	2.000+1	73 3873	29 ALPHA RESONANCE INTEGRAL
N	94-PU-239	549		1.060-4	1.000-2	70 4055	45 ALPHA RESONANCE INTEGRAL
C	94-PU-239	549		1.000-4	2.500-2	70 2531	1 ALPHA RESONANCE INTEGRAL
N	94-PU-239	549		1.000-4	2.950-2	70 3391	38 ALPHA RESONANCE INTEGRAL
N	94-PU-239	549		1.000-4	3.000-2	70 3613	20 ALPHA RESONANCE INTEGRAL
N	94-PU-239	549		8.000-3	6.000-2	71 3656	21 ALPHA RESONANCE INTEGRAL
C	94-PU-241	549		3.000-6	1.500+1	68 2086	1 ALPHA RESONANCE INTEGRAL
N	94-PU-241	549		1.000-5	2.500+1	73 3828	38 ALPHA RESONANCE INTEGRAL
C	96-CH-245	549		6.200-7	1.000+1	68 2103	1 ALPHA RESONANCE INTEGRAL
73-TA-NAT	603			1.400+1	1.400+1	57 162	18 NONELASTIC ANGULAR DIST. - INTEGRAL E1-E2
83-BI-209	603			1.400+1	1.400+1	57 162	20 NONELASTIC ANGULAR DIST. - INTEGRAL E1-E2
83-BI-209	603 80			4.210+0	4.210+0	60 1029	5 NONELASTIC ANGULAR DIST. - INTEGRAL E1-E2
1-H-2	604			1.480+1	1.480+1	65 3338	36 NEUTRON EMISSION ANGULAR DIST. - INTEGRAL E1-E2
40-ZR-NAT	604			1.410+1	1.410+1	57 317	17 NEUTRON EMISSION ANGULAR DIST. - INTEGRAL E1-E2
73-TA-NAT	605			1.520+1	1.520+1	62 1266	37 TOTAL SCATTERING ANGULAR DIST. - INTEGRAL E1-E2
83-BI-209	605			1.520+1	1.520+1	62 1268	29 TOTAL SCATTERING ANGULAR DIST. - INTEGRAL E1-E2

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 605

07/04/76

ECSIL-600 REACTION INDEX (REACTION NO. ORDERED)

C = 605

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
90-TM-232	605	1.520	1.520	1	62 1268	32	TOTAL SCATTERING ANGULAR DIST. - INTEGRAL E1-E2
92-U -NAT	605	5.500	2.000	0	59 77	45	TOTAL SCATTERING ANGULAR DIST. - INTEGRAL E1-E2
92-U -NAT	605	1.520	1.520	1	62 1268	32	TOTAL SCATTERING ANGULAR DIST. - INTEGRAL E1-E2
92-U -235	605	5.500	2.000	0	59 77	46	TOTAL SCATTERING ANGULAR DIST. - INTEGRAL E1-E2
94-Pu-239	605	5.500	2.000	0	59 77	46	TOTAL SCATTERING ANGULAR DIST. - INTEGRAL E1-E2
4-BE-9	606	1.410	1.410	1	61 650	10	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
4-BE-9	606	1.480	1.480	1	66 1042	62	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
4-BE-9	606	1.500	1.500	1	60 1720	19	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
5-B -NAT	606	1.480	1.480	1	66 1042	12	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
5-B -10	606	1.480	1.480	1	66 1042	10	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
6-C -NAT	606	1.480	1.480	1	66 1042	11	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
12-MO-NAT	606	1.480	1.480	1	66 1042	16	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
14-SI-NAT	606	1.480	1.480	1	66 1042	16	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
22-TI-NAT	606	1.480	1.480	1	66 1042	17	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
23-V -NAT	606	1.480	1.480	1	66 1042	18	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
25-MN-55	606	1.480	1.480	1	66 1042	19	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
26-FE-NAT	606	1.480	1.480	1	66 1042	17	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
26-FE-NAT	606	1.520	1.520	1	60 1029	6	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
27-CO-59	606	1.500	1.500	0	60 1720	10	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
27-CO-59	606	1.480	1.480	1	66 1042	72	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
28-NI-NAT	606	1.480	1.480	1	66 1042	19	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
29-CU-NAT	606	1.480	1.480	1	66 1042	18	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
34-ZN-NAT	606	1.480	1.480	1	66 1042	15	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
39-Y -89	606	1.480	1.480	1	66 1042	12	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
39-Y -89	606	1.520	1.520	1	60 1029	6	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
40-ZR-NAT	606	1.410	1.410	1	57 117	17	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
40-ZR-NAT	606	1.520	1.520	1	60 1029	6	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
42-MO-NAT	606	1.500	1.500	0	60 1720	10	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
42-MO-NAT	606	1.480	1.480	1	66 1042	96	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
43-CD-NAT	606	1.480	1.480	1	66 1042	86	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
48-CO-NAT	606	1.500	1.500	1	60 1720	5	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
51-SB-NAT	606	1.480	1.480	1	66 1042	15	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
56-CE-NAT	606	1.480	1.480	1	66 1042	12	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
73-TA-NAT	606	1.400	1.400	1	57 162	18	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
73-TA-NAT	606	1.410	1.410	1	65 1985	1	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
74-W -NAT	606	1.410	1.410	1	65 1985	1	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
74-W -NAT	606	1.480	1.480	1	66 1042	90	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
74-W -NAT	606	1.500	1.500	1	60 1720	10	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
81-TL-NAT	606	1.410	1.410	1	65 1985	1	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
82-Pb-NAT	606	1.410	1.410	1	65 1985	1	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
82-Pb-NAT	606	1.480	1.480	1	66 1042	16	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
82-Pb-NAT	606	1.520	1.520	1	60 1029	6	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
83-BI-209	606	1.400	1.400	1	57 162	20	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
92-U -238	606	1.400	1.400	1	57 338	9	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
3-LI-NAT	606 80	1.400	1.410	1	63 917	5	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
5-B -NAT	606 80	1.400	1.410	1	63 917	6	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
6-C -NAT	606 80	1.400	1.400	1	63 917	5	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
7-Li -NAT	606 80	1.400	1.400	1	63 917	5	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
8-O -NAT	606 80	1.400	1.400	1	63 917	5	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
26-FE-NAT	606 80	4.200	4.200	0	60 1029	8	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
39-Y -89	606 80	4.210	4.210	0	60 1029	5	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2
39-Y -89	606 80	1.520	1.520	1	59 579	6	NONELASTIC EMISSION ANGULAR DIST. - INTEGRAL E1-E2

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-294 ***

C = 605

07/04/76

ECIL-7000 REACTION INDEX (REACTION NO. ORDERED)

C = 626

TARGET	CODE	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 40-ZR-NAT	606 80	4.210+ 0	4.210+ 0	60 1029	5	NONELASTIC EMISSION
N 40-ZR-NAT	606 80	1.520+ 1	1.520+ 1	59 579	6	NONELASTIC EMISSION
N 82-PB-NAT	606 80	3.670+ 0	4.700+ 0	60 1029	28	NONELASTIC EMISSION
N RADIO LEAD	606 80	4.210+ 0	4.210+ 0	60 1029	5	NONELASTIC EMISSION
N 83-BI-209	606 80	4.210+ 0	4.210+ 0	60 1029	5	NONELASTIC EMISSION
13-AL-27	611	2.400+ 0	2.400+ 0	62 1043	1	N,N'
26-FE-NAT	611	6.000+ 0	6.000+ 0	62 1043	3	N,N'
26-FE-NAT	611	6.040+ 0	6.040+ 0	65 889	11	N,N'
39-Y-89	611	6.040+ 0	6.040+ 0	65 889	11	N,N'
42-MO-NAT	611	6.000+ 0	6.000+ 0	62 1043	13	N,N'
42-MO-NAT	611	6.040+ 0	6.040+ 0	65 889	11	N,N'
45-RH-103	611	6.000+ 0	6.000+ 0	62 1043	13	N,N'
45-RH-103	611	6.040+ 0	6.040+ 0	65 889	11	N,N'
48-CD-NAT	611	6.000+ 0	6.000+ 0	62 1043	13	N,N'
48-CD-NAT	611	6.040+ 0	6.040+ 0	65 889	11	N,N'
50-SN-NAT	611	6.000+ 0	6.000+ 0	62 1043	13	N,N'
50-SN-NAT	611	6.040+ 0	6.040+ 0	65 889	11	N,N'
83-BI-209	611	4.400+ 0	4.400+ 0	56 486	1	N,N'
83-BI-209	611	6.000+ 0	6.000+ 0	62 1043	11	N,N'
83-BI-209	611	6.040+ 0	6.040+ 0	65 889	10	N,N'
26-FE-NAT	611 80	3.670+ 0	4.210+ 0	59 1719	18	N,N'
39-Y-89	611 80	3.670+ 0	4.210+ 0	59 579	17	N,N'
40-ZR-NAT	611 80	3.670+ 0	4.210+ 0	59 579	18	N,N'
82-PB-NAT	611 80	3.670+ 0	4.700+ 0	59 1719	28	N,N'
RADIO LEAD	611 80	4.210+ 0	4.210+ 0	59 579	5	N,N'
83-BI-209	611 80	4.210+ 0	4.210+ 0	59 579	6	N,N'
4-BE-9	612 80	1.400+ 1	1.400+ 1	63 917	6	N,2N
3-LI-6	615	4.000+ 0	7.540+ 0	63 841	33	N,N'D
3-LI-7	616	5.150+ 0	7.540+ 0	63 841	23	N,N'T
7-N-NAT	624	4.500+ 0	8.500+ 0	64 1671	28	N,X GAMMA
9-O-NAT	624	7.500+ 0	8.500+ 0	64 1671	22	N,X GAMMA
12-MO-NAT	624	4.500+ 0	8.500+ 0	64 1671	42	N,X GAMMA
13-AL-27	624	3.500+ 0	8.500+ 0	64 1671	47	N,X GAMMA
13-AL-27	624	1.500+ 1	1.500+ 1	60 1720	6	N,X GAMMA
14-SI-NAT	624	3.500+ 0	8.500+ 0	64 1671	37	N,X GAMMA
16-S-NAT	624	3.500+ 0	8.500+ 0	64 1671	31	N,X GAMMA
26-FE-NAT	624	3.500+ 0	8.500+ 0	64 1671	48	N,X GAMMA
26-FE-NAT	624	1.500+ 1	1.500+ 1	60 1720	6	N,X GAMMA
28-NI-NAT	624	3.500+ 0	8.500+ 0	64 1671	45	N,X GAMMA
28-NI-NAT	624	1.500+ 1	1.500+ 1	60 1720	6	N,X GAMMA
20-CU-NAT	624	1.500+ 1	1.500+ 1	60 1720	6	N,X GAMMA
96-BA-NAT	624	5.500+ 0	8.500+ 0	64 1671	28	N,X GAMMA
76-W-NAT	624	3.500+ 0	8.500+ 0	64 1671	39	N,X GAMMA
92-PB-NAT	624	3.500+ 0	8.500+ 0	64 1671	47	N,X GAMMA
12-MO-NAT	626	1.400+ 1	1.400+ 1	57 391	8	N,P
13-AL-27	626	1.410+ 1	1.410+ 1	57 159	5	N,P
28-NI-NAT	626	1.400+ 1	1.400+ 1	57 391	8	N,P
29-CU-NAT	626	1.400+ 1	1.400+ 1	57 391	8	N,P
45-RH-103	626	1.400+ 1	1.400+ 1	57 391	8	N,P
46-PD-NAT	626	1.400+ 1	1.400+ 1	57 391	5	N,P
13-AL-27	627	1.320+ 1	1.320+ 1	57 847	41	N,X P
26-FE-NAT	627	1.320+ 1	1.320+ 1	57 847	36	N,X P

TARGET	CODE	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-295 ***

C = 627

07/04/76

EC511-600 REACTION INDEX (REACTION NO. ORDERED)

C - 872

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	92-U-235 872	1.500	4	9.500	1	75 3951	43 N.F.
N	92-U-235 872	3.000	2	3.000	0	57 210	20 N.F.
N	92-U-235 872	6.500	2	5.450	1	76 3956	21 N.F.
N	92-U-235 872	1.000	0	6.000	0	73 3947	41 N.F.
N	92-U-235 872	1.400	1	1.400	1	50 1413	1 N.F.
N	92-U-235 872	1.460	1	1.460	1	58 608	1 N.F.
N	92-U-236 872	1.152	1	3.289	1	75 3619	64 N.F.
N	92-U-236 872	1.270	1	5.050	1	65 1091	3 N.F.
N	92-U-236 872	1.000	0	5.000	0	68 1362	16 N.F.
N	92-U-236 872	1.000	0	1.410	1	64 1090	4 N.F.
N	92-U-236 872	1.400	1	1.400	1	50 1413	1 N.F.
N	92-U-238 872	1.442	1	2.917	1	75 3619	239 N.F.
N	92-U-238 872	4.000	1	1.400	0	70 3172	5 N.F.
N	92-U-238 872	6.437	1	2.183	1	75 3805	224 N.F.
C	92-U-238 872	8.980	1	5.330	0	72 3249	22 N.F.
N	92-U-238 872	1.040	0	3.031	0	75 3592	30 N.F.
N	92-U-238 872	1.324	0	3.041	1	74 3806	147 N.F.
N	92-U-238 872	1.500	0	5.000	0	68 1362	14 N.F.
N	92-U-238 872	2.000	0	3.000	0	72 3190	6 N.F.
N	92-U-238 872	2.250	0	1.410	1	64 1090	3 N.F.
N	92-U-238 872	5.330	0	1.032	1	72 3629	20 N.F.
N	92-U-238 872	1.460	1	1.460	1	75 3901	1 N.F.
N	92-NP-237 872	4.000	2	5.050	1	65 1791	5 N.F.
N	93-NP-237 872	1.000	0	4.500	0	68 1362	12 N.F.
N	93-NP-237 872	1.000	0	1.410	1	64 1090	4 N.F.
N	94-Pu-239 872	0.000	0	0.000	0	75 3905	33 N.F.
N	94-Pu-239 872	2.530	8	2.530	8	57 1391	1 N.F.
N	94-Pu-239 872	2.530	8	2.530	8	70 2915	2 N.F.
N	94-Pu-239 872	2.530	8	5.450	7	66 1350	8 N.F.
N	94-Pu-239 872	3.216	8	6.260	8	65 1372	2 N.F.
N	94-Pu-239 872	2.000	4	3.460	2	70 3315	26 N.F.
N	94-Pu-239 872	2.400	4	2.400	2	70 2526	26 N.F.
N	94-Pu-239 872	2.500	4	9.500	3	73 4086	17 N.F.
N	94-Pu-239 872	4.500	3	1.800	1	66 1337	77 N.F.
N	94-Pu-239 872	5.200	3	1.000	0	67 2599	48 N.F.
N	94-Pu-239 872	3.000	2	5.490	0	72 3179	27 N.F.
N	94-Pu-239 872	4.000	2	5.050	1	65 1091	5 N.F.
N	94-Pu-239 872	1.011	1	2.958	1	75 3953	165 N.F.
N	94-Pu-239 872	1.500	1	3.250	1	69 2902	4 N.F.
N	94-Pu-239 872	1.500	1	1.400	0	70 3173	11 N.F.
N	94-Pu-239 872	3.400	1	2.560	0	68 2195	47 N.F.
N	94-Pu-239 872	8.200	1	5.350	0	69 3490	35 N.F.
N	94-Pu-239 872	1.000	0	1.410	1	64 1090	4 N.F.
N	94-Pu-239 872	1.400	1	1.400	1	50 1413	1 N.F.
N	94-Pu-240 872	1.350	2	1.750	1	66 1337	10 N.F.
N	94-Pu-240 872	5.200	1	3.730	0	69 3390	26 N.F.
N	94-Pu-240 872	1.000	0	1.410	1	64 1090	4 N.F.
N	94-Pu-241 872	1.600	8	5.450	7	66 1356	9 N.F.
N	94-Pu-241 872	2.530	8	2.530	8	55 1205	1 N.F.
N	94-Pu-241 872	2.530	8	2.530	8	57 1391	1 N.F.
N	94-Pu-241 872	1.249	2	3.433	1	75 3954	166 N.F.
N	94-Pu-241 872	4.000	2	5.050	1	65 1091	5 N.F.

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-297 ***

C - 872

[illegible]

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 873

TARGET	CODE	S	E-MIN-MEV	F-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 92-U	-238 873		2.000-	2	1.200+ 0	74 3535	54 N, GAMMA CROSS SECTION RATIO
N 92-U	-238 873		1.210-	1	2.730+ 0	71 3498	48 N, GAMMA CROSS SECTION RATIO
N 92-U	-238 873		1.300-	1	1.400+ 0	70 3173	12 N, GAMMA CROSS SECTION RATIO
N 92-U	-238 873		4.000-	1	4.000- 1	71 3821	1 N, GAMMA CROSS SECTION RATIO
N 93-NP	-237 873		1.210-	1	2.730+ 0	71 3498	15 N, GAMMA CROSS SECTION RATIO
C 95-AM	-243 873	2	3.000-	1	4.000+ 0	67 2900	13 N, GAMMA CROSS SECTION RATIO
34-SE	-82 873	3	2.500-	8	2.500- 8	67 2390	1 N, GAMMA CROSS SECTION RATIO
35-BR	-79 873	3	2.500-	8	3.100+ 0	65 3293	8 N, GAMMA CROSS SECTION RATIO
N 78-PT	-198 873	3	1.500+	1	1.500+ 1	73 4000	1 N, GAMMA CROSS SECTION RATIO
32-GE	-76 873	4	2.500-	8	2.500- 8	67 2390	1 N, GAMMA CROSS SECTION RATIO
N 63-EU	-151 873	4	-3.610-	9	4.600- 7	71 3695	3 N, GAMMA CROSS SECTION RATIO
75-RE	-187 873	4	2.500-	8	2.500- 8	64 2632	1 N, GAMMA CROSS SECTION RATIO
95-AM	-243 873	4	2.500-	8	2.500- 8	64 1475	1 N, GAMMA CROSS SECTION RATIO
38-SR	-84 873	5	2.500-	8	2.500- 8	64 2632	1 N, GAMMA CROSS SECTION RATIO
51-SB	-121 873	5	2.500-	8	2.500- 8	64 2632	1 N, GAMMA CROSS SECTION RATIO
55-CS	-133 873	6	1.000+	0	1.000+ 0	71 3225	1 N, GAMMA CROSS SECTION RATIO
N 13-AL	-27 876		2.805+	0	9.960+ 0	73 3342	02 N, P CROSS SECTION RATIO
20-CA	-44 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
N 22-TI	-46 876		3.668+	0	9.950+ 0	73 3342	30 N, P CROSS SECTION RATIO
N 22-TI	-47 876		9.140+	1	9.950+ 0	73 3342	73 N, P CROSS SECTION RATIO
N 22-TI	-48 876		4.724+	0	9.950+ 0	73 3342	19 N, P CROSS SECTION RATIO
N 22-TI	-49 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
N 26-FE	-54 876		1.979+	0	9.948+ 0	73 3342	39 N, P CROSS SECTION RATIO
N 26-FE	-56 876		3.979+	0	9.945+ 0	73 3342	29 N, P CROSS SECTION RATIO
N 27-CO	-59 876		4.334+	0	9.944+ 0	73 3342	17 N, P CROSS SECTION RATIO
N 28-NI	-59 876		4.410+	1	9.897+ 0	73 3342	115 N, P CROSS SECTION RATIO
N 30-ZN	-64 876		1.159+	0	9.939+ 0	73 3342	33 N, P CROSS SECTION RATIO
N 30-ZN	-66 876		5.561+	0	9.965+ 0	75 3635	16 N, P CROSS SECTION RATIO
30-ZN	-66 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
30-ZN	-67 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
31-GA	-71 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
32-GE	-72 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
32-GE	-73 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
32-GE	-74 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
38-SR	-88 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
40-ZR	-91 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
40-ZR	-92 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
40-ZR	-94 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
40-CD	-106 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
48-CD	-112 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
48-CD	-113 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
58-CE	-142 876		1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
31-GA	-71 876	3	1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
N 50-SN	-117 876	3	1.300+	1	1.650+ 1	75 3818	6 N, P CROSS SECTION RATIO
31-GA	-69 876	4	1.400+	1	1.400+ 1	57 930	1 N, P CROSS SECTION RATIO
49-IN	-115 876	4	1.000+	1	2.500+ 1	58 3349	4 N, P CROSS SECTION RATIO
50-SN	-118 876	4	1.500+	1	2.500+ 1	58 3349	3 N, P CROSS SECTION RATIO
28-NI	-58 876	5	1.040+	0	2.670+ 0	63 768	11 N, P CROSS SECTION RATIO
28-NI	-58 876	5	1.850+	0	1.763+ 1	68 2340	20 N, P CROSS SECTION RATIO
28-NI	-58 876	5	2.700+	0	2.000+ 1	63 1009	4 N, P CROSS SECTION RATIO
N 3-LI	-6 880		1.033-	3	1.711+ 0	74 3259	179 N, T CROSS SECTION RATIO
5-B	-10 880	1	1.440+	1	1.440+ 1	67 2690	1 N, T CROSS SECTION RATIO

TARGET	CODE	S	E-MIN-MEV	F-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-299 ***

C = 880

07/04/76

ECSIL-5600 REACTION INDEX (REACTION NO. ORDERED)

C = 897

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	90-TH-232	897	2.000+ 0	2.000+ 0	1 55 1341	1	NU-BAR DELAYED CROSS SECTION RATIO
	90-TH-232	897	1.400+ 1	1.400+ 1	69 3958	1	NU-BAR DELAYED CROSS SECTION RATIO
	92-U -233	897	2.500- 8	2.500- 8	45 1461	1	NU-BAR DELAYED CROSS SECTION RATIO
	92-U -233	897	2.530- 8	2.530- 8	69 3958	1	NU-BAR DELAYED CROSS SECTION RATIO
	92-U -233	897	2.000+ 0	2.000+ 0	1 55 1341	1	NU-BAR DELAYED CROSS SECTION RATIO
	92-U -235	897	2.500- 8	2.500- 8	48 1421	1	NU-BAR DELAYED CROSS SECTION RATIO
	92-U -238	897	2.000+ 0	2.000+ 0	1 55 1341	1	NU-BAR DELAYED CROSS SECTION RATIO
	92-U -238	897	1.400+ 1	1.400+ 1	69 3958	1	NU-BAR DELAYED CROSS SECTION RATIO
	94-FU-239	897	2.500- 8	2.500- 8	47 1418	1	NU-BAR DELAYED CROSS SECTION RATIO
	94-FU-239	897	2.500- 8	2.500- 8	47 1419	1	NU-BAR DELAYED CROSS SECTION RATIO
	94-FU-239	897	2.500- 8	2.500- 8	47 1420	1	NU-BAR DELAYED CROSS SECTION RATIO
	94-FU-239	897	2.530- 8	2.530- 8	69 3958	1	NU-BAR DELAYED CROSS SECTION RATIO
	94-FU-239	897	2.000+ 0	2.000+ 0	1 55 1341	1	NU-BAR DELAYED CROSS SECTION RATIO
	92-U -233	898	2.500- 8	2.500- 8	55 1099	1	ETA CROSS SECTION RATIO
	94-FU-239	898	-2.600- 7	3.530- 5	58 935	131	ETA CROSS SECTION RATIO
	94-FU-239	898	2.500- 8	2.500- 8	55 1099	1	ETA CROSS SECTION RATIO
	94-FU-239	898	2.530- 8	2.530- 8	67 1523	1	ETA CROSS SECTION RATIO
	94-FU-241	898	2.530- 8	2.530- 8	67 1523	1	ETA CROSS SECTION RATIO
	4-BE-9		1.410+ 1	1.410+ 1	66 1932	1	NUCLEAR TEMPERATURE
	6-C -NAT		1.410+ 1	1.410+ 1	65 1908	1	NUCLEAR TEMPERATURE
	8-O -17		1.410+ 1	1.410+ 1	72 3360	1	NUCLEAR TEMPERATURE
	11-NA-23		1.400+ 1	1.400+ 1	61 883	1	NUCLEAR TEMPERATURE
	11-NA-23		1.410+ 1	1.410+ 1	66 1932	1	NUCLEAR TEMPERATURE
	12-MG-NAT		1.410+ 1	1.410+ 1	66 1932	1	NUCLEAR TEMPERATURE
	12-MG-NAT		1.480+ 1	1.480+ 1	67 2897	1	NUCLEAR TEMPERATURE
	13-AL-27		9.200+ 0	9.200+ 0	71 4041	1	NUCLEAR TEMPERATURE
	13-AL-27		1.400+ 1	1.400+ 1	65 985	2	NUCLEAR TEMPERATURE
	13-AL-27		1.410+ 1	1.410+ 1	65 1908	1	NUCLEAR TEMPERATURE
	14-SI-NAT		1.410+ 1	1.410+ 1	65 1908	1	NUCLEAR TEMPERATURE
	14-SI-NAT		1.480+ 1	1.480+ 1	67 2897	1	NUCLEAR TEMPERATURE
	15-P -31		1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
	16-S -NAT		1.410+ 1	1.410+ 1	66 1932	1	NUCLEAR TEMPERATURE
	19-K -NAT		1.410+ 1	1.410+ 1	66 1932	1	NUCLEAR TEMPERATURE
	20-Ca-NAT		1.410+ 1	1.410+ 1	66 1932	1	NUCLEAR TEMPERATURE
	22-Ti-NAT		1.400+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
	22-Ti-NAT		1.480+ 1	1.480+ 1	67 2897	2	NUCLEAR TEMPERATURE
	23-V -NAT		1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
	23-V -NAT		1.480+ 1	1.480+ 1	67 2897	2	NUCLEAR TEMPERATURE
	24-CR-NAT		1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
	25-MN-55		1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
	25-MN-55		1.480+ 1	1.480+ 1	67 2897	2	NUCLEAR TEMPERATURE
	26-FE-NAT		6.000+ 0	6.000+ 0	62 1043	1	NUCLEAR TEMPERATURE
	26-FE-NAT		1.400+ 1	1.400+ 1	61 883	1	NUCLEAR TEMPERATURE
	26-FE-NAT		1.400+ 1	1.400+ 1	65 985	3	NUCLEAR TEMPERATURE
	26-FE-NAT		1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
	26-FE-NAT		1.430+ 1	1.430+ 1	69 2360	2	NUCLEAR TEMPERATURE
	26-FE-NAT		1.480+ 1	1.480+ 1	67 2897	2	NUCLEAR TEMPERATURE
	27-CO-59		1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE
	27-CO-59		1.480+ 1	1.480+ 1	67 2897	2	NUCLEAR TEMPERATURE
	28-NI-NAT		1.400+ 1	1.400+ 1	61 883	1	NUCLEAR TEMPERATURE
	28-NI-NAT		1.400+ 1	1.400+ 1	65 985	3	NUCLEAR TEMPERATURE
	28-NI-NAT		1.410+ 1	1.410+ 1	65 1908	2	NUCLEAR TEMPERATURE

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-301 ***

C = 901

07/04/76

ECSIL-160C REACTION INDEX (REACTION NO. ORDERED)

C = 901

TARGET	CODE	E	E-MIN	E-MAX	REF	PCIN'S	REACTION DESCRIPTION
28-NI-NAT		1.480	1	1.480	1	67 2897	NUCLEAR TEMPERATURE
29-CU-NAT		9.200	0	9.200	0	71 4041	NUCLEAR TEMPERATURE
29-CU-NAT		1.400	1	1.400	1	65 585	NUCLEAR TEMPERATURE
29-CU-NAT		1.410	1	1.410	1	65 1908	NUCLEAR TEMPERATURE
29-CU-NAT		1.430	1	1.430	1	69 2362	NUCLEAR TEMPERATURE
29-CU-NAT		1.480	1	1.480	1	67 2897	NUCLEAR TEMPERATURE
30-ZN-NAT		1.410	1	1.410	1	65 1908	NUCLEAR TEMPERATURE
30-ZN-NAT		1.410	1	1.410	1	65 1908	NUCLEAR TEMPERATURE
34-SE-NAT		1.480	1	1.480	1	67 2897	NUCLEAR TEMPERATURE
38-SR-NAT		1.410	1	1.410	1	66 1932	NUCLEAR TEMPERATURE
39-Y -89		6.000	0	6.000	0	62 1043	NUCLEAR TEMPERATURE
40-ZR-NAT		1.480	1	1.480	1	67 2897	NUCLEAR TEMPERATURE
40-ZR-NAT		1.410	1	1.410	1	57 317	NUCLEAR TEMPERATURE
41-NB-93		3.500	0	3.500	0	65 1908	NUCLEAR TEMPERATURE
41-NB-93		9.200	0	9.200	0	71 3926	NUCLEAR TEMPERATURE
41-NB-93		1.410	1	1.410	1	65 1908	NUCLEAR TEMPERATURE
41-NB-93		1.430	1	1.430	1	69 2360	NUCLEAR TEMPERATURE
42-MO-NAT		2.500	0	2.500	0	70 3928	NUCLEAR TEMPERATURE
42-MO-NAT		6.000	0	6.000	0	62 1043	NUCLEAR TEMPERATURE
42-MO-NAT		1.410	1	1.410	1	65 1908	NUCLEAR TEMPERATURE
42-MO-NAT		1.480	1	1.480	1	67 2897	NUCLEAR TEMPERATURE
45-RH-103		6.000	0	6.000	0	62 1043	NUCLEAR TEMPERATURE
48-CD-NAT		6.000	0	6.000	0	62 1043	NUCLEAR TEMPERATURE
48-CD-NAT		1.400	1	1.400	1	65 585	NUCLEAR TEMPERATURE
48-CD-NAT		1.410	1	1.410	1	65 1908	NUCLEAR TEMPERATURE
48-CD-NAT		1.480	1	1.480	1	67 2897	NUCLEAR TEMPERATURE
49-IN-NAT		1.413	1	1.410	1	66 1932	NUCLEAR TEMPERATURE
50-SN-NAT		6.000	0	6.000	0	62 1043	NUCLEAR TEMPERATURE
50-SN-NAT		1.400	1	1.400	1	65 585	NUCLEAR TEMPERATURE
50-SN-NAT		1.410	1	1.410	1	65 1908	NUCLEAR TEMPERATURE
51-SB-NAT		1.480	1	1.480	1	67 2897	NUCLEAR TEMPERATURE
51-SB-NAT		1.410	1	1.410	1	66 1932	NUCLEAR TEMPERATURE
52-TE-NAT		1.410	1	1.410	1	65 1908	NUCLEAR TEMPERATURE
53-I -157		1.410	1	1.410	1	66 1932	NUCLEAR TEMPERATURE
58-CE-NAT		1.410	1	1.410	1	66 1932	NUCLEAR TEMPERATURE
58-CE-NAT		1.480	1	1.480	1	67 2897	NUCLEAR TEMPERATURE
73-TA-NAT		1.410	1	1.410	1	66 1932	NUCLEAR TEMPERATURE
74-H -NAT		1.410	1	1.410	1	65 1908	NUCLEAR TEMPERATURE
80-MG-NAT		1.480	1	1.480	1	67 2897	NUCLEAR TEMPERATURE
82-Pb-NAT		1.410	1	1.410	1	66 1932	NUCLEAR TEMPERATURE
82-Pb-NAT		1.400	1	1.400	1	65 585	NUCLEAR TEMPERATURE
82-Pb-NAT		1.400	1	1.400	1	65 1908	NUCLEAR TEMPERATURE
82-Pb-NAT		1.480	1	1.480	1	67 2897	NUCLEAR TEMPERATURE
93-B -208		6.000	0	6.000	0	62 1043	NUCLEAR TEMPERATURE
93-B -208		1.410	1	1.410	1	65 1908	NUCLEAR TEMPERATURE
93-B -208		1.480	1	1.480	1	67 2897	NUCLEAR TEMPERATURE
90-TM-232		2.510	0	2.510	0	70 3928	NUCLEAR TEMPERATURE
90-TM-232		1.470	1	1.470	1	69 1909	NUCLEAR TEMPERATURE
90-TM-232		3.000	0	3.000	0	65 1909	NUCLEAR TEMPERATURE

TARGET CODE E-MIN-E-MAX REF PCIN'S REACTION DESCRIPTION

*** 2-302 ***

C = 901

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	14-SI-NAT	3.000+	0	5.000+	0	63 642	4 AVERAGE RESONANCE PARAMETERS
N	14-SI-28	2.500+	3	5.000+	1	75 4005	2 AVERAGE RESONANCE PARAMETERS
N	15-P-31	3.000+	0	4.000+	0	63 642	2 AVERAGE RESONANCE PARAMETERS
N	16-S-NAT	1.000+	0	5.000+	0	63 642	4 AVERAGE RESONANCE PARAMETERS
C	16-S-32	0.000+	0	1.300+	0	66 1048	1 AVERAGE RESONANCE PARAMETERS
N	17-CL-NAT	3.000+	0	5.000+	0	63 642	4 AVERAGE RESONANCE PARAMETERS
N	17-CL-35	0.000+	0	1.133+	1	74 3634	2 AVERAGE RESONANCE PARAMETERS
N	17-CL-35	0.000+	0	1.150+	1	69 2537	2 AVERAGE RESONANCE PARAMETERS
C	17-CL-37	0.000+	0	1.150+	1	69 2537	2 AVERAGE RESONANCE PARAMETERS
N	17-CL-37	8.300+	3	9.310+	2	74 3634	1 AVERAGE RESONANCE PARAMETERS
N	19-K-39	0.000+	0	1.020+	1	73 3632	2 AVERAGE RESONANCE PARAMETERS
N	19-K-41	0.000+	0	4.000+	2	73 3632	2 AVERAGE RESONANCE PARAMETERS
C	20-CA-40	0.000+	0	2.800+	1	61 728	2 AVERAGE RESONANCE PARAMETERS
C	20-CA-40	0.000+	0	6.350+	1	66 1049	1 AVERAGE RESONANCE PARAMETERS
C	20-CA-40	0.000+	0	1.300+	0	68 3072	2 AVERAGE RESONANCE PARAMETERS
N	20-CA-40	2.500+	3	2.000+	1	75 4005	5 AVERAGE RESONANCE PARAMETERS
C	20-CA-42	0.000+	0	6.500+	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
C	20-CA-43	2.000+	3	3.230+	2	65 924	2 AVERAGE RESONANCE PARAMETERS
C	20-CA-44	0.000+	0	2.800+	1	61 728	2 AVERAGE RESONANCE PARAMETERS
C	20-CA-44	0.000+	0	6.600+	1	66 1049	1 AVERAGE RESONANCE PARAMETERS
N	21-SC-45	1.900+	2	1.070+	1	70 3658	9 AVERAGE RESONANCE PARAMETERS
C	22-TI-46	0.000+	0	3.900+	1	66 1046	1 AVERAGE RESONANCE PARAMETERS
C	22-TI-46	4.890+	2	1.794+	1	71 2079	2 AVERAGE RESONANCE PARAMETERS
C	22-TI-47	2.000+	3	6.000+	2	65 924	2 AVERAGE RESONANCE PARAMETERS
C	22-TI-47	3.074+	3	4.210+	2	71 2079	1 AVERAGE RESONANCE PARAMETERS
N	22-TI-47	8.000+	3	7.600+	2	70 3658	9 AVERAGE RESONANCE PARAMETERS
C	22-TI-48	0.000+	0	3.000+	1	61 728	2 AVERAGE RESONANCE PARAMETERS
C	22-TI-48	0.000+	0	3.900+	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
C	22-TI-48	1.760+	2	1.910+	1	71 2079	2 AVERAGE RESONANCE PARAMETERS
C	22-TI-49	2.000+	3	6.000+	2	65 924	2 AVERAGE RESONANCE PARAMETERS
C	22-TI-49	3.835+	3	3.230+	2	71 2079	1 AVERAGE RESONANCE PARAMETERS
C	22-TI-49	1.700+	2	2.500+	1	70 3067	2 AVERAGE RESONANCE PARAMETERS
C	22-TI-50	0.000+	0	3.900+	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
C	23-V-51	0.000+	0	1.200+	2	58 548	1 AVERAGE RESONANCE PARAMETERS
C	23-V-51	0.000+	0	4.600+	2	71 3108	2 AVERAGE RESONANCE PARAMETERS
N	23-V-51	0.000+	0	5.000+	2	66 1834	1 AVERAGE RESONANCE PARAMETERS
N	23-V-51	0.000+	0	1.300+	1	69 2537	2 AVERAGE RESONANCE PARAMETERS
C	23-V-51	3.000+	3	8.500+	1	64 1226	1 AVERAGE RESONANCE PARAMETERS
C	24-CR-NAT	1.400+	2	5.000+	2	68 3301	1 AVERAGE RESONANCE PARAMETERS
C	24-CR-50	0.000+	0	5.900+	2	71 3108	2 AVERAGE RESONANCE PARAMETERS
N	24-CR-50	0.000+	0	6.200+	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
C	24-CR-52	0.000+	0	1.300+	1	71 3108	2 AVERAGE RESONANCE PARAMETERS
N	24-CR-52	0.000+	0	6.300+	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
N	24-CR-52	2.500+	3	2.000+	1	75 4005	4 AVERAGE RESONANCE PARAMETERS
C	24-CR-53	0.000+	0	2.000+	2	58 548	1 AVERAGE RESONANCE PARAMETERS
C	24-CR-53	0.000+	0	6.700+	2	71 3108	2 AVERAGE RESONANCE PARAMETERS
C	24-CR-53	2.000+	3	4.000+	2	65 924	3 AVERAGE RESONANCE PARAMETERS
C	24-CR-53	1.800+	2	1.200+	1	69 3067	12 AVERAGE RESONANCE PARAMETERS
C	24-CR-53	1.900+	2	2.500+	1	70 3067	2 AVERAGE RESONANCE PARAMETERS
C	24-CR-54	0.000+	0	6.800+	2	71 3108	2 AVERAGE RESONANCE PARAMETERS
N	24-CR-54	0.000+	0	4.000+	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
C	25-MN-55	0.000+	0	1.500+	2	58 548	1 AVERAGE RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

EC5IL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	25-MN-55	0.000+	0	4.000-	2	67 3118	1 AVERAGE RESONANCE PARAMETERS
N	25-MN-55	0.000+	0	8.000-	2	65 1872	1 AVERAGE RESONANCE PARAMETERS
C	25-MN-55	3.000-	3	6.500-	1	64 1226	1 AVERAGE RESONANCE PARAMETERS
C	25-MN-55	1.400-	2	5.000-	2	68 3301	1 AVERAGE RESONANCE PARAMETERS
C	26-FE-54	0.000+	0	1.600-	1	61 728	2 AVERAGE RESONANCE PARAMETERS
C	26-FE-54	0.000+	0	1.725-	1	71 2079	1 AVERAGE RESONANCE PARAMETERS
N	26-FE-54	0.000+	0	5.060-	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
C	26-FE-56	0.000+	0	1.870-	1	71 2079	1 AVERAGE RESONANCE PARAMETERS
N	26-FE-56	0.000+	0	2.000-	1	61 728	2 AVERAGE RESONANCE PARAMETERS
N	26-FE-56	0.000+	0	6.450-	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
N	26-FE-57	0.000+	0	2.000-	1	66 3657	13 AVERAGE RESONANCE PARAMETERS
C	26-FE-57	2.000-	3	5.500-	2	65 924	2 AVERAGE RESONANCE PARAMETERS
C	27-CO-55	0.000+	0	1.200-	1	66 1872	3 AVERAGE RESONANCE PARAMETERS
C	27-CO-55	7.000+	0	1.200-	1	67 3118	6 AVERAGE RESONANCE PARAMETERS
C	28-NI-NAT	8.000-	3	5.000-	2	68 3301	2 AVERAGE RESONANCE PARAMETERS
C	28-NI-58	0.000+	0	2.070-	1	71 2079	2 AVERAGE RESONANCE PARAMETERS
N	28-NI-58	0.000+	0	2.300-	1	61 728	2 AVERAGE RESONANCE PARAMETERS
N	28-NI-58	0.000+	0	6.000-	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
C	28-NI-60	0.000+	0	8.000-	2	71 3108	2 AVERAGE RESONANCE PARAMETERS
N	28-NI-60	0.000+	0	1.960-	1	71 2079	2 AVERAGE RESONANCE PARAMETERS
N	28-NI-60	0.000+	0	2.300-	1	61 728	2 AVERAGE RESONANCE PARAMETERS
N	28-NI-60	0.000+	0	6.000-	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
C	28-NI-61	2.000-	3	5.000-	2	65 924	2 AVERAGE RESONANCE PARAMETERS
N	28-NI-61	7.000-	3	6.900-	2	70 3658	9 AVERAGE RESONANCE PARAMETERS
C	28-NI-62	0.000+	0	1.485-	1	71 2079	2 AVERAGE RESONANCE PARAMETERS
N	28-NI-62	0.000+	0	6.000-	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
C	28-NI-64	0.000+	0	6.000-	1	66 1048	1 AVERAGE RESONANCE PARAMETERS
C	29-CU-NAT	0.000+	0	1.500-	2	66 1872	1 AVERAGE RESONANCE PARAMETERS
C	29-CU-NAT	0.000+	0	5.000-	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	29-CU-63	3.000-	3	6.500-	1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C	29-CU-63	0.000+	0	6.000-	2	65 924	2 AVERAGE RESONANCE PARAMETERS
C	29-CU-65	5.700-	4	3.120-	2	69 1817	1 AVERAGE RESONANCE PARAMETERS
C	29-CU-65	0.000+	0	6.000-	2	65 924	2 AVERAGE RESONANCE PARAMETERS
C	30-ZN-NAT	3.000-	3	2.580-	2	69 1817	1 AVERAGE RESONANCE PARAMETERS
C	30-ZN-67	0.000+	0	6.500-	1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C	30-ZN-67	0.000+	0	5.000-	3	65 953	1 AVERAGE RESONANCE PARAMETERS
C	31-GA-NAT	0.000+	0	5.000-	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	32-GE-70	0.000+	0	2.860-	2	68 3015	2 AVERAGE RESONANCE PARAMETERS
C	32-GE-72	0.000+	0	2.940-	2	68 3015	2 AVERAGE RESONANCE PARAMETERS
C	32-GE-73	0.000+	0	8.530-	3	68 3015	2 AVERAGE RESONANCE PARAMETERS
C	32-GE-74	0.000+	0	6.200-	2	68 3015	2 AVERAGE RESONANCE PARAMETERS
C	32-GE-76	0.000+	0	4.880-	2	68 3015	2 AVERAGE RESONANCE PARAMETERS
C	33-AS-75	0.000+	0	7.500-	6	58 548	1 AVERAGE RESONANCE PARAMETERS
C	33-AS-75	0.000+	0	4.000-	3	66 1872	1 AVERAGE RESONANCE PARAMETERS
N	33-AS-75	0.000+	0	1.000-	2	64 814	2 AVERAGE RESONANCE PARAMETERS
N	33-AS-75	0.000+	0	5.000-	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	33-AS-75	3.000-	3	6.500-	1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C	34-SE-74	0.000+	0	7.200-	3	70 3047	2 AVERAGE RESONANCE PARAMETERS
C	34-SE-76	0.000+	0	5.350-	3	64 1015	2 AVERAGE RESONANCE PARAMETERS
C	34-SE-76	0.000+	0	1.320-	2	70 3047	2 AVERAGE RESONANCE PARAMETERS
C	34-SE-76	4.950-	3	3.480-	2	61 2475	1 AVERAGE RESONANCE PARAMETERS
C	34-SE-77	0.000+	0	9.910-	4	64 1015	3 AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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... 2 105 ...

C = 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	34-SE-77	0	0.000	0	2.300-3	66 1872	2 AVERAGE RESONANCE PARAMETERS
C	34-SE-77	0	0.000	0	3.900-3	70 3047	2 AVERAGE RESONANCE PARAMETERS
C	34-SE-78	0	0.000	0	2.000-2	70 3047	2 AVERAGE RESONANCE PARAMETERS
C	34-SE-80	0	0.000	0	6.000-3	64 1015	1 AVERAGE RESONANCE PARAMETERS
N	34-SE-80	0	0.000	0	1.500-2	59 1774	1 AVERAGE RESONANCE PARAMETERS
N	34-SE-80	0	0.000	0	2.300-2	70 3047	2 AVERAGE RESONANCE PARAMETERS
C	35-BR-NAT	0	0.000	0	1.873-3	65 1913	1 AVERAGE RESONANCE PARAMETERS
C	35-BR-NAT	0	0.000	0	2.000-3	66 1872	1 AVERAGE RESONANCE PARAMETERS
C	35-BR-NAT	0	0.000	0	5.000-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	35-BR-79	0	0.000	0	4.000-4	63 2068	1 AVERAGE RESONANCE PARAMETERS
C	35-BR-79	3	0.000	5	1.500-4	59 1774	1 AVERAGE RESONANCE PARAMETERS
C	36-KR-NAT	0	0.000	0	6.400-4	59 2072	1 AVERAGE RESONANCE PARAMETERS
C	37-RB-NAT	0	0.000	0	5.000-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	37-RB-85	0	0.000	0	1.300-3	65 2075	2 AVERAGE RESONANCE PARAMETERS
N	37-RB-85	0	0.000	0	7.000-3	61 737	2 AVERAGE RESONANCE PARAMETERS
N	37-RB-85	0	0.000	0	1.700-2	70 3049	1 AVERAGE RESONANCE PARAMETERS
C	37-RB-87	0	0.000	0	2.350-2	70 3049	1 AVERAGE RESONANCE PARAMETERS
C	38-SK-86	0	0.000	0	2.240-1	61 737	1 AVERAGE RESONANCE PARAMETERS
C	38-SR-88	0	0.000	0	2.200-1	61 726	3 AVERAGE RESONANCE PARAMETERS
C	38-SR-88	0	0.000	0	2.240-1	61 737	2 AVERAGE RESONANCE PARAMETERS
C	39-Y -89	0	0.000	0	1.100-2	61 737	1 AVERAGE RESONANCE PARAMETERS
C	39-Y -89	0	0.000	0	3.000-2	69 2537	2 AVERAGE RESONANCE PARAMETERS
N	39-Y -89	0	0.000	0	5.000-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	39-Y -89	3	0.000	3	6.500-1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-90	0	0.000	0	2.000-2	64 894	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-90	0	0.000	0	5.000-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	40-ZR-90	0	0.000	0	7.000-2	68 925	3 AVERAGE RESONANCE PARAMETERS
N	40-ZR-90	2	5.000	3	1.500-1	75 4005	5 AVERAGE RESONANCE PARAMETERS
C	40-ZR-90	3	0.000	3	6.500-1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-90	3	848	3	1.721-2	69 3092	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-91	0	0.000	0	2.000-3	69 2537	2 AVERAGE RESONANCE PARAMETERS
N	40-ZR-91	0	0.000	0	2.000-2	64 894	2 AVERAGE RESONANCE PARAMETERS
N	40-ZR-91	0	0.000	0	5.000-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	40-ZR-91	1	810	4	4.266-3	69 3092	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-91	3	0.000	3	6.500-1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-92	0	0.000	0	2.000-2	64 894	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-92	0	0.000	0	5.000-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	40-ZR-92	0	0.000	0	5.200-2	68 925	3 AVERAGE RESONANCE PARAMETERS
C	40-ZR-92	2	0.04	3	9.791-3	69 3092	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-92	3	0.00	3	6.500-1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-94	0	0.000	0	2.000-2	64 894	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-94	0	0.000	0	4.400-2	68 925	3 AVERAGE RESONANCE PARAMETERS
N	40-ZR-94	0	0.000	0	5.000-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	40-ZR-94	2	263	3	1.423-2	69 3092	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-94	3	0.00	3	6.500-1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-95	0	0.000	0	2.000-2	64 894	2 AVERAGE RESONANCE PARAMETERS
C	40-ZR-95	0	0.00	0	5.800-2	68 925	3 AVERAGE RESONANCE PARAMETERS
C	41-NB-93	0	0.000	0	6.400-3	65 814	6 AVERAGE RESONANCE PARAMETERS
N	41-NB-93	0	0.00	0	5.000-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	41-NB-93	1	0.00	3	1.000-0	66 1328	5 AVERAGE RESONANCE PARAMETERS
C	41-NB-93	2	0.00	3	6.500-1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C	41-NB-93	3	0.00	3	3.000-2	68 3301	1 AVERAGE RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C - 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	42-MO-NAT	0.000+	0	1.000- 3	68 814	2	AVERAGE RESONANCE PARAMETERS
C	42-MO-NAT	3.000- 3	6.500- 1	64 1226		2	AVERAGE RESONANCE PARAMETERS
C	42-MO-95	0.000+	0	7.500- 4	55 862	2	AVERAGE RESONANCE PARAMETERS
C	42-MO-95	0.000+	0	1.200- 3	69 3016	3	AVERAGE RESONANCE PARAMETERS
N	42-MO-95	0.000+	0	1.418- 3	68 814	1	AVERAGE RESONANCE PARAMETERS
N	42-MO-95	0.000+	0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N	42-MO-95	0.000+	0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	42-MO-95	4.500- 5	1.150- 3	71 3124		2	AVERAGE RESONANCE PARAMETERS
C	42-MO-96	0.000+	0	1.540- 3	69 3016	1	AVERAGE RESONANCE PARAMETERS
N	42-MO-96	0.000+	0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	42-MO-97	0.000+	0	7.500- 4	55 862	2	AVERAGE RESONANCE PARAMETERS
C	42-MO-97	0.000+	0	9.000- 4	60 3016	2	AVERAGE RESONANCE PARAMETERS
N	42-MO-97	0.000+	0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N	42-MO-97	0.000+	0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
N	42-MO-97	0.000+	0	1.260+ 3	68 814	1	AVERAGE RESONANCE PARAMETERS
C	42-MO-97	7.000- 5	1.250- 3	71 3124		3	AVERAGE RESONANCE PARAMETERS
C	42-MO-98	0.000+	0	1.540- 3	69 3016	1	AVERAGE RESONANCE PARAMETERS
N	42-MO-98	0.000+	0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	42-MO-98	1.000- 5	1.000- 3	71 3124		1	AVERAGE RESONANCE PARAMETERS
C	42-MO-98	1.318- 3	1.610- 3	68 814		1	AVERAGE RESONANCE PARAMETERS
C	42-MO-98	1.000- 2	1.000+ 0	66 1328		3	AVERAGE RESONANCE PARAMETERS
C	42-MO-100	0.000+	0	1.250- 3	68 814	1	AVERAGE RESONANCE PARAMETERS
N	42-MO-100	0.000+	0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	42-MO-100	1.000- 2	1.000+ 0	66 1328		3	AVERAGE RESONANCE PARAMETERS
C	43-TC-99	0.000+	0	5.000- 4	70 3095	2	AVERAGE RESONANCE PARAMETERS
C	44-RU-NAT	3.000- 3	6.500- 1	64 1226		2	AVERAGE RESONANCE PARAMETERS
C	44-RU-99	0.000+	0	6.700- 4	71 3069	5	AVERAGE RESONANCE PARAMETERS
C	44-RU-100	0.000+	0	6.700- 4	71 3069	1	AVERAGE RESONANCE PARAMETERS
C	44-RU-101	0.000+	0	6.700- 4	71 3069	5	AVERAGE RESONANCE PARAMETERS
C	44-RU-102	0.000+	0	1.300- 3	71 3069	2	AVERAGE RESONANCE PARAMETERS
C	44-RU-104	0.000+	0	1.300- 3	71 3069	2	AVERAGE RESONANCE PARAMETERS
C	45-RH-103	0.000+	0	1.600- 4	63 2148	2	AVERAGE RESONANCE PARAMETERS
N	45-RH-103	0.000+	0	3.500- 4	62 2143	1	AVERAGE RESONANCE PARAMETERS
N	45-RH-103	0.000+	0	3.500- 4	63 2160	3	AVERAGE RESONANCE PARAMETERS
N	45-RH-103	0.000+	0	4.000- 4	62 2145	1	AVERAGE RESONANCE PARAMETERS
N	45-RH-103	0.000+	0	8.000- 4	63 2145	2	AVERAGE RESONANCE PARAMETERS
N	45-RH-103	0.000+	0	1.400- 3	70 2480	4	AVERAGE RESONANCE PARAMETERS
N	45-RH-103	0.000+	0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	45-RH-103	1.259- 6	1.000+ 0	71 3137		3	AVERAGE RESONANCE PARAMETERS
C	45-RH-103	1.000- 3	1.000+ 0	66 1328		3	AVERAGE RESONANCE PARAMETERS
C	45-RH-103	3.000- 3	6.500- 1	64 1226		2	AVERAGE RESONANCE PARAMETERS
N	45-RH-103	6.314- 3	2.973- 1	75 3552		4	AVERAGE RESONANCE PARAMETERS
C	45-RH-103	7.800- 3	6.400- 2	66 3019		1	AVERAGE RESONANCE PARAMETERS
C	46-PD-NAT	3.000- 3	6.500- 1	64 1226		2	AVERAGE RESONANCE PARAMETERS
N	46-PD-105	6.314- 3	2.973- 1	75 3552		4	AVERAGE RESONANCE PARAMETERS
C	47-AG-NAT	0.000+	0	6.000- 4	60 2472	2	AVERAGE RESONANCE PARAMETERS
C	47-AG-NAT	0.000+	0	7.000- 4	66 1872	2	AVERAGE RESONANCE PARAMETERS
N	47-AG-NAT	0.000+	0	2.000- 3	65 814	5	AVERAGE RESONANCE PARAMETERS
N	47-AG-NAT	0.000+	0	5.000- 2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	47-AG-NAT	4.000- 6	7.500- 4	69 2547		2	AVERAGE RESONANCE PARAMETERS
C	47-AG-NAT	3.000- 3	6.500- 1	64 1226		2	AVERAGE RESONANCE PARAMETERS
C	47-AG-NAT	8.000- 3	3.000- 2	68 3301		1	AVERAGE RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C * 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	47-AG-107	0.000+	0	1.000-	4	54 459	1 AVERAGE RESONANCE PARAMETERS
N	47-AG-107	0.000+	0	6.500-	4	68 4018	3 AVERAGE RESONANCE PARAMETERS
N	47-AG-107	0.000+	0	9.000-	4	68 2387	2 AVERAGE RESONANCE PARAMETERS
N	47-AG-107	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	47-AG-107	0.000+	0	2.500-	3	69 3050	6 AVERAGE RESONANCE PARAMETERS
C	47-AG-107	0.000+	0	7.500-	4	69 2547	1 AVERAGE RESONANCE PARAMETERS
C	47-AG-109	0.000+	0	1.000-	4	54 459	1 AVERAGE RESONANCE PARAMETERS
N	47-AG-109	0.000+	0	6.500-	4	68 4018	3 AVERAGE RESONANCE PARAMETERS
N	47-AG-109	0.000+	0	9.000-	4	68 2387	2 AVERAGE RESONANCE PARAMETERS
N	47-AG-109	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	47-AG-109	0.000+	0	2.500-	3	69 3050	6 AVERAGE RESONANCE PARAMETERS
C	47-AG-109	4.000-	6	7.500-	4	69 2547	1 AVERAGE RESONANCE PARAMETERS
C	47-AG-109	7.800-	3	6.400-	2	66 3019	1 AVERAGE RESONANCE PARAMETERS
C	48-CD-NAT	3.000+	3	6.500-	1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C	48-CD-111	0.000+	0	2.000-	4	57 863	1 AVERAGE RESONANCE PARAMETERS
C	48-CD-111	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	48-CD-111	2.770-	5	2.336-	4	61 960	1 AVERAGE RESONANCE PARAMETERS
N	48-CD-112	6.691-	5	3.020-	3	71 3424	4 AVERAGE RESONANCE PARAMETERS
N	48-CD-112	6.691-	5	3.020-	3	72 3424	1 AVERAGE RESONANCE PARAMETERS
C	48-CD-112	6.780-	5	2.268-	4	61 960	1 AVERAGE RESONANCE PARAMETERS
C	48-CD-113	0.130+	0	2.000-	4	57 863	1 AVERAGE RESONANCE PARAMETERS
C	48-CD-113	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	48-CD-113	2.000-	7	2.154-	4	61 960	1 AVERAGE RESONANCE PARAMETERS
C	49-IN-NAT	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	49-IN-NAT	3.000+	3	6.500-	1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C	49-IN-NAT	8.000+	3	3.000-	2	68 3301	1 AVERAGE RESONANCE PARAMETERS
C	49-IN-NAT	3.000-	2	6.500-	1	68 1992	2 AVERAGE RESONANCE PARAMETERS
C	49-IN-113	0.000+	0	4.900-	5	55 862	2 AVERAGE RESONANCE PARAMETERS
C	49-IN-113	0.070+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	49-IN-115	0.000+	0	5.600-	5	55 862	2 AVERAGE RESONANCE PARAMETERS
C	49-IN-115	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	49-IN-115	0.000+	0	2.000-	3	71 3116	2 AVERAGE RESONANCE PARAMETERS
N	49-IN-115	0.000+	0	5.000-	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	49-IN-115	3.000-	2	2.000-	1	60 727	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-NAT	3.000-	2	6.500-	1	64 1226	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-112	0.000+	0	3.000-	4	55 862	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-112	0.000+	0	1.000-	3	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-114	0.000+	0	3.000-	4	55 862	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-114	0.000+	0	1.000-	3	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-115	0.000+	0	5.000-	4	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-115	0.000+	0	3.000-	4	55 862	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-116	0.000+	0	1.000-	3	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-116	0.000+	0	5.000-	2	66 1994	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-116	1.120+	4	1.810-	3	66 2167	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-116	1.000-	3	1.000-	1	68 2090	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-117	0.000+	0	3.000-	4	55 862	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-117	0.000+	0	5.000-	4	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-117	0.000+	0	1.000-	3	69 2381	1 AVERAGE RESONANCE PARAMETERS
N	50-SN-117	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	50-SN-117	0.000+	0	5.000-	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-117	1.000+	3	1.000-	1	68 2090	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-118	0.000+	0	3.000-	4	55 862	1 AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-308 ***

C * 941

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	50-SN-119	0.000	0	1.000	3	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-118	4.000	4	5.100	3	55 2187	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-118	1.000	3	1.000	1	68 2090	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-119	0.000	0	3.000	4	55 862	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-119	0.000	0	5.000	4	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-119	0.000	0	5.000	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-119	1.000	3	1.000	1	68 2090	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-120	0.000	0	3.000	4	55 862	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-120	0.000	0	1.000	3	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-120	0.000	0	4.300	3	69 2435	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-120	1.000	3	1.000	1	68 2090	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-120	1.000	3	1.000	1	68 2090	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-122	0.000	0	1.000	3	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-122	0.000	0	5.000	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-122	1.000	3	1.000	1	68 2090	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-122	0.000	0	5.000	2	66 1894	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-122	1.000	3	1.000	1	68 2090	3 AVERAGE RESONANCE PARAMETERS
C	50-SN-124	0.000	0	3.000	4	55 862	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-124	0.000	0	1.000	3	63 934	2 AVERAGE RESONANCE PARAMETERS
C	50-SN-124	0.000	0	5.000	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	50-SN-124	6.000	5	2.380	3	66 2187	3 AVERAGE RESONANCE PARAMETERS
C	51-CJ-NAT	0.000	0	1.200	3	68 814	5 AVERAGE RESONANCE PARAMETERS
C	51-SB-NAT	0.000	0	5.000	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	51-SB-NAT	3.000	3	6.500	1	64 1226	3 AVERAGE RESONANCE PARAMETERS
C	51-SB-NAT	8.000	3	3.000	2	68 3301	1 AVERAGE RESONANCE PARAMETERS
C	51-SB-NAT	3.000	2	6.500	1	68 1992	2 AVERAGE RESONANCE PARAMETERS
C	51-SB-121	0.000	0	1.500	4	70 3073	2 AVERAGE RESONANCE PARAMETERS
N	51-SB-121	0.000	0	7.000	4	69 3044	3 AVERAGE RESONANCE PARAMETERS
N	51-SB-121	0.000	0	2.000	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	51-SB-121	6.240	6	1.670	4	61 960	1 AVERAGE RESONANCE PARAMETERS
C	51-SB-123	0.000	0	1.100	3	69 3044	3 AVERAGE RESONANCE PARAMETERS
N	51-SB-123	0.000	0	2.000	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	51-SB-123	2.180	5	1.930	4	61 960	1 AVERAGE RESONANCE PARAMETERS
N	52-TE-NAT	0.000	0	4.000	3	70 3606	3 AVERAGE RESONANCE PARAMETERS
N	52-TE-NAT	0.000	0	1.600	3	68 814	3 AVERAGE RESONANCE PARAMETERS
N	52-TE-122	0.000	0	1.080	2	70 3606	2 AVERAGE RESONANCE PARAMETERS
N	52-TE-123	0.000	0	6.600	4	70 3606	4 AVERAGE RESONANCE PARAMETERS
N	52-TE-124	0.000	0	2.800	2	70 3606	2 AVERAGE RESONANCE PARAMETERS
N	52-TE-125	0.000	0	7.800	3	70 3606	4 AVERAGE RESONANCE PARAMETERS
N	52-TE-126	0.000	0	1.770	2	70 3606	2 AVERAGE RESONANCE PARAMETERS
N	52-TE-128	1.000	0	2.180	2	70 3606	2 AVERAGE RESONANCE PARAMETERS
N	52-TE-130	0.000	0	3.010	2	70 3606	2 AVERAGE RESONANCE PARAMETERS
N	52-TE-130	0.000	0	1.190	1	61 737	1 AVERAGE RESONANCE PARAMETERS
C	52-TE-130	2.000	3	1.200	1	61 728	2 AVERAGE RESONANCE PARAMETERS
C	53-1-127	0.000	0	1.000	4	54 459	1 AVERAGE RESONANCE PARAMETERS
C	53-1-127	0.000	0	1.690	4	63 2544	2 AVERAGE RESONANCE PARAMETERS
C	53-1-127	0.000	0	1.960	4	58 2545	3 AVERAGE RESONANCE PARAMETERS
N	53-1-127	0.000	0	2.000	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	53-1-127	0.000	0	3.000	3	65 814	6 AVERAGE RESONANCE PARAMETERS
N	53-1-127	0.000	0	5.000	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	53-1-127	3.000	3	6.500	1	64 1226	3 AVERAGE RESONANCE PARAMETERS
C	53-1-127	3.000	2	6.500	1	68 1992	2 AVERAGE RESONANCE PARAMETERS
C	53-1-129	0.000	0	1.530	4	63 2544	2 AVERAGE RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

*** 2-309 ***

C = 941

TARGET	CODE	S	E	C-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	53-1-129	0.000-0	5	1.710-4	58 844	1	2	AVERAGE RESONANCE PARAMETERS
C	54-AE-NAT	0.000-0	1	1.260-4	59 2072	1	1	AVERAGE RESONANCE PARAMETERS
N	54-AE-128	2.300-0	3	3.440-3	64 3650	2	2	AVERAGE RESONANCE PARAMETERS
N	54-AE-129	2.300-0	3	3.440-3	64 3650	2	2	AVERAGE RESONANCE PARAMETERS
N	54-AE-130	1.300-0	3	3.600-3	64 3650	2	2	AVERAGE RESONANCE PARAMETERS
N	54-AE-131	1.400-0	3	3.600-3	64 3650	2	2	AVERAGE RESONANCE PARAMETERS
N	54-AE-132	6.430-4	3	4.000-3	64 3650	2	2	AVERAGE RESONANCE PARAMETERS
C	55-CE-133	0.000-0	6	6.000-4	55 83	2	2	AVERAGE RESONANCE PARAMETERS
C	55-CE-133	0.000-0	2	2.000-3	58 1191	1	1	AVERAGE RESONANCE PARAMETERS
C	55-CE-133	0.000-0	3	3.000-3	65 814	1	5	AVERAGE RESONANCE PARAMETERS
C	55-CE-133	0.000-0	5	5.000-2	66 1894	1	1	AVERAGE RESONANCE PARAMETERS
C	56-BA-134	5.900-6	4	4.070-4	69 3094	2	2	AVERAGE RESONANCE PARAMETERS
N	56-BA-135	0.000-0	6	2.000-3	71 3925	1	2	AVERAGE RESONANCE PARAMETERS
N	56-BA-135	0.000-0	6	2.000-3	68 1872	2	2	AVERAGE RESONANCE PARAMETERS
N	56-BA-135	4.000-6	2	2.000-3	58 1191	1	1	AVERAGE RESONANCE PARAMETERS
N	56-BA-135	2.400-5	3	3.400-4	71 3925	1	1	AVERAGE RESONANCE PARAMETERS
N	56-BA-135	3.050-3	3	3.978-3	74 3848	1	3	AVERAGE RESONANCE PARAMETERS
N	56-BA-137	2.400-5	2	2.000-3	71 3925	1	1	AVERAGE RESONANCE PARAMETERS
N	56-BA-137	3.000-0	2	2.500-4	69 1917	1	1	AVERAGE RESONANCE PARAMETERS
N	56-BA-138	3.000-0	2	2.000-2	75 4005	4	4	AVERAGE RESONANCE PARAMETERS
N	56-BA-138	1.000-0	2	2.000-2	60 2559	1	1	AVERAGE RESONANCE PARAMETERS
N	57-LA-139	0.000-0	3	1.000-3	67 2215	2	2	AVERAGE RESONANCE PARAMETERS
N	57-LA-139	0.000-0	0	1.100-2	67 2215	1	2	AVERAGE RESONANCE PARAMETERS
N	57-LA-139	0.000-0	0	5.000-2	66 1894	1	1	AVERAGE RESONANCE PARAMETERS
C	58-CE-140	0.000-0	3	6.500-1	64 1826	3	3	AVERAGE RESONANCE PARAMETERS
C	58-CE-142	0.000-0	2	2.000-1	61 737	1	1	AVERAGE RESONANCE PARAMETERS
N	58-CE-142	0.000-0	0	3.000-1	61 737	1	1	AVERAGE RESONANCE PARAMETERS
C	58-PR-141	1.290-3	4	4.380-3	70 4024	1	1	AVERAGE RESONANCE PARAMETERS
C	58-PR-141	0.000-0	0	2.000-3	58 1191	1	1	AVERAGE RESONANCE PARAMETERS
C	58-PR-141	0.000-0	0	5.700-3	66 1872	2	2	AVERAGE RESONANCE PARAMETERS
N	59-PR-141	0.000-0	0	6.000-3	69 2537	1	1	AVERAGE RESONANCE PARAMETERS
N	59-PR-141	0.000-0	0	1.000-2	66 814	6	6	AVERAGE RESONANCE PARAMETERS
N	59-PR-141	0.000-0	0	5.000-2	66 1894	1	1	AVERAGE RESONANCE PARAMETERS
C	60-ND-NAT	0.000-0	3	2.000-3	71 3607	2	2	AVERAGE RESONANCE PARAMETERS
C	60-ND-142	3.000-0	3	6.501-1	64 1226	2	2	AVERAGE RESONANCE PARAMETERS
C	60-ND-142	0.000-0	0	6.300-3	57 2204	2	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-143	0.000-0	2	3.100-2	71 3607	2	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-143	0.000-0	4	6.400-4	67 2204	2	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-143	0.000-0	3	5.500-3	58 1191	1	1	AVERAGE RESONANCE PARAMETERS
C	60-ND-144	4.000-6	7	7.300-4	69 1817	1	1	AVERAGE RESONANCE PARAMETERS
C	60-ND-144	5.500-5	7	7.100-4	71 3123	2	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-145	0.000-0	0	1.940-2	67 2204	2	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-145	0.000-0	6	6.630-4	72 3622	2	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-145	0.000-0	1	1.000-3	67 2204	2	2	AVERAGE RESONANCE PARAMETERS
N	60-ND-145	0.000-0	2	2.000-3	58 1191	1	1	AVERAGE RESONANCE PARAMETERS
N	60-ND-145	0.000-0	3	4.650-3	71 3607	2	2	AVERAGE RESONANCE PARAMETERS

TARGET CODE S E C-MIN-HEV E-MAX-HEV REFERENCE POINTS REACTION DESCRIPTION

... 2-310 ...

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	60-ND-145	4.000	-6	7.300	-4	69 1817	1 AVERAGE RESONANCE PARAMETERS
C	60-ND-145	4.200	-5	3.100	-4	71 3123	2 AVERAGE RESONANCE PARAMETERS
N	60-ND-146	0.000	0	0.000	0	70 3970	1 AVERAGE RESONANCE PARAMETERS
N	60-ND-146	0.000	0	4.000	-3	67 2204	2 AVERAGE RESONANCE PARAMETERS
N	60-ND-146	0.000	0	1.800	-2	71 3607	2 AVERAGE RESONANCE PARAMETERS
N	60-ND-148	0.000	0	0.000	0	70 3970	1 AVERAGE RESONANCE PARAMETERS
N	60-ND-148	0.000	0	4.500	-3	67 2204	2 AVERAGE RESONANCE PARAMETERS
N	60-ND-148	0.000	0	1.200	-2	71 3607	2 AVERAGE RESONANCE PARAMETERS
N	60-ND-150	0.000	0	0.000	0	70 3970	1 AVERAGE RESONANCE PARAMETERS
N	60-ND-150	0.000	0	4.000	-3	67 2204	2 AVERAGE RESONANCE PARAMETERS
N	60-ND-150	0.000	0	1.400	-2	71 3607	2 AVERAGE RESONANCE PARAMETERS
C	61-PM-147	0.000	0	1.000	-4	71 2944	2 AVERAGE RESONANCE PARAMETERS
C	61-PM-147	0.000	0	1.000	-4	73 3253	2 AVERAGE RESONANCE PARAMETERS
C	61-PM-147	1.000	-6	5.000	-5	58 9444	2 AVERAGE RESONANCE PARAMETERS
C	62-SM-147	0.000	0	6.000	-4	71 3110	2 AVERAGE RESONANCE PARAMETERS
N	62-SM-147	0.000	0	2.000	-3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	62-SM-147	0.000	0	5.000	-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
N	62-SM-147	3.400	-6	4.120	-4	72 3410	6 AVERAGE RESONANCE PARAMETERS
N	62-SM-147	1.800	-5	4.000	-4	71 3403	2 AVERAGE RESONANCE PARAMETERS
C	62-SM-149	0.000	0	2.000	-3	58 3944	3 AVERAGE RESONANCE PARAMETERS
C	62-SM-149	0.000	0	2.000	-3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	62-SM-149	0.000	0	5.000	-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
N	62-SM-149	4.980	-6	1.547	-4	72 3410	2 AVERAGE RESONANCE PARAMETERS
N	62-SM-149	1.500	-5	1.300	-4	71 3403	3 AVERAGE RESONANCE PARAMETERS
C	62-SM-150	0.000	0	8.000	-4	71 3110	2 AVERAGE RESONANCE PARAMETERS
C	62-SM-151	0.000	0	1.275	-5	63 2544	2 AVERAGE RESONANCE PARAMETERS
N	62-SM-151	0.000	0	2.270	-3	75 3846	5 AVERAGE RESONANCE PARAMETERS
C	62-SM-152	0.000	0	7.000	-4	68 2154	2 AVERAGE RESONANCE PARAMETERS
C	62-SM-152	8.060	-6	1.502	-3	69 2666	1 AVERAGE RESONANCE PARAMETERS
C	62-SM-154	0.000	0	1.300	-3	68 2154	2 AVERAGE RESONANCE PARAMETERS
C	62-SM-154	9.301	-5	2.492	-3	69 2666	1 AVERAGE RESONANCE PARAMETERS
C	63-EU-NAT	0.000	0	7.700	-6	55 862	1 AVERAGE RESONANCE PARAMETERS
C	63-EU-151	0.000	0	2.000	-3	58 1131	1 AVERAGE RESONANCE PARAMETERS
C	63-EU-151	0.000	0	5.000	-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	63-EU-151	1.055	-6	9.861	-5	69 2666	1 AVERAGE RESONANCE PARAMETERS
N	63-EU-151	6.314	-3	2.973	-1	75 3552	4 AVERAGE RESONANCE PARAMETERS
C	63-EU-153	0.000	0	2.000	-3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	63-EU-153	0.000	0	5.000	-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	63-EU-153	1.730	-6	9.760	-5	69 2666	1 AVERAGE RESONANCE PARAMETERS
N	63-EU-153	6.314	-3	2.973	-1	75 3552	4 AVERAGE RESONANCE PARAMETERS
C	64-GD-NAT	3.000	-7	6.500	-1	64 1226	3 AVERAGE RESONANCE PARAMETERS
C	64-GD-152	0.000	0	2.300	-4	68 2154	2 AVERAGE RESONANCE PARAMETERS
C	64-GD-152	0.000	0	1.000	-3	68 2991	1 AVERAGE RESONANCE PARAMETERS
C	64-GD-154	0.000	0	2.300	-4	68 2154	2 AVERAGE RESONANCE PARAMETERS
C	64-GD-154	0.000	0	1.000	-3	68 2991	1 AVERAGE RESONANCE PARAMETERS
C	64-GD-155	0.000	0	9.300	-5	70 2464	2 AVERAGE RESONANCE PARAMETERS
N	64-GD-155	0.000	0	1.800	-4	68 2154	2 AVERAGE RESONANCE PARAMETERS
N	64-GD-155	0.000	0	1.830	-4	70 2268	4 AVERAGE RESONANCE PARAMETERS
N	64-GD-155	0.000	0	2.000	-3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	64-GD-155	3.000	-6	2.000	-2	70 3063	6 AVERAGE RESONANCE PARAMETERS
C	64-GD-156	0.000	0	1.200	-5	68 2154	2 AVERAGE RESONANCE PARAMETERS
C	64-GD-157	0.000	0	1.840	-4	70 2268	4 AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-311 ***

C = 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
Z	64-GD-157	0.000+	0	2.410-	4	70 2464	2 AVERAGE RESONANCE PARAMETERS
N	64-GD-157	0.000+	0	3.000-	4	68 2154	2 AVERAGE RESONANCE PARAMETERS
N	64-GD-157	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	64-GD-157	3.000-	6	2.000-	2	70 3063	6 AVERAGE RESONANCE PARAMETERS
N	64-GD-158	0.000+	0	0.000+	0	70 3970	1 AVERAGE RESONANCE PARAMETERS
N	64-GD-158	0.000+	0	2.000-	3	68 2154	2 AVERAGE RESONANCE PARAMETERS
C	64-GD-160	0.000+	0	2.410-	3	68 2154	2 AVERAGE RESONANCE PARAMETERS
C	65-TB-159	0.000+	0	6.000-	5	55 862	1 AVERAGE RESONANCE PARAMETERS
C	65-TB-159	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	7B-159	3.000+	0	5.000-	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	60-DY-NAT	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	66-DY-156	2.150-	6	4.690-	5	69 3409	2 AVERAGE RESONANCE PARAMETERS
N	66-DY-160	1.045-	5	1.994-	3	75 3535	2 AVERAGE RESONANCE PARAMETERS
C	66-DY-161	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	66-DY-161	2.710-	6	9.962-	4	75 3835	2 AVERAGE RESONANCE PARAMETERS
C	66-DY-161	2.720-	6	1.380-	4	70 2245	2 AVERAGE RESONANCE PARAMETERS
N	66-DY-162	0.000+	0	0.000+	0	67 4023	1 AVERAGE RESONANCE PARAMETERS
C	66-DY-162	5.430-	6	0.610-	4	70 2245	2 AVERAGE RESONANCE PARAMETERS
N	66-DY-162	5.450-	6	1.581-	2	75 3835	3 AVERAGE RESONANCE PARAMETERS
C	66-DY-163	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	66-DY-163	1.710-	6	2.240-	4	70 2245	2 AVERAGE RESONANCE PARAMETERS
N	66-DY-163	1.720-	6	9.966-	4	75 3835	2 AVERAGE RESONANCE PARAMETERS
C	66-DY-164	0.000+	0	1.316-	3	70 2245	2 AVERAGE RESONANCE PARAMETERS
N	66-DY-164	1.470-	4	2.115-	2	75 3835	3 AVERAGE RESONANCE PARAMETERS
C	67-HO-165	0.000+	0	9.000-	5	55 862	1 AVERAGE RESONANCE PARAMETERS
C	67-HO-165	0.000+	0	5.000-	4	67 2163	3 AVERAGE RESONANCE PARAMETERS
N	67-HO-165	0.000+	0	1.350-	3	71 3136	2 AVERAGE RESONANCE PARAMETERS
N	67-HO-165	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	67-HO-165	0.000+	0	5.000-	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
N	67-HO-165	5.000-	6	2.000-	1	70 3605	3 AVERAGE RESONANCE PARAMETERS
C	67-HO-165	1.000-	3	1.000-	1	68 2090	1 AVERAGE RESONANCE PARAMETERS
C	68-ER-NAT	3.000-	3	6.500-	1	64 1226	3 AVERAGE RESONANCE PARAMETERS
C	68-ER-162	5.000-	6	1.500-	2	67 2263	5 AVERAGE RESONANCE PARAMETERS
C	68-ER-162	7.000-	6	1.320-	4	68 3316	1 AVERAGE RESONANCE PARAMETERS
C	68-ER-164	0.000+	0	0.060+	0	67 2885	5 AVERAGE RESONANCE PARAMETERS
C	68-ER-164	8.000-	6	1.500-	2	67 2253	2 AVERAGE RESONANCE PARAMETERS
C	68-ER-164	3.050-	5	2.255-	4	67 2945	1 AVERAGE RESONANCE PARAMETERS
C	68-ER-166	0.000+	0	1.400-	3	67 2885	2 AVERAGE RESONANCE PARAMETERS
C	68-ER-166	0.000+	0	4.200-	3	71 3060	2 AVERAGE RESONANCE PARAMETERS
C	68-ER-166	1.000-	5	2.890-	3	67 2945	1 AVERAGE RESONANCE PARAMETERS
C	68-ER-166	1.500-	5	1.500-	2	67 2263	4 AVERAGE RESONANCE PARAMETERS
C	68-ER-167	0.000+	0	3.220+	4	67 2885	2 AVERAGE RESONANCE PARAMETERS
N	68-ER-167	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	68-ER-167	0.000+	0	1.500-	2	67 2263	5 AVERAGE RESONANCE PARAMETERS
C	68-ER-167	4.000-	7	6.300-	5	68 3316	2 AVERAGE RESONANCE PARAMETERS
C	68-ER-167	8.000-	6	3.740-	4	67 2945	1 AVERAGE RESONANCE PARAMETERS
C	68-ER-168	0.000+	0	1.460-	3	67 2885	2 AVERAGE RESONANCE PARAMETERS
C	68-ER-168	0.000+	0	1.000-	2	71 3060	1 AVERAGE RESONANCE PARAMETERS
C	68-ER-168	8.000-	5	4.380-	3	67 2945	1 AVERAGE RESONANCE PARAMETERS
C	68-ER-168	8.000-	5	1.500-	2	67 2263	4 AVERAGE RESONANCE PARAMETERS
C	68-ER-170	0.000+	0	2.840-	3	67 2885	2 AVERAGE RESONANCE PARAMETERS
C	68-ER-170	0.000+	0	1.700-	2	71 3060	1 AVERAGE RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	68-ER-170	9.000-	5	4.250-	3	67 2945	1 AVERAGE RESONANCE PARAMETERS
C	69-TM-169	0.000+	0	7.500-	5	55 862	1 AVERAGE RESONANCE PARAMETERS
C	69-TM-169	0.000+	0	8.000-	4	66 1872	2 AVERAGE RESONANCE PARAMETERS
C	69-TM-169	0.000+	0	1.750-	3	71 3135	1 AVERAGE RESONANCE PARAMETERS
N	69-TM-169	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	69-TM-169	0.000+	0	8.000-	2	71 3510	6 AVERAGE RESONANCE PARAMETERS
C	69-TM-169	2.000-	6	7.500-	4	69 2547	4 AVERAGE RESONANCE PARAMETERS
N	70-YB-168	6.000-	7	2.890-	4	72 3423	1 AVERAGE RESONANCE PARAMETERS
C	70-YB-170	6.130-	6	1.500-	2	68 2267	3 AVERAGE RESONANCE PARAMETERS
C	70-YB-171	0.000+	0	1.500-	4	66 2266	1 AVERAGE RESONANCE PARAMETERS
C	70-YB-171	7.930-	6	1.500-	2	68 2267	3 AVERAGE RESONANCE PARAMETERS
C	70-YB-171	2.200-	5	3.540-	4	67 2945	1 AVERAGE RESONANCE PARAMETERS
C	70-YB-172	1.400-	4	3.700-	3	67 2945	1 AVERAGE RESONANCE PARAMETERS
C	70-YB-172	1.400-	4	1.500-	2	68 2267	3 AVERAGE RESONANCE PARAMETERS
C	70-YB-173	0.000+	0	1.300-	4	66 2266	1 AVERAGE RESONANCE PARAMETERS
N	70-YB-173	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	70-YB-173	4.510-	6	1.500-	2	68 2267	3 AVERAGE RESONANCE PARAMETERS
C	70-YB-173	3.200-	5	3.720-	4	67 2945	1 AVERAGE RESONANCE PARAMETERS
C	70-YB-174	3.500-	4	3.290-	3	67 2945	1 AVERAGE RESONANCE PARAMETERS
C	70-YB-176	1.000-	4	3.660-	3	67 2945	1 AVERAGE RESONANCE PARAMETERS
C	70-YB-176	1.490-	4	5.787-	3	58 2267	2 AVERAGE RESONANCE PARAMETERS
C	71-LU-175	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	71-LU-175	0.000+	0	5.030-	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
N	71-LU-175	2.000-	6	5.000-	4	75 3625	3 AVERAGE RESONANCE PARAMETERS
C	72-HF-NAT	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	72-HF-NAT	3.000-	3	6.500-	1	64 1226	3 AVERAGE RESONANCE PARAMETERS
C	72-HF-174	0.000+	0	8.000-	5	65 919	2 AVERAGE RESONANCE PARAMETERS
C	72-HF-176	0.000+	0	1.200-	4	65 919	2 AVERAGE RESONANCE PARAMETERS
C	72-HF-177	0.000+	0	3.400-	5	55 862	1 AVERAGE RESONANCE PARAMETERS
C	72-HF-177	0.000+	0	1.000-	4	65 919	2 AVERAGE RESONANCE PARAMETERS
C	72-HF-177	0.000+	0	6.956-	4	75 3635	2 AVERAGE RESONANCE PARAMETERS
N	72-HF-177	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	72-HF-177	1.000-	6	3.000-	4	71 3779	2 AVERAGE RESONANCE PARAMETERS
C	72-HF-177	5.000-	5	2.000-	4	63 939	1 AVERAGE RESONANCE PARAMETERS
C	72-HF-178	0.000+	0	1.600-	4	65 919	2 AVERAGE RESONANCE PARAMETERS
N	72-HF-178	7.770-	6	7.193-	4	75 3635	1 AVERAGE RESONANCE PARAMETERS
C	72-HF-178	5.000-	5	2.000-	4	63 939	1 AVERAGE RESONANCE PARAMETERS
C	72-HF-179	0.000+	0	6.500-	5	55 862	1 AVERAGE RESONANCE PARAMETERS
C	72-HF-178	0.000+	0	8.000-	5	65 919	2 AVERAGE RESONANCE PARAMETERS
N	72-HF-174	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	72-HF-179	1.000-	6	2.000-	4	71 3779	2 AVERAGE RESONANCE PARAMETERS
C	72-HF-179	5.000-	5	2.000-	4	63 939	1 AVERAGE RESONANCE PARAMETERS
C	72-HF-180	0.000+	0	2.000-	4	65 919	2 AVERAGE RESONANCE PARAMETERS
C	72-HF-180	5.000-	5	2.000-	4	63 939	1 AVERAGE RESONANCE PARAMETERS
C	73-TA-181	0.000+	0	4.500-	5	55 862	1 AVERAGE RESONANCE PARAMETERS
C	73-TA-181	0.000+	0	3.500-	4	60 2472	2 AVERAGE RESONANCE PARAMETERS
N	73-TA-181	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N	73-TA-181	0.000+	0	5.000-	2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C	73-TA-181	3.000-	3	6.500-	1	64 1226	3 AVERAGE RESONANCE PARAMETERS
C	74-W-NAT	0.000+	0	2.000-	3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C	74-W-NAT	3.000-	3	6.500-	1	64 1226	3 AVERAGE RESONANCE PARAMETERS
C	74-W-102	0.000+	0	4.000-	3	65 923	2 AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-313 ***

C = 941

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 941

TARGET CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C 74-W-182	2.120	-4	2.381	-3	69 3092	1 AVERAGE RESONANCE PARAMETERS
C 74-W-183	0.000	0	1.850	-4	59 2285	1 AVERAGE RESONANCE PARAMETERS
N 74-W-183	0.000	0	1.000	-3	65 923	1 AVERAGE RESONANCE PARAMETERS
N 74-W-183	0.000	0	2.000	-3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N 74-W-183	0.000	0	5.000	-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C 74-W-183	1.540	-4	7.600	-4	69 3092	1 AVERAGE RESONANCE PARAMETERS
N 74-W-184	0.000	0	0.000	0	67 4023	1 AVERAGE RESONANCE PARAMETERS
N 74-W-184	0.000	0	1.400	-3	66 2452	2 AVERAGE RESONANCE PARAMETERS
N 74-W-184	0.000	0	5.000	-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C 74-W-184	1.650	-4	2.616	-3	69 3092	1 AVERAGE RESONANCE PARAMETERS
N 74-W-186	0.000	0	0.000	0	67 4023	1 AVERAGE RESONANCE PARAMETERS
N 74-W-186	0.000	0	5.000	-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C 74-W-186	1.700	-4	3.417	-3	69 3092	1 AVERAGE RESONANCE PARAMETERS
C 75-RE-NAT	0.000	0	1.000	-4	68 1990	2 AVERAGE RESONANCE PARAMETERS
C 75-RE-NAT	3.000	-3	6.500	-1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C 75-RE-NAT	3.000	-2	6.500	-1	68 1992	1 AVERAGE RESONANCE PARAMETERS
C 75-RE-185	0.000	0	2.000	-5	65 1886	1 AVERAGE RESONANCE PARAMETERS
N 75-RE-185	0.000	0	2.000	-3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N 75-RE-185	0.000	0	3.000	-2	68 1990	4 AVERAGE RESONANCE PARAMETERS
C 75-RE-187	0.000	0	2.000	-5	65 1886	1 AVERAGE RESONANCE PARAMETERS
C 75-RE-187	0.000	0	3.000	-2	68 1990	4 AVERAGE RESONANCE PARAMETERS
C 76-05-NAT	0.000	0	2.000	-3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C 76-05-NAT	3.000	-3	6.500	-1	64 1226	3 AVERAGE RESONANCE PARAMETERS
N 76-05-186	2.237	-5	2.740	-4	72 3423	2 AVERAGE RESONANCE PARAMETERS
N 76-05-187	9.450	-6	6.500	-5	69 3408	1 AVERAGE RESONANCE PARAMETERS
N 76-05-187	9.460	-6	1.240	-4	72 3423	2 AVERAGE RESONANCE PARAMETERS
N 76-05-188	3.840	-5	3.860	-4	72 3423	2 AVERAGE RESONANCE PARAMETERS
N 76-05-189	6.700	-6	2.800	-5	69 3408	1 AVERAGE RESONANCE PARAMETERS
C 76-05-189	6.710	-6	6.100	-5	61 950	2 AVERAGE RESONANCE PARAMETERS
N 76-05-189	6.750	-6	3.230	-4	72 3423	2 AVERAGE RESONANCE PARAMETERS
N 76-05-190	1.114	-5	5.630	-4	72 3423	1 AVERAGE RESONANCE PARAMETERS
N 76-05-192	2.033	-5	7.170	-4	72 3423	2 AVERAGE RESONANCE PARAMETERS
C 77-IR-NAT	0.000	0	2.000	-3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C 77-IR-NAT	0.000	0	5.000	-2	66 1894	1 AVERAGE RESONANCE PARAMETERS
C 77-IR-NAT	3.000	-3	6.500	-1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C 77-IR-191	0.000	0	4.000	-5	59 2549	2 AVERAGE RESONANCE PARAMETERS
N 77-IR-191	0.000	0	1.800	-4	72 3419	1 AVERAGE RESONANCE PARAMETERS
N 77-IR-193	0.000	0	3.900	-4	72 3419	1 AVERAGE RESONANCE PARAMETERS
C 77-IR-193	0.000	0	1.500	-2	59 2549	3 AVERAGE RESONANCE PARAMETERS
C 78-PT-NAT	0.000	0	2.000	-3	58 1191	1 AVERAGE RESONANCE PARAMETERS
C 78-PT-NAT	3.000	-3	6.500	-1	64 1226	2 AVERAGE RESONANCE PARAMETERS
C 78-PT-195	0.000	0	3.200	-4	62 2119	2 AVERAGE RESONANCE PARAMETERS
C 78-PT-195	0.000	0	1.000	-4	66 1872	2 AVERAGE RESONANCE PARAMETERS
C 78-PT-195	1.000	-5	8.300	-4	69 2547	4 AVERAGE RESONANCE PARAMETERS
C 78-PT-195	1.000	-4	2.200	-4	60 2295	1 AVERAGE RESONANCE PARAMETERS
C 79-AU-197	0.000	0	2.000	-4	54 4459	1 AVERAGE RESONANCE PARAMETERS
C 79-AU-197	0.000	0	2.660	-4	58 2545	3 AVERAGE RESONANCE PARAMETERS
N 79-AU-197	0.000	0	6.000	-4	60 2472	2 AVERAGE RESONANCE PARAMETERS
N 79-AU-197	0.000	0	1.000	-3	66 1872	3 AVERAGE RESONANCE PARAMETERS
N 79-AU-197	0.000	0	2.000	-3	58 1191	1 AVERAGE RESONANCE PARAMETERS
N 79-AU-197	0.000	0	2.150	-3	69 1854	3 AVERAGE RESONANCE PARAMETERS
N 79-AU-197	0.000	0	5.000	-2	66 1894	1 AVERAGE RESONANCE PARAMETERS

TARGET CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-314 ***

C = 941

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	79-AU-197		4.000-6	1.000-3	66 1951	3	AVERAGE RESONANCE PARAMETERS
C	79-AU-197		1.000-3	1.000-1	68 2090	3	AVERAGE RESONANCE PARAMETERS
C	79-AU-197		3.000-3	6.500-1	54 1226	1	AVERAGE RESONANCE PARAMETERS
C	79-AU-197		8.000-3	3.000-2	68 3301	1	AVERAGE RESONANCE PARAMETERS
C	80-HG-NAT		0.000-0	2.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	80-HG-NAT		3.000-3	6.500-1	54 1226	1	AVERAGE RESONANCE PARAMETERS
C	80-HG-NAT		3.000-2	6.500-1	68 1992	1	AVERAGE RESONANCE PARAMETERS
C	81-TL-NAT		3.000-3	6.500-1	54 1226	1	AVERAGE RESONANCE PARAMETERS
N	81-TL-203		0.000-0	1.923-2	75 3840	4	AVERAGE RESONANCE PARAMETERS
N	81-TL-203		0.000-0	5.000-2	66 1894	1	AVERAGE RESONANCE PARAMETERS
N	81-TL-205		0.000-0	2.000-2	75 3840	2	AVERAGE RESONANCE PARAMETERS
N	81-TL-205		0.000-0	5.000-2	66 1894	1	AVERAGE RESONANCE PARAMETERS
C	82-PB-204		6.500-3	5.000-2	67 1937	1	AVERAGE RESONANCE PARAMETERS
C	82-PB-207		0.000-0	1.500-1	61 728	1	AVERAGE RESONANCE PARAMETERS
C	82-PB-207		0.000-0	7.000-1	71 3138	2	AVERAGE RESONANCE PARAMETERS
C	83-BI-209		0.000-0	7.000-2	69 2537	2	AVERAGE RESONANCE PARAMETERS
N	88-RA-226		5.390-7	2.930-4	71 4047	4	AVERAGE RESONANCE PARAMETERS
C	90-TM-230		0.000-0	6.000-4	69 2362	2	AVERAGE RESONANCE PARAMETERS
C	90-TM-230		2.000-8	5.000-5	66 1490	2	AVERAGE RESONANCE PARAMETERS
C	90-TM-230		1.400-6	2.940-4	68 1516	3	AVERAGE RESONANCE PARAMETERS
N	90-TM-230		1.431-6	5.630-4	68 2195	2	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		0.000-0	1.400-4	54 459	3	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		0.000-0	1.971-3	71 2946	2	AVERAGE RESONANCE PARAMETERS
N	90-TM-232		0.000-0	2.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N	90-TM-232		0.000-0	3.000-3	64 1496	3	AVERAGE RESONANCE PARAMETERS
N	90-TM-232		0.000-0	3.000-3	71 3140	3	AVERAGE RESONANCE PARAMETERS
N	90-TM-232		0.000-0	3.900-3	65 814	2	AVERAGE RESONANCE PARAMETERS
N	90-TM-232		0.000-0	4.000-3	70 3556	11	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		8.000-6	1.030-4	64 388	1	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		8.000-6	3.060-4	64 3650	4	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		2.170-5	1.960-4	66 409	2	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		2.200-5	2.950-4	56 201	2	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		3.000-4	1.300-3	61 408	5	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		3.290-4	1.300-3	62 1408	1	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		1.000-3	1.000-1	68 2090	2	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		3.000-3	6.500-1	54 1226	2	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		1.000-2	1.000-1	64 1227	2	AVERAGE RESONANCE PARAMETERS
C	90-TM-232		1.000-2	1.000-0	66 1328	5	AVERAGE RESONANCE PARAMETERS
C	91-PA-231		0.000-0	1.250-5	62 362	2	AVERAGE RESONANCE PARAMETERS
C	91-PA-231		0.000-0	2.000-3	62 410	4	AVERAGE RESONANCE PARAMETERS
C	91-PA-233		0.000-0	1.80-5	67 1309	3	AVERAGE RESONANCE PARAMETERS
C	91-PA-233		1.350-6	5.000-6	63 1486	3	AVERAGE RESONANCE PARAMETERS
C	92-U-232		0.000-0	6.000-5	64 369	2	AVERAGE RESONANCE PARAMETERS
C	92-U-232		6.500-5	1.650-4	68 2099	3	AVERAGE RESONANCE PARAMETERS
C	92-U-233		-5.900-7	1.037-5	67 979	2	AVERAGE RESONANCE PARAMETERS
C	92-U-233		0.000-0	2.000-5	57 1209	1	AVERAGE RESONANCE PARAMETERS
C	92-U-233		0.000-0	2.000-5	60 1249	1	AVERAGE RESONANCE PARAMETERS
C	92-U-233		0.000-0	3.000-5	70 2205	2	AVERAGE RESONANCE PARAMETERS
N	92-U-233		0.000-0	6.130-5	68 549	3	AVERAGE RESONANCE PARAMETERS
N	92-U-233		0.000-0	2.000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	92-U-233		1.700-6	3.000-5	65 1242	3	AVERAGE RESONANCE PARAMETERS
N	92-U-233		2.500-6	3.000-5	70 3601	3	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-315 ***

C = 941

07/04/75

ECSIL-600 REACTION INDEX (REACTION NO. ORDERED)

C = 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
A	92-U-233	5	920-5	1,240-4	74 3920	3	AVERAGE RESONANCE PARAMETERS
C	92-U-233	2	0.000-5	6,000-5	67 190	2	AVERAGE RESONANCE PARAMETERS
C	92-U-234	0	0.000-0	1,550-4	58 1116	3	AVERAGE RESONANCE PARAMETERS
C	92-U-234	0	0.000-0	2,000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
C	92-U-234	5	0.000-6	2,100-4	69 2530	2	AVERAGE RESONANCE PARAMETERS
C	92-U-235	2	0.000-5	1,940-5	64 966	1	AVERAGE RESONANCE PARAMETERS
C	92-U-235	0	0.000-0	1,800-5	56 1038	3	AVERAGE RESONANCE PARAMETERS
C	92-U-235	0	0.000-0	2,000-5	56 1037	4	AVERAGE RESONANCE PARAMETERS
N	92-U-235	0	0.000-0	2,000-5	57 1209	1	AVERAGE RESONANCE PARAMETERS
N	92-U-235	0	0.000-0	3,500-5	63 1219	1	AVERAGE RESONANCE PARAMETERS
N	92-U-235	0	0.000-0	4,000-5	59 3844	2	AVERAGE RESONANCE PARAMETERS
N	92-U-235	0	0.000-0	4,700-5	59 1221	1	AVERAGE RESONANCE PARAMETERS
N	92-U-235	0	0.000-0	6,000-5	65 1035	8	AVERAGE RESONANCE PARAMETERS
N	92-U-235	0	0.000-0	1,000-4	71 3125	6	AVERAGE RESONANCE PARAMETERS
N	92-U-235	0	0.000-0	2,000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N	92-U-235	0	0.000-0	3,000-2	65 1034	6	AVERAGE RESONANCE PARAMETERS
C	92-U-235	2	0.000-7	3,000-5	67 2083	3	AVERAGE RESONANCE PARAMETERS
N	92-U-235	2	0.000-7	5,647-5	73 3781	2	AVERAGE RESONANCE PARAMETERS
C	92-U-235	2	0.000-6	5,000-5	71 3122	1	AVERAGE RESONANCE PARAMETERS
C	92-U-235	6	0.000-6	5,000-5	59 1223	1	AVERAGE RESONANCE PARAMETERS
C	92-U-235	6	0.000-6	1,500-4	68 1544	7	AVERAGE RESONANCE PARAMETERS
N	92-U-235	8	0.000-6	5,700-5	66 3649	2	AVERAGE RESONANCE PARAMETERS
C	92-U-235	1	0.000-5	7,088-5	67 1488	4	AVERAGE RESONANCE PARAMETERS
C	92-U-235	1	0.000-5	7,088-5	69 1488	4	AVERAGE RESONANCE PARAMETERS
C	92-U-235	1	0.000-4	5,000-3	58 1222	1	AVERAGE RESONANCE PARAMETERS
N	92-U-235	1	0.000-4	3,000-2	71 4020	2	AVERAGE RESONANCE PARAMETERS
C	92-U-235	3	0.000-4	3,000-2	65 1361	2	AVERAGE RESONANCE PARAMETERS
C	92-U-235	1	0.000-3	1,000-0	66 1328	2	AVERAGE RESONANCE PARAMETERS
C	92-U-235	1	0.000-2	1,000-1	64 1227	2	AVERAGE RESONANCE PARAMETERS
C	92-U-236	0	0.000-0	1,400-4	58 1116	3	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	1,691-3	73 3790	4	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	2,000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	2,000-2	68 1531	6	AVERAGE RESONANCE PARAMETERS
C	92-U-236	0	0.000-0	1,000-4	68 1245	1	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	1,890-4	57 1247	4	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	2,000-4	55 862	4	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	3,000-4	56 201	3	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	8,230-4	68 1464	7	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	1,000-3	60 139	3	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	1,170-3	63 1251	3	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	2,000-3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	2,400-3	71 3121	2	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	3,900-3	65 814	2	AVERAGE RESONANCE PARAMETERS
N	92-U-236	0	0.000-0	4,600-3	70 3556	12	AVERAGE RESONANCE PARAMETERS
C	92-U-236	6	0.000-6	8,200-4	66 1355	2	AVERAGE RESONANCE PARAMETERS
C	92-U-236	6	0.000-6	3,710-5	56 1238	2	AVERAGE RESONANCE PARAMETERS
C	92-U-236	2	0.000-5	2,100-4	56 1237	4	AVERAGE RESONANCE PARAMETERS
C	92-U-236	3	0.000-5	2,370-4	71 3246	1	AVERAGE RESONANCE PARAMETERS
N	92-U-236	6	0.000-5	2,000-3	70 3602	3	AVERAGE RESONANCE PARAMETERS
N	92-U-236	6	0.000-5	2,000-3	71 3121	3	AVERAGE RESONANCE PARAMETERS
N	92-U-236	6	0.000-5	1,550-3	75 1307	3	AVERAGE RESONANCE PARAMETERS
C	92-U-236	6	0.000-5	1,055-3	70 3064	1	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-316 ***

C = 941

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	92-U -238		6.600- 5	2.000- 3	70 3061	3	AVERAGE RESONANCE PARAMETERS
C	92-U -238		1.000- 3	1.000- 1	68 2090	2	AVERAGE RESONANCE PARAMETERS
C	92-U -238		3.000- 3	6.500- 1	64 1226	2	AVERAGE RESONANCE PARAMETERS
C	92-U -238		1.000- 2	1.000- 1	64 1227	2	AVERAGE RESONANCE PARAMETERS
C	92-U -238		1.000- 2	1.000- 0	66 1320	2	AVERAGE RESONANCE PARAMETERS
C	92-U -238		3.000- 2	2.000- 1	60 727	2	AVERAGE RESONANCE PARAMETERS
C	93-NP -237		0.000+ 0	2.400- 5	58 944	2	AVERAGE RESONANCE PARAMETERS
N	93-NP -237		0.000+ 0	4.000- 5	66 1496	3	AVERAGE RESONANCE PARAMETERS
N	93-NP -237		0.000+ 0	5.000- 5	71 3111	3	AVERAGE RESONANCE PARAMETERS
C	93-NP -237		0.000+ 0	1.200- 2	59 68	2	AVERAGE RESONANCE PARAMETERS
C	93-NP -237		4.890- 7	1.488- 6	57 982	2	AVERAGE RESONANCE PARAMETERS
C	93-NP -237		4.900- 7	3.200- 5	59 255	1	AVERAGE RESONANCE PARAMETERS
C	94-PU -238		3.000+ 0	1.900- 5	56 1252	2	AVERAGE RESONANCE PARAMETERS
C	94-PU -238		0.000+ 0	1.900- 4	67 1387	3	AVERAGE RESONANCE PARAMETERS
C	94-PU -238		2.900- 6	2.800- 4	66 1083	1	AVERAGE RESONANCE PARAMETERS
N	94-PU -238		1.860- 5	4.960- 4	73 3273	1	AVERAGE RESONANCE PARAMETERS
C	94-PU -239		-1.200- 6	4.500- 5	62 1230	2	AVERAGE RESONANCE PARAMETERS
C	94-PU -239		0.000+ 0	4.900- 5	56 954	1	AVERAGE RESONANCE PARAMETERS
C	94-PU -239		0.000+ 0	5.000- 5	57 1209	1	AVERAGE RESONANCE PARAMETERS
C	94-PU -239		0.000+ 0	5.000- 5	58 936	4	AVERAGE RESONANCE PARAMETERS
C	94-PU -239		0.000+ 0	7.000- 5	64 966	2	AVERAGE RESONANCE PARAMETERS
N	94-PU -239		0.000+ 0	8.000- 5	66 1376	5	AVERAGE RESONANCE PARAMETERS
N	94-PU -239		0.000+ 0	2.000- 4	65 604	1	AVERAGE RESONANCE PARAMETERS
N	94-PU -239		0.000+ 0	2.040- 4	75 3919	10	AVERAGE RESONANCE PARAMETERS
N	94-PU -239		0.000+ 0	3.000- 4	66 1349	9	AVERAGE RESONANCE PARAMETERS
N	94-PU -239		0.000+ 0	6.590- 4	70 3120	5	AVERAGE RESONANCE PARAMETERS
N	94-PU -239		0.000+ 0	6.600- 4	70 1963	14	AVERAGE RESONANCE PARAMETERS
C	94-PU -239		0.000+ 0	2.000- 3	58 1191	1	AVERAGE RESONANCE PARAMETERS
N	94-PU -239		0.000+ 0	1.000- 2	64 988	16	AVERAGE RESONANCE PARAMETERS
C	94-PU -239		0.000+ 0	5.100- 2	58 959	3	AVERAGE RESONANCE PARAMETERS
C	94-PU -239		1.400- 5	9.000- 5	68 1465	8	AVERAGE RESONANCE PARAMETERS
C	94-PU -239		1.000- 4	3.000- 4	65 1350	2	AVERAGE RESONANCE PARAMETERS
N	94-PU -239		1.00- 4	3.000- 2	71 4020	2	AVERAGE RESONANCE PARAMETERS
C	94-PU -239		1.000- 2	1.000- 1	34 1227	2	AVERAGE RESONANCE PARAMETERS
C	94-PU -240		0.000+ 0	1.000- 4	57 1211	2	AVERAGE RESONANCE PARAMETERS
N	94-PU -240		2.000- 5	6.700- 4	68 3642	1	AVERAGE RESONANCE PARAMETERS
C	94-PU -240		2.001- 5	5.510- 4	68 1353	2	AVERAGE RESONANCE PARAMETERS
C	94-PU -240		2.000- 5	1.500- 3	69 1534	3	AVERAGE RESONANCE PARAMETERS
N	94-PU -240		2.060- 5	4.994- 4	71 3112	2	AVERAGE RESONANCE PARAMETERS
C	94-PU -240		3.800- 5	3.185- 4	60 1535	1	AVERAGE RESONANCE PARAMETERS
C	94-PU -240		4.500- 4	4.000- 3	68 1517	1	AVERAGE RESONANCE PARAMETERS
C	94-PU -241		0.000+ 0	2.000- 5	64 1107	2	AVERAGE RESONANCE PARAMETERS
C	94-PU -241		0.000+ 0	3.100- 5	64 1113	2	AVERAGE RESONANCE PARAMETERS
C	94-PU -241		0.000+ 0	1.600- 4	71 3126	5	AVERAGE RESONANCE PARAMETERS
C	94-PU -241		0.000+ 0	2.000- 3	61 1112	3	AVERAGE RESONANCE PARAMETERS
N	94-PU -241		0.000+ 0	5.000- 3	64 1114	2	AVERAGE RESONANCE PARAMETERS
C	94-PU -241		4.300- 6	3.090- 5	68 1530	2	AVERAGE RESONANCE PARAMETERS
C	94-PU -241		1.200- 5	7.000- 5	71 3115	4	AVERAGE RESONANCE PARAMETERS
C	94-PU -242		0.000+ 0	5.360- 5	59 1115	1	AVERAGE RESONANCE PARAMETERS
C	94-PU -242		0.000+ 0	1.500- 4	67 1446	4	AVERAGE RESONANCE PARAMETERS
N	94-PU -242		0.000+ 0	3.500- 4	65 1218	2	AVERAGE RESONANCE PARAMETERS
N	94-PU -242		0.000+ 0	1.700- 3	71 3109	1	AVERAGE RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 941

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
C	94-PU-2-2	0.070-0	0	8.700-0	74 355G	1	AVERAGE RESONANCE PARAMETERS
C	94-PU-2-2	2.000-0	0	8.700-0	66 100G	1	AVERAGE RESONANCE PARAMETERS
C	94-PU-2-2	2.680-0	1	1.030-3	73 178Z	1	AVERAGE RESONANCE PARAMETERS
C	94-PU-2-2	5.070-5	5	6.000-0	71 2209	1	AVERAGE RESONANCE PARAMETERS
C	94-AM-2-4	3.030-5	6	6.300-5	71 03	1	AVERAGE RESONANCE PARAMETERS
C	95-AM-2-1	0.000-0	0	5.000-0	75 380G	5	AVERAGE RESONANCE PARAMETERS
C	95-AM-2-1	3.080-7	7	1.200-5	59 5-8	2	AVERAGE RESONANCE PARAMETERS
C	95-AM-2-2	3.070-7	1	1.265-6	59 2-1	1	AVERAGE RESONANCE PARAMETERS
C	95-AM-2-2	0.000-0	0	3.250-8	67 1117	3	AVERAGE RESONANCE PARAMETERS
C	95-AM-2-4	0.000-0	0	1.950-5	59 1115	1	AVERAGE RESONANCE PARAMETERS
C	96-CM-2-4	0.000-0	0	1.950-4	71 2908	2	AVERAGE RESONANCE PARAMETERS
C	96-CM-2-4	0.000-0	0	2.740-4	64 1978	1	AVERAGE RESONANCE PARAMETERS
C	96-CM-2-4	2.000-5	9	9.720-4	71 787	1	AVERAGE RESONANCE PARAMETERS
C	96-CM-2-4	2.100-5	9	9.000-5	71 787	1	AVERAGE RESONANCE PARAMETERS
C	96-CM-2-6	2.400-5	3	3.810-4	71 787	1	AVERAGE RESONANCE PARAMETERS
C	96-CM-2-7	2.100-5	5	5.000-5	71 787	1	AVERAGE RESONANCE PARAMETERS
C	96-CM-2-8	2.800-5	4	4.150-4	71 787	1	AVERAGE RESONANCE PARAMETERS
C	98-CF-2-4-9	0.000-0	0	7.000-0	72 3274	2	AVERAGE RESONANCE PARAMETERS
C	2-HE-4	1.150-0	0	1.150-0	51 2407	1	RESONANCE PARAMETERS
C	2-HE-4	1.150-0	0	1.150-0	52 462	1	RESONANCE PARAMETERS
C	2-HE-4	2.215-1	1	2.215-1	59 2412	1	RESONANCE PARAMETERS
C	3-11-6	2.310-1	1	2.310-1	68 1834	1	RESONANCE PARAMETERS
C	3-11-6	2.500-1	1	2.500-1	68 3074	1	RESONANCE PARAMETERS
C	3-11-6	2.500-1	1	2.500-1	68 3074	1	RESONANCE PARAMETERS
C	3-11-6	2.550-1	1	2.550-1	56 484	1	RESONANCE PARAMETERS
C	3-11-6	2.580-1	2	2.580-1	72 3158	2	RESONANCE PARAMETERS
C	3-11-7	2.500-1	2	2.500-1	59 354	1	RESONANCE PARAMETERS
C	3-11-7	2.540-1	2	2.540-1	71 3130	1	RESONANCE PARAMETERS
C	3-11-7	2.560-1	1	2.560-1	51 73	1	RESONANCE PARAMETERS
C	3-11-7	2.560-1	2	2.560-1	56 484	1	RESONANCE PARAMETERS
C	3-11-7	2.570-1	2	2.570-1	54 225	1	RESONANCE PARAMETERS
C	3-11-7	2.610-1	2	2.610-1	70 3153	1	RESONANCE PARAMETERS
C	3-11-7	2.700-1	2	2.700-1	50 60	1	RESONANCE PARAMETERS
C	4-BE-9	6.200-1	8	10.000-1	51 72	1	RESONANCE PARAMETERS
C	4-BE-9	6.200-1	8	10.000-1	55 121	1	RESONANCE PARAMETERS
C	4-BE-9	3.220-1	8	8.118-1	71 3062	2	RESONANCE PARAMETERS
C	4-BE-9	3.000-0	0	3.000-0	58 945	1	RESONANCE PARAMETERS
C	5-8-10	-9.400-0	0	1.860-0	71 3143	21	RESONANCE PARAMETERS
C	5-8-10	5.200-1	5	5.200-1	59 519	1	RESONANCE PARAMETERS
C	5-8-10	5.300-1	4	4.100-0	57 382	1	RESONANCE PARAMETERS
C	5-8-10	5.300-1	4	6.400-0	61 742	1	RESONANCE PARAMETERS
C	5-8-10	1.900-0	0	1.900-0	51 71	1	RESONANCE PARAMETERS
C	5-8-10	1.930-0	0	1.730-0	50 666	1	RESONANCE PARAMETERS
C	5-8-10	2.750-0	2	2.750-0	73 342	1	RESONANCE PARAMETERS
C	5-8-10	3.500-0	0	6.500-0	70 682	2	RESONANCE PARAMETERS
C	5-8-11	5.000-1	3	5.000-1	69 313	14	RESONANCE PARAMETERS
C	5-8-11	5.000-1	3	5.000-1	64 1643	1	RESONANCE PARAMETERS
C	5-8-11	2.300-2	2	2.300-2	55 121	1	RESONANCE PARAMETERS
C	5-8-11	4.300-1	1	1.280-0	55 121	1	RESONANCE PARAMETERS
C	5-8-11	4.300-1	1	1.780-0	62 656	7	RESONANCE PARAMETERS
C	5-8-11	4.300-1	1	2.560-0	51 72	11	RESONANCE PARAMETERS
C	5-8-11	3.500-0	0	9.720-0	61 662	12	RESONANCE PARAMETERS
TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 951

TARGET	CODE	S	E-MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
6-C-12			2.076+	0	3.670+	0	58 322
6-C-12			2.079+	0	6.295+	0	70 3051
6-C-12			2.080+	0	2.080+	0	53 2419
6-C-12			2.080+	0	2.080+	0	61 571
6-C-12			2.080+	0	2.950+	0	51 72
6-C-12			2.950+	0	3.650+	0	54 489
6-C-12			3.600+	0	1.210+	1	61 682
6-C-12			3.600+	0	4.250+	0	66 1687
6-C-12			4.250+	0	7.350+	0	59 3322
6-C-12			1.350+	1	1.350+	1	71 3130
6-C-12			1.350+	1	2.750+	0	61 579
7-N-14			1.350+	1	1.905+	0	52 75
7-N-14			1.905+	1	1.905+	0	56 65
7-N-14			1.905+	1	1.450+	0	56 175
7-N-14			1.450+	0	2.250+	0	56 485
7-N-14			1.350+	0	6.000+	0	59 523
7-N-14			1.595+	0	3.200+	0	66 3008
7-N-14			3.200+	0	3.570+	0	70 3088
7-N-14			9.210+	1	1.210+	1	71 2093
7-N-14			4.300+	1	2.020+	0	64 2422
7-N-14			1.980+	0	3.010+	0	62 248
7-N-14			2.980+	0	2.980+	0	59 521
7-N-14			3.480+	0	6.250+	0	66 2779
8-O-16			4.260+	1	4.260+	1	71 3130
8-O-16			4.390+	1	1.311+	0	53 2408
8-O-16			4.400+	1	2.370+	0	51 72
8-O-16			1.000+	0	1.000+	0	55 123
8-O-16			1.000+	0	1.312+	0	58 489
8-O-16			1.651+	0	3.441+	0	70 3087
8-O-16			1.900+	0	4.400+	0	92 2417
8-O-16			3.290+	0	4.175+	0	66 1667
8-O-16			3.350+	0	4.320+	0	67 3006
8-O-16			3.600+	0	1.150+	1	61 682
8-O-16			3.765+	0	3.765+	0	71 2280
8-O-16			3.770+	0	7.200+	0	69 3322
8-O-16			4.050+	0	3.770+	0	64 2416
8-O-16			5.610+	0	6.110+	0	67 2601
8-O-16			3.950+	0	4.000+	0	59 621
8-O-16			1.525+	2	2.677+	1	64 699
9-F-19			1.550+	2	2.700+	2	63 799
9-F-19			2.650+	2	9.200+	2	68 540
9-F-19			2.699+	2	9.750+	2	74 3580
9-F-19			2.700+	2	9.900+	2	58 325
9-F-19			2.702+	2	1.635+	0	59 2
9-F-19			2.703+	2	9.700+	2	71 3117
9-F-19			2.707+	2	5.260+	1	65 814
9-F-19			2.720+	2	4.900+	0	73 3588
9-F-19			1.340+	1	4.800+	2	70 3716
9-F-19			1.340+	1	1.553+	1	61 2420
9-F-19			4.970+	1	1.107+	0	67 2433

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C = 951

07/04/76

ECS:-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
9-F	-19		3.400+ 0	5.900+ 0	55 129	8	RESONANCE PARAMETERS
9-F	-19		3.750+ 0	5.500+ 0	60 654	8	RESONANCE PARAMETERS
9-F	-19		3.850+ 0	7.800+ 0	61 742	10	RESONANCE PARAMETERS
10-NE	-20		4.720- 1	4.730- 1	60 570	3	RESONANCE PARAMETERS
10-NE	-20		9.100- 1	1.850+ 0	59 271	19	RESONANCE PARAMETERS
10-NE	-20		1.940+ 0	2.000+ 0	58 220	6	RESONANCE PARAMETERS
C 10-NE	-20		2.110+ 0	3.370+ 0	57 220	7	RESONANCE PARAMETERS
10-NE	-20		2.890+ 0	5.930+ 0	59 641	16	RESONANCE PARAMETERS
10-NE	-20		3.184+ 0	6.554+ 0	69 3322	5	RESONANCE PARAMETERS
10-NE	-22		2.010+ 0	3.430+ 0	58 347	15	RESONANCE PARAMETERS
11-NA	-23		-3.000- 2	3.460- 1	60 810	260	RESONANCE PARAMETERS
11-NA	-23		2.800- 3	2.800- 3	58 2411	2	RESONANCE PARAMETERS
11-NA	-23		2.800- 3	5.500- 2	52 75	2	RESONANCE PARAMETERS
11-NA	-23		2.850- 3	2.850- 3	58 15	2	RESONANCE PARAMETERS
11-NA	-23		2.850- 3	2.850- 3	58 348	3	RESONANCE PARAMETERS
11-NA	-23		2.850- 3	2.850- 3	70 3096	1	RESONANCE PARAMETERS
11-NA	-23		2.850- 3	2.850- 3	68 2745	1	RESONANCE PARAMETERS
11-NA	-23		2.850- 3	1.391- 1	69 2942	13	RESONANCE PARAMETERS
N 11-NA	-23		2.850- 3	2.970- 1	65 3555	21	RESONANCE PARAMETERS
11-NA	-23		2.851- 3	4.500- 1	65 814	31	RESONANCE PARAMETERS
11-NA	-23		5.300- 2	5.300- 2	58 325	2	RESONANCE PARAMETERS
11-NA	-23		5.300- 2	5.300- 2	59 729	2	RESONANCE PARAMETERS
11-NA	-23		2.040- 1	9.880- 1	52 85	29	RESONANCE PARAMETERS
11-NA	-23		2.984- 1	9.851- 1	70 3072	41	RESONANCE PARAMETERS
11-NA	-23		2.995- 1	7.780- 1	69 3091	16	RESONANCE PARAMETERS
11-NA	-23		3.526- 1	6.262- 1	61 811	213	RESONANCE PARAMETERS
12-MG	-NAT		2.000- 2	5.050- 1	65 814	12	RESONANCE PARAMETERS
12-MG	-NAT		2.200- 2	6.800- 1	51 69	3	RESONANCE PARAMETERS
12-MG	-NAT		4.600- 2	4.500- 1	58 640	4	RESONANCE PARAMETERS
12-MG	-NAT		8.500- 2	8.500- 2	52 325	2	RESONANCE PARAMETERS
N 12-MG	-24		4.490- 2	8.660- 2	70 3716	3	RESONANCE PARAMETERS
12-MG	-24		5.000- 2	8.400- 2	65 2418	2	RESONANCE PARAMETERS
12-MG	-24		8.300- 2	2.600- 1	59 534	5	RESONANCE PARAMETERS
N 12-MG	-24		8.350- 2	4.978- 1	74 3591	11	RESONANCE PARAMETERS
12-MG	-24		8.500- 2	4.300- 1	51 69	5	RESONANCE PARAMETERS
N 12-MG	-25		1.990- 2	1.990- 2	74 3591	3	RESONANCE PARAMETERS
12-MG	-25		2.100- 2	1.050- 1	55 534	6	RESONANCE PARAMETERS
12-MG	-26		3.000- 1	3.000- 1	59 534	1	RESONANCE PARAMETERS
12-MG	-26		3.900- 1	5.050- 1	71 3117	6	RESONANCE PARAMETERS
13-AL	-27		5.800- 3	5.600- 3	58 15	1	RESONANCE PARAMETERS
13-AL	-27		5.880- 3	3.500- 2	69 2942	3	RESONANCE PARAMETERS
N 13-AL	-27		5.895- 3	2.020- 1	75 3600	21	RESONANCE PARAMETERS
13-AL	-27		5.903- 3	2.081- 1	71 3117	24	RESONANCE PARAMETERS
13-AL	-27		5.906- 3	3.870- 1	64 814	20	RESONANCE PARAMETERS
13-AL	-27		6.000- 3	4.450- 1	59 567	195	RESONANCE PARAMETERS
13-AL	-27		6.400- 3	6.400- 3	54 2409	3	RESONANCE PARAMETERS
13-AL	-27		3.500- 2	9.000- 2	55 2013	5	RESONANCE PARAMETERS
N 13-AL	-27		3.570- 2	3.570- 2	70 3716	2	RESONANCE PARAMETERS
13-AL	-27		4.500- 2	7.950- 1	47 47	10	RESONANCE PARAMETERS
13-AL	-27		8.800- 2	8.800- 2	58 325	3	RESONANCE PARAMETERS
13-AL	-27		6.300- 1	1.174+ 0	67 2433	19	RESONANCE PARAMETERS
14-SI	-NAT		5.332- 1	5.662- 1	71 3062	2	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 951

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	14-SI-28	3.800-	2	6.800-	2	70 3716	2 RESONANCE PARAMETERS
	14-SI-28	5.500-	2	1.880-	1	59 534	6 RESONANCE PARAMETERS
	14-SI-28	1.950-	1	5.700-	1	51 59	3 RESONANCE PARAMETERS
	14-SI-28	5.380-	1	8.040-	1	67 2433	6 RESONANCE PARAMETERS
	14-SI-28	5.370-	1	5.370-	1	61 571	2 RESONANCE PARAMETERS
N	12-P-31	2.650-	2	2.650-	2	70 3716	1 RESONANCE PARAMETERS
	12-P-31	1.580-	1	1.580-	1	57 2421	1 RESONANCE PARAMETERS
	16-S-NAT	4.650-	1	4.650-	1	65 814	1 RESONANCE PARAMETERS
N	16-S-32	2.900-	2	4.200-	2	70 3716	9 RESONANCE PARAMETERS
	16-S-32	3.000-	2	3.000-	2	64 998	2 RESONANCE PARAMETERS
	16-S-32	3.035-	2	3.774-	1	71 3117	8 RESONANCE PARAMETERS
	16-S-32	3.040-	2	3.800-	1	65 814	8 RESONANCE PARAMETERS
	16-S-32	3.050-	2	1.000-	1	68 840	2 RESONANCE PARAMETERS
	16-S-32	1.110-	1	2.050-	1	49 51	4 RESONANCE PARAMETERS
	16-S-32	1.110-	1	1.420-	1	50 58	14 RESONANCE PARAMETERS
	16-S-32	5.900-	1	5.900-	1	61 571	2 RESONANCE PARAMETERS
	17-CL-NAT	3.078-	4	4.060-	1	65 814	53 RESONANCE PARAMETERS
N	17-CL-NAT	1.634-	2	1.800-	1	74 3634	26 RESONANCE PARAMETERS
	17-CL-NAT	2.550-	2	9.400-	2	59 2342	7 RESONANCE PARAMETERS
	17-CL-NAT	2.721-	2	8.998-	2	69 2537	8 RESONANCE PARAMETERS
	17-CL-35	-2.100-	4	4.300-	3	61 725	4 RESONANCE PARAMETERS
	17-CL-35	-2.100-	4	4.300-	3	61 857	13 RESONANCE PARAMETERS
	17-CL-35	-1.400-	4	4.050-	4	56 304	4 RESONANCE PARAMETERS
	17-CL-35	-7.500-	5	-7.500-	5	50 2406	3 RESONANCE PARAMETERS
N	17-CL-35	3.977-	4	1.901-	1	74 3634	30 RESONANCE PARAMETERS
	17-CL-35	4.050-	4	4.050-	4	65 1778	3 RESONANCE PARAMETERS
	17-CL-35	4.050-	4	4.050-	4	69 3043	2 RESONANCE PARAMETERS
	17-CL-35	1.472-	2	1.130-	1	69 2537	16 RESONANCE PARAMETERS
	17-CL-35	1.500-	2	1.840-	1	59 2342	17 RESONANCE PARAMETERS
	17-CL-35	2.650-	2	1.900-	1	55 2410	3 RESONANCE PARAMETERS
	17-CL-35	1.900-	1	2.020-	1	57 2421	4 RESONANCE PARAMETERS
	17-CL-37	8.000-	3	2.020-	1	57 2421	9 RESONANCE PARAMETERS
N	17-CL-37	8.312-	3	9.306-	2	74 3634	18 RESONANCE PARAMETERS
	17-CL-37	8.500-	3	1.930-	1	59 2342	8 RESONANCE PARAMETERS
	17-CL-37	8.700-	3	8.700-	3	56 304	1 RESONANCE PARAMETERS
	17-CL-37	8.800-	3	1.900-	1	55 2410	8 RESONANCE PARAMETERS
	17-CL-37	1.627-	2	9.270-	2	69 2537	12 RESONANCE PARAMETERS
	18-AR-36	-9.800-	3	-9.800-	3	62 2414	2 RESONANCE PARAMETERS
	19-K-NAT	1.111-	3	1.420-	1	65 814	50 RESONANCE PARAMETERS
N	19-K-NAT	1.214-	2	1.988-	1	73 3632	16 RESONANCE PARAMETERS
	19-K-39	1.111-	3	1.931-	1	73 3532	98 RESONANCE PARAMETERS
	19-K-39	3.400-	3	9.200-	3	58 15	2 RESONANCE PARAMETERS
	19-K-39	1.000-	2	1.100-	1	55 2410	8 RESONANCE PARAMETERS
N	19-K-41	2.029-	3	1.207-	1	73 3632	53 RESONANCE PARAMETERS
	19-K-41	5.400-	3	1.620-	2	58 15	2 RESONANCE PARAMETERS
	19-K-41	1.000-	2	1.100-	1	55 2410	6 RESONANCE PARAMETERS
N	20-CA-NAT	8.255-	2	1.030-	1	74 3579	2 RESONANCE PARAMETERS
N	20-CA-40	1.083-	2	5.354-	1	74 3579	36 RESONANCE PARAMETERS
	20-CA-40	8.800-	2	2.500-	1	61 728	24 RESONANCE PARAMETERS
	20-CA-40	1.480-	1	6.760-	1	62 747	52 RESONANCE PARAMETERS
	20-CA-40	2.540-	1	5.950-	1	61 732	21 RESONANCE PARAMETERS
C	20-CA-40	5.590-	1	1.530-	0	68 3072	215 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	20-CA-42	3.743-	2	3.743-	2	74 3579	1 RESONANCE PARAMETERS
C	20-CA-42	4.000-	2	5.725-	1	66 1048	82 RESONANCE PARAMETERS
	20-CA-43	1.470-	3	1.470-	3	63 2423	1 RESONANCE PARAMETERS
	20-CA-43	1.490-	3	1.490-	3	59 3067	1 RESONANCE PARAMETERS
	20-CA-43	4.360-	3	3.650-	2	65 924	22 RESONANCE PARAMETERS
	20-CA-44	2.200-	2	2.470-	1	61 728	20 RESONANCE PARAMETERS
N	20-CA-44	5.180-	2	5.180-	2	74 3579	1 RESONANCE PARAMETERS
	20-CA-44	5.330-	2	5.760-	1	66 1048	79 RESONANCE PARAMETERS
	21-SC-45	4.000-	4	1.000-	3	65 1795	6 RESONANCE PARAMETERS
	21-SC-45	1.300-	4	3.600-	3	55 1793	4 RESONANCE PARAMETERS
	21-SC-45	4.550-	4	1.020-	3	63 2481	2 RESONANCE PARAMETERS
	21-SC-45	3.240-	3	1.170-	2	59 2384	7 RESONANCE PARAMETERS
	21-SC-45	3.360-	3	6.800-	3	58 548	2 RESONANCE PARAMETERS
	21-SC-45	4.100-	3	4.100-	3	57 157	1 RESONANCE PARAMETERS
	21-SC-45	1.890-	2	4.000-	2	58 2394	8 RESONANCE PARAMETERS
	21-SC-45	1.917-	2	1.057-	1	70 3658	102 RESONANCE PARAMETERS
N	22-TI-46	1.100-	2	6.350-	2	66 1048	8 RESONANCE PARAMETERS
	22-TI-46	4.100-	2	3.900-	1	62 747	116 RESONANCE PARAMETERS
	22-TI-46	4.890-	2	1.794-	1	71 2079	9 RESONANCE PARAMETERS
	22-TI-47	2.980-	3	5.620-	2	66 324	38 RESONANCE PARAMETERS
	22-TI-47	3.074-	3	4.210-	2	71 2079	8 RESONANCE PARAMETERS
	22-TI-47	8.110-	3	2.120-	2	70 3068	9 RESONANCE PARAMETERS
N	22-TI-47	8.136-	3	7.455-	2	70 3658	69 RESONANCE PARAMETERS
	22-TI-48	4.000-	3	2.700-	1	61 728	38 RESONANCE PARAMETERS
	22-TI-48	1.750-	2	5.130-	2	66 1048	8 RESONANCE PARAMETERS
	22-TI-48	1.760-	2	1.910-	1	71 2079	12 RESONANCE PARAMETERS
C	22-TI-48	1.776-	2	1.924-	1	70 3067	21 RESONANCE PARAMETERS
	22-TI-48	7.200-	2	3.670-	1	62 747	66 RESONANCE PARAMETERS
	22-TI-49	3.720-	3	3.790-	2	66 924	20 RESONANCE PARAMETERS
	22-TI-49	3.835-	3	3.230-	2	71 2079	4 RESONANCE PARAMETERS
	22-TI-49	1.876-	2	2.390-	1	70 3067	54 RESONANCE PARAMETERS
	22-TI-50	3.700-	2	5.860-	1	62 747	48 RESONANCE PARAMETERS
	22-TI-50	5.550-	2	5.550-	2	66 1048	2 RESONANCE PARAMETERS
	22-TI-50	9.010-	2	1.856-	1	71 2079	3 RESONANCE PARAMETERS
	23-V -50	1.670-	4	1.430-	3	58 548	5 RESONANCE PARAMETERS
	23-V -50	1.420-	3	3.747-	2	64 814	3 RESONANCE PARAMETERS
	23-V -50	6.200-	3	4.070-	2	66 987	28 RESONANCE PARAMETERS
	23-V -51	1.420-	3	2.025-	1	64 814	48 RESONANCE PARAMETERS
	23-V -51	4.100-	3	8.710-	2	57 157	5 RESONANCE PARAMETERS
	23-V -51	4.150-	3	3.065-	2	61 2553	21 RESONANCE PARAMETERS
	23-V -51	4.160-	3	8.760-	2	71 3108	77 RESONANCE PARAMETERS
	23-V -51	4.169-	3	2.232-	2	63 1806	18 RESONANCE PARAMETERS
	23-V -51	4.180-	3	1.150-	2	58 548	4 RESONANCE PARAMETERS
	23-V -51	6.500-	3	6.500-	3	59 2384	1 RESONANCE PARAMETERS
	23-V -51	2.165-	2	1.529-	1	66 1552	42 RESONANCE PARAMETERS
	23-V -51	2.944-	2	1.303-	1	69 2537	48 RESONANCE PARAMETERS
	24-CR-NAT	1.430-	3	2.520-	1	68 3003	27 RESONANCE PARAMETERS
	24-CR-50	5.490-	3	3.566-	1	71 3108	54 RESONANCE PARAMETERS
	24-CR-50	5.500-	3	5.500-	3	58 548	3 RESONANCE PARAMETERS
	24-CR-50	5.500-	3	5.500-	3	64 1814	1 RESONANCE PARAMETERS
	24-CR-50	6.620-	3	9.500-	2	61 3108	10 RESONANCE PARAMETERS
	24-CR-50	9.550-	2	5.907-	1	66 1048	102 RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C - 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
24-CR-52		1.626-	3	3.311-	1	71 3108	51 RESONANCE PARAMETERS
24-CR-52		1.700-	3	1.700-	3	64 1812	2 RESONANCE PARAMETERS
24-CR-52		5.100-	2	1.395-	1	61 728	13 RESONANCE PARAMETERS
24-CR-52		5.100-	2	4.060-	1	57 318	11 RESONANCE PARAMETERS
24-CR-52		9.350-	2	6.360-	1	62 747	70 RESONANCE PARAMETERS
24-CR-52		7.550-	1	9.020-	1	67 2433	6 RESONANCE PARAMETERS
24-CR-53		3.600-	3	2.680-	2	65 924	20 RESONANCE PARAMETERS
24-CR-53		4.185-	3	1.760-	1	71 3108	73 RESONANCE PARAMETERS
24-CR-53		4.200-	3	6.800-	3	55 229	6 RESONANCE PARAMETERS
24-CR-53		1.930-	2	3.900-	2	63 2123	6 RESONANCE PARAMETERS
24-CR-53		1.953-	2	2.460-	1	72 3067	60 RESONANCE PARAMETERS
C 24-CR-53		2.695-	2	2.460-	1	69 3067	28 RESONANCE PARAMETERS
24-CR-53		6.900-	2	2.340-	1	57 318	4 RESONANCE PARAMETERS
24-CR-54		1.030-	2	3.551-	1	71 3108	21 RESONANCE PARAMETERS
24-CR-54		2.350-	2	1.190-	1	61 728	12 RESONANCE PARAMETERS
25-MN-55		3.000-	4	3.000-	4	47 261	1 RESONANCE PARAMETERS
25-MN-55		3.370-	4	2.350-	3	55 1624	12 RESONANCE PARAMETERS
C 25-MN-55		3.370-	4	8.860-	3	68 814	10 RESONANCE PARAMETERS
25-MN-55		3.450-	4	2.400-	3	50 2377	5 RESONANCE PARAMETERS
25-MN-55		3.460-	4	3.460-	4	54 459	3 RESONANCE PARAMETERS
25-MN-55		3.490-	4	2.560-	3	54 256	3 RESONANCE PARAMETERS
25-MN-55		2.360-	3	3.510-	2	57 157	8 RESONANCE PARAMETERS
25-MN-55		4.932-	3	8.140-	2	67 3118	54 RESONANCE PARAMETERS
C 25-MN-55		1.782-	2	5.990-	2	64 814	16 RESONANCE PARAMETERS
25-MN-55		5.340-	2	2.077-	1	66 1552	84 RESONANCE PARAMETERS
26-FE-NAT		1.620-	3	1.370-	2	65 1858	5 RESONANCE PARAMETERS
26-FE-NAT		8.000-	3	8.500-	2	56 142	4 RESONANCE PARAMETERS
26-FE-NAT		7.450-	2	1.780-	1	68 3003	1 RESONANCE PARAMETERS
26-FE-54		7.250-	3	7.250-	3	65 1858	1 RESONANCE PARAMETERS
26-FE-54		7.250-	3	1.470-	1	61 728	28 RESONANCE PARAMETERS
N 26-FE-54		7.600-	3	6.520-	1	75 3578	104 RESONANCE PARAMETERS
26-FE-54		7.757-	3	1.725-	1	71 2079	10 RESONANCE PARAMETERS
26-FE-54		7.820-	3	5.200-	2	69 2942	6 RESONANCE PARAMETERS
26-FE-54		8.100-	3	5.400-	2	55 229	2 RESONANCE PARAMETERS
26-FE-54		1.020-	2	7.700-	2	70 3068	4 RESONANCE PARAMETERS
26-FE-54		9.200-	2	4.010-	1	56 310	8 RESONANCE PARAMETERS
26-FE-54		9.800-	2	5.065-	1	82 747	56 RESONANCE PARAMETERS
N 26-FE-56		-2.000-	3	4.989-	1	75 3578	118 RESONANCE PARAMETERS
26-FE-56		1.148-	3	1.148-	3	64 2379	4 RESONANCE PARAMETERS
26-FE-56		1.148-	3	2.770-	2	65 1858	3 RESONANCE PARAMETERS
26-FE-56		1.150-	3	1.150-	3	69 3040	1 RESONANCE PARAMETERS
26-FE-56		1.151-	3	1.151-	3	69 1878	3 RESONANCE PARAMETERS
26-FE-56		1.154-	3	1.154-	3	62 939	1 RESONANCE PARAMETERS
C 26-FE-56		1.154-	3	1.154-	3	63 939	3 RESONANCE PARAMETERS
26-FE-56		1.167-	3	1.167-	3	70 3089	2 RESONANCE PARAMETERS
26-FE-56		1.180-	3	1.180-	3	60 616	3 RESONANCE PARAMETERS
26-FE-56		1.180-	3	1.180-	3	64 2380	2 RESONANCE PARAMETERS
26-FE-56		1.200-	3	1.200-	3	65 2507	1 RESONANCE PARAMETERS
N 26-FE-56		2.350-	3	5.900-	2	69 2942	12 RESONANCE PARAMETERS
26-FE-56		2.700-	2	5.000-	2	64 938	8 RESONANCE PARAMETERS
26-FE-56		2.280-	2	1.290-	1	70 3068	21 RESONANCE PARAMETERS
N 26-FE-56		2.766-	2	1.870-	1	71 2079	8 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C - 951

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C - 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
28-NI-62		6.000	-3	5.995	-1	86 1048	101 RESONANCE PARAMETERS
28-NI-64		9.520	-3	8.340	-2	69 2942	8 RESONANCE PARAMETERS
28-NI-64		1.050	-1	5.830	-1	66 1048	98 RESONANCE PARAMETERS
29-CU-NAT		2.290	-4	9.940	-2	64 814	94 RESONANCE PARAMETERS
29-CU-63		-1.001	-4	5.800	-4	63 896	2 RESONANCE PARAMETERS
29-CU-63		5.760	-4	2.520	-3	57 2024	5 RESONANCE PARAMETERS
29-CU-63		5.770	-4	5.390	-3	58 548	7 RESONANCE PARAMETERS
29-CU-63		5.770	-4	2.282	-2	64 814	17 RESONANCE PARAMETERS
29-CU-63		5.780	-4	3.121	-2	69 1817	76 RESONANCE PARAMETERS
29-CU-63		2.630	-3	4.220	-2	65 924	55 RESONANCE PARAMETERS
29-CU-65		2.270	-4	2.270	-4	57 2024	1 RESONANCE PARAMETERS
29-CU-65		2.270	-4	2.270	-4	63 896	2 RESONANCE PARAMETERS
29-CU-65		2.290	-4	1.632	-2	64 814	14 RESONANCE PARAMETERS
29-CU-65		2.300	-4	4.160	-3	58 548	6 RESONANCE PARAMETERS
29-CU-65		2.300	-4	2.578	-2	69 1817	39 RESONANCE PARAMETERS
29-CU-65		2.500	-3	5.800	-2	65 924	43 RESONANCE PARAMETERS
30-ZN-NAT		-3.000	-4	-3.000	-4	58 903	1 RESONANCE PARAMETERS
30-ZN-NAT		2.180	-4	2.510	-3	54 256	3 RESONANCE PARAMETERS
30-ZN-NAT		2.229	-4	5.490	-2	64 814	147 RESONANCE PARAMETERS
30-ZN-64		2.816	-4	2.816	-4	69 1878	4 RESONANCE PARAMETERS
30-ZN-64		2.818	-4	1.524	-2	64 814	6 RESONANCE PARAMETERS
30-ZN-64		2.880	-4	2.880	-4	65 2077	4 RESONANCE PARAMETERS
30-ZN-64		2.750	-3	4.600	-3	56 953	6 RESONANCE PARAMETERS
30-ZN-66		3.230	-4	3.230	-4	69 1878	4 RESONANCE PARAMETERS
30-ZN-66		3.232	-4	3.080	-2	64 814	7 RESONANCE PARAMETERS
30-ZN-66		3.280	-4	3.280	-4	65 2077	4 RESONANCE PARAMETERS
30-ZN-66		1.120	-2	3.080	-2	59 2384	5 RESONANCE PARAMETERS
30-ZN-67		2.229	-4	2.246	-3	64 814	4 RESONANCE PARAMETERS
30-ZN-67		2.250	-4	2.300	-3	56 953	12 RESONANCE PARAMETERS
30-ZN-67		2.260	-4	4.560	-4	65 2077	7 RESONANCE PARAMETERS
30-ZN-67		2.289	-4	2.289	-4	69 1878	4 RESONANCE PARAMETERS
30-ZN-68		5.140	-4	1.882	-2	64 814	2 RESONANCE PARAMETERS
30-ZN-68		5.300	-4	5.300	-4	56 953	4 RESONANCE PARAMETERS
30-ZN-68		5.300	-4	5.300	-4	65 2077	5 RESONANCE PARAMETERS
30-ZN-68		2.080	-2	2.080	-2	59 2384	1 RESONANCE PARAMETERS
31-CA-NAT		4.720	-4	3.512	-3	64 2003	11 RESONANCE PARAMETERS
31-GA-69		1.110	-4	5.877	-3	70 3045	58 RESONANCE PARAMETERS
31-GA-69		1.120	-4	7.100	-4	56 138	12 RESONANCE PARAMETERS
31-GA-69		3.340	-4	2.463	-3	64 2003	35 RESONANCE PARAMETERS
31-GA-71		9.500	-5	7.070	-4	56 138	14 RESONANCE PARAMETERS
31-GA-71		9.580	-5	5.054	-3	70 3045	51 RESONANCE PARAMETERS
31-GA-71		2.875	-4	7.080	-4	64 2003	15 RESONANCE PARAMETERS
32-GE-70		1.115	-3	2.850	-2	68 3015	22 RESONANCE PARAMETERS
32-GE-70		4.340	-3	3.840	-2	66 3028	18 RESONANCE PARAMETERS
32-GE-72		2.520	-4	2.940	-2	68 3015	17 RESONANCE PARAMETERS
32-GE-72		4.540	-3	3.950	-2	66 3028	10 RESONANCE PARAMETERS
32-GE-73		1.026	-4	8.530	-3	68 3015	59 RESONANCE PARAMETERS
32-GE-74		2.846	-3	6.104	-2	68 3015	12 RESONANCE PARAMETERS
32-GE-74		4.970	-3	2.200	-2	66 3028	3 RESONANCE PARAMETERS
32-GE-76		5.500	-4	4.870	-2	68 3015	10 RESONANCE PARAMETERS
32-GE-76		4.970	-3	2.930	-2	66 3028	4 RESONANCE PARAMETERS
33-AS-75		4.680	-5	9.700	-5	58 1248	8 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C - 951

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C * 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
33-AS-75		4.700-	5	7.460-	4	58 548	32 RESONANCE PARAMETERS
33-AS-75		4.700-	5	8.960-	4	59 2476	10 RESONANCE PARAMETERS
33-AS-75		4.800-	5	5.280-	4	64 3029	12 RESONANCE PARAMETERS
33-AS-75		2.510-	4	2.031-	3	62 881	59 RESONANCE PARAMETERS
33-AS-75		2.527-	4	9.686-	3	64 814	191 RESONANCE PARAMETERS
33-AS-75		3.190-	4	3.993-	3	64 2003	136 RESONANCE PARAMETERS
34-SE-NAT		5.150-	6	7.140-	3	64 1015	15 RESONANCE PARAMETERS
34-SE-NAT		2.710-	5	3.830-	4	55 1824	4 RESONANCE PARAMETERS
34-SE-NAT		3.740-	4	2.230-	3	62 881	7 RESONANCE PARAMETERS
34-SE-NAT		5.850-	3	8.600-	3	58 15	3 RESONANCE PARAMETERS
N 34-SE-74		2.700-	5	2.680-	4	62 881	2 RESONANCE PARAMETERS
34-SE-74		2.700-	5	2.700-	4	64 1015	5 RESONANCE PARAMETERS
34-SE-74		2.700-	5	2.720-	4	59 1774	7 RESONANCE PARAMETERS
34-SE-74		2.710-	5	7.216-	3	70 3047	15 RESONANCE PARAMETERS
34-SE-74		2.700-	4	2.700-	4	69 1878	4 RESONANCE PARAMETERS
34-SE-76		3.740-	4	8.550-	4	62 881	2 RESONANCE PARAMETERS
34-SE-76		3.760-	4	3.760-	4	69 1878	4 RESONANCE PARAMETERS
34-SE-76		3.760-	4	5.350-	3	64 1015	16 RESONANCE PARAMETERS
34-SE-76		3.780-	4	1.328-	2	70 3047	32 RESONANCE PARAMETERS
34-SE-76		8.600-	4	2.600-	3	59 1774	4 RESONANCE PARAMETERS
34-SE-76		4.960-	3	2.420-	2	66 2475	7 RESONANCE PARAMETERS
34-SE-77		1.120-	4	1.480-	3	62 2119	46 RESONANCE PARAMETERS
34-SE-77		1.120-	4	2.250-	3	64 1015	48 RESONANCE PARAMETERS
34-SE-77		1.120-	4	3.919-	3	70 3047	78 RESONANCE PARAMETERS
34-SE-77		2.110-	4	6.880-	4	69 1878	12 RESONANCE PARAMETERS
34-SE-77		6.900-	4	9.980-	4	59 1774	3 RESONANCE PARAMETERS
34-SE-78		3.800-	4	3.800-	4	62 881	1 RESONANCE PARAMETERS
34-SE-78		3.810-	4	3.190-	3	64 1015	5 RESONANCE PARAMETERS
34-SE-78		3.817-	4	3.817-	4	69 1878	4 RESONANCE PARAMETERS
34-SE-78		3.820-	4	3.820-	4	59 1774	3 RESONANCE PARAMETERS
34-SE-78		3.840-	4	2.015-	2	70 3047	23 RESONANCE PARAMETERS
34-SE-78		5.730-	3	4.050-	2	66 2475	9 RESONANCE PARAMETERS
34-SE-80		1.740-	3	2.312-	2	70 3047	15 RESONANCE PARAMETERS
34-SE-80		1.963-	3	1.963-	3	62 881	1 RESONANCE PARAMETERS
34-SE-80		1.980-	3	5.080-	3	64 1015	3 RESONANCE PARAMETERS
34-SE-80		2.000-	3	5.300-	3	59 1774	5 RESONANCE PARAMETERS
34-SE-80		3.250-	3	3.990-	2	66 2475	8 RESONANCE PARAMETERS
34-SE-80		4.250-	3	4.950-	3	58 15	2 RESONANCE PARAMETERS
34-SE-82		6.580-	3	2.655-	2	66 2475	4 RESONANCE PARAMETERS
35-BR-NAT		1.573-	4	3.680-	4	63 2068	5 RESONANCE PARAMETERS
35-BR-NAT		1.578-	4	9.950-	4	59 2476	58 RESONANCE PARAMETERS
35-BR-NAT		4.680-	4	1.968-	3	65 1813	167 RESONANCE PARAMETERS
35-BR-79		3.560-	5	3.170-	4	59 1774	28 RESONANCE PARAMETERS
35-BR-79		3.578-	5	3.946-	4	65 1813	24 RESONANCE PARAMETERS
35-BR-79		3.580-	5	3.945-	4	59 2476	23 RESONANCE PARAMETERS
35-BR-79		3.590-	5	3.196-	4	65 2474	20 RESONANCE PARAMETERS
35-BR-79		3.590-	5	3.948-	4	63 2068	33 RESONANCE PARAMETERS
35-BR-79		1.895-	4	3.945-	4	64 814	14 RESONANCE PARAMETERS
35-BR-81		1.010-	4	2.050-	4	64 814	6 RESONANCE PARAMETERS
35-BR-81		1.011-	4	1.355-	4	65 1813	14 RESONANCE PARAMETERS
35-BR-81		1.012-	4	2.049-	4	59 2476	11 RESONANCE PARAMETERS
35-BR-81		1.013-	4	1.359-	4	65 2474	8 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C * 951

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
35-BR-91			1.013-	4	2.049- 4	63 2068	15 RESONANCE PARAMETERS
35-BR-91			1.020-	4	2.050- 4	59 1774	14 RESONANCE PARAMETERS
36-KR-NAT			6.400-	4	6.400- 4	59 2072	1 RESONANCE PARAMETERS
36-KR-80			1.060-	4	1.060- 4	59 2072	3 RESONANCE PARAMETERS
36-KR-82			3.980-	5	3.980- 5	59 2072	2 RESONANCE PARAMETERS
36-KR-82			4.110-	5	4.110- 5	57 434	2 RESONANCE PARAMETERS
36-KR-83			2.790-	5	2.830- 4	57 2072	5 RESONANCE PARAMETERS
36-KR-83			2.830-	5	2.830- 5	57 434	2 RESONANCE PARAMETERS
36-KR-84			5.190-	4	5.800- 4	59 2072	4 RESONANCE PARAMETERS
37-RB-NAT			1.960-	3	3.060- 3	65 2075	5 RESONANCE PARAMETERS
37-RB-85			1.760-	4	1.690- 3	65 2075	23 RESONANCE PARAMETERS
37-RB-85			1.765-	4	1.717- 2	70 3049	64 RESONANCE PARAMETERS
37-RB-85			3.300-	3	6.900- 3	58 15	9 RESONANCE PARAMETERS
37-RB-87			2.670-	4	3.780- 4	65 2075	6 RESONANCE PARAMETERS
37-RB-87			2.695-	4	2.347- 2	70 3049	17 RESONANCE PARAMETERS
37-RB-87			5.000-	3	8.950- 3	58 15	8 RESONANCE PARAMETERS
38-SR-NAT			1.320-	1	1.320- 1	61 728	1 RESONANCE PARAMETERS
38-SR-84			3.646-	4	3.350- 3	65 2112	11 RESONANCE PARAMETERS
38-SR-86			5.900-	4	1.080- 2	65 2112	10 RESONANCE PARAMETERS
38-SR-86			3.000-	3	1.130- 2	58 15	3 RESONANCE PARAMETERS
38-SR-86			1.275-	2	1.275- 2	61 728	1 RESONANCE PARAMETERS
38-SR-87			3.560-	6	6.200- 4	57 1967	5 RESONANCE PARAMETERS
38-SR-87			3.560-	6	3.700- 3	65 2112	25 RESONANCE PARAMETERS
38-SR-88			2.780-	3	2.380- 2	65 2112	4 RESONANCE PARAMETERS
38-SR-88			1.360-	2	1.360- 2	58 15	2 RESONANCE PARAMETERS
38-SR-88			1.450-	2	2.125- 1	61 728	58 RESONANCE PARAMETERS
39-Y -89			-3.000-	4	-3.000- 4	58 903	1 RESONANCE PARAMETERS
39-Y -89			6.800-	4	7.680- 2	62 2114	40 RESONANCE PARAMETERS
39-Y -89			2.500-	3	1.300- 2	61 728	9 RESONANCE PARAMETERS
39-Y -89			2.500-	3	1.700- 2	58 15	5 RESONANCE PARAMETERS
39-Y -89			2.598-	3	3.005- 2	69 2537	51 RESONANCE PARAMETERS
40-ZR-NAT			1.993-	3	1.993- 3	69 2537	1 RESONANCE PARAMETERS
40-ZR-90			3.800-	3	6.800- 2	68 925	13 RESONANCE PARAMETERS
40-ZR-90			3.812-	3	1.310- 2	62 881	2 RESONANCE PARAMETERS
40-ZR-90			3.848-	3	4.453- 2	69 3092	32 RESONANCE PARAMETERS
40-ZR-90			3.880-	3	1.780- 2	63 931	6 RESONANCE PARAMETERS
40-ZR-90			3.905-	3	1.801- 2	61 2477	3 RESONANCE PARAMETERS
40-ZR-90			3.912-	3	1.785- 2	64 894	8 RESONANCE PARAMETERS
40-ZR-91			1.590-	4	3.090- 3	59 2855	26 RESONANCE PARAMETERS
40-ZR-91			1.800-	4	2.448- 3	62 981	32 RESONANCE PARAMETERS
40-ZR-91			1.810-	4	1.105- 2	64 3092	70 RESONANCE PARAMETERS
40-ZR-91			1.817-	4	2.008- 3	69 2537	28 RESONANCE PARAMETERS
40-ZR-91			1.820-	4	2.930- 4	65 2507	3 RESONANCE PARAMETERS
40-ZR-91			1.820-	4	2.480- 3	61 2477	6 RESONANCE PARAMETERS
40-ZR-91			1.822-	4	5.600- 3	63 931	20 RESONANCE PARAMETERS
40-ZR-91			1.825-	4	5.600- 3	64 894	23 RESONANCE PARAMETERS
40-ZR-91			2.960-	4	2.960- 4	57 1967	1 RESONANCE PARAMETERS
40-ZR-91			2.960-	4	2.960- 4	59 974	1 RESONANCE PARAMETERS
40-ZR-92			1.860-	3	6.880- 2	64 894	10 RESONANCE PARAMETERS
40-ZR-92			2.004-	3	3.939- 2	69 3092	37 RESONANCE PARAMETERS
40-ZR-92			2.661-	3	2.260- 2	62 881	6 RESONANCE PARAMETERS
40-ZR-92			2.700-	3	6.890- 3	63 931	8 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	E-MIN-ME	E-MAX-ME	REFERENCE	POINTS	REACTION DESCRIPTION
40-ZR-92		2.700-3	5.200-2	69 925	15	RESONANCE PARAMETERS
40-ZR-92		6.942-3	6.942-3	61 2477	1	RESONANCE PARAMETERS
40-ZR-93		1.100-3	1.100-3	59 974	12	RESONANCE PARAMETERS
40-ZR-94		2.250-3	2.400-2	63 931	10	RESONANCE PARAMETERS
40-ZR-94		2.253-3	2.777-2	69 3092	34	RESONANCE PARAMETERS
40-ZR-94		2.273-3	1.986-2	64 889	10	RESONANCE PARAMETERS
40-ZR-94		5.700-3	4.370-2	68 925	22	RESONANCE PARAMETERS
40-ZR-96		5.710-3	7.150-3	62 881	2	RESONANCE PARAMETERS
40-ZR-96		3.000-3	3.000-3	62 891	4	RESONANCE PARAMETERS
40-ZR-96		3.009-3	3.009-3	69 2537	5	RESONANCE PARAMETERS
40-ZR-96		3.010-3	1.540-2	63 931	14	RESONANCE PARAMETERS
40-ZR-96		2.880-3	5.830-2	64 894	10	RESONANCE PARAMETERS
40-ZR-96		3.350-3	1.938-2	60 2476	22	RESONANCE PARAMETERS
41-NB-93		3.360-3	1.190-4	68 3083	17	RESONANCE PARAMETERS
41-NB-93		3.365-3	2.335-2	71 3131	25	RESONANCE PARAMETERS
41-NB-93		3.390-3	2.030-2	63 3030	29	RESONANCE PARAMETERS
41-NB-93		3.390-3	2.740-2	58 2133	41	RESONANCE PARAMETERS
41-NB-93		3.390-3	1.160-3	65 2159	313	RESONANCE PARAMETERS
41-NB-93		3.400-3	1.380-2	71 288	57	RESONANCE PARAMETERS
41-NB-93		4.230-3	3.750-2	59 355	14	RESONANCE PARAMETERS
41-NB-93		9.550-3	7.250-2	65 2075	24	RESONANCE PARAMETERS
41-NB-93		1.950-3	1.950-3	59 387	24	RESONANCE PARAMETERS
41-NB-93		2.433-3	1.325-2	59 3031	313	RESONANCE PARAMETERS
41-NB-93		2.444-3	7.325-2	59 2716	39	RESONANCE PARAMETERS
41-NB-94		1.158-3	2.538-2	70 3176	17	RESONANCE PARAMETERS
42-MO-NAT		1.200-3	1.200-3	70 3073	17	RESONANCE PARAMETERS
42-MO-NAT		1.680-3	1.123-2	68 1829	6	RESONANCE PARAMETERS
42-MO-NAT		1.890-3	8.420-2	56 201	228	RESONANCE PARAMETERS
42-MO-NAT		2.650-3	1.153-2	62 2604	39	RESONANCE PARAMETERS
42-MO-NAT		4.060-3	5.100-2	65 2882	39	RESONANCE PARAMETERS
42-MO-NAT		9.670-3	3.760-2	63 2603	5	RESONANCE PARAMETERS
42-MO-92		3.450-3	3.450-3	62 2604	1	RESONANCE PARAMETERS
42-MO-92		3.468-3	1.668-2	63 2603	11	RESONANCE PARAMETERS
42-MO-92		3.469-3	3.170-2	68 814	2	RESONANCE PARAMETERS
42-MO-92		3.470-3	5.400-2	69 3016	1	RESONANCE PARAMETERS
42-MO-92		3.470-3	7.1313	71 3113	6	RESONANCE PARAMETERS
42-MO-92		3.472-3	1.472-2	67 3038	17	RESONANCE PARAMETERS
42-MO-94		1.080-3	5.124-2	71 3124	13	RESONANCE PARAMETERS
42-MO-94		1.510-3	5.380-2	63 2673	13	RESONANCE PARAMETERS
42-MO-94		1.521-3	1.521-3	52 2604	2	RESONANCE PARAMETERS
42-MO-94		1.697-3	1.951-2	66 814	2	RESONANCE PARAMETERS
42-MO-95		4.460-3	1.591-2	69 1878	8	RESONANCE PARAMETERS
42-MO-95		4.462-3	4.462-3	72 3843	8	RESONANCE PARAMETERS
42-MO-95		4.470-3	1.470-2	59 3016	39	RESONANCE PARAMETERS
42-MO-95		4.490-3	1.490-2	67 3038	23	RESONANCE PARAMETERS
42-MO-95		4.490-3	2.141-2	71 3124	55	RESONANCE PARAMETERS
42-MO-95		4.500-3	2.150-2	52 267	55	RESONANCE PARAMETERS
42-MO-95		4.500-3	3.500-2	56 201	5	RESONANCE PARAMETERS

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N 42-MO-95		4.500-	5	7.000- 4	55 862	9	RESONANCE PARAMETERS
42-MO-95		4.500-	5	1.413- 3	62 2604	12	RESONANCE PARAMETERS
42-MO-95		4.500-	5	7.400- 3	63 2603	37	RESONANCE PARAMETERS
42-MO-95		4.510-	5	1.610- 4	65 2077	5	RESONANCE PARAMETERS
42-MO-95		4.510-	5	5.543- 4	70 2297	4	RESONANCE PARAMETERS
42-MO-95		4.510-	5	1.145- 3	68 3039	15	RESONANCE PARAMETERS
42-MO-95		4.510-	5	1.145- 3	70 3046	9	RESONANCE PARAMETERS
42-MO-95		1.070-	4	2.150- 4	62 2605	2	RESONANCE PARAMETERS
42-MO-95		1.177-	4	1.419- 3	68 814	16	RESONANCE PARAMETERS
42-MO-96		1.132-	4	2.362- 3	67 3038	3	RESONANCE PARAMETERS
42-MO-96		1.134-	4	1.134- 4	71 3113	2	RESONANCE PARAMETERS
42-MO-95		1.134-	4	3.282- 3	68 814	4	RESONANCE PARAMETERS
42-MO-96		1.134-	4	7.051- 3	71 3124	25	RESONANCE PARAMETERS
42-MO-96		1.135-	4	1.313- 4	69 3016	5	RESONANCE PARAMETERS
42-MO-96		1.145-	4	3.660- 3	63 2603	9	RESONANCE PARAMETERS
42-MO-96		1.310-	4	1.310- 4	69 1878	4	RESONANCE PARAMETERS
42-MO-96		1.320-	4	1.320- 4	62 2604	1	RESONANCE PARAMETERS
42-MO-96		1.326-	4	1.326- 4	65 2077	5	RESONANCE PARAMETERS
42-MO-96		1.330-	4	1.330- 4	55 862	2	RESONANCE PARAMETERS
42-MO-96		1.340-	4	1.340- 4	56 2011	3	RESONANCE PARAMETERS
42-MO-97		1.630-	5	1.535- 3	69 3016	47	RESONANCE PARAMETERS
42-MO-97		7.080-	5	1.250- 3	68 3039	10	RESONANCE PARAMETERS
42-MO-97		7.090-	5	1.261- 3	67 3038	14	RESONANCE PARAMETERS
42-MO-97		7.090-	5	2.000- 3	63 2603	24	RESONANCE PARAMETERS
42-MO-97		7.092-	5	1.941- 3	71 3124	65	RESONANCE PARAMETERS
42-MO-97		7.093-	5	1.261- 3	68 814	12	RESONANCE PARAMETERS
42-MO-97		7.150-	5	5.800- 4	55 862	9	RESONANCE PARAMETERS
42-MO-97		7.160-	5	7.160- 5	65 2077	3	RESONANCE PARAMETERS
42-MO-97		7.180-	5	1.519- 3	62 2604	8	RESONANCE PARAMETERS
42-MO-97		7.190-	5	7.190- 5	56 2011	3	RESONANCE PARAMETERS
42-MO-97		7.075-	4	7.075- 4	69 1878	3	RESONANCE PARAMETERS
42-MO-98		1.200-	5	1.200- 5	63 896	2	RESONANCE PARAMETERS
42-MO-98		1.200-	5	1.200- 5	66 2606	1	RESONANCE PARAMETERS
42-MO-98		1.200-	5	1.109- 3	71 3113	10	RESONANCE PARAMETERS
42-MO-98		1.200-	5	9.000- 3	63 2603	21	RESONANCE PARAMETERS
42-MO-98		1.208-	5	2.550- 3	67 3038	8	RESONANCE PARAMETERS
42-MO-98		1.208-	5	5.261- 3	71 3124	35	RESONANCE PARAMETERS
42-MO-98		1.210-	5	8.183- 4	70 3075	5	RESONANCE PARAMETERS
42-MO-98		1.210-	5	1.109- 3	69 3016	13	RESONANCE PARAMETERS
42-MO-98		1.215-	5	1.215- 5	65 2077	4	RESONANCE PARAMETERS
42-MO-98		4.270-	4	1.521- 3	62 2604	6	RESONANCE PARAMETERS
42-MO-98		4.280-	4	8.110- 4	70 3132	3	RESONANCE PARAMETERS
42-MO-98		4.280-	4	3.713- 3	68 814	8	RESONANCE PARAMETERS
42-MO-98		4.800-	4	4.600- 4	55 862	2	RESONANCE PARAMETERS
42-MO-100		9.700-	5	1.940- 3	62 2604	6	RESONANCE PARAMETERS
42-MO-100		9.730-	5	9.730- 5	71 3113	2	RESONANCE PARAMETERS
42-MO-100		9.730-	5	1.250- 3	67 3038	4	RESONANCE PARAMETERS
42-MO-100		9.734-	5	1.251- 3	68 814	4	RESONANCE PARAMETERS
42-MO-100		9.740-	5	9.740- 5	69 3016	2	RESONANCE PARAMETERS
42-MO-100		9.741-	5	4.728- 3	71 3124	25	RESONANCE PARAMETERS
42-MO-100		9.950-	5	1.936- 3	63 2603	12	RESONANCE PARAMETERS
42-MO-100		3.670-	4	3.670- 4	55 862	2	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	42-MO-100			3.670-4	3.670-4	63 896	1	RESONANCE PARAMETERS
	43-TC-99			-6.400-6	2.800-4	70 3530	21	RESONANCE PARAMETERS
	43-TC-99			-6.400-6	5.250-4	70 3095	26	RESONANCE PARAMETERS
	44-RU-NAT			9.800-6	9.800-5	53 100	1	RESONANCE PARAMETERS
	44-RU-NAT			1.000-5	3.500-4	63 2439	8	RESONANCE PARAMETERS
	44-RU-NAT			1.005-5	1.416-4	65 2474	10	RESONANCE PARAMETERS
	44-RU-NAT			1.010-5	1.461-3	71 3069	12	RESONANCE PARAMETERS
	44-RU-99			2.410-5	2.410-5	53 100	1	RESONANCE PARAMETERS
	44-RU-99			2.522-5	5.097-4	68 3039	12	RESONANCE PARAMETERS
	44-RU-99			2.530-5	2.530-5	65 2474	4	RESONANCE PARAMETERS
	44-RU-99			2.530-5	2.270-4	63 2439	5	RESONANCE PARAMETERS
	44-RU-99			2.530-5	4.030-4	71 3069	14	RESONANCE PARAMETERS
	44-RU-100			2.305-4	2.305-4	71 3069	1	RESONANCE PARAMETERS
	44-RU-101			1.520-5	4.090-5	53 100	2	RESONANCE PARAMETERS
	44-RU-101			1.570-5	4.600-4	63 2439	17	RESONANCE PARAMETERS
	44-RU-101			1.580-5	1.130-4	65 2474	14	RESONANCE PARAMETERS
	44-RU-101			1.590-5	6.700-4	71 3069	34	RESONANCE PARAMETERS
	44-RU-101			4.228-5	5.347-4	68 3039	24	RESONANCE PARAMETERS
	44-RU-102			1.660-4	1.296-3	71 3069	3	RESONANCE PARAMETERS
	44-RU-102			2.000-4	2.000-4	63 2439	3	RESONANCE PARAMETERS
	44-RU-104			2.265-4	1.055-3	71 3069	4	RESONANCE PARAMETERS
	45-RH-103			0.000+0	1.253+0	68 3297	3	RESONANCE PARAMETERS
	45-RH-103			1.255-6	1.255-6	58 2147	3	RESONANCE PARAMETERS
	45-RH-103			1.257-6	7.574-4	65 2149	169	RESONANCE PARAMETERS
	45-RH-103			1.257-6	7.950-4	63 2145	109	RESONANCE PARAMETERS
	45-RH-103			1.259-6	9.889-4	71 3137	146	RESONANCE PARAMETERS
	45-RH-103			1.260-6	1.260-6	53 874	1	RESONANCE PARAMETERS
	45-RH-103			1.260-6	1.260-6	53 2157	4	RESONANCE PARAMETERS
	45-RH-103			3.432-5	1.270-3	61 2152	39	RESONANCE PARAMETERS
	45-RH-103			3.439-5	1.625-4	62 2148	5	RESONANCE PARAMETERS
	45-RH-103			3.440-5	2.900-4	64 2615	28	RESONANCE PARAMETERS
	45-RH-103			3.440-5	6.480-4	62 2143	38	RESONANCE PARAMETERS
	45-RH-103			3.440-5	8.430-4	63 2160	69	RESONANCE PARAMETERS
C	45-RH-103			3.441-5	4.140-3	70 2480	505	RESONANCE PARAMETERS
	45-RH-103			4.380-5	3.260-4	59 2007	12	RESONANCE PARAMETERS
	45-RH-103			4.650-5	1.860-4	58 1820	10	RESONANCE PARAMETERS
	45-RH-103			9.470-5	6.330-4	61 2158	21	RESONANCE PARAMETERS
	45-RH-103			9.500-5	7.010-4	66 2434	13	RESONANCE PARAMETERS
	45-RH-103			9.560-5	9.560-5	70 3086	1	RESONANCE PARAMETERS
	45-RH-103			1.543-4	2.900-4	62 2144	10	RESONANCE PARAMETERS
	45-RH-103			1.544-4	5.550-4	65 2154	21	RESONANCE PARAMETERS
	45-RH-103			3.279-4	1.616-3	60 2617	33	RESONANCE PARAMETERS
	46-PD-NAT			2.780-5	6.300-5	65 2618	4	RESONANCE PARAMETERS
	46-PD-NAT			1.140-4	9.230-4	59 2007	14	RESONANCE PARAMETERS
	46-PD-NAT			1.480-4	3.910-4	56 201	4	RESONANCE PARAMETERS
	46-PD-105			2.950-6	3.350-5	63 2619	4	RESONANCE PARAMETERS
	46-PD-105			1.168-5	3.570-4	56 201	8	RESONANCE PARAMETERS
	46-PD-105			1.178-5	1.620-4	65 2619	35	RESONANCE PARAMETERS
	46-PD-105			1.180-5	3.690-4	64 2616	26	RESONANCE PARAMETERS
	46-PD-105			1.190-5	3.653-4	59 2007	27	RESONANCE PARAMETERS
	46-PD-105			1.320-5	7.850-5	70 3085	3	RESONANCE PARAMETERS
	46-PD-105			5.523-5	8.078-4	68 3039	50	RESONANCE PARAMETERS

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	46-PD-108			2.980- 6	9.160- 5	65 2618	8	RESONANCE PARAMETERS
	46-PD-108			2.970- 6	2.970- 6	67 2162	2	RESONANCE PARAMETERS
	46-PD-108			3.250- 5	8.950- 5	56 201	3	RESONANCE PARAMETERS
	46-PD-108			3.310- 5	9.080- 5	59 2007	3	RESONANCE PARAMETERS
	46-PD-108			9.094- 5	9.094- 5	68 3039	1	RESONANCE PARAMETERS
	47-AG-NAT			5.100- 6	4.300- 5	46 961	3	RESONANCE PARAMETERS
	47-AG-NAT			5.170- 6	5.170- 6	91 2044	1	RESONANCE PARAMETERS
	47-AG-NAT			1.600- 5	4.500- 5	47 261	2	RESONANCE PARAMETERS
	47-AG-NAT			1.470- 4	2.510- 4	56 1237	2	RESONANCE PARAMETERS
	47-AG-NAT			1.730- 4	2.500- 4	56 2612	3	RESONANCE PARAMETERS
	47-AG-NAT			1.731- 4	5.545- 4	65 814	3	RESONANCE PARAMETERS
	47-AG-NAT			1.734- 4	2.518- 4	61 2158	4	RESONANCE PARAMETERS
	47-AG-NAT			1.734- 4	6.950- 4	60 2472	28	RESONANCE PARAMETERS
	47-AG-NAT			1.740- 4	1.740- 4	63 2265	2	RESONANCE PARAMETERS
	47-AG-NAT			3.168- 4	7.530- 4	69 2547	17	RESONANCE PARAMETERS
	47-AG-107			1.600- 5	5.200- 5	63 2265	5	RESONANCE PARAMETERS
N	47-AG-107			1.630- 5	5.200- 5	58 2471	21	RESONANCE PARAMETERS
	47-AG-107			1.630- 5	2.030- 4	56 2612	9	RESONANCE PARAMETERS
	47-AG-107			1.473- 5	3.620- 4	65 1949	24	RESONANCE PARAMETERS
	47-AG-107			1.630- 5	7.050- 4	60 2472	88	RESONANCE PARAMETERS
	47-AG-107			1.630- 5	9.149- 4	69 2387	59	RESONANCE PARAMETERS
	47-AG-107			1.630- 5	1.178- 3	65 814	59	RESONANCE PARAMETERS
	47-AG-107			1.650- 5	3.116- 4	61 2158	14	RESONANCE PARAMETERS
	47-AG-107			1.660- 5	1.660- 5	55 2610	5	RESONANCE PARAMETERS
	47-AG-107			1.660- 5	5.220- 5	54 459	12	RESONANCE PARAMETERS
	47-AG-107			1.660- 5	2.050- 4	56 1237	14	RESONANCE PARAMETERS
C	47-AG-107			4.158- 5	2.665- 3	69 3050	44	RESONANCE PARAMETERS
	47-AG-107			5.130- 5	5.130- 5	66 2173	1	RESONANCE PARAMETERS
N	47-AG-107			1.076- 4	8.490- 4	68 4018	26	RESONANCE PARAMETERS
	47-AG-107			1.443- 4	1.700- 4	62 2473	3	RESONANCE PARAMETERS
	47-AG-107			3.112- 4	7.220- 4	69 2547	42	RESONANCE PARAMETERS
	47-AG-109			5.170- 6	5.170- 6	51 2044	4	RESONANCE PARAMETERS
	47-AG-109			5.193- 6	5.193- 6	55 2610	5	RESONANCE PARAMETERS
	47-AG-109			5.194- 6	5.194- 6	56 2440	6	RESONANCE PARAMETERS
	47-AG-109			5.200- 6	5.200- 6	54 2611	1	RESONANCE PARAMETERS
	47-AG-109			5.200- 6	5.200- 6	68 2743	2	RESONANCE PARAMETERS
	47-AG-109			5.200- 6	1.340- 4	58 2471	41	RESONANCE PARAMETERS
	47-AG-109			5.200- 6	4.041- 4	65 1949	29	RESONANCE PARAMETERS
	47-AG-109			5.200- 6	9.028- 4	69 2387	64	RESONANCE PARAMETERS
	47-AG-109			5.200- 6	1.236- 3	65 814	67	RESONANCE PARAMETERS
	47-AG-109			5.220- 6	8.850- 5	54 459	19	RESONANCE PARAMETERS
	47-AG-109			3.035- 5	3.170- 4	66 2173	13	RESONANCE PARAMETERS
	47-AG-109			3.050- 5	2.090- 4	56 2612	11	RESONANCE PARAMETERS
	47-AG-109			3.050- 5	3.173- 4	61 2158	21	RESONANCE PARAMETERS
	47-AG-109			3.050- 5	7.280- 4	60 2472	92	RESONANCE PARAMETERS
	47-AG-109			3.080- 5	3.160- 4	56 1237	22	RESONANCE PARAMETERS
	47-AG-109			3.100- 5	1.320- 4	63 2265	8	RESONANCE PARAMETERS
	47-AG-109			3.263- 5	8.430- 4	69 4018	28	RESONANCE PARAMETERS
N	47-AG-109			5.584- 5	2.587- 3	69 3050	56	RESONANCE PARAMETERS
	47-AG-109			6.220- 5	6.300- 4	55 2171	30	RESONANCE PARAMETERS
	47-AG-109			1.399- 4	1.734- 4	62 2473	2	RESONANCE PARAMETERS
	47-AG-109			2.911- 4	7.478- 4	69 2547	58	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C * 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	48-CD-NAT	1.760-	7	1.760-	7	47 261	2 RESONANCE PARAMETERS
	48-CD-NAT	1.760-	7	1.760-	7	52 969	2 RESONANCE PARAMETERS
	48-CD-NAT	1.760-	7	1.760-	7	61 876	2 RESONANCE PARAMETERS
	48-CD-NAT	1.776-	7	1.776-	7	67 1875	1 RESONANCE PARAMETERS
	48-CD-NAT	1.780-	7	1.780-	7	64 995	1 RESONANCE PARAMETERS
	48-CD-NAT	1.800-	7	1.800-	7	53 874	3 RESONANCE PARAMETERS
	48-CD-NAT	1.810-	7	1.810-	7	67 2178	3 RESONANCE PARAMETERS
	48-CD-NAT	2.210-	5	2.210-	5	51 960	1 RESONANCE PARAMETERS
	48-CD-NAT	2.900-	5	6.950-	5	69 1876	2 RESONANCE PARAMETERS
	48-CD-NAT	2.900-	5	1.155-	4	68 2893	6 RESONANCE PARAMETERS
	48-CD-NAT	2.930-	5	2.330-	4	57 863	5 RESONANCE PARAMETERS
	48-CD-NAT	8.340-	5	8.130-	4	59 2613	57 RESONANCE PARAMETERS
	48-CD-NAT	3.107-	4	1.401-	3	69 2854	10 RESONANCE PARAMETERS
	48-CD-110	8.800-	5	8.800-	5	56 138	4 RESONANCE PARAMETERS
	48-CD-110	8.950-	5	8.950-	5	68 2893	1 RESONANCE PARAMETERS
	48-CD-110	8.960-	5	8.960-	5	59 2613	4 RESONANCE PARAMETERS
	48-CD-110	8.960-	5	8.960-	5	61 960	1 RESONANCE PARAMETERS
	48-CD-110	8.980-	5	8.980-	5	69 1878	2 RESONANCE PARAMETERS
	48-CD-110	9.000-	5	9.000-	5	56 2614	3 RESONANCE PARAMETERS
	48-CD-110	9.000-	5	9.000-	5	57 863	3 RESONANCE PARAMETERS
	48-CD-111	2.720-	5	2.720-	5	56 138	2 RESONANCE PARAMETERS
	48-CD-111	2.740-	5	9.380-	5	69 1878	7 RESONANCE PARAMETERS
	48-CD-111	2.750-	5	1.638-	4	68 2893	9 RESONANCE PARAMETERS
	48-CD-111	2.770-	5	1.650-	4	56 2614	7 RESONANCE PARAMETERS
	48-CD-111	2.770-	5	2.336-	4	61 960	8 RESONANCE PARAMETERS
	48-CD-111	2.800-	5	2.800-	5	63 2437	1 RESONANCE PARAMETERS
	48-CD-111	2.800-	5	1.640-	4	64 2546	4 RESONANCE PARAMETERS
	48-CD-111	2.810-	5	2.310-	4	57 863	13 RESONANCE PARAMETERS
	48-CD-111	8.630-	5	2.336-	4	59 2613	11 RESONANCE PARAMETERS
	48-CD-111	1.630-	4	1.630-	4	69 2854	3 RESONANCE PARAMETERS
	48-CD-112	6.670-	5	8.320-	5	68 2893	3 RESONANCE PARAMETERS
	48-CD-112	6.670-	5	8.330-	5	69 1878	5 RESONANCE PARAMETERS
	48-CD-112	6.680-	5	6.680-	5	56 2614	3 RESONANCE PARAMETERS
	48-CD-112	6.680-	5	6.680-	5	57 863	3 RESONANCE PARAMETERS
N	48-CD-112	6.691-	5	3.975-	3	71 3424	66 RESONANCE PARAMETERS
	48-CD-112	6.780-	5	2.268-	4	61 960	3 RESONANCE PARAMETERS
	48-CD-112	2.268-	4	2.268-	4	59 2613	1 RESONANCE PARAMETERS
	48-CD-113	1.760-	7	1.760-	7	47 261	2 RESONANCE PARAMETERS
	48-CD-113	1.760-	7	1.760-	7	47 2615	1 RESONANCE PARAMETERS
	48-CD-113	1.760-	7	1.760-	7	61 878	1 RESONANCE PARAMETERS
	48-CD-113	1.776-	7	1.776-	7	67 1875	4 RESONANCE PARAMETERS
N	48-CD-113	1.783-	7	1.783-	7	74 3894	4 RESONANCE PARAMETERS
	48-CD-113	1.800-	7	1.800-	7	53 874	6 RESONANCE PARAMETERS
	48-CD-113	1.810-	7	1.810-	7	67 2178	3 RESONANCE PARAMETERS
N	48-CD-113	2.000-	7	2.150-	4	64 2546	6 RESONANCE PARAMETERS
	48-CD-113	2.000-	7	2.310-	4	61 960	10 RESONANCE PARAMETERS
	48-CD-113	1.834-	5	2.143-	4	68 2893	10 RESONANCE PARAMETERS
	48-CD-113	1.840-	5	1.090-	4	56 2614	6 RESONANCE PARAMETERS
	48-CD-113	1.850-	5	2.150-	4	57 863	15 RESONANCE PARAMETERS
	48-CD-113	5.770-	5	0.500-	5	69 1878	6 RESONANCE PARAMETERS
	48-CD-113	8.490-	5	2.154-	4	59 2613	13 RESONANCE PARAMETERS
	48-CD-113	1.930-	4	2.320-	4	69 2854	9 RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
48-CD-114		5.870-	5	1.202-	4	61 950	2 RESONANCE PARAMETERS
48-CD-114		1.200-	4	1.200-	4	69 2854	3 RESONANCE PARAMETERS
48-CD-114		1.200-	4	1.200-	4	68 2893	1 RESONANCE PARAMETERS
48-CD-114		1.202-	4	1.202-	4	59 2613	4 RESONANCE PARAMETERS
48-CD-114		1.210-	4	1.210-	4	56 2614	3 RESONANCE PARAMETERS
48-CD-114		1.210-	4	1.210-	4	57 863	3 RESONANCE PARAMETERS
49-IN-NAT		1.440-	6	1.440-	6	46 951	3 RESONANCE PARAMETERS
49-IN-113		1.800-	6	1.480-	5	52 2467	3 RESONANCE PARAMETERS
49-IN-113		4.710-	6	1.050-	4	55 862	24 RESONANCE PARAMETERS
49-IN-113		1.467-	5	7.000-	5	56 201	11 RESONANCE PARAMETERS
49-IN-113		2.155-	5	2.004-	3	71 3116	42 RESONANCE PARAMETERS
49-IN-115		1.440-	6	1.440-	6	46 951	2 RESONANCE PARAMETERS
49-IN-115		1.456-	6	1.456-	6	61 2458	1 RESONANCE PARAMETERS
49-IN-115		1.456-	6	1.456-	6	61 2470	1 RESONANCE PARAMETERS
49-IN-115		1.456-	6	3.850-	6	55 2396	6 RESONANCE PARAMETERS
49-IN-115		1.456-	6	9.010-	6	58 393	8 RESONANCE PARAMETERS
49-IN-115		1.457-	6	1.457-	6	68 3297	3 RESONANCE PARAMETERS
43-IN-115		1.458-	6	1.458-	6	55 2466	1 RESONANCE PARAMETERS
49-IN-115		1.458-	6	1.458-	6	69 3365	7 RESONANCE PARAMETERS
49-IN-115		1.458-	6	2.350-	5	52 2467	5 RESONANCE PARAMETERS
49-IN-115		1.460-	6	9.100-	6	60 2469	3 RESONANCE PARAMETERS
49-IN-115		1.460-	6	9.200-	6	64 2455	3 RESONANCE PARAMETERS
49-IN-115		3.860-	6	6.500-	5	55 862	23 RESONANCE PARAMETERS
49-IN-115		9.000-	6	1.280-	4	56 201	19 RESONANCE PARAMETERS
49-IN-115		2.273-	5	1.981-	3	71 3116	312 RESONANCE PARAMETERS
50-SN-112		2.102-	5	1.416-	3	63 934	25 RESONANCE PARAMETERS
50-SN-112		9.500-	5	9.500-	5	69 1878	4 RESONANCE PARAMETERS
50-SN-112		9.650-	5	2.800-	4	55 862	2 RESONANCE PARAMETERS
50-SN-114		2.775-	4	1.980-	3	63 934	12 RESONANCE PARAMETERS
50-SN-114		2.800-	4	2.800-	4	55 862	2 RESONANCE PARAMETERS
50-SN-115		2.900-	4	2.900-	4	55 862	1 RESONANCE PARAMETERS
50-SN-115		2.926-	4	8.660-	4	63 934	8 RESONANCE PARAMETERS
50-SN-116		1.112-	4	3.400-	3	63 934	20 RESONANCE PARAMETERS
50-SN-116		1.113-	4	1.480-	4	69 1878	6 RESONANCE PARAMETERS
50-SN-116		1.120-	4	1.490-	4	55 862	4 RESONANCE PARAMETERS
50-SN-116		1.557-	3	4.810-	3	66 2187	10 RESONANCE PARAMETERS
50-SN-117		1.320-	6	1.383-	3	63 934	49 RESONANCE PARAMETERS
50-SN-117		1.320-	6	2.978-	3	69 2181	74 RESONANCE PARAMETERS
50-SN-117		3.880-	5	3.880-	5	68 2344	1 RESONANCE PARAMETERS
50-SN-117		3.890-	5	1.970-	4	69 1878	14 RESONANCE PARAMETERS
50-SN-117		3.940-	5	4.600-	4	54 862	16 RESONANCE PARAMETERS
50-SN-118		4.575-	5	3.450-	3	63 934	23 RESONANCE PARAMETERS
50-SN-118		4.580-	5	4.580-	5	68 2344	1 RESONANCE PARAMETERS
50-SN-118		4.580-	5	4.580-	5	69 1878	5 RESONANCE PARAMETERS
50-SN-118		4.580-	5	7.400-	3	25 2608	7 RESONANCE PARAMETERS
50-SN-118		4.630-	5	3.680-	4	55 862	4 RESONANCE PARAMETERS
50-SN-118		3.600-	4	4.725-	3	66 2187	14 RESONANCE PARAMETERS
50-SN-119		6.220-	6	9.480-	4	63 934	27 RESONANCE PARAMETERS
50-SN-119		1.410-	4	1.410-	4	69 1878	2 RESONANCE PARAMETERS
50-SN-119		1.410-	4	4.600-	4	55 862	6 RESONANCE PARAMETERS
50-SN-120		6.732-	5	9.587-	3	69 2435	39 RESONANCE PARAMETERS
50-SN-120		3.648-	4	1.711-	3	63 934	15 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
50-SN-120			4.250-4	4.250-4	55 862	2	RESONANCE PARAMETERS
50-SN-120			4.260-4	1.726-3	65 2628	5	RESONANCE PARAMETERS
50-SN-120			4.269-4	4.269-4	68 2344	1	RESONANCE PARAMETERS
50-SN-120			1.718-3	1.267-2	66 2187	18	RESONANCE PARAMETERS
50-SN-122			1.069-4	6.850-3	63 934	12	RESONANCE PARAMETERS
50-SN-122			1.760-3	6.880-3	66 2187	6	RESONANCE PARAMETERS
50-SN-124			6.195-5	6.195-5	68 2344	1	RESONANCE PARAMETERS
50-SN-124			6.195-5	9.680-3	63 934	10	RESONANCE PARAMETERS
51-SN-124			6.200-5	6.200-5	65 2608	1	RESONANCE PARAMETERS
50-SN-124			6.200-5	6.200-5	65 2609	1	RESONANCE PARAMETERS
50-SN-124			6.200-5	6.200-5	69 1878	5	RESONANCE PARAMETERS
50-SN-124			6.250-5	6.250-5	55 862	2	RESONANCE PARAMETERS
50-SN-124			2.380-3	9.960-3	66 2187	6	RESONANCE PARAMETERS
51-SB-NAT			6.300-6	1.920-5	46 961	2	RESONANCE PARAMETERS
51-SB-NAT			1.541-5	2.996-3	68 814	325	RESONANCE PARAMETERS
51-SB-121			6.230-6	2.970-5	63 2439	6	RESONANCE PARAMETERS
51-SB-121			6.233-6	1.671-4	68 2893	20	RESONANCE PARAMETERS
51-SB-121			6.240-6	6.240-6	70 3074	3	RESONANCE PARAMETERS
51-SB-121			6.240-6	1.550-5	67 2199	2	RESONANCE PARAMETERS
51-SB-121			6.240-6	2.970-5	57 1967	8	RESONANCE PARAMETERS
51-SB-121			6.240-6	2.970-5	67 3280	6	RESONANCE PARAMETERS
51-SB-121			6.240-6	2.970-5	70 3280	3	RESONANCE PARAMETERS
51-SB-121			6.240-6	1.670-4	61 960	12	RESONANCE PARAMETERS
51-SB-121			6.240-6	4.211-4	71 3135	28	RESONANCE PARAMETERS
51-SB-121			6.240-6	2.533-3	69 3044	130	RESONANCE PARAMETERS
51-SB-121			6.250-6	1.280-4	56 138	10	RESONANCE PARAMETERS
51-SB-121			1.541-5	6.308-4	68 814	62	RESONANCE PARAMETERS
51-SB-121			2.970-5	1.268-4	70 3077	5	RESONANCE PARAMETERS
51-SB-121			6.510-5	1.495-4	70 3073	8	RESONANCE PARAMETERS
51-SB-123			2.130-5	4.166-3	69 3044	110	RESONANCE PARAMETERS
51-SB-123			2.140-5	1.919-4	68 2893	10	RESONANCE PARAMETERS
51-SB-123			2.140-5	2.990-4	71 3135	14	RESONANCE PARAMETERS
51-SB-123			2.140-5	6.276-4	68 814	28	RESONANCE PARAMETERS
51-SB-123			2.160-5	2.160-5	57 1967	3	RESONANCE PARAMETERS
51-SB-123			2.160-5	2.160-5	63 2439	2	RESONANCE PARAMETERS
51-SB-123			2.160-5	2.160-5	70 3280	1	RESONANCE PARAMETERS
51-SB-123			2.160-5	2.970-5	67 3280	2	RESONANCE PARAMETERS
51-SB-123			2.160-5	1.050-4	70 3077	4	RESONANCE PARAMETERS
51-SB-123			2.160-5	1.900-4	56 138	5	RESONANCE PARAMETERS
51-SB-123			2.160-5	1.930-4	61 960	6	RESONANCE PARAMETERS
51-SB-123			4.710-5	1.060-4	70 3073	4	RESONANCE PARAMETERS
52-TE-NAT			2.419-5	4.862-3	68 814	169	RESONANCE PARAMETERS
52-TE-NAT			1.820-4	1.820-4	64 2539	1	RESONANCE PARAMETERS
52-TE-NAT			3.203-4	2.669-3	70 3606	81	RESONANCE PARAMETERS
52-TE-122			7.200-5	1.770-3	63 2201	9	RESONANCE PARAMETERS
52-TE-122			7.220-5	1.082-2	70 3606	149	RESONANCE PARAMETERS
52-TE-122			7.250-5	7.250-5	64 2539	1	RESONANCE PARAMETERS
52-TE-122			7.279-5	4.552-4	68 814	3	RESONANCE PARAMETERS
52-TE-122			7.280-5	7.280-5	60 2540	2	RESONANCE PARAMETERS
52-TE-123			2.330-6	2.750-4	70 3046	9	RESONANCE PARAMETERS
52-TE-123			2.334-6	2.470-5	54 2542	5	RESONANCE PARAMETERS
52-TE-123			2.334-6	3.660-4	64 2539	8	RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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C = 951

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
52-TE-123		2.390	-5	3.580	-5	56 2541	2 RESONANCE PARAMETERS
52-TE-123		2.390	-5	3.650	-4	63 2201	37 RESONANCE PARAMETERS
52-TE-123		2.410	-5	1.590	-4	60 2540	8 RESONANCE PARAMETERS
52-TE-123		2.410	-5	6.632	-4	71 3135	34 RESONANCE PARAMETERS
N 52-TE-123		2.410	-5	1.938	-3	70 3606	167 RESONANCE PARAMETERS
52-TE-123		2.410	-5	3.635	-4	68 814	11 RESONANCE PARAMETERS
52-TE-124		1.980	-4	1.980	-4	64 2539	1 RESONANCE PARAMETERS
52-TE-124		1.980	-4	1.890	-3	63 2201	7 RESONANCE PARAMETERS
N 52-TE-124		3.470	-4	2.808	-2	70 3606	295 RESONANCE PARAMETERS
52-TE-124		5.420	-4	5.420	-4	68 814	1 RESONANCE PARAMETERS
52-TE-125		2.590	-5	4.250	-4	64 2539	10 RESONANCE PARAMETERS
C 52-TE-125		2.590	-5	7.680	-4	63 2201	32 RESONANCE PARAMETERS
52-TE-125		2.630	-5	2.900	-4	60 2540	10 RESONANCE PARAMETERS
52-TE-125		2.634	-5	5.173	-4	68 814	9 RESONANCE PARAMETERS
N 52-TE-125		9.020	-5	7.748	-3	70 3606	453 RESONANCE PARAMETERS
52-TE-125		1.350	-4	3.393	-3	71 3135	74 RESONANCE PARAMETERS
52-TE-126		1.980	-4	1.980	-4	63 2201	1 RESONANCE PARAMETERS
52-TE-126		1.980	-4	1.980	-4	64 2539	1 RESONANCE PARAMETERS
52-TE-126		2.000	-4	2.000	-4	63 2543	1 RESONANCE PARAMETERS
N 52-TE-126		2.001	-4	1.775	-2	70 3606	187 RESONANCE PARAMETERS
52-TE-126		2.006	-4	2.006	-4	68 814	1 RESONANCE PARAMETERS
52-TE-126		2.010	-4	2.010	-4	60 2540	2 RESONANCE PARAMETERS
N 52-TE-126		3.481	-4	2.182	-2	70 3606	138 RESONANCE PARAMETERS
52-TE-128		4.280	-4	1.050	-2	63 2543	6 RESONANCE PARAMETERS
52-TE-128		4.370	-4	4.370	-4	64 2539	1 RESONANCE PARAMETERS
N 52-TE-130		1.140	-3	3.017	-2	70 3606	78 RESONANCE PARAMETERS
52-TE-130		1.500	-3	1.175	-1	61 728	84 RESONANCE PARAMETERS
53-1 -127		1.070	-5	1.070	-5	61 1295	1 RESONANCE PARAMETERS
53-1 -127		2.040	-5	1.457	-4	61 3012	9 RESONANCE PARAMETERS
53-1 -127		2.050	-5	9.100	-5	54 459	21 RESONANCE PARAMETERS
53-1 -127		2.050	-5	9.200	-5	56 201	21 RESONANCE PARAMETERS
53-1 -127		2.050	-5	1.690	-4	63 2544	9 RESONANCE PARAMETERS
53-1 -127		2.050	-5	1.957	-4	58 2545	20 RESONANCE PARAMETERS
53-1 -127		2.050	-5	2.370	-4	71 3135	26 RESONANCE PARAMETERS
53-1 -127		4.550	-5	1.690	-4	58 944	5 RESONANCE PARAMETERS
53-1 -127		1.535	-4	4.003	-3	65 814	294 RESONANCE PARAMETERS
53-1 -129		6.620	-5	1.540	-4	58 944	12 RESONANCE PARAMETERS
53-1 -129		7.240	-5	1.530	-4	63 2544	5 RESONANCE PARAMETERS
N 54-XE-NAT		9.880	-6	3.971	-3	64 3650	97 RESONANCE PARAMETERS
54-XE-124		5.160	-6	5.160	-6	59 2072	2 RESONANCE PARAMETERS
N 54-XE-124		5.160	-6	2.516	-4	64 3650	4 RESONANCE PARAMETERS
N 54-XE-126		4.596	-4	2.332	-3	64 3650	4 RESONANCE PARAMETERS
N 54-XE-128		2.377	-4	3.441	-3	64 3650	23 RESONANCE PARAMETERS
54-XE-129		9.400	-6	9.400	-6	63 2437	1 RESONANCE PARAMETERS
54-XE-129		9.400	-6	1.258	-4	70 3046	3 RESONANCE PARAMETERS
54-XE-129		9.470	-6	1.260	-4	59 2072	6 RESONANCE PARAMETERS
N 54-XE-129		9.570	-6	4.082	-3	64 3650	218 RESONANCE PARAMETERS
N 54-XE-130		4.302	-4	3.564	-3	64 3650	47 RESONANCE PARAMETERS
54-XE-131		1.410	-5	7.600	-5	59 2072	5 RESONANCE PARAMETERS
N 54-XE-131		1.441	-5	3.945	-3	64 3650	87 RESONANCE PARAMETERS
N 54-XE-132		6.433	-4	3.854	-3	64 3650	20 RESONANCE PARAMETERS
N 54-XE-134		1.001	-3	1.001	-3	64 3650	2 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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*** 2-335 ***

C = 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	55-CS-133		5.900-6	5.900-6	54 2441	4	RESONANCE PARAMETERS
N	55-CS-133		5.900-6	3.590-4	72 1924	12	RESONANCE PARAMETERS
N	55-CS-133		5.900-6	4.070-4	69 3394	23	RESONANCE PARAMETERS
N	55-CS-133		2.260-5	5.300-4	55 852	34	RESONANCE PARAMETERS
N	55-CS-133		1.261-4	3.500-3	65 814	158	RESONANCE PARAMETERS
N	56-BA-NAT		4.640-5	2.450-4	65 2487	4	RESONANCE PARAMETERS
N	56-BA-NAT		9.750-4	2.066-3	69 1817	24	RESONANCE PARAMETERS
N	56-BA-130		4.620-5	8.960-4	69 1817	13	RESONANCE PARAMETERS
N	56-BA-130		4.640-5	1.860-4	69 3041	4	RESONANCE PARAMETERS
N	56-BA-130		4.640-5	2.775-3	72 3594	178	RESONANCE PARAMETERS
N	56-BA-130		4.860-5	5.790-5	71 3925	2	RESONANCE PARAMETERS
N	56-BA-132		4.860-5	5.790-5	71 3925	2	RESONANCE PARAMETERS
N	56-BA-132		5.720-5	5.720-5	69 1817	4	RESONANCE PARAMETERS
N	56-BA-132		1.042-4	2.054-3	72 3594	17	RESONANCE PARAMETERS
N	56-BA-134		5.800-5	5.800-5	65 2487	1	RESONANCE PARAMETERS
N	56-BA-134		1.018-4	5.000-4	69 1817	6	RESONANCE PARAMETERS
N	56-BA-134		1.023-4	1.998-3	72 3594	11	RESONANCE PARAMETERS
N	56-BA-134		1.023-4	4.605-3	71 3925	17	RESONANCE PARAMETERS
N	56-BA-135		2.400-5	1.277-3	69 1817	57	RESONANCE PARAMETERS
N	56-BA-135		2.430-5	2.860-4	65 2487	18	RESONANCE PARAMETERS
N	56-BA-135		2.440-5	2.000-3	71 3925	58	RESONANCE PARAMETERS
N	56-BA-135		2.440-5	2.256-3	72 3594	20	RESONANCE PARAMETERS
N	56-BA-135		2.450-5	1.060-4	57 1967	6	RESONANCE PARAMETERS
N	56-BA-135		2.450-5	3.180-4	64 2546	7	RESONANCE PARAMETERS
N	56-BA-135		8.200-5	5.160-4	56 2538	21	RESONANCE PARAMETERS
N	56-BA-135		3.059-3	5.978-3	74 3848	326	RESONANCE PARAMETERS
N	56-BA-136		1.030-4	1.030-4	56 2538	2	RESONANCE PARAMETERS
N	56-BA-136		1.030-4	1.030-4	57 1967	1	RESONANCE PARAMETERS
N	56-BA-136		4.200-4	1.952-3	72 3594	4	RESONANCE PARAMETERS
N	56-BA-136		4.490-4	7.316-3	71 3925	11	RESONANCE PARAMETERS
N	56-BA-136		5.106-4	5.106-4	69 1817	2	RESONANCE PARAMETERS
N	56-BA-136		8.000-3	8.000-3	61 720	3	RESONANCE PARAMETERS
N	56-BA-137		1.269-4	4.986-3	71 3925	18	RESONANCE PARAMETERS
N	56-BA-137		4.188-4	1.346-3	69 1817	10	RESONANCE PARAMETERS
N	56-BA-137		4.200-4	1.952-3	72 3594	5	RESONANCE PARAMETERS
N	56-BA-137		4.240-4	5.910-4	56 2538	4	RESONANCE PARAMETERS
N	56-BA-138		3.170-2	1.920-1	61 720	63	RESONANCE PARAMETERS
N	57-LA-NAT		-3.750-5	3.965-3	67 2215	7	RESONANCE PARAMETERS
N	57-LA-138		2.994-6	3.580-4	67 2215	10	RESONANCE PARAMETERS
N	57-LA-138		3.060-6	2.130-5	59 2405	2	RESONANCE PARAMETERS
N	57-LA-138		3.080-6	3.860-4	66 2488	11	RESONANCE PARAMETERS
N	57-LA-138		2.100-5	3.570-4	64 2405	9	RESONANCE PARAMETERS
N	57-LA-139		7.340-7	1.035-2	67 2215	52	RESONANCE PARAMETERS
N	57-LA-139		7.520-7	7.520-7	59 2405	3	RESONANCE PARAMETERS
N	57-LA-139		2.394-5	1.022-2	71 3116	126	RESONANCE PARAMETERS
N	57-LA-139		7.230-5	9.000-3	63 1853	16	RESONANCE PARAMETERS
N	57-LA-139		7.230-5	3.108-2	69 2537	171	RESONANCE PARAMETERS
N	57-LA-139		7.240-5	3.698-2	66 814	102	RESONANCE PARAMETERS
N	57-LA-139		7.350-5	7.350-5	57 1967	3	RESONANCE PARAMETERS
N	58-CC-142		1.290-3	4.380-3	70 4024	6	RESONANCE PARAMETERS
N	59-PR-141		5.050-5	9.420-4	64 2447	44	RESONANCE PARAMETERS
N	59-PR-141		8.480-5	4.370-3	61 2485	54	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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07/04/78

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C = 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
59-PR-141			8.500-5	8.500-5	63 2219	1	RESONANCE PARAMETERS
59-PR-141			8.500-5	3.830-4	63 2218	6	RESONANCE PARAMETERS
59-PR-141			8.524-5	1.005-2	68 814	146	RESONANCE PARAMETERS
59-PR-141			8.540-5	1.890-3	64 2405	26	RESONANCE PARAMETERS
59-PR-141			8.550-5	1.800-3	56 2538	20	RESONANCE PARAMETERS
59-PR-141			4.110-4	5.724-3	69 2537	93	RESONANCE PARAMETERS
59-PR-141			9.810-4	2.940-3	61 3032	20	RESONANCE PARAMETERS
60-ND-NAT			-1.400-5	-1.400-5	58 903	1	RESONANCE PARAMETERS
60-ND-NAT			4.330-6	4.330-6	69 3011	1	RESONANCE PARAMETERS
60-ND-NAT			6.628-4	1.139-3	69 1817	31	RESONANCE PARAMETERS
N 60-ND-142			2.186-4	3.105-2	71 3607	111	RESONANCE PARAMETERS
60-ND-142			1.695-3	3.987-3	67 2204	14	RESONANCE PARAMETERS
N 60-ND-143			-6.000-6	-6.000-6	58 439	2	RESONANCE PARAMETERS
60-ND-143			-6.000-6	6.580-4	71 3135	36	RESONANCE PARAMETERS
60-ND-143			-6.000-6	7.050-4	70 3070	16	RESONANCE PARAMETERS
60-ND-143			-1.500-6	-1.500-6	57 337	1	RESONANCE PARAMETERS
60-ND-143			5.499-5	5.523-4	69 3011	18	RESONANCE PARAMETERS
60-ND-143			5.529-5	6.577-4	69 1817	25	RESONANCE PARAMETERS
60-ND-143			5.530-5	1.273-4	63 1853	11	RESONANCE PARAMETERS
N 60-ND-143			5.530-5	5.503-3	71 3607	353	RESONANCE PARAMETERS
60-ND-143			5.537-5	2.004-3	71 3123	25	RESONANCE PARAMETERS
N 60-ND-143			5.540-5	8.450-4	72 3252	23	RESONANCE PARAMETERS
60-ND-143			5.540-5	1.310-3	67 2204	48	RESONANCE PARAMETERS
60-ND-143			5.550-5	4.100-4	66 2881	10	RESONANCE PARAMETERS
N 60-ND-143			5.600-5	1.903-4	62 3033	7	RESONANCE PARAMETERS
60-ND-143			5.600-5	1.930-4	62 2019	5	RESONANCE PARAMETERS
60-ND-143			5.630-5	1.900-4	56 2486	8	RESONANCE PARAMETERS
N 60-ND-144			3.738-4	1.941-2	71 3607	111	RESONANCE PARAMETERS
60-ND-144			3.740-4	1.354-2	67 2204	22	RESONANCE PARAMETERS
60-ND-144			7.338-4	7.338-4	69 1817	3	RESONANCE PARAMETERS
60-ND-145			4.300-6	4.050-4	71 3135	44	RESONANCE PARAMETERS
60-ND-145			4.300-6	6.630-4	72 3252	36	RESONANCE PARAMETERS
60-ND-145			4.340-6	1.036-4	63 1853	23	RESONANCE PARAMETERS
60-ND-145			4.340-6	6.480-4	69 1817	44	RESONANCE PARAMETERS
60-ND-145			4.360-6	1.020-4	70 3070	6	RESONANCE PARAMETERS
60-ND-145			4.370-6	9.600-5	57 1967	7	RESONANCE PARAMETERS
60-ND-145			4.400-6	1.030-4	62 2019	5	RESONANCE PARAMETERS
60-ND-145			4.228-5	5.657-4	69 3011	22	RESONANCE PARAMETERS
N 60-ND-145			4.251-5	4.637-3	71 3607	599	RESONANCE PARAMETERS
60-ND-145			4.260-5	1.010-3	67 2204	64	RESONANCE PARAMETERS
60-ND-145			4.277-5	1.494-3	71 3123	126	RESONANCE PARAMETERS
N 60-ND-146			3.595-4	3.104-2	71 3607	161	RESONANCE PARAMETERS
60-ND-146			3.610-4	6.723-3	67 2204	35	RESONANCE PARAMETERS
N 60-ND-148			9.490-5	2.305-2	71 3607	248	RESONANCE PARAMETERS
60-ND-148			1.544-4	2.849-4	69 3011	3	RESONANCE PARAMETERS
60-ND-148			1.550-4	8.781-3	67 2204	58	RESONANCE PARAMETERS
60-ND-148			1.551-4	7.149-4	69 1817	8	RESONANCE PARAMETERS
60-ND-150			7.833-5	7.833-5	69 3011	1	RESONANCE PARAMETERS
60-ND-150			7.874-5	4.864-4	69 1817	3	RESONANCE PARAMETERS
N 60-ND-150			7.882-5	2.473-2	71 3607	265	RESONANCE PARAMETERS
60-ND-150			7.890-5	3.845-3	67 2204	38	RESONANCE PARAMETERS
61-PH-147			-1.800-6	2.412-4	71 2944	42	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 951

07/04/76

ECSIL-1600 REACTION INDEX (REACTION NO. ORDERED)

C = 951

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	61-PM-147	-1.600-	6	3.165-	4	73 3253	78 RESONANCE PARAMETERS
	61-PM-147	-1.200-	6	1.920-	4	68 2684	45 RESONANCE PARAMETERS
	61-PM-147	1.040-	6	5.030-	5	58 944	20 RESONANCE PARAMETERS
C	61-PM-147	5.360-	6	6.920-	6	71 3253	6 RESONANCE PARAMETERS
C	61-PM-148	1.690-	7	1.690-	7	71 3253	2 RESONANCE PARAMETERS
	61-PM-148	1.710-	7	7.500-	6	69 2772	3 RESONANCE PARAMETERS
N	61-PM-148G	1.690-	7	1.690-	7	73 3253	1 RESONANCE PARAMETERS
	62-SM-NAT	9.700-	8	9.700-	8	64 895	1 RESONANCE PARAMETERS
	62-SM-NAT	4.800-	5	9.340-	5	58 2230	3 RESONANCE PARAMETERS
	62-SM-NAT	4.854-	5	5.000-	5	59 2454	2 RESONANCE PARAMETERS
	62-SM-147	-2.000-	6	1.161-	3	71 3110	130 RESONANCE PARAMETERS
	62-SM-147	-6.000-	7	2.490-	4	71 2944	30 RESONANCE PARAMETERS
	62-SM-147	3.400-	6	1.830-	5	58 2147	2 RESONANCE PARAMETERS
	62-SM-147	3.400-	6	1.830-	5	67 1905	4 RESONANCE PARAMETERS
	62-SM-147	3.400-	6	2.710-	5	62 2456	3 RESONANCE PARAMETERS
	62-SM-147	3.400-	6	3.990-	5	62 2019	6 RESONANCE PARAMETERS
	62-SM-147	3.400-	6	5.000-	5	59 2454	7 RESONANCE PARAMETERS
	62-SM-147	3.400-	6	1.610-	4	57 2431	15 RESONANCE PARAMETERS
	62-SM-147	3.400-	6	1.830-	4	70 3070	10 RESONANCE PARAMETERS
N	62-SM-147	3.400-	6	4.120-	4	72 3410	56 RESONANCE PARAMETERS
	62-SM-147	3.420-	6	3.420-	6	63 2544	1 RESONANCE PARAMETERS
	62-SM-147	3.430-	6	1.910-	5	54 2327	2 RESONANCE PARAMETERS
	62-SM-147	3.450-	6	3.450-	6	64 2455	2 RESONANCE PARAMETERS
	62-SM-147	1.830-	5	9.930-	5	57 2230	25 RESONANCE PARAMETERS
	62-SM-147	1.830-	5	1.850-	4	71 3135	36 RESONANCE PARAMETERS
N	62-SM-147	1.830-	5	4.230-	4	71 3403	134 RESONANCE PARAMETERS
	62-SM-149	9.400-	8	9.400-	8	54 2459	1 RESONANCE PARAMETERS
	62-SM-149	9.600-	8	9.600-	8	46 2442	2 RESONANCE PARAMETERS
	62-SM-149	9.600-	8	9.600-	8	47 2444	2 RESONANCE PARAMETERS
	62-SM-149	9.600-	8	9.600-	8	53 874	1 RESONANCE PARAMETERS
	62-SM-149	9.620-	8	9.620-	8	54 2397	2 RESONANCE PARAMETERS
N	62-SM-149	9.730-	8	8.720-	7	68 3668	10 RESONANCE PARAMETERS
N	62-SM-149	9.760-	8	9.760-	8	66 2236	1 RESONANCE PARAMETERS
	62-SM-149	9.760-	8	8.700-	7	67 1975	4 RESONANCE PARAMETERS
	62-SM-149	9.760-	8	8.730-	7	58 2139	6 RESONANCE PARAMETERS
	62-SM-149	9.760-	8	8.900-	6	62 2457	5 RESONANCE PARAMETERS
	62-SM-149	9.760-	8	1.700-	5	58 394	20 RESONANCE PARAMETERS
	62-SM-149	9.760-	8	1.720-	5	54 2327	8 RESONANCE PARAMETERS
	62-SM-149	9.760-	8	3.400-	5	70 3134	16 RESONANCE PARAMETERS
	62-SM-149	9.760-	8	4.500-	5	62 2019	14 RESONANCE PARAMETERS
	62-SM-149	9.800-	8	5.180-	5	70 3070	19 RESONANCE PARAMETERS
N	62-SM-149	9.890-	8	9.890-	8	69 3769	4 RESONANCE PARAMETERS
	62-SM-149	8.600-	7	4.900-	6	64 2455	3 RESONANCE PARAMETERS
	62-SM-149	8.730-	7	8.730-	7	63 2544	1 RESONANCE PARAMETERS
	62-SM-149	8.900-	7	1.240-	5	57 2234	5 RESONANCE PARAMETERS
	62-SM-149	4.960-	6	5.200-	5	59 2454	13 RESONANCE PARAMETERS
	62-SM-149	4.960-	6	1.820-	4	57 2431	22 RESONANCE PARAMETERS
	62-SM-149	4.980-	6	1.850-	4	71 3135	58 RESONANCE PARAMETERS
N	62-SM-149	4.990-	6	2.589-	4	72 3410	84 RESONANCE PARAMETERS
	62-SM-149	1.220-	5	9.930-	5	57 2230	46 RESONANCE PARAMETERS
N	62-SM-149	1.580-	5	2.487-	4	71 3403	244 RESONANCE PARAMETERS
	62-SM-150	-3.200-	6	1.563-	3	71 3110	24 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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C = 951

07/04/76

ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

C - 951

TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
62-SM-150			2.050-5	4.430-5	57 2230	2	RESONANCE PARAMETERS
62-SM-150			2.060-5	2.060-5	59 2454	1	RESONANCE PARAMETERS
62-SM-150			2.065-5	4.750-5	57 2431	2	RESONANCE PARAMETERS
62-SM-150			2.110-5	2.110-5	54 2327	1	RESONANCE PARAMETERS
62-SM-151	N		-1.200-7	2.967-4	75 3646	269	RESONANCE PARAMETERS
62-SM-151			-1.500-8	1.275-5	73 2544	15	RESONANCE PARAMETERS
62-SM-152			8.000-6	8.000-6	58 512	2	RESONANCE PARAMETERS
62-SM-152			8.010-6	8.010-6	59 2454	1	RESONANCE PARAMETERS
62-SM-152			8.020-6	8.020-6	61 2460	3	RESONANCE PARAMETERS
62-SM-152			8.030-6	8.030-6	68 2154	2	RESONANCE PARAMETERS
62-SM-152			8.035-6	8.035-6	62 2237	2	RESONANCE PARAMETERS
62-SM-152			8.038-6	8.038-6	67 2421	4	RESONANCE PARAMETERS
62-SM-152			8.040-6	8.040-6	63 2466	62	RESONANCE PARAMETERS
62-SM-152			8.050-6	8.050-6	57 2230	1	RESONANCE PARAMETERS
62-SM-152			8.060-6	8.060-6	71 3115	61	RESONANCE PARAMETERS
62-SM-152			8.070-6	8.070-6	69 2656	21	RESONANCE PARAMETERS
62-SM-154	N		9.300-5	1.835-3	68 2154	40	RESONANCE PARAMETERS
62-SM-154			2.530-3	5.075-3	1 71 3115	13	RESONANCE PARAMETERS
62-SM-154			-6.300-8	6.300-8	61 878	2	RESONANCE PARAMETERS
63-EU-151			-1.100-8	3.300-6	47 2444	4	RESONANCE PARAMETERS
63-EU-151			-1.100-8	7.350-6	54 2443	7	RESONANCE PARAMETERS
63-EU-151	N		-3.610-9	3.610-9	71 3695	2	RESONANCE PARAMETERS
63-EU-151			-6.000-10	6.000-10	55 2238	2	RESONANCE PARAMETERS
63-EU-151			0.000+0	3.370-6	64 2445	5	RESONANCE PARAMETERS
63-EU-151			3.210-7	4.600-7	61 2463	10	RESONANCE PARAMETERS
63-EU-151			3.270-7	1.956-5	55 2395	9	RESONANCE PARAMETERS
63-EU-151			1.059-6	9.000-6	56 2239	28	RESONANCE PARAMETERS
63-EU-151			1.059-6	9.060-6	59 2462	33	RESONANCE PARAMETERS
63-EU-151			2.730-6	3.461-5	69 2666	24	RESONANCE PARAMETERS
63-EU-151			4.820-6	4.820-6	56 3034	320	RESONANCE PARAMETERS
63-EU-151			4.840-6	2.720-5	55 862	1	RESONANCE PARAMETERS
63-EU-151			4.840-6	4.840-6	56 1106	22	RESONANCE PARAMETERS
63-EU-151			5.400-7	5.400-7	46 2139	40	RESONANCE PARAMETERS
63-EU-153			1.725-6	8.870-6	58 5445	24	RESONANCE PARAMETERS
63-EU-153			1.730-6	9.760-6	69 2666	269	RESONANCE PARAMETERS
63-EU-153			1.760-6	8.900-6	56 2539	24	RESONANCE PARAMETERS
63-EU-153			2.445-6	3.940-6	54 2432	15	RESONANCE PARAMETERS
63-EU-153			2.460-6	2.460-6	64 2445	6	RESONANCE PARAMETERS
63-EU-153			2.460-6	2.410-5	56 1106	26	RESONANCE PARAMETERS
63-EU-153			6.250-6	1.170-5	55 862	2	RESONANCE PARAMETERS
64-OD-NAT			3.300-8	3.300-8	61 878	6	RESONANCE PARAMETERS
64-OD-152			3.370-6	9.350-5	60 2391	10	RESONANCE PARAMETERS
64-OD-152			8.000-6	2.930-4	68 2154	42	RESONANCE PARAMETERS
64-OD-154			9.410-6	1.480-4	68 2991	14	RESONANCE PARAMETERS
64-OD-154	N		2.240-5	2.240-5	68 2154	32	RESONANCE PARAMETERS
64-OD-154			1.156-5	9.855-5	74 3568	119	RESONANCE PARAMETERS
64-OD-155			2.680-8	2.680-8	60 3036	1	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-HEV	E-MAX-HEV	REFERENCE	POINTS	REACTION DESCRIPTION
62-SM-150			2.050-5	4.430-5	57 2230	2	RESONANCE PARAMETERS
62-SM-150			2.060-5	2.060-5	59 2454	1	RESONANCE PARAMETERS
62-SM-150			2.065-5	4.750-5	57 2431	2	RESONANCE PARAMETERS
62-SM-150			2.110-5	2.110-5	54 2327	1	RESONANCE PARAMETERS
62-SM-151	N		-1.200-7	2.967-4	75 3646	269	RESONANCE PARAMETERS
62-SM-151			-1.500-8	1.275-5	73 2544	15	RESONANCE PARAMETERS
62-SM-152			8.000-6	8.000-6	58 512	2	RESONANCE PARAMETERS
62-SM-152			8.010-6	8.010-6	59 2454	1	RESONANCE PARAMETERS
62-SM-152			8.020-6	8.020-6	61 2460	3	RESONANCE PARAMETERS
62-SM-152			8.030-6	8.030-6	68 2154	2	RESONANCE PARAMETERS
62-SM-152			8.035-6	8.035-6	62 2237	2	RESONANCE PARAMETERS
62-SM-152			8.038-6	8.038-6	67 2421	4	RESONANCE PARAMETERS
62-SM-152			8.040-6	8.040-6	63 2466	62	RESONANCE PARAMETERS
62-SM-152			8.050-6	8.050-6	57 2230	1	RESONANCE PARAMETERS
62-SM-152			8.060-6	8.060-6	71 3115	61	RESONANCE PARAMETERS
62-SM-152			8.070-6	8.070-6	69 2656	21	RESONANCE PARAMETERS
62-SM-154	N		9.300-5	1.835-3	68 2154	40	RESONANCE PARAMETERS
62-SM-154			2.530-3	5.075-3	1 71 3115	13	RESONANCE PARAMETERS
62-SM-154			-6.300-8	6.300-8	61 878	2	RESONANCE PARAMETERS
63-EU-151			-1.100-8	3.300-6	47 2444	4	RESONANCE PARAMETERS
63-EU-151			-1.100-8	7.350-6	54 2443	7	RESONANCE PARAMETERS
63-EU-151	N		-3.610-9	3.610-9	71 3695	2	RESONANCE PARAMETERS
63-EU-151			-6.000-10	6.000-10	55 2238	2	RESONANCE PARAMETERS
63-EU-151			0.000+0	3.370-6	64 2445	5	RESONANCE PARAMETERS
63-EU-151			3.210-7	4.600-7	61 2463	10	RESONANCE PARAMETERS
63-EU-151			3.270-7	1.956-5	55 2395	9	RESONANCE PARAMETERS
63-EU-151			1.059-6	9.000-6	56 2239	28	RESONANCE PARAMETERS
63-EU-151			1.059-6	9.060-6	59 2462	33	RESONANCE PARAMETERS
63-EU-151			2.730-6	3.461-5	69 2666	24	RESONANCE PARAMETERS
63-EU-151			4.820-6	4.820-6	56 3034	320	RESONANCE PARAMETERS
63-EU-151			4.840-6	2.720-5	55 862	1	RESONANCE PARAMETERS
63-EU-151			4.840-6	4.840-6	56 1106	22	RESONANCE PARAMETERS
63-EU-153			5.400-7	5.400-7	46 2139	40	RESONANCE PARAMETERS
63-EU-153			1.725-6	8.870-6	58 5445	24	RESONANCE PARAMETERS
63-EU-153			1.730-6	9.760-6	69 2666	269	RESONANCE PARAMETERS
63-EU-153			1.760-6	8.900-6	56 2539	24	RESONANCE PARAMETERS
63-EU-153			2.445-6	3.940-6	54 2432	15	RESONANCE PARAMETERS
63-EU-153			2.460-6	2.460-6	64 2445	6	RESONANCE PARAMETERS
63-EU-153			2.460-6	2.410-5	56 1106	26	RESONANCE PARAMETERS
63-EU-153			6.250-6	1.170-5	55 862	2	RESONANCE PARAMETERS
64-OD-NAT			3.300-8	3.300-8	61 878	6	RESONANCE PARAMETERS
64-OD-152			3.370-6	9.350-5	60 2391	10	RESONANCE PARAMETERS
64-OD-152			8.000-6	2.930-4	68 2154	42	RESONANCE PARAMETERS
64-OD-154			9.410-6	1.480-4	68 2991	14	RESONANCE PARAMETERS
64-OD-154	N		2.240-5	2.240-5	68 2154	32	RESONANCE PARAMETERS
64-OD-154			1.156-5	9.855-5	74 3568	119	RESONANCE PARAMETERS
64-OD-155			2.680-8	2.680-8	60 3036	1	RESONANCE PARAMETERS

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TARGET CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
64-GD-155		2.680-8	2.559-6	60 2243	15	RESONANCE PARAMETERS
64-GD-155		2.680-8	2.568-6	65 2246	3	RESONANCE PARAMETERS
N 64-GD-155		2.680-8	6.300-6	64 2445	4	RESONANCE PARAMETERS
64-GD-155		2.680-8	5.253-5	70 3048	23	RESONANCE PARAMETERS
64-GD-155		2.008-6	2.370-5	56 2021	13	RESONANCE PARAMETERS
64-GD-155		2.010-6	1.167-5	62 2019	3	RESONANCE PARAMETERS
64-GD-155		2.010-6	6.960-5	68 2667	58	RESONANCE PARAMETERS
64-GD-155		2.010-6	3.304-5	70 2464	63	RESONANCE PARAMETERS
64-GD-155		2.145-6	4.710-5	57 2230	52	RESONANCE PARAMETERS
64-GD-155		2.500-6	2.500-6	62 3035	1	RESONANCE PARAMETERS
64-GD-155		3.616-6	1.833-4	70 2268	118	RESONANCE PARAMETERS
64-GD-155		3.616-6	1.833-4	70 3063	118	RESONANCE PARAMETERS
64-GD-155		6.290-6	1.832-4	68 2154	100	RESONANCE PARAMETERS
64-GD-155		6.300-6	7.760-6	69 1878	7	RESONANCE PARAMETERS
64-GD-155		6.400-6	7.800-5	57 2431	17	RESONANCE PARAMETERS
64-GD-156		3.250-5	7.970-5	57 2431	2	RESONANCE PARAMETERS
64-GD-156		3.312-5	1.550-3	68 2154	70	RESONANCE PARAMETERS
64-GD-156		3.320-5	8.460-4	68 2667	23	RESONANCE PARAMETERS
64-GD-157		2.800-8	2.800-8	47 916	2	RESONANCE PARAMETERS
64-GD-157		3.100-8	2.410-4	70 2464	78	RESONANCE PARAMETERS
N 64-GD-157		3.140-8	3.140-8	60 3036	1	RESONANCE PARAMETERS
64-GD-157		3.140-8	3.140-8	63 2254	1	RESONANCE PARAMETERS
N 64-GD-157		3.140-8	3.140-8	64 2445	1	RESONANCE PARAMETERS
64-GD-157		3.140-8	2.825-6	60 2243	10	RESONANCE PARAMETERS
N 64-GD-157		3.140-8	2.825-6	65 2246	2	RESONANCE PARAMETERS
64-GD-157		3.140-8	2.360-5	56 2021	6	RESONANCE PARAMETERS
64-GD-157		3.300-8	3.300-8	61 878	1	RESONANCE PARAMETERS
64-GD-157		4.400-8	4.400-8	46 2442	2	RESONANCE PARAMETERS
64-GD-157		2.831-6	1.846-4	68 2667	59	RESONANCE PARAMETERS
64-GD-157		2.900-6	4.430-5	62 2019	5	RESONANCE PARAMETERS
64-GD-157		2.980-6	4.900-5	57 2230	11	RESONANCE PARAMETERS
64-GD-157		1.617-5	3.064-4	68 2154	81	RESONANCE PARAMETERS
64-GD-157		1.625-5	1.840-4	70 2268	51	RESONANCE PARAMETERS
64-GD-157		1.625-5	1.840-4	70 3063	51	RESONANCE PARAMETERS
64-GD-157		1.680-5	4.870-5	69 1878	7	RESONANCE PARAMETERS
64-GD-157		1.688-5	8.140-5	57 2431	7	RESONANCE PARAMETERS
64-GD-157		1.710-5	1.710-5	67 1905	2	RESONANCE PARAMETERS
64-GD-158		2.220-5	9.170-4	68 2667	21	RESONANCE PARAMETERS
64-GD-158		2.224-5	2.224-5	57 2431	1	RESONANCE PARAMETERS
64-GD-158		2.230-5	2.230-5	56 2021	1	RESONANCE PARAMETERS
64-GD-158		2.230-5	2.338-3	68 2154	57	RESONANCE PARAMETERS
N 64-GD-158		2.230-5	9.980-3	74 3568	217	RESONANCE PARAMETERS
64-GD-158		2.270-5	2.270-5	57 2230	1	RESONANCE PARAMETERS
N 64-GD-160		2.220-4	2.656-3	68 2154	35	RESONANCE PARAMETERS
N 64-GD-160		2.220-4	9.662-3	74 3568	116	RESONANCE PARAMETERS
64-GD-160		2.230-4	2.679-3	68 2667	16	RESONANCE PARAMETERS
65-TD-159		3.340-6	3.340-6	71 3669	1	RESONANCE PARAMETERS
65-TD-159		3.340-6	9.750-5	64 2447	62	RESONANCE PARAMETERS
65-TD-159		3.350-6	1.114-5	64 2446	3	RESONANCE PARAMETERS
65-TD-159		3.350-6	1.560-4	35 862	48	RESONANCE PARAMETERS
65-TD-159		3.370-6	1.140-5	54 2327	4	RESONANCE PARAMETERS
65-TD-159		2.430-5	1.123-4	65 1949	33	RESONANCE PARAMETERS

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	TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	66-DY-156			2.150- 6	1.240- 4	69 3409	54	RESONANCE PARAMETERS
N	66-DY-158			3.800- 6	2.710- 4	69 3409	12	RESONANCE PARAMETERS
N	66-DY-160			1.680- 6	0.500- 5	69 3409	14	RESONANCE PARAMETERS
N	66-DY-160			1.045- 5	1.094- 3	75 3835	137	RESONANCE PARAMETERS
N	66-DY-161			-2.380- 6	-2.380- 6	64 2250	1	RESONANCE PARAMETERS
N	66-DY-161			2.710- 6	9.962- 4	75 3835	528	RESONANCE PARAMETERS
N	66-DY-161			2.720- 6	3.690- 6	62 2252	2	RESONANCE PARAMETERS
N	66-DY-161			2.720- 6	1.850- 5	71 3129	8	RESONANCE PARAMETERS
N	66-DY-161			2.720- 6	6.350- 5	57 2251	56	RESONANCE PARAMETERS
N	66-DY-161			2.720- 6	1.376- 4	70 2245	46	RESONANCE PARAMETERS
N	66-DY-161			2.730- 6	1.950- 5	54 2327	9	RESONANCE PARAMETERS
N	66-DY-161			4.330- 6	7.730- 6	62 2253	2	RESONANCE PARAMETERS
N	66-DY-162			5.430- 6	8.610- 4	70 2245	16	RESONANCE PARAMETERS
N	66-DY-162			5.440- 6	6.454- 4	57 2251	9	RESONANCE PARAMETERS
N	66-DY-162			5.450- 6	5.450- 6	71 3129	1	RESONANCE PARAMETERS
N	66-DY-162			5.450- 6	1.581- 2	75 3835	300	RESONANCE PARAMETERS
N	66-DY-162			5.490- 6	5.490- 6	54 2327	1	RESONANCE PARAMETERS
N	66-DY-163			-5.170- 7	-5.170- 7	64 2250	1	RESONANCE PARAMETERS
N	66-DY-163			1.700- 6	2.900- 4	70 3152	8	RESONANCE PARAMETERS
N	66-DY-163			1.710- 6	1.710- 6	62 2252	1	RESONANCE PARAMETERS
N	66-DY-163			1.710- 6	1.710- 6	65 2254	2	RESONANCE PARAMETERS
N	66-DY-163			1.710- 6	1.625- 5	71 3129	2	RESONANCE PARAMETERS
N	66-DY-163			1.710- 6	9.380- 5	57 2251	21	RESONANCE PARAMETERS
N	66-DY-163			1.710- 6	2.236- 4	70 2245	21	RESONANCE PARAMETERS
N	66-DY-163			1.710- 6	1.713- 6	66 1563	3	RESONANCE PARAMETERS
N	66-DY-163			1.720- 6	1.680- 5	54 2327	2	RESONANCE PARAMETERS
N	66-DY-163			1.720- 6	9.966- 4	75 3835	267	RESONANCE PARAMETERS
N	66-DY-163			1.620- 5	2.620- 4	70 2094	16	RESONANCE PARAMETERS
N	66-DY-164			-1.890- 6	-1.890- 6	61 2255	3	RESONANCE PARAMETERS
N	66-DY-164			1.454- 4	1.316- 3	70 2245	8	RESONANCE PARAMETERS
N	66-DY-164			1.460- 4	1.460- 4	57 2251	2	RESONANCE PARAMETERS
N	66-DY-164			1.460- 4	1.460- 4	70 4024	1	RESONANCE PARAMETERS
N	66-DY-164			1.470- 4	2.115- 2	75 3835	237	RESONANCE PARAMETERS
N	67-HO-165			3.910- 6	5.104- 4	67 2163	178	RESONANCE PARAMETERS
N	67-HO-165			3.920- 6	3.920- 6	68 2743	2	RESONANCE PARAMETERS
N	67-HO-165			3.920- 6	1.280- 5	62 2448	2	RESONANCE PARAMETERS
N	67-HO-165			3.920- 6	1.300- 4	55 862	45	RESONANCE PARAMETERS
N	67-HO-165			3.924- 6	3.924- 6	61 2449	6	RESONANCE PARAMETERS
N	67-HO-165			3.924- 6	5.400- 5	66 2260	11	RESONANCE PARAMETERS
N	67-HO-165			3.960- 6	3.900- 5	53 1057	5	RESONANCE PARAMETERS
N	67-HO-165			3.960- 6	3.900- 5	54 2327	5	RESONANCE PARAMETERS
N	67-HO-165			8.140- 3	2.610- 4	68 2838	82	RESONANCE PARAMETERS
N	67-HO-165			8.160- 6	1.233- 3	71 3136	278	RESONANCE PARAMETERS
N	67-HO-165			8.160- 6	1.720- 3	70 3605	1118	RESONANCE PARAMETERS
N	67-HO-165			1.820- 5	2.130- 5	65 2259	2	RESONANCE PARAMETERS
N	67-HO-165			1.830- 5	0.600- 5	70 3078	13	RESONANCE PARAMETERS
N	68-ER-161			2.370- 6	2.760- 4	68 3316	14	RESONANCE PARAMETERS
N	68-ER-162			5.480- 6	2.295- 4	67 2263	34	RESONANCE PARAMETERS
N	68-ER-162			7.600- 6	1.320- 4	68 3316	10	RESONANCE PARAMETERS
N	68-ER-162			7.680- 6	2.100- 5	65 2430	3	RESONANCE PARAMETERS
N	68-ER-162			1.470- 5	4.580- 5	57 2024	2	RESONANCE PARAMETERS
N	68-ER-164			7.800- 6	6.060- 4	67 2885	28	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
68-ER-164			7.920- 6	2.252- 4	67 2263	24	RESONANCE PARAMETERS
68-ER-164			7.950- 6	7.950- 6	65 2430	1	RESONANCE PARAMETERS
68-ER-164			7.950- 6	7.950- 6	68 3316	1	RESONANCE PARAMETERS
68-ER-164			3.040- 5	5.630- 5	57 2024	2	RESONANCE PARAMETERS
68-ER-164			3.07- 5	5.670- 5	64 2262	2	RESONANCE PARAMETERS
68-ER-166			1.540- 5	7.330- 5	57 2024	2	RESONANCE PARAMETERS
68-ER-166			1.584- 5	8.160- 5	64 2262	4	RESONANCE PARAMETERS
68-ER-166			1.556- 5	6.030- 4	67 2263	26	RESONANCE PARAMETERS
68-ER-166			1.556- 5	9.486- 3	71 3060	183	RESONANCE PARAMETERS
68-ER-166			1.560- 5	1.560- 5	65 2430	1	RESONANCE PARAMETERS
68-ER-166	N		1.560- 5	1.560- 5	68 3316	1	RESONANCE PARAMETERS
68-ER-166			1.560- 5	1.370- 3	67 2885	58	RESONANCE PARAMETERS
68-ER-167			4.600- 7	5.800- 7	65 2451	4	RESONANCE PARAMETERS
68-ER-167			4.600- 7	5.840- 7	60 2243	12	RESONANCE PARAMETERS
68-ER-167	N		4.600- 7	9.600- 6	70 3076	4	RESONANCE PARAMETERS
68-ER-167			4.600- 7	2.120- 5	61 2449	5	RESONANCE PARAMETERS
68-ER-167			4.600- 7	2.760- 5	63 2428	7	RESONANCE PARAMETERS
68-ER-167			4.600- 7	1.422- 4	67 2263	56	RESONANCE PARAMETERS
68-ER-167			4.600- 7	1.700- 4	65 2430	2	RESONANCE PARAMETERS
68-ER-167			4.700- 7	9.400- 6	59 2465	4	RESONANCE PARAMETERS
68-ER-167	N		4.700- 7	2.750- 5	54 2327	5	RESONANCE PARAMETERS
68-ER-167			4.700- 7	9.400- 5	57 2024	26	RESONANCE PARAMETERS
68-ER-167			5.960- 6	3.210- 4	67 2885	146	RESONANCE PARAMETERS
68-ER-167	N		5.970- 6	5.220- 5	68 3316	15	RESONANCE PARAMETERS
68-ER-167			5.970- 6	1.134- 4	64 2262	33	RESONANCE PARAMETERS
68-ER-167			5.990- 6	1.686- 3	71 3060	336	RESONANCE PARAMETERS
68-ER-167			7.905- 6	7.905- 6	65 2450	3	RESONANCE PARAMETERS
68-ER-167	N		2.026- 5	1.423- 4	72 3924	21	RESONANCE PARAMETERS
68-ER-167			2.030- 5	2.740- 5	70 2297	4	RESONANCE PARAMETERS
68-ER-167			1.161- 4	1.429- 4	63 2164	3	RESONANCE PARAMETERS
68-ER-168			3.920- 6	1.486- 2	71 3060	157	RESONANCE PARAMETERS
68-ER-168			7.310- 6	4.360- 3	67 2885	44	RESONANCE PARAMETERS
68-ER-168			7.940- 5	7.940- 5	57 2024	1	RESONANCE PARAMETERS
68-ER-168			7.990- 5	7.990- 5	64 2262	1	RESONANCE PARAMETERS
68-ER-168			7.990- 5	1.410- 3	67 2263	16	RESONANCE PARAMETERS
68-ER-170			3.900- 6	2.370- 2	71 3060	156	RESONANCE PARAMETERS
68-ER-170			7.400- 6	4.730- 3	67 2885	34	RESONANCE PARAMETERS
68-ER-170			9.380- 5	9.380- 5	57 2024	1	RESONANCE PARAMETERS
68-ER-170			9.450- 5	9.450- 5	65 2430	1	RESONANCE PARAMETERS
68-ER-170			9.450- 5	9.450- 5	68 3316	1	RESONANCE PARAMETERS
68-ER-170			9.480- 5	9.480- 5	67 2263	2	RESONANCE PARAMETERS
69-TM-169			3.900- 6	3.900- 6	67 3042	4	RESONANCE PARAMETERS
69-TM-169	N		3.900- 6	3.900- 6	71 3669	1	RESONANCE PARAMETERS
69-TM-169			3.900- 6	1.410- 4	69 3043	13	RESONANCE PARAMETERS
69-TM-169	N		3.900- 6	7.160- 4	72 3576	68	RESONANCE PARAMETERS
69-TM-169			3.900- 6	7.605- 4	69 2547	189	RESONANCE PARAMETERS
69-TM-169			3.920- 6	3.920- 6	65 2254	1	RESONANCE PARAMETERS
69-TM-169			3.920- 6	1.760- 5	53 1057	3	RESONANCE PARAMETERS
69-TM-169			3.920- 6	1.760- 5	54 2327	3	RESONANCE PARAMETERS
69-TM-169	N		3.920- 6	8.340- 5	68 3082	6	RESONANCE PARAMETERS
69-TM-169	N		3.920- 6	1.152- 4	70 3082	14	RESONANCE PARAMETERS
69-TM-169			3.920- 6	1.580- 4	55 862	37	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	69-TM-169		3.920- 6	1.640- 4	63 2265	75	RESONANCE PARAMETERS
N	69-TM-169		3.920- 6	1.942- 3	71 3610	973	RESONANCE PARAMETERS
	69-TM-169		4.000- 6	3.490- 5	67 2264	5	RESONANCE PARAMETERS
	69-TM-169		1.430- 5	2.970- 4	65 1949	54	RESONANCE PARAMETERS
N	69-TM-169		1.440- 5	1.530- 4	72 3924	13	RESONANCE PARAMETERS
N	69-TM-169		1.450- 5	5.070- 5	63 2453	9	RESONANCE PARAMETERS
	69-TM-169		1.450- 5	5.070- 5	63 3037	5	RESONANCE PARAMETERS
	69-TM-170		2.840- 6	8.960- 5	74 3528	33	RESONANCE PARAMETERS
N	69-TM-171		4.920- 6	6.410- 5	74 3528	9	RESONANCE PARAMETERS
	70-YB-NAT		2.260- 5	2.260- 5	66 2266	1	RESONANCE PARAMETERS
	70-YB-168		5.970- 7	5.970- 7	54 2327	3	RESONANCE PARAMETERS
	70-YB-168		5.970- 7	2.256- 5	68 2267	2	RESONANCE PARAMETERS
N	70-YB-168		6.000- 7	2.890- 4	72 3423	22	RESONANCE PARAMETERS
	70-YB-168		2.250- 5	1.881- 4	72 3145	2	RESONANCE PARAMETERS
	70-YB-168		2.260- 5	2.260- 5	66 2266	1	RESONANCE PARAMETERS
	70-YB-170		8.130- 6	4.490- 4	68 2267	13	RESONANCE PARAMETERS
	70-YB-170		3.993- 5	1.328- 3	72 3145	19	RESONANCE PARAMETERS
	70-YB-170		4.030- 5	7.320- 5	66 2266	5	RESONANCE PARAMETERS
	70-YB-171		7.910- 6	1.685- 3	72 3145	239	RESONANCE PARAMETERS
	70-YB-171		7.930- 6	1.470- 4	66 2266	46	RESONANCE PARAMETERS
	70-YB-171		7.930- 6	2.252- 4	68 2267	30	RESONANCE PARAMETERS
	70-YB-171		8.090- 6	1.313- 5	54 2327	2	RESONANCE PARAMETERS
	70-YB-171		1.350- 5	1.340- 4	62 2019	14	RESONANCE PARAMETERS
	70-YB-172		1.398- 4	6.180- 4	68 2267	12	RESONANCE PARAMETERS
	70-YB-172		1.398- 4	1.010- 2	72 3145	103	RESONANCE PARAMETERS
	70-YB-172		1.410- 4	1.410- 4	66 2266	1	RESONANCE PARAMETERS
	70-YB-173		4.500- 6	1.110- 4	71 3114	14	RESONANCE PARAMETERS
	70-YB-173		4.510- 6	2.103- 4	68 2267	28	RESONANCE PARAMETERS
	70-YB-173		4.510- 6	1.797- 3	72 3145	214	RESONANCE PARAMETERS
	70-YB-173		4.530- 6	1.300- 4	66 2266	37	RESONANCE PARAMETERS
	70-YB-173		4.550- 6	1.820- 5	54 2327	2	RESONANCE PARAMETERS
	70-YB-173		4.600- 6	4.820- 5	62 2019	11	RESONANCE PARAMETERS
	70-YB-174		3.430- 4	1.980- 2	72 3145	80	RESONANCE PARAMETERS
	70-YB-174		3.450- 4	8.850- 4	68 2267	2	RESONANCE PARAMETERS
	70-YB-176		9.785- 5	1.985- 2	72 3145	68	RESONANCE PARAMETERS
	70-YB-176		1.488- 4	2.188- 3	68 2267	7	RESONANCE PARAMETERS
	71-LU-175		2.576- 6	2.576- 6	66 1553	3	RESONANCE PARAMETERS
N	71-LU-175		2.590- 6	2.985- 3	75 3625	892	RESONANCE PARAMETERS
	71-LU-175		2.600- 6	4.060- 5	70 3079	11	RESONANCE PARAMETERS
N	71-LU-175		2.600- 6	2.740- 4	75 3570	57	RESONANCE PARAMETERS
	71-LU-175		2.610- 6	5.740- 5	59 948	16	RESONANCE PARAMETERS
	71-LU-175		4.780- 6	4.150- 5	55 862	12	RESONANCE PARAMETERS
	71-LU-176		1.413- 7	1.563- 6	66 1553	6	RESONANCE PARAMETERS
	71-LU-176		1.420- 7	1.420- 7	60 2333	7	RESONANCE PARAMETERS
N	71-LU-176		1.450- 7	1.450- 7	67 2256	2	RESONANCE PARAMETERS
	71-LU-176		1.570- 6	4.670- 5	59 948	20	RESONANCE PARAMETERS
	71-LU-176		6.170- 6	2.730- 5	55 862	5	RESONANCE PARAMETERS
	72-HF-NAT		1.095- 6	2.378- 6	61 887	4	RESONANCE PARAMETERS
	72-HF-NAT		7.000- 5	4.004- 4	63 939	6	RESONANCE PARAMETERS
	72-HF-174		4.250- 6	2.110- 4	65 919	10	RESONANCE PARAMETERS
	72-HF-174		3.050- 5	3.050- 5	55 862	2	RESONANCE PARAMETERS
	72-HF-176		4.830- 5	2.010- 4	65 919	6	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
72-HF-175		4.830-5	3.477-4	66	2276	11	RESONANCE PARAMETERS
72-HF-176		6.710-5	6.590-4	63	939	16	RESONANCE PARAMETERS
72-HF-176		2.016-4	1.058-3	65	2489	16	RESONANCE PARAMETERS
72-HF-177		1.063-5	1.360-5	53	2023	7	RESONANCE PARAMETERS
72-HF-177		1.095-6	2.378-6	61	887	5	RESONANCE PARAMETERS
N 72-HF-177		1.098-6	6.966-4	75	3635	179	RESONANCE PARAMETERS
72-HF-177		1.099-6	1.765-4	65	919	51	RESONANCE PARAMETERS
72-HF-177		1.100-6	2.200-6	51	2491	4	RESONANCE PARAMETERS
72-HF-177		1.100-6	2.390-6	59	2465	2	RESONANCE PARAMETERS
72-HF-177		1.100-5	2.390-6	56	2490	12	RESONANCE PARAMETERS
72-HF-177		1.100-6	2.400-6	66	2254	2	RESONANCE PARAMETERS
72-HF-177		1.100-6	2.240-5	64	2546	9	RESONANCE PARAMETERS
72-HF-177		1.100-6	2.590-5	62	2019	8	RESONANCE PARAMETERS
72-HF-177		1.100-6	2.087-4	68	3039	46	RESONANCE PARAMETERS
N 72-HF-177		1.100-6	2.997-4	71	3779	97	RESONANCE PARAMETERS
72-HF-177		2.390-6	6.500-6	56	1238	9	RESONANCE PARAMETERS
N 72-HF-177		2.400-6	2.400-6	61	3673	2	RESONANCE PARAMETERS
72-HF-177		5.900-6	1.050-4	56	862	56	RESONANCE PARAMETERS
72-HF-177		1.092-5	1.389-5	68	2765	6	RESONANCE PARAMETERS
72-HF-177		3.195-5	3.763-4	65	2276	70	RESONANCE PARAMETERS
72-HF-177		5.460-5	5.000-4	63	939	65	RESONANCE PARAMETERS
72-HF-177		1.993-4	1.019-3	65	2489	59	RESONANCE PARAMETERS
72-HF-178		7.600-6	7.600-6	53	2023	1	RESONANCE PARAMETERS
N 72-HF-178		7.770-6	7.193-4	76	3635	24	RESONANCE PARAMETERS
72-HF-178		7.780-6	1.644-4	65	919	3	RESONANCE PARAMETERS
72-HF-178		7.800-6	7.600-6	55	862	2	RESONANCE PARAMETERS
72-HF-178		1.046-4	8.640-4	63	939	11	RESONANCE PARAMETERS
72-HF-178		1.051-4	3.890-4	65	2276	6	RESONANCE PARAMETERS
72-HF-178		2.559-4	1.163-3	66	2489	14	RESONANCE PARAMETERS
72-HF-179		5.600-6	5.600-6	53	2023	1	RESONANCE PARAMETERS
72-HF-179		5.680-6	1.874-4	65	919	33	RESONANCE PARAMETERS
N 72-HF-179		5.680-6	1.979-4	71	3779	44	RESONANCE PARAMETERS
72-HF-179		5.690-6	1.100-4	56	862	53	RESONANCE PARAMETERS
72-HF-179		3.120-5	3.918-4	65	2276	45	RESONANCE PARAMETERS
72-HF-179		5.460-5	4.896-4	63	939	53	RESONANCE PARAMETERS
72-HF-179		2.031-4	1.050-3	66	2489	40	RESONANCE PARAMETERS
72-H-180		7.220-5	9.110-4	63	939	6	RESONANCE PARAMETERS
72-HF-180		7.250-5	1.719-4	65	919	2	RESONANCE PARAMETERS
72-HF-180		7.255-5	1.723-4	65	2276	2	RESONANCE PARAMETERS
72-HF-180		7.390-5	7.390-5	55	862	2	RESONANCE PARAMETERS
72-HF-180		7.487-4	9.140-4	65	2489	1	RESONANCE PARAMETERS
73-1A-131		4.100-6	3.700-5	47	44	5	RESONANCE PARAMETERS
73-TA-181		4.280-6	4.280-6	68	2743	2	RESONANCE PARAMETERS
73-TA-181		4.280-6	1.034-5	67	2199	2	RESONANCE PARAMETERS
73-TA-181		4.280-6	9.880-5	58	2493	29	RESONANCE PARAMETERS
73-TA-181		4.280-6	2.000-4	61	2492	122	RESONANCE PARAMETERS
73-TA-181		4.282-6	4.282-5	56	2440	6	RESONANCE PARAMETERS
73-TA-181		4.290-6	3.940-5	53	2494	21	RESONANCE PARAMETERS
73-TA-181		4.320-6	2.390-5	68	3090	4	RESONANCE PARAMETERS
N 73-TA-181		4.300-6	9.930-5	72	3924	20	RESONANCE PARAMETERS
73-1A-181		4.300-6	2.000-4	72	3209	25	RESONANCE PARAMETERS
73-TA-181		1.000-5	3.850-5	54	255	7	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
73-TA-181		1.020	-5	3.820	-5	53 100	12 RESONANCE PARAMETERS
73-TA-181		1.020	-5	1.970	-4	56 201	26 RESONANCE PARAMETERS
73-TA-181		1.038	-5	1.270	-4	55 862	41 RESONANCE PARAMETERS
73-TA-181		1.400	-5	1.470	-4	56 1237	54 RESONANCE PARAMETERS
73-TA-181		2.020	-5	9.880	-5	58 458	73 RESONANCE PARAMETERS
73-TA-181		2.410	-5	2.410	-5	67 1905	2 RESONANCE PARAMETERS
73-TA-181		3.000	-5	1.398	-3	55 814	331 RESONANCE PARAMETERS
73-TA-181		3.500	-5	3.500	-5	58 1248	1 RESONANCE PARAMETERS
73-TA-181		7.690	-5	3.295	-4	60 2472	137 RESONANCE PARAMETERS
73-TA-182		1.470	-7	8.800	-5	58 2315	21 RESONANCE PARAMETERS
74-W-NAT		4.000	-5	1.800	-4	47 44	5 RESONANCE PARAMETERS
74-W-NAT		7.520	-5	5.880	-3	52 2282	59 RESONANCE PARAMETERS
74-W-NAT		9.600	-5	2.175	-4	1 64 2496	2 RESONANCE PARAMETERS
74-W-NAT		1.008	-4	1.920	-4	59 2285	7 RESONANCE PARAMETERS
74-W-180		1.580	-5	7.520	-5	1 64 2496	2 RESONANCE PARAMETERS
74-W-180		1.590	-5	7.500	-5	62 2309	2 RESONANCE PARAMETERS
74-W-180		1.590	-5	8.740	-5	66 2495	10 RESONANCE PARAMETERS
74-W-180		7.520	-5	7.520	-5	59 2282	1 RESONANCE PARAMETERS
74-W-182		-3.070	-5	-3.070	-5	66 2286	1 RESONANCE PARAMETERS
74-W-182		4.000	-6	4.000	-6	47 44	1 RESONANCE PARAMETERS
74-W-182		4.140	-6	4.140	-6	55 2289	3 RESONANCE PARAMETERS
74-W-182		4.140	-6	2.120	-5	1 63 2496	4 RESONANCE PARAMETERS
74-W-182		4.140	-6	1.140	-4	59 2288	6 RESONANCE PARAMETERS
74-W-182		4.140	-6	3.840	-4	56 2514	10 RESONANCE PARAMETERS
N 74-W-182		4.150	-6	4.150	-6	67 373	2 RESONANCE PARAMETERS
74-W-182		4.150	-6	2.110	-5	58 2504	2 RESONANCE PARAMETERS
74-W-182		4.150	-6	2.150	-5	51 2044	3 RESONANCE PARAMETERS
C 74-W-182		4.160	-6	2.109	-5	64 996	10 RESONANCE PARAMETERS
74-W-182		2.103	-5	1.325	-2	1 71 3059	142 RESONANCE PARAMETERS
74-W-182		2.120	-5	2.120	-5	59 2287	1 RESONANCE PARAMETERS
74-W-182		9.600	-5	1.940	-2	69 3092	222 RESONANCE PARAMETERS
74-W-182		1.140	-4	1.140	-4	59 2285	4 RESONANCE PARAMETERS
74-W-182		1.144	-4	1.144	-4	66 2452	1 RESONANCE PARAMETERS
74-W-182		1.144	-4	4.873	-4	1 64 2496	10 RESONANCE PARAMETERS
74-W-182		1.145	-4	2.425	-3	59 2282	13 RESONANCE PARAMETERS
74-W-182		1.281	-3	4.005	-3	65 923	39 RESONANCE PARAMETERS
74-W-183		7.000	-6	1.010	-4	67 2317	5 RESONANCE PARAMETERS
74-W-183		7.400	-6	7.400	-6	47 44	1 RESONANCE PARAMETERS
74-W-183		7.600	-6	6.500	-5	58 2294	5 RESONANCE PARAMETERS
74-W-183		7.600	-6	6.500	-5	63 2309	5 RESONANCE PARAMETERS
74-W-183		7.600	-6	6.600	-5	59 2296	5 RESONANCE PARAMETERS
74-W-183		7.600	-6	1.030	-4	63 2437	3 RESONANCE PARAMETERS
74-W-183		7.620	-6	7.620	-6	62 2283	1 RESONANCE PARAMETERS
74-W-183		7.620	-6	2.710	-5	59 2007	9 RESONANCE PARAMETERS
N 74-W-183		7.620	-6	4.810	-5	58 2504	4 RESONANCE PARAMETERS
N 74-W-183		7.620	-6	6.570	-5	59 2287	6 RESONANCE PARAMETERS
74-W-183		7.620	-6	1.008	-4	59 2288	15 RESONANCE PARAMETERS
74-W-183		7.620	-6	3.540	-4	56 2614	15 RESONANCE PARAMETERS
N 74-W-183		7.640	-6	7.640	-6	67 3733	2 RESONANCE PARAMETERS
74-W-183		7.650	-6	1.008	-4	1 63 2496	15 RESONANCE PARAMETERS
74-W-183		7.670	-6	2.708	-5	64 996	9 RESONANCE PARAMETERS
74-W-183		7.800	-6	4.900	-5	51 2044	3 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
74-W-183			2.700- 5	4.500- 5	58 2293	2	RESONANCE PARAMETERS
74-W-183			2.700- 5	1.020- 4	58 2291	3	RESONANCE PARAMETERS
74-W-183			2.705- 5	1.575- 4	60 2295	48	RESONANCE PARAMETERS
74-W-183			2.710- 5	1.020- 4	58 2292	8	RESONANCE PARAMETERS
74-W-183			2.717- 5	1.740- 4	59 2285	45	RESONANCE PARAMETERS
74-W-183			4.070- 5	1.308- 2	69 3092	350	RESONANCE PARAMETERS
74-W-183			6.570- 5	1.515- 3	59 2282	16	RESONANCE PARAMETERS
74-W-183			1.011- 4	1.011- 4	66 2452	1	RESONANCE PARAMETERS
74-W-183			1.038- 4	4.600- 4	64 2496	50	RESONANCE PARAMETERS
74-W-183			4.191- 4	2.658- 3	65 923	85	RESONANCE PARAMETERS
74-W-183			-1.100- 4	-1.100- 4	66 2286	1	RESONANCE PARAMETERS
74-W-184			1.017- 4	1.645- 2	71 3059	125	RESONANCE PARAMETERS
74-W-184			1.020- 4	2.090- 3	66 2452	16	RESONANCE PARAMETERS
74-W-184			1.021- 4	1.970- 2	69 3092	201	RESONANCE PARAMETERS
74-W-184			1.022- 4	4.247- 4	64 2496	7	RESONANCE PARAMETERS
74-W-184			1.022- 4	2.425- 3	59 2282	13	RESONANCE PARAMETERS
74-W-184			1.850- 4	1.850- 4	59 2285	4	RESONANCE PARAMETERS
74-W-184			1.870- 4	3.160- 4	56 2614	2	RESONANCE PARAMETERS
74-W-18			2.053- 3	4.025- 3	65 923	22	RESONANCE PARAMETERS
74-W-186			1.800- 5	1.800- 5	47 44	1	RESONANCE PARAMETERS
74-W-186			1.876- 5	1.734- 2	71 3059	105	RESONANCE PARAMETERS
74-W-186			1.880- 5	1.880- 5	59 2287	1	RESONANCE PARAMETERS
74-W-186			1.880- 5	1.880- 5	59 2288	2	RESONANCE PARAMETERS
74-W-186			1.880- 5	1.880- 5	63 2496	2	RESONANCE PARAMETERS
74-W-186			1.880- 5	4.120- 4	56 2614	6	RESONANCE PARAMETERS
74-W-186			1.880- 5	1.991- 2	69 3092	183	RESONANCE PARAMETERS
74-W-186			1.883- 5	1.883- 5	67 3676	3	RESONANCE PARAMETERS
74-W-186			1.884- 5	1.884- 5	64 995	6	RESONANCE PARAMETERS
74-W-186			1.025- 5	2.250- 4	51 2044	3	RESONANCE PARAMETERS
74-W-186			1.710- 4	1.710- 4	59 2285	4	RESONANCE PARAMETERS
74-W-186			1.712- 4	5.125- 4	64 2496	7	RESONANCE PARAMETERS
74-W-186			1.714- 4	7.250- 4	59 2282	7	RESONANCE PARAMETERS
74-W-186			2.360- 3	3.985- 3	65 923	15	RESONANCE PARAMETERS
75-RE-NAT			2.920- 6	2.110- 5	53 100	5	RESONANCE PARAMETERS
75-RE-NAT			2.209- 5	1.080- 4	60 1886	23	RESONANCE PARAMETERS
75-RE-NAT			5.890- 5	1.230- 4	59 2007	6	RESONANCE PARAMETERS
75-RE-185			-6.750- 6	5.028- 4	68 1990	109	RESONANCE PARAMETERS
75-RE-185			2.156- 6	2.156- 6	67 1905	2	RESONANCE PARAMETERS
75-RE-185			2.156- 6	1.280- 5	55 2551	8	RESONANCE PARAMETERS
75-RE-185			2.156- 6	1.080- 4	65 1886	23	RESONANCE PARAMETERS
75-RE-185			2.160- 6	1.290- 5	67 2199	4	RESONANCE PARAMETERS
75-RE-185			2.160- 6	3.840- 4	71 3215	86	RESONANCE PARAMETERS
75-RE-185			2.180- 6	2.110- 5	53 100	6	RESONANCE PARAMETERS
75-RE-185			1.193- 5	1.001- 4	59 2007	20	RESONANCE PARAMETERS
75-RE-187			-2.100- 6	4.935- 4	68 1990	94	RESONANCE PARAMETERS
75-RE-187			4.400- 6	1.770- 5	53 100	4	RESONANCE PARAMETERS
75-RE-187			4.410- 6	1.120- 5	67 2199	2	RESONANCE PARAMETERS
75-RE-187			4.410- 6	8.700- 5	65 1886	12	RESONANCE PARAMETERS
75-RE-187			4.416- 6	1.110- 5	55 2551	5	RESONANCE PARAMETERS
75-RE-187			4.420- 6	3.640- 4	71 3215	76	RESONANCE PARAMETERS
75-RE-187			1.118- 5	1.151- 4	59 2007	12	RESONANCE PARAMETERS
75-OS-NAT			6.720- 6	1.097- 4	58 2041	17	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
76-05-NAT		6	730-	6	8.990- 5	56 201	38 RESONANCE PARAMETERS
76-05-NAT		1	180-	5	4.450- 5	61 960	6 RESONANCE PARAMETERS
76-05-NAT		5	040-	5	3.174- 4	65 2548	18 RESONANCE PARAMETERS
N 76-05-186		2	237-	5	2.740- 4	72 3423	5 RESONANCE PARAMETERS
N 76-05-187		9	450-	6	6.500- 5	69 3408	9 RESONANCE PARAMETERS
N 76-05-187		3	460-	6	1.240- 4	72 3423	10 RESONANCE PARAMETERS
N 76-05-187		9	480-	6	2.985- 4	75 3572	44 RESONANCE PARAMETERS
76-05-167		9	500-	6	1.260- 5	70 2297	2 RESONANCE PARAMETERS
76-05-187		9	500-	6	4.750- 5	61 960	4 RESONANCE PARAMETERS
76-05-187		1	260-	5	1.260- 5	58 2041	1 RESONANCE PARAMETERS
76-05-187		1	260-	5	4.120- 5	56 201	2 RESONANCE PARAMETERS
N 76-05-188		3	840-	5	3.960- 4	72 3423	7 RESONANCE PARAMETERS
N 76-05-188		3	920-	5	8.340- 5	69 3408	7 RESONANCE PARAMETERS
N 76-05-189		6	500-	6	4.200- 5	47 45	5 RESONANCE PARAMETERS
N 76-05-189		6	630-	6	1.870- 4	75 3570	38 RESONANCE PARAMETERS
N 76-05-189		6	700-	6	2.800- 5	69 3408	6 RESONANCE PARAMETERS
76-05-189		6	710-	6	6.710- 6	62 1236	2 RESONANCE PARAMETERS
76-05-189		6	710-	6	6.070- 5	70 2297	12 RESONANCE PARAMETERS
76-05-189		6	710-	6	6.100- 5	61 960	19 RESONANCE PARAMETERS
76-05-189		6	720-	6	8.050- 5	58 2041	17 RESONANCE PARAMETERS
76-05-189		6	730-	6	6.310- 5	56 201	13 RESONANCE PARAMETERS
N 76-05-189		6	750-	6	3.230- 4	72 3423	35 RESONANCE PARAMETERS
N 76-05-189		5	050-	5	6.070- 5	65 2549	3 RESONANCE PARAMETERS
N 76-05-190		1	114-	5	5.630- 4	72 3423	6 RESONANCE PARAMETERS
N 76-05-192		2	033-	5	7.170- 4	72 3423	6 RESONANCE PARAMETERS
77-IR-NAT		6	400-	7	2.500- 5	47 261	5 RESONANCE PARAMETERS
77-IR-NAT		5	360-	6	9.350- 5	58 201	39 RESONANCE PARAMETERS
77-IR-NAT		1	923-	5	4.162- 4	65 2548	52 RESONANCE PARAMETERS
77-IR-191		6	200-	7	6.200- 7	47 2550	1 RESONANCE PARAMETERS
77-IR-191		6	400-	7	5.200- 6	47 261	2 RESONANCE PARAMETERS
77-IR-191		6	500-	7	8.120- 5	56 201	17 RESONANCE PARAMETERS
77-IR-191		6	540-	7	9.070- 6	67 1905	8 RESONANCE PARAMETERS
N 77-IR-191		6	540-	7	9.070- 6	67 1905	3 RESONANCE PARAMETERS
77-IR-191		6	540-	7	9.900- 6	95 2289	13 RESONANCE PARAMETERS
77-IR-191		6	551-	7	8.591- 7	66 1553	3 RESONANCE PARAMETERS
77-IR-191		5	350-	6	6.490- 5	57 2431	3 RESONANCE PARAMETERS
77-IR-191		5	360-	6	5.130- 5	63 2439	9 RESONANCE PARAMETERS
77-IR-191		5	360-	6	5.130- 5	66 2301	9 RESONANCE PARAMETERS
77-IR-191		5	390-	6	6.170- 5	58 2041	5 RESONANCE PARAMETERS
77-IR-191		9	070-	6	1.036- 4	59 2549	19 RESONANCE PARAMETERS
77-IR-191		1	923-	5	1.036- 4	65 2548	16 RESONANCE PARAMETERS
N 77-IR-191		1	923-	5	2.252- 4	72 3419	52 RESONANCE PARAMETERS
77-IR-193		1	270-	6	1.270- 6	47 261	1 RESONANCE PARAMETERS
77-IR-193		1	290-	6	1.290- 6	47 2550	1 RESONANCE PARAMETERS
77-IR-193		1	301-	6	1.301- 6	66 1553	3 RESONANCE PARAMETERS
77-IR-193		1	303-	6	1.303- 6	55 2289	5 RESONANCE PARAMETERS
77-IR-193		1	303-	6	1.303- 6	67 1905	1 RESONANCE PARAMETERS
77-IR-193		1	303-	6	9.070- 6	67 1905	6 RESONANCE PARAMETERS
77-IR-193		1	350-	6	4.170- 5	56 201	4 RESONANCE PARAMETERS
77-IR-193		9	040-	6	7.720- 5	57 2431	7 RESONANCE PARAMETERS
77-IR-193		9	070-	6	2.238- 4	59 2549	18 RESONANCE PARAMETERS
77-IR-193		2	440-	5	1.099- 4	65 2548	10 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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	TARGET CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	77-IR-193		2.451-5	3.910-4	72 3419	42	RESONANCE PARAMETERS
	77-IR-193		4.340-5	4.340-5	63 2439	2	RESONANCE PARAMETERS
	77-IR-193		4.340-5	4.340-5	66 2301	1	RESONANCE PARAMETERS
	78-PT-NAT		3.300-5	3.300-5	59 2007	2	RESONANCE PARAMETERS
	78-PT-NAT		5.390-5	4.500-3	59 2282	74	RESONANCE PARAMETERS
	78-PT-NAT		5.400-5	5.680-4	59 2303	15	RESONANCE PARAMETERS
	78-PT-NAT		9.814-5	8.202-4	69 2547	35	RESONANCE PARAMETERS
	78-PT-NAT		1.291-4	1.446-4	59 2501	2	RESONANCE PARAMETERS
	78-PT-192		4.600-5	5.300-5	59 2007	3	RESONANCE PARAMETERS
	78-PT-192		4.655-5	5.804-4	69 2547	23	RESONANCE PARAMETERS
	78-PT-192		4.700-5	5.400-5	59 2303	2	RESONANCE PARAMETERS
	78-PT-192		5.390-5	5.800-4	59 2282	3	RESONANCE PARAMETERS
	78-PT-194		3.770-4	6.983-4	69 2547	14	RESONANCE PARAMETERS
	78-PT-194		7.000-4	7.000-4	59 2282	1	RESONANCE PARAMETERS
	78-PT-195		1.150-5	1.820-5	47 44	2	RESONANCE PARAMETERS
	78-PT-195		1.180-5	1.195-4	59 823	5	RESONANCE PARAMETERS
	78-PT-195		1.180-5	8.252-4	69 2547	157	RESONANCE PARAMETERS
	78-PT-195		1.190-5	1.960-5	57 1967	8	RESONANCE PARAMETERS
N	78-PT-195		1.190-5	1.960-5	60 2306	2	RESONANCE PARAMETERS
	78-PT-195		1.190-5	1.960-5	60 2308	6	RESONANCE PARAMETERS
N	78-PT-195		1.190-5	6.700-5	63 2437	7	RESONANCE PARAMETERS
	78-PT-195		1.190-5	6.800-5	59 2304	3	RESONANCE PARAMETERS
	78-PT-195		1.190-5	6.820-5	60 2499	3	RESONANCE PARAMETERS
	78-PT-195		1.190-5	1.890-4	63 2309	10	RESONANCE PARAMETERS
	78-PT-195		1.170-5	2.960-4	62 2497	15	RESONANCE PARAMETERS
	78-PT-195		1.200-5	6.800-5	59 2307	3	RESONANCE PARAMETERS
	78-PT-195		1.960-5	2.900-4	59 2305	19	RESONANCE PARAMETERS
	78-PT-195		1.960-5	4.500-4	59 2303	15	RESONANCE PARAMETERS
	78-PT-195		6.690-5	6.740-5	61 960	2	RESONANCE PARAMETERS
	78-PT-195		6.690-5	1.540-4	59 2501	7	RESONANCE PARAMETERS
	78-PT-195		6.690-5	3.080-4	62 2119	60	RESONANCE PARAMETERS
	78-PT-195		6.740-5	6.740-5	61 2498	1	RESONANCE PARAMETERS
	78-PT-195		6.750-5	1.470-3	59 2282	37	RESONANCE PARAMETERS
	78-PT-195		1.130-4	3.040-4	60 2295	60	RESONANCE PARAMETERS
	78-PT-195		1.390-4	1.520-4	59 2007	3	RESONANCE PARAMETERS
	78-PT-195		3.034-4	5.656-4	69 2547	8	RESONANCE PARAMETERS
	78-PT-196		9.500-5	9.500-5	59 823	2	RESONANCE PARAMETERS
	78-PT-198		9.560-5	9.560-5	59 2501	1	RESONANCE PARAMETERS
	78-PT-198		9.582-5	9.582-5	69 2547	4	RESONANCE PARAMETERS
	78-PT-198		9.600-5	9.600-5	60 2308	2	RESONANCE PARAMETERS
	78-PT-198		9.610-5	9.610-5	59 2292	1	RESONANCE PARAMETERS
	78-PT-198		9.800-5	9.800-5	59 2303	1	RESONANCE PARAMETERS
	79-AU-197		-2.000-5	-2.000-5	68 3084	2	RESONANCE PARAMETERS
	79-AU-197		4.800-6	4.800-6	46 961	1	RESONANCE PARAMETERS
	79-AU-197		4.800-6	4.800-6	47 44	1	RESONANCE PARAMETERS
	79-AU-197		4.800-6	4.800-6	50 2506	1	RESONANCE PARAMETERS
	79-AU-197		4.870-6	4.870-6	51 2436	4	RESONANCE PARAMETERS
	79-AU-197		4.900-6	4.900-6	68 2743	2	RESONANCE PARAMETERS
	79-AU-197		4.906-6	4.906-6	56 2440	6	RESONANCE PARAMETERS
	79-AU-197		4.910-6	4.910-6	54 2441	2	RESONANCE PARAMETERS
	79-AU-197		4.940-6	1.940-4	54 439	21	RESONANCE PARAMETERS
	79-AU-197		4.845-5	5.470-4	65 1949	60	RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN	MEV	E-MAX	MEV	REFERENCE	POINTS	REACTION DESCRIPTION
79-AU-197		4.650	-5	4.650	-5	56	1106	2	RESONANCE PARAMETERS
79-AU-197		4.650	-5	4.650	-5	58	903	1	RESONANCE PARAMETERS
79-AU-197		4.650	-5	4.650	-5	66	1951	200	RESONANCE PARAMETERS
79-AU-197		4.670	-5	4.670	-5	60	2472	154	RESONANCE PARAMETERS
79-AU-197		6.025	-5	6.025	-5	66	2434	6	RESONANCE PARAMETERS
79-AU-197		6.100	-5	6.100	-5	58	2545	20	RESONANCE PARAMETERS
79-AU-197		7.834	-5	7.834	-5	62	2283	1	RESONANCE PARAMETERS
79-AU-197		1.022	-3	3.080	-3	69	1854	184	RESONANCE PARAMETERS
79-AU-197		2.597	-3	4.827	-3	75	3551	115	RESONANCE PARAMETERS
80-HG-NAT		1.280	-4	2.060	-4	56	138	2	RESONANCE PARAMETERS
80-HG-NAT		2.707	-4	6.500	-4	60	2399	9	RESONANCE PARAMETERS
80-HG-196		9.350	-5	9.350	-5	60	2399	6	RESONANCE PARAMETERS
80-HG-196		2.300	-5	3.000	-4	57	2024	3	RESONANCE PARAMETERS
80-HG-196		2.300	-5	3.110	-4	56	138	29	RESONANCE PARAMETERS
80-HG-196		2.300	-5	4.174	-4	60	2399	4	RESONANCE PARAMETERS
80-HG-196		5.306	-2	4.174	-4	63	3043	20	RESONANCE PARAMETERS
80-HG-196		2.330	-5	2.330	-5	52	1603	1	RESONANCE PARAMETERS
80-HG-196		2.330	-5	2.330	-5	56	1273	3	RESONANCE PARAMETERS
80-HG-196		2.330	-5	9.110	-5	63	2439	5	RESONANCE PARAMETERS
80-HG-196		9.000	-5	9.000	-5	59	1005	4	RESONANCE PARAMETERS
80-HG-199		-2.000	-6	-2.000	-6	46	961	1	RESONANCE PARAMETERS
80-HG-199		-2.000	-6	-2.000	-6	51	962	4	RESONANCE PARAMETERS
80-HG-199		-2.000	-6	-2.000	-6	53	2500	1	RESONANCE PARAMETERS
80-HG-199		-2.000	-6	1.730	-4	60	940	4	RESONANCE PARAMETERS
80-HG-199		-2.000	-6	1.770	-4	57	2702	3	RESONANCE PARAMETERS
80-HG-199		3.300	-5	2.640	-4	59	2704	3	RESONANCE PARAMETERS
80-HG-199		3.350	-5	1.310	-4	63	2439	4	RESONANCE PARAMETERS
80-HG-199		3.350	-5	1.750	-4	59	1005	15	RESONANCE PARAMETERS
80-HG-199		3.350	-5	3.150	-4	69	3043	5	RESONANCE PARAMETERS
80-HG-199		3.350	-5	4.910	-4	57	2024	9	RESONANCE PARAMETERS
80-HG-199		3.350	-5	6.860	-4	69	1878	28	RESONANCE PARAMETERS
80-HG-199		3.350	-5	9.800	-4	60	2399	48	RESONANCE PARAMETERS
80-HG-199		3.400	-5	3.400	-5	56	1238	5	RESONANCE PARAMETERS
80-HG-199		3.400	-5	1.770	-4	55	138	3	RESONANCE PARAMETERS
80-HG-199		3.400	-5	3.400	-5	52	803	3	RESONANCE PARAMETERS
80-HG-199		1.325	-7	1.800	-7	62	2309	1	RESONANCE PARAMETERS
80-HG-199		4.300	-5	2.050	-4	56	138	22	RESONANCE PARAMETERS
80-HG-201		4.300	-5	2.050	-4	59	1005	13	RESONANCE PARAMETERS
80-HG-201		4.300	-5	3.128	-4	69	3043	4	RESONANCE PARAMETERS
80-HG-201		4.300	-5	4.410	-4	59	2304	3	RESONANCE PARAMETERS
80-HG-201		4.300	-5	5.580	-4	57	2024	6	RESONANCE PARAMETERS
80-HG-201		4.300	-5	6.850	-4	60	2399	36	RESONANCE PARAMETERS
80-HG-201		4.330	-5	7.090	-4	69	1878	28	RESONANCE PARAMETERS
80-HG-201		4.330	-5	7.180	-5	63	2439	6	RESONANCE PARAMETERS
80-HG-201		2.110	-3	2.110	-3	52	2119	4	RESONANCE PARAMETERS
80-HG-202		1.110	-3	4.105	-3	60	2399	10	RESONANCE PARAMETERS
81-TL-NAT		-4.000	-5	-4.000	-5	58	903	1	RESONANCE PARAMETERS
81-TL-NAT		2.108	-2	1.015	-1	75	3840	54	RESONANCE PARAMETERS
81-TL-203		3.781	-5	1.038	-1	75	3840	134	RESONANCE PARAMETERS
81-TL-203		2.380	-4	2.380	-4	57	1867	3	RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
90-Ti-228			1.896-6	7.550-6	66 1344	4	RESONANCE PARAMETERS
90-Ti-229			2.400-7	7.270-7	60 249	3	RESONANCE PARAMETERS
90-Ti-229			6.090-7	2.990-5	61 246	4	RESONANCE PARAMETERS
90-Ti-229			6.100-7	1.680-5	63 238	18	RESONANCE PARAMETERS
N 90-Ti-229			6.100-7	5.100-5	70 3438	34	RESONANCE PARAMETERS
90-Ti-230			-7.500-8	5.630-4	69 2362	64	RESONANCE PARAMETERS
N 90-Ti-230			1.431-9	5.630-4	68 2196	35	RESONANCE PARAMETERS
90-Ti-230			1.107-6	4.750-5	66 1490	21	RESONANCE PARAMETERS
90-Ti-230			1.425-6	2.940-4	68 1516	29	RESONANCE PARAMETERS
90-Ti-232			-7.000-6	-7.000-6	68 903	1	RESONANCE PARAMETERS
90-Ti-232			-5.100-6	-5.100-6	68 2094	1	RESONANCE PARAMETERS
90-Ti-232			-3.500-6	-3.500-6	61 1455	2	RESONANCE PARAMETERS
90-Ti-232			8.240-6	0.662-4	65 409	72	RESONANCE PARAMETERS
N 90-Ti-232			8.316-6	3.007-3	64 3650	657	RESONANCE PARAMETERS
90-Ti-232			8.340-6	1.036-4	64 388	18	RESONANCE PARAMETERS
90-Ti-232			2.169-5	3.412-4	63 1480	31	RESONANCE PARAMETERS
90-Ti-232			2.173-5	6.902-5	63 1481	5	RESONANCE PARAMETERS
90-Ti-232			2.178-5	6.913-5	67 203	12	RESONANCE PARAMETERS
N 90-Ti-232			2.178-5	3.994-3	70 3556	691	RESONANCE PARAMETERS
90-Ti-232			2.180-5	1.700-4	64 465	13	RESONANCE PARAMETERS
90-Ti-232			2.180-5	1.710-4	64 470	28	RESONANCE PARAMETERS
90-Ti-232			2.180-5	2.219-4	65 1479	19	RESONANCE PARAMETERS
90-Ti-232			2.200-5	3.100-4	55 520	30	RESONANCE PARAMETERS
90-Ti-232			2.200-5	3.500-4	56 201	50	RESONANCE PARAMETERS
90-Ti-232			2.210-5	1.330-4	54 459	21	RESONANCE PARAMETERS
90-Ti-232			3.690-5	1.971-3	71 2946	329	RESONANCE PARAMETERS
90-Ti-232			1.129-4	4.000-3	65 814	238	RESONANCE PARAMETERS
90-Ti-232			1.950-4	2.630-4	59 498	20	RESONANCE PARAMETERS
90-Ti-232			3.290-4	1.300-3	62 1499	90	RESONANCE PARAMETERS
91-PA-231			-3.180-7	1.073-5	62 410	76	RESONANCE PARAMETERS
91-PA-231			3.960-7	7.450-7	61 1208	6	RESONANCE PARAMETERS
91-PA-231			4.000-7	9.900-5	62 362	123	RESONANCE PARAMETERS
91-PA-233			7.950-7	1.700-5	67 1309	42	RESONANCE PARAMETERS
91-PA-233			1.350-6	1.610-5	63 1486	10	RESONANCE PARAMETERS
92-U-232			-6.000-7	2.775-5	66 1308	12	RESONANCE PARAMETERS
92-U-232			-6.000-7	7.424-5	68 898	28	RESONANCE PARAMETERS
92-U-232			5.945-6	7.500-5	65 1103	12	RESONANCE PARAMETERS
92-U-232			5.990-6	2.580-4	64 369	25	RESONANCE PARAMETERS
92-U-233			-5.000-6	4.700-6	56 1437	14	RESONANCE PARAMETERS
92-U-233			-1.001-6	2.548-5	60 1239	56	RESONANCE PARAMETERS
92-U-233			-5.000-7	1.037-5	67 979	42	RESONANCE PARAMETERS
92-U-233			-5.000-7	2.290-6	62 1324	15	RESONANCE PARAMETERS
92-U-233			1.000-7	6.770-6	60 1220	21	RESONANCE PARAMETERS
92-U-233			1.950-7	1.047-5	60 1250	48	RESONANCE PARAMETERS
92-U-233			1.450-6	1.220-5	55 1212	20	RESONANCE PARAMETERS
92-U-233			1.453-6	6.130-5	68 549	159	RESONANCE PARAMETERS
92-U-233			1.470-6	1.900-5	59 1248	16	RESONANCE PARAMETERS
92-U-233			1.550-6	2.951-5	71 3327	36	RESONANCE PARAMETERS
92-U-233			1.590-6	3.076-5	68 1530	70	RESONANCE PARAMETERS
92-U-233			1.700-6	2.100-5	55 965	9	RESONANCE PARAMETERS
92-U-233			1.775-6	9.810-5	55 902	39	RESONANCE PARAMETERS
92-U-233			1.780-6	1.100-5	56 1409	6	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ECSIL-1800 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U	-233		1.785-6	1.040-5	55 1243	25	RESONANCE PARAMETERS
92-U	-233		1.800-6	1.200-5	55 968	6	RESONANCE PARAMETERS
92-U	-233		1.820-6	1.600-5	55 956	8	RESONANCE PARAMETERS
92-U	-233		1.823-6	2.954-5	65 1242	148	RESONANCE PARAMETERS
C	92-U	-233	2.800-6	5.215-5	70 2205	143	RESONANCE PARAMETERS
N	92-U	-233	2.800-6	5.215-5	70 3601	216	RESONANCE PARAMETERS
92-U	-233		3.210-6	1.900-5	55 520	33	RESONANCE PARAMETERS
N	92-U	-233	5.890-6	1.241-4	74 3920	473	RESONANCE PARAMETERS
92-U	-233		6.080-6	1.100-4	57 1209	83	RESONANCE PARAMETERS
92-U	-233		2.058-5	6.272-5	67 190	136	RESONANCE PARAMETERS
92-U	-233		3.123-5	3.805-5	64 1241	27	RESONANCE PARAMETERS
92-U	-234		-2.000-6	5.190-6	58 436	6	RESONANCE PARAMETERS
92-U	-234		-1.310-6	-1.310-6	61 1455	2	RESONANCE PARAMETERS
92-U	-234		5.180-6	5.180-6	57 1209	4	RESONANCE PARAMETERS
N	92-U	-234	5.190-6	5.190-6	70 3402	1	RESONANCE PARAMETERS
92-U	-234		5.190-6	5.190-6	71 1493	1	RESONANCE PARAMETERS
92-U	-234		5.190-6	8.176-4	69 2530	76	RESONANCE PARAMETERS
92-U	-234		5.190-6	1.394-2	68 2087	51	RESONANCE PARAMETERS
92-U	-234		5.200-6	5.200-6	60 1197	1	RESONANCE PARAMETERS
92-U	-234		5.200-6	5.200-6	61 1208	1	RESONANCE PARAMETERS
92-U	-234		5.200-6	3.690-4	58 1116	41	RESONANCE PARAMETERS
C	92-U	-235	-2.000-6	7.090-6	63 1225	30	RESONANCE PARAMETERS
92-U	-235		-2.000-6	1.940-5	64 966	50	RESONANCE PARAMETERS
92-U	-235		-1.450-6	3.140-6	62 1224	12	RESONANCE PARAMETERS
92-U	-235		-1.450-6	8.795-6	58 406	24	RESONANCE PARAMETERS
92-U	-235		-1.450-6	6.244-5	67 1489	290	RESONANCE PARAMETERS
92-U	-235		-1.001-6	1.230-5	55 1212	6	RESONANCE PARAMETERS
92-U	-235		-9.500-7	3.160-6	60 1220	15	RESONANCE PARAMETERS
92-U	-235		2.750-7	2.080-6	68 1346	3	RESONANCE PARAMETERS
N	92-U	-235	2.900-7	6.390-6	71 3459	5	RESONANCE PARAMETERS
92-U	-235		2.900-7	8.950-6	58 1222	40	RESONANCE PARAMETERS
92-U	-235		2.900-7	1.400-5	55 968	6	RESONANCE PARAMETERS
N	92-U	-235	2.900-7	1.400-5	74 3483	15	RESONANCE PARAMETERS
92-U	-235		2.900-7	3.530-5	56 1037	131	RESONANCE PARAMETERS
92-U	-235		2.900-7	3.540-5	57 1209	150	RESONANCE PARAMETERS
N	92-U	-235	2.900-7	5.020-5	70 3402	569	RESONANCE PARAMETERS
92-U	-235		3.000-7	1.800-5	55 956	8	RESONANCE PARAMETERS
92-U	-235		3.000-7	3.400-5	55 250	16	RESONANCE PARAMETERS
N	92-U	-235	3.000-7	3.400-5	55 965	11	RESONANCE PARAMETERS
92-U	-235		3.000-7	9.000-5	55 902	17	RESONANCE PARAMETERS
92-U	-235		1.130-6	3.941-5	69 1734	24	RESONANCE PARAMETERS
N	92-U	-235	1.130-6	5.660-5	73 3039	53	RESONANCE PARAMETERS
N	92-U	-235	1.130-6	5.870-5	73 3477	63	RESONANCE PARAMETERS
C	92-U	-235	1.140-6	8.143-5	71 2529	500	RESONANCE PARAMETERS
92-U	-235		1.150-6	2.420-5	59 254	16	RESONANCE PARAMETERS
92-U	-235		2.026-6	5.020-5	65 1034	572	RESONANCE PARAMETERS
92-U	-235		2.030-6	1.473-4	65 1035	644	RESONANCE PARAMETERS
N	92-U	-235	2.040-6	3.205-5	72 3500	6	RESONANCE PARAMETERS
N	92-U	-235	2.040-6	4.190-5	73 3781	14	RESONANCE PARAMETERS
92-U	-235		2.775-6	4.942-5	71 3122	270	RESONANCE PARAMETERS
92-U	-235		4.850-6	3.935-5	63 1219	84	RESONANCE PARAMETERS
92-U	-235		6.100-6	4.850-5	59 1223	39	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E	MIN-NEV	E-MAX-NEV	REFERENCE	POINTS	REACTION DESCRIPTION
92-U-235		6.200-6	6.440-5	59.1221		102	RESONANCE PARAMETERS	
92-U-235		6.300-6	6.305-5	72.3780		12	RESONANCE PARAMETERS	
92-U-235		6.330-6	6.391-5	69.2534		17	RESONANCE PARAMETERS	
92-U-235		6.330-6	6.391-5	69.3644		18	RESONANCE PARAMETERS	
92-U-235		6.780-6	6.1474-4	66.1544		312	RESONANCE PARAMETERS	
92-U-235		6.800-6	6.649-5	66.3649		52	RESONANCE PARAMETERS	
92-U-235		6.870-6	6.649-5	70.3065		35	RESONANCE PARAMETERS	
92-U-235		6.790-6	6.1929-5	71.1493		3	RESONANCE PARAMETERS	
92-U-235		6.800-6	6.1240-5	65.1357		6	RESONANCE PARAMETERS	
92-U-235		6.800-6	6.1930-5	56.148		4	RESONANCE PARAMETERS	
92-U-235		9.250-6	6.1104-5	56.1038		48	RESONANCE PARAMETERS	
92-U-235		9.250-6	6.1474-4	71.3125		473	RESONANCE PARAMETERS	
92-U-235		1.667-5	7.088-5	67.1100		160	RESONANCE PARAMETERS	
92-U-235		1.804-5	7.088-5	69.1488		80	RESONANCE PARAMETERS	
92-U-235		1.850-5	7.005-4	65.814		269	RESONANCE PARAMETERS	
92-U-235		1.930-5	6.1110-5	70.2207		38	RESONANCE PARAMETERS	
92-U-235		5.048-5	6.952-5	60.1017		38	RESONANCE PARAMETERS	
92-U-235		-8.700-6	6.952-5	68.1531		75	RESONANCE PARAMETERS	
92-U-235		-8.000-6	6.780-5	68.436		16	RESONANCE PARAMETERS	
92-U-235		5.160-6	6.480-5	68.193		12	RESONANCE PARAMETERS	
92-U-235		5.490-6	6.490-5	69.208		27	RESONANCE PARAMETERS	
92-U-235		5.490-6	6.800-4	69.1118		21	RESONANCE PARAMETERS	
92-U-235		4.412-5	1.814-4	73.1290		261	RESONANCE PARAMETERS	
92-U-235		4.410-6	1.733-4	68.1240		31	RESONANCE PARAMETERS	
92-U-235		4.410-6	2.051-3	68.1464		475	RESONANCE PARAMETERS	
92-U-235		6.650-6	6.650-6	62.1236		2	RESONANCE PARAMETERS	
92-U-235		6.650-6	6.231-4	66.1355		65	RESONANCE PARAMETERS	
92-U-235		6.650-6	6.593-3	70.3556		611	RESONANCE PARAMETERS	
92-U-235		6.670-6	6.620-5	71.1493		3	RESONANCE PARAMETERS	
92-U-235		6.670-6	1.169-4	76.3955		22	RESONANCE PARAMETERS	
92-U-235		6.671-6	2.100-4	55.902		54	RESONANCE PARAMETERS	
92-U-235		6.570-6	2.370-4	57.1247		68	RESONANCE PARAMETERS	
92-U-235		6.680-6	1.020-5	61.1208		1	RESONANCE PARAMETERS	
92-U-235		6.680-6	6.050-4	56.201		54	RESONANCE PARAMETERS	
92-U-235		6.700-6	3.710-5	56.1238		18	RESONANCE PARAMETERS	
92-U-235		6.700-6	6.180-4	55.862		44	RESONANCE PARAMETERS	
92-U-235		1.020-5	2.639-4	71.3142		5	RESONANCE PARAMETERS	
92-U-235		2.120-5	2.662-4	75.3908		392	RESONANCE PARAMETERS	
92-U-235		2.120-5	2.000-4	56.1237		32	RESONANCE PARAMETERS	
92-U-235		2.633-5	1.802-3	63.1251		162	RESONANCE PARAMETERS	
92-U-235		2.633-5	1.748-3	62.1653		142	RESONANCE PARAMETERS	
92-U-235		6.351-5	1.748-3	75.3964		54	RESONANCE PARAMETERS	
92-U-235		6.600-5	1.095-3	70.3317		69	RESONANCE PARAMETERS	
92-U-235		6.600-5	1.197-3	70.3317		106	RESONANCE PARAMETERS	
92-U-235		6.600-5	5.762-3	70.3602		754	RESONANCE PARAMETERS	
92-U-235		6.600-5	5.762-3	70.3061		172	RESONANCE PARAMETERS	
92-U-235		1.028-4	6.970-4	60.139		4	RESONANCE PARAMETERS	
92-U-235		2.374-4	3.904-3	55.814		213	RESONANCE PARAMETERS	
92-U-235		3.952-4	3.735-3	73.269		22	RESONANCE PARAMETERS	
92-U-235		5.185-4	3.595-3	71.3127		191	RESONANCE PARAMETERS	
92-U-235		7.652-4	3.598-3				RESONANCE PARAMETERS	

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ECS: L-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
	93-NP-237		4.890-7	1.488-6	57 992	5	RESONANCE PARAMETERS
	93-NP-237		4.890-7	3.510-5	59 255	60	RESONANCE PARAMETERS
	93-NP-237		4.890-7	3.512-5	58 944	32	RESONANCE PARAMETERS
	93-NP-237		4.900-7	1.470-6	61 1215	3	RESONANCE PARAMETERS
	93-NP-237		4.900-7	7.500-6	70 3080	14	RESONANCE PARAMETERS
	93-NP-237		5.000-7	4.000-6	55 955	3	RESONANCE PARAMETERS
C	93-NP-237		1.320-6	2.353-4	73 1498	508	RESONANCE PARAMETERS
N	93-NP-237		1.470-6	8.840-4	73 3838	112	RESONANCE PARAMETERS
	93-NP-237		3.860-6	1.890-5	59 68	15	RESONANCE PARAMETERS
N	93-NP-237		3.860-6	1.554-4	73 3921	379	RESONANCE PARAMETERS
	93-NP-237		4.293-6	1.014-4	61 1001	69	RESONANCE PARAMETERS
	93-NP-237		5.770-6	5.040-5	71 3111	42	RESONANCE PARAMETERS
N	93-NP-237		2.040-5	5.037-5	71 3646	28	RESONANCE PARAMETERS
	94-PU-238		-1.001-5	1.920-4	67 1387	24	RESONANCE PARAMETERS
	94-PU-238		-5.000-7	-5.000-7	65 1235	1	RESONANCE PARAMETERS
	94-PU-238		-5.000-7	8.320-5	62 1210	12	RESONANCE PARAMETERS
	94-PU-238		2.890-6	8.320-5	66 1305	8	RESONANCE PARAMETERS
	94-PU-238		2.910-6	1.220-4	66 1252	29	RESONANCE PARAMETERS
N	94-PU-238		1.860-5	4.960-4	73 3273	147	RESONANCE PARAMETERS
	94-PU-238		1.510-4	2.800-4	66 1083	6	RESONANCE PARAMETERS
	94-PU-239		-1.200-6	1.560-5	60 1220	15	RESONANCE PARAMETERS
	94-PU-239		-1.001-6	2.280-5	55 1212	21	RESONANCE PARAMETERS
	94-PU-239		-2.500-7	5.260-5	58 936	113	RESONANCE PARAMETERS
	94-PU-239		-2.300-7	2.550-5	51 308	10	RESONANCE PARAMETERS
	94-PU-239		-1.900-7	2.990-7	55 967	4	RESONANCE PARAMETERS
	94-PU-239		0.000+3	4.920-5	56 954	26	RESONANCE PARAMETERS
	94-PU-239		1.000-8	1.600-5	56 958	9	RESONANCE PARAMETERS
	94-PU-239		2.950-7	2.950-7	45 1246	2	RESONANCE PARAMETERS
	94-PU-239		2.950-7	2.950-7	55 995	2	RESONANCE PARAMETERS
	94-PU-239		2.950-7	1.370-5	55 956	5	RESONANCE PARAMETERS
	94-PU-239		2.950-7	9.600-5	55 985	14	RESONANCE PARAMETERS
	94-PU-239		2.960-7	3.220-5	58 959	44	RESONANCE PARAMETERS
N	94-PU-239		2.960-7	5.010-5	73 3793	12	RESONANCE PARAMETERS
	94-PU-239		2.950-7	1.570-4	70 3119	157	RESONANCE PARAMETERS
	94-PU-239		2.970-7	1.500-5	55 968	5	RESONANCE PARAMETERS
	94-PU-239		2.970-7	2.660-5	56 955	16	RESONANCE PARAMETERS
	94-PU-239		2.980-7	9.000-5	69 2082	16	RESONANCE PARAMETERS
	94-PU-239		3.000-7	3.000-7	51 991	2	RESONANCE PARAMETERS
	94-PU-239		3.000-7	3.000-7	55 1192	4	RESONANCE PARAMETERS
	94-PU-239		3.030-7	2.610-5	57 1231	29	RESONANCE PARAMETERS
N	94-PU-239		3.000-7	4.170-5	71 3459	2	RESONANCE PARAMETERS
	94-PU-239		3.000-7	4.180-5	70 3071	2	RESONANCE PARAMETERS
	94-PU-239		3.000-7	8.170-5	66 1232	21	RESONANCE PARAMETERS
N	94-PU-239		3.000-7	6.583-4	70 1953	209	RESONANCE PARAMETERS
	94-PU-239		3.000-7	6.583-4	71 2438	413	RESONANCE PARAMETERS
	94-PU-239		7.800-6	4.450-5	62 1230	24	RESONANCE PARAMETERS
	94-PU-239		7.800-6	7.360-5	65 1371	19	RESONANCE PARAMETERS
C	94-PU-239		7.813-6	2.986-4	71 2528	474	RESONANCE PARAMETERS
	94-PU-239		7.820-6	7.500-5	67 2154	10	RESONANCE PARAMETERS
N	94-PU-239		7.820-6	1.190-4	73 1493	23	RESONANCE PARAMETERS
	94-PU-239		7.820-6	2.512-4	66 1349	504	RESONANCE PARAMETERS
N	94-PU-239		7.820-6	6.583-4	75 3919	826	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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ECSIL-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
N	94-PU-239	7.830-	6	2.034-	4	65 604	138 RESONANCE PARAMETERS
	94-PU-239	7.840-	6	2.260-	5	63 1225	8 RESONANCE PARAMETERS
	94-PU-239	7.840-	6	8.570-	5	66 1376	124 RESONANCE PARAMETERS
	94-PU-239	7.840-	6	9.550-	5	64 986	62 RESONANCE PARAMETERS
	94-PU-239	7.840-	6	2.700-	4	65 1229	54 RESONANCE PARAMETERS
	94-PU-239	7.850-	6	3.250-	5	56 227	19 RESONANCE PARAMETERS
	94-PU-239	7.850-	6	4.448-	5	70 2106	11 RESONANCE PARAMETERS
	94-PU-239	7.850-	6	8.590-	5	57 1209	104 RESONANCE PARAMETERS
	94-PU-239	7.900-	6	8.560-	5	65 1233	43 RESONANCE PARAMETERS
	94-PU-239	1.094-	5	1.094-	5	64 1114	1 RESONANCE PARAMETERS
C	94-PU-239	1.429-	5	8.560-	5	68 1465	141 RESONANCE PARAMETERS
	94-PU-239	1.468-	5	3.032-	4	67 1345	97 RESONANCE PARAMETERS
	94-PU-239	1.470-	5	6.585-	4	70 3120	113 RESONANCE PARAMETERS
	94-PU-239	4.170-	5	1.179-	4	69 2854	24 RESONANCE PARAMETERS
	94-PU-239	5.580-	5	8.560-	5	65 1351	10 RESONANCE PARAMETERS
	94-PU-239	6.094-	5	1.002-	4	68 1167	26 RESONANCE PARAMETERS
	94-PU-239	1.029-	4	2.981-	4	65 1350	162 RESONANCE PARAMETERS
	94-PU-240	1.050-	6	3.200-	4	63 1213	19 RESONANCE PARAMETERS
	94-PU-240	1.053-	6	1.053-	6	56 1106	3 RESONANCE PARAMETERS
	94-PU-240	1.053-	6	3.820-	5	59 1115	10 RESONANCE PARAMETERS
	94-PU-240	1.056-	6	1.056-	6	55 1205	2 RESONANCE PARAMETERS
	94-PU-240	1.056-	6	1.056-	6	59 1136	1 RESONANCE PARAMETERS
	94-PU-240	1.057-	6	1.057-	6	59 1105	3 RESONANCE PARAMETERS
	94-PU-240	1.057-	6	3.780-	5	58 959	6 RESONANCE PARAMETERS
	94-PU-240	1.059-	6	1.059-	6	70 3066	6 RESONANCE PARAMETERS
	94-PU-240	1.060-	6	1.060-	6	51 308	4 RESONANCE PARAMETERS
	94-PU-240	1.060-	6	1.060-	6	56 958	4 RESONANCE PARAMETERS
	94-PU-240	1.060-	6	1.060-	6	61 1215	2 RESONANCE PARAMETERS
	94-PU-240	1.060-	6	1.190-	4	57 1211	18 RESONANCE PARAMETERS
	94-PU-240	1.075-	6	1.075-	6	55 1192	5 RESONANCE PARAMETERS
	94-PU-240	1.080-	6	1.080-	6	55 1212	1 RESONANCE PARAMETERS
	94-PU-240	2.045-	5	2.871-	4	68 1536	14 RESONANCE PARAMETERS
	94-PU-240	2.045-	5	2.871-	4	68 3647	28 RESONANCE PARAMETERS
	94-PU-240	2.045-	5	5.692-	3	68 1534	526 RESONANCE PARAMETERS
	94-PU-240	2.045-	5	4.994-	4	71 3112	50 RESONANCE PARAMETERS
	94-PU-240	2.046-	5	6.789-	4	66 1354	55 RESONANCE PARAMETERS
	94-PU-240	2.050-	5	1.451-	3	68 1353	101 RESONANCE PARAMETERS
	94-PU-240	3.820-	5	3.820-	5	64 1352	1 RESONANCE PARAMETERS
	94-PU-240	3.834-	5	6.655-	4	68 3642	93 RESONANCE PARAMETERS
	94-PU-240	3.834-	5	8.204-	4	68 1535	50 RESONANCE PARAMETERS
	94-PU-240	7.490-	4	2.073-	3	70 3112	13 RESONANCE PARAMETERS
	94-PU-240	7.500-	4	3.381-	3	68 1537	34 RESONANCE PARAMETERS
	94-PU-241	1.500-	7	1.020-	5	61 1194	18 RESONANCE PARAMETERS
	94-PU-241	2.500-	7	2.500-	7	58 1111	4 RESONANCE PARAMETERS
	94-PU-241	2.550-	7	4.450-	6	56 955	3 RESONANCE PARAMETERS
	94-PU-241	4.270-	6	3.090-	5	68 1530	120 RESONANCE PARAMETERS
	94-PU-241	4.275-	6	3.490-	5	64 1110	42 RESONANCE PARAMETERS
	94-PU-241	4.280-	6	1.605-	4	71 3126	377 RESONANCE PARAMETERS
	94-PU-241	4.290-	6	4.816-	5	70 2907	137 RESONANCE PARAMETERS
	94-PU-241	4.310-	6	6.800-	6	58 959	4 RESONANCE PARAMETERS
	94-PU-241	4.320-	6	8.610-	5	59 1180	6 RESONANCE PARAMETERS
	94-PU-241	4.330-	6	1.785-	5	61 1165	14 RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
94-PU-241		1	275-5	5,040-5	64 1114	66	RESONANCE PARAMETERS
94-PU-241		1	277-5	9,950-5	71 3115	130	RESONANCE PARAMETERS
94-PU-241		1	284-5	1,570-5	64 1107	12	RESONANCE PARAMETERS
94-PU-241		1	113-5	5,208-5	66 1359	112	RESONANCE PARAMETERS
94-PU-241		1	174-5	3,103-5	64 1113	48	RESONANCE PARAMETERS
94-PU-242		-5	000-6	3,800-4	67 1446	24	RESONANCE PARAMETERS
94-PU-242		2	640-6	3,860-4	66 1082	16	RESONANCE PARAMETERS
94-PU-242		2	650-6	2,650-5	61 1208	1	RESONANCE PARAMETERS
94-PU-242		2	650-6	5,360-5	59 1115	7	RESONANCE PARAMETERS
94-PU-242		2	667-6	2,667-6	64 1114	1	RESONANCE PARAMETERS
94-PU-242		2	670-6	2,670-6	58 959	2	RESONANCE PARAMETERS
94-PU-242		2	680-6	1,286-3	73 3782	97	RESONANCE PARAMETERS
94-PU-242		1	460-5	8,320-4	65 1218	42	RESONANCE PARAMETERS
94-PU-242		5	340-5	7,882-4	70 943	39	RESONANCE PARAMETERS
94-PU-242		5	340-5	7,882-4	71 2209	23	RESONANCE PARAMETERS
94-PU-242		5	050-4	3,824-4	74 3540	5	RESONANCE PARAMETERS
94-PU-242		5	050-4	3,824-4	75 3540	5	RESONANCE PARAMETERS
94-PU-242		5	740-4	3,830-3	71 3109	61	RESONANCE PARAMETERS
94-PU-242		5	670-4	2,960-2	69 2352	7	RESONANCE PARAMETERS
94-PU-244		3	070-5	2,850-4	71 3109	13	RESONANCE PARAMETERS
95-AM-241		3	000-7	1,900-6	95 956	5	RESONANCE PARAMETERS
95-AM-241		3	050-7	4,325-5	61 1001	53	RESONANCE PARAMETERS
95-AM-241		3	060-7	1,504-5	66 1305	13	RESONANCE PARAMETERS
95-AM-241		3	060-7	1,700-5	59 948	25	RESONANCE PARAMETERS
95-AM-241		3	070-7	1,255-6	61 1215	3	RESONANCE PARAMETERS
95-AM-241		3	070-7	4,000-6	59 241	16	RESONANCE PARAMETERS
95-AM-241		3	100-7	1,504-5	65 1084	26	RESONANCE PARAMETERS
95-AM-241		3	176-6	1,491-4	75 3806	303	RESONANCE PARAMETERS
95-AM-241		1	922-6	2,325-5	64 1114	2	RESONANCE PARAMETERS
95-AM-242		1	730-7	3,250-6	67 1117	30	RESONANCE PARAMETERS
95-AM-243		-2	000-6	2,59-5	70 2097	44	RESONANCE PARAMETERS
95-AM-243		-2	000-6	2,497-4	72 3497	250	RESONANCE PARAMETERS
95-AM-243		1	070-8	1,530-5	59 1115	39	RESONANCE PARAMETERS
96-CM-243		1	490-6	2,584-5	71 2908	34	RESONANCE PARAMETERS
96-CM-243		1	490-6	2,564-5	72 3520	49	RESONANCE PARAMETERS
96-CM-244		-1	480-6	1,950-4	71 2908	14	RESONANCE PARAMETERS
96-CM-244		7	660-6	8,540-5	72 3520	21	RESONANCE PARAMETERS
96-CM-244		7	730-6	7,680-4	64 1978	30	RESONANCE PARAMETERS
96-CM-244		2	285-5	9,715-4	71 797	119	RESONANCE PARAMETERS
96-CM-245		1	950-6	2,930-5	72 3520	30	RESONANCE PARAMETERS
96-CM-245		1	955-6	5,028-5	71 2908	22	RESONANCE PARAMETERS
96-CM-245		2	135-5	5,999-5	71 797	52	RESONANCE PARAMETERS
96-CM-246		4	308-6	1,580-4	71 2908	5	RESONANCE PARAMETERS
96-CM-246		4	310-6	1,529-5	72 3520	6	RESONANCE PARAMETERS
96-CM-246		4	315-6	1,585-4	74 3622	11	RESONANCE PARAMETERS
96-CM-246		4	330-6	8,450-5	64 1978	6	RESONANCE PARAMETERS
96-CM-246		8	443-5	3,811-4	71 797	17	RESONANCE PARAMETERS
96-CM-247		2	130-5	5,966-5	71 797	58	RESONANCE PARAMETERS
96-CM-248		2	274-6	2,984-3	74 3622	11	RESONANCE PARAMETERS
96-CM-248		2	684-5	4,152-4	71 797	9	RESONANCE PARAMETERS
96-CM-249		1	030-7	1,682-5	72 3516	25	RESONANCE PARAMETERS
96-CM-249		1	620-5	6,930-5	72 3516	26	RESONANCE PARAMETERS

TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
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EC51L-7600 REACTION INDEX (REACTION NO. ORDERED)

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TARGET	CODE	S	E-MIN-MEV	E-MAX-MEV	REFERENCE	POINTS	REACTION DESCRIPTION
98-CF-252			2.455-	5	9.835-	4	71 3141 35 RESONANCE PARAMETERS

TARGET CODE S E-MIN-MEV E-MAX-MEV REFERENCE POINTS REACTION DESCRIPTION

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