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**Distribution of Fission Products in Peach Bottom
HTGR Fuel Element E01-01**

R. P. Wichner
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Printed in the United States of America. Available from
National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road, Springfield, Virginia 22161
Price. Printed Copy \$10.75; Microfiche \$3.00

11.75

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Contract No. W-7405-eng-26

CHEMICAL TECHNOLOGY DIVISION

HTGR BASE TECHNOLOGY PROGRAM
HTGR Chemistry Studies (189a 10001)

DISTRIBUTION OF FISSION PRODUCTS IN PEACH BOTTOM

HTGR FUEL ELEMENT E01-01

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Date Published: October 1978

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ABSTRACT

This is the fifth in a projected series of six postirradiation examinations of Peach Bottom High-Temperature Gas-Cooled Reactor driver fuel elements. The element analyzed in this report received an equivalent of 897 full-power days of irradiation prior to the scheduled termination of Core 2 operation.

The examination procedures emphasized the determination of fission product distributions in the graphite portions of the fuel element. Continuous axial scans indicated a ^{137}Cs inventory of 20.3 Ci in the graphite sleeve and 8.1 Ci in the spine at the time of element withdrawal from the core. In addition, the nuclides ^{134}Cs , ^{110m}Ag , ^{60}Co , and ^{154}Eu were found in the graphite portions of the fuel element in significant amounts. Radial distributions of these nuclides plus the beta-emitters ^3H , ^{14}C , and ^{90}Sr were obtained at four axial locations of the fueled region of the element sleeve and two axial locations of the element spine. The radial dissection was accomplished by use of a manipulator-operated lathe in a hot cell.

In addition to fission product distributions, the appearance of the component parts of the element was recorded photographically, fuel compact and graphite dimensions were recorded at numerous locations, and metallographic examinations of the fuel were performed.

1. INTRODUCTION

A series of postirradiation examinations of driver fuel elements withdrawn from the Peach Bottom High-Temperature Gas-Cooled Reactor (HTGR) is being undertaken as a part of a surveillance program for this reactor being carried out in conjunction with the General Atomic Company (GAC). The overall objective of the surveillance work is the verification of design

procedures used for predicting fission product and temperature distributions in an HTGR.

This report presents results of the examination of fuel element E01-01, which received 897 equivalent full-power days (EFPDs) of irradiation. Emphasis was placed on determining fission product distributions in the element, especially as a result of migration to the graphite sleeve and spine from the fuel compacts. Inventories of gamma-emitting nuclides in the fuel were obtained by scanning each of the 30 compacts individually. Distributions of gamma-emitting nuclides and the beta-emitters ^3H , ^{14}C , and ^{90}Sr were obtained for the graphite portions of the element by axial scanning and radial dissection in a hot cell.

In addition to the measurement of fission product distributions, examinations in the following general categories were performed:

1. The appearance of the component parts of the element was photographically recorded.
2. Critical dimensions, such as the inner and outer sleeve and fuel compact diameters, were measured. The recorded metrology data form an essential part of the effort to validate the predictive temperature codes for HTGRs.
3. Portions of four fuel compacts were examined metallographically.

The fuel element examination portion of the Peach Bottom Surveillance Program has included the postirradiation of six Peach Bottom HTGR fuel elements. Four of these have now been reported, including two for elements withdrawn prior to final reactor shutdown,^{1,2} and two for end-of-life elements,^{3,4} which experienced 900 EFPDs of service. The surveillance program at ORNL has also been concerned with the measurement of fission product distributions in the primary coolant circuit during the operation of Core 2, from 1971 through most of 1974. Results from these measurements have been reported previously.⁵

The General Atomic Company assisted in the examination work by providing engineering drawings of each fuel element and some financial support which enabled fabrication of improved hot-cell tools. The metrology work

was thereby greatly enhanced and expanded. General descriptive material regarding the construction and operation of driver element E01-01 was obtained from the Peach Bottom HTGR Final Hazards Summary Report,⁶ the Core 2 supplement to the FHSR,⁷ a report by Turner et al.⁸ which discussed the fuel performance of Core 2 after 630 EFPDs, and an internal GAC correspondence⁹ which details the irradiation exposure and the first estimate of the thermal history.

The authors gratefully acknowledge the support provided by the Analytical Chemistry Division, particularly to personnel in the Reactor Projects group headed by D. A. Costanzo and the Radiochemical Analyses Group headed by R. R. Rickard. J. L. Botts developed the useful method for determining failed particle fractions of fuel compact samples. Hugh Parker and P. S. Gouge performed the beta-emitter analyses on the graphite samples. L. D. Bible and W. F. Rogers skillfully operated the lathe to acquire the radial graphite specimen in a hot cell by using procedures established by L. C. Bate.

In this report, as well as previous reports in this series dealing with surveillance of fission products in the Peach Bottom Reactor, the efforts of Betty Drake, who has typed and retyped, arranged, and rearranged both text and tables, are sincerely appreciated.

2. FUEL-ELEMENT DESCRIPTION

2.1 Design Dimensions and Specifications

Element E01-01 was classified according to the Peach Bottom FHSR⁶ as a type 1 (heavy rhodium), instrumented fuel element. As such, its middle 18 fuel compacts contained burnable poison (1.03 g of rhodium per compact); the top three and bottom nine compacts were of the standard variety containing no rhodium. The element was similar to element F03-01⁴ in all respects except that E01-01 was not instrumented with thermocouples. The reader is referred to ref. 2 for structural details and assembly drawings of the element and to ref. 1 for an account of the composition of fuel compacts, graphite specifications, and description of the BISO-coated fuel particles used in the element. The location and manner of installation of the thermocouples are shown for a typical instrumented element in ref. 3.

Trace levels of chemical elements, which could be of significance in the interpretation of observed radionuclide distributions in the graphite, were measured in archive sleeve graphite. These results are also given in refs. 1 and 2.

By referring to Fig. 2.1 of ref. 1, one may note the location of element E01-01 in the F sector, near the center of the Peach Bottom core. Beginning-of-life (BOL) and end-of-life (EOL) heavy-metal contents of element F03-01, calculated with the GAUGE code, are given in Table 2.1-1.

2.2 Operating History

The operation of element E01-01 began at the startup of core 2 on July 15, 1970, and ceased on October 31, 1974, at the end of core life. An approximation of the power history of core 2 is given in Table 2.2-1.⁹ Using a rated full-power level of 115.5 MW(t) indicates that this fuel element, like element E14-01 reported in ref. 3, experienced 897 EFPDs of operation. It should be noted that element E06-01 was removed from the reactor (384 EFPDs) during the 162-day shutdown period, and element E11-07 was removed (701 EFPDs) during the 114-day shutdown. Results of the post-irradiation examinations of these fuel elements are reported in refs. 1 and 2 respectively.

3. PHOTOGRAPHIC DESCRIPTION AND METROLOGY

3.1 Visual and Photographic Examination

Element E01-01 was visually examined before and during dissection, and representative normal features and appearances were noted and photographed. In addition, all abnormal features, such as compact cracks and graphite spallation, were photographically recorded.

The principal tool used in the disassembly of the element, which followed completion of the external examination, was the remotely operated hacksaw. This saw was designed for operation by hot-cell manipulators to cut partially through the graphite sleeve without damaging the fuel compacts. Following an initial partial cut, the element was rotated to accomplish a

Table 2.1-1. Heavy metal loadings for E01-01

Nuclide	Beginning-of-life (0.0 EFPD) nuclide weights (g)	End-of-life (897.3 EFPDs) nuclide weights (g)
^{232}Th	1373.757	1311.76
^{231}Pa	0	0.008
$^{233}\text{U}^{\text{a}}$	0	34.40
^{234}U bred	0	3.524
^{235}U bred	0	0.493
^{234}U fed	3.743	2.338
^{235}U fed	232.456	87.520
^{236}U	1.248	28.66
^{238}U	12.103	10.28
^{237}Np	0	2.52
^{238}Pu	0	-
$^{239}\text{Pu}^{\text{b}}$	0	0.29
^{240}Pu	0	0.10
^{241}Pu	0	0.16

^aIncludes ^{233}Pa .

^bIncludes ^{239}Np .

Table 2.2-1. Approximate power history of Peach Bottom Reactor
during operation with fuel element E01-01^a

Date	Core power [MW(t)]	Time at power (days)	Equivalent full- power days (EFPDs)	Cumulative EFPDs
July 15, 1970				
	108	92	27	0
	107	39	36	27
	92	7	6	63
	109	141	133	202
	96	60	50	252
	Shutdown	80	0	252
	94	56	46	298
	93	56	45	343
	Shutdown	22	0	343
	103	47	42	385
	Shutdown	162	0	385
	91	146	115	500
	Shutdown	46	0	500
	92	81	64	564
	103	52	46	610
	Shutdown	20	0	610
	106	99	91	701
	Shutdown	114	0	701
	107	51	47	748
	92	50	40	788
	92	37	30	818
	Shutdown	38	0	818
	65	30	17	835
	92	29	23	858
	79	47	32	890
	67	12	7	897
Oct. 30, 1974				

^aFrom ref. 9.

complete peripheral cut of the sleeve. Four such cuts through the sleeve were made at compact locations 1, 11, 21, and 30, allowing complete fuel element disassembly.

No photographs were made of the exterior of the element. The region around the standoff rings (which create the contact points between adjacent elements) were cleaner than on previous elements examined. The top reflector had accumulated a very heavy soot deposit.*

The compacts were canned in groups of ten, placed in a nitrogen atmosphere, and transferred to the High-Radiation-Level Examination Laboratory (HRLEL) for gamma scanning, metrology, and photography. After the compacts had been removed from the sleeve, 1/2-in.-long sleeve specimens were cut at four compact locations for radial sample acquisition.

Figures 3.1-1 through 3.1-18 document the appearance of fuel compacts and spine upon disassembly. The first two figures (Figs. 3.1-1 and 3.1-2) illustrate the top of the fuel element from compact locations 1 through 10 in groups of three to four compacts and associated spine. Figures 3.1-3 and 3.1-4 show four close-up views of compact 1, and Figs. 3.1-5 and 3.1-6 show similar views of compact 9. A small crack is visible in the top view of compact 9.

A similar sequence of photographs, shown in Figs. 3.1-7 through 3.1-10, records the appearance of the central set of ten fuel compacts and associated spine. Figures 3.1-7 and 3.1-8 show the appearance directly upon disassembly, whereas the remaining photographs in this sequence are close-up views obtained in the HRLEL at a somewhat later date. A hairline crack in compact 18 may be noted. Figure 3.1-11 shows the degradation of thermocouple "B" in the spine groove and also spallation of the spine opposite compacts 9 and 10.

Figures 3.1-12 through 3.1-17 show various views of compacts 21 through 30 and associated spine. The first four figures in this group illustrate these compacts in groups of three directly on removal from the sleeve.

* An examination of soot deposits taken from two driver elements is reported in Sect. 5 of ref. 5.

Fig. 3.1-1. Appearance of compacts 1, 2, 3 (top) and 4, 5, 6 (bottom) with adjacent spine.

Fig. 3.1-2. Appearance of compacts 7, 8, 9 (top) and 8, 9, 10 (bottom) with adjacent spine.

Fig. 3.1-3. View from top (upper figure) and bottom (lower figure) of compact 1.

Fig. 3.1-4. Two side views of compact 1. (White spot caused by marker pen.) Note machine grooves and exposed fuel particles.

Fig. 3.1-5. View from top (upper figure) and bottom (lower figure) of compact 9. Note radial crack in top view.

Fig. 3.1-6. Two side views of compact 9. Machining grooves and exposed fuel particles are visible.

Fig. 3.1-7. Appearance of compacts 11, 12, 13 (top) and 14, 15, 16 (bottom) with adjacent spine. Note thermocouple groove in spine piece.

Fig. 3.1-8. Appearance of compacts 17, 18, 19 (top) and 18, 19, 20 (bottom) with adjacent spine. Note thermocouple groove in spine piece.

Fig. 3.1-9. View from top (upper figure) and bottom (lower figure) of compact 18. Note radial cracks.

Fig. 3.1-10. Two side views of compact 18. Note marked pitting and exposed fuel particles.

Fig. 3.1-11. Spine surface at compact 9 (upper figure) and compact 18 (lower figure). Note thermocouple degradation in the groove at compact 9. Magnification 10X.

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Fig. 3.1-12. Appearance of compacts 21, 22, 23 (top) and 24, 25, 26 (bottom) with associated spine.

Fig. 3.1-13. Appearance of compacts 27, 28, 29 (top) and 28, 29, 30 (bottom) with associated spine.

Fig. 3.1-14. View from top (upper figure) and bottom (lower figure) of compact 24.

Fig. 3.1-15. Two side views of compact 24. Note exposed fuel particles.

Fig. 3.1-16. View from top (upper figure) and bottom (lower figure) of compact 30.

Fig. 3.1-17. Two side views of compact 30. Note machining grooves and exposed fuel particles.

Figure 3.1-18 shows an enlarged view of spallation of the spine at compact locations 21, 22, and 23.

3.2 Metrology of Sleeve, Spine, and Fuel Compacts

No preirradiation dimensional measurements of fuel element E01-01 were made. The results of postirradiation measurements, summarized in Tables 3.2-1 through 3.2-5, include: (1) the outside and inside diameters of the sleeve at five axial locations; (2) the diameters of the spine pieces at each of three locations; (3) the length of each spine piece; (4) the outside diameters, inside diameters, and wall thicknesses of five fuel compacts in four different planes; and (5) the lengths of the 30 fuel compacts. The reader is directed to ref. 3 for an account of the metrology methods that were used for element E01-01.

Table 3.2-1 presents the dimensions of the sleeve, including outer diameter, wall thickness, and inner diameter, determined at locations adjacent to compacts 1, 9, 18, 24, and 30. The outer diameters and wall thicknesses were measured at four azimuthal orientations, separated by 90° , using procedures described in ref. 3; the measured values and their means are tabulated. It should be noted that the use of the "curvature gauge" for measuring the outer diameter of a cylinder yields a value for the diameter at each orientation measured. Thus it is possible to have two estimates of the diameter from the 0° to the 180° azimuths and two estimates across the 90° to 270° azimuths, as are given in Table 3.2-1 for the sleeve.

Although it was not known whether the inside circumference of the sleeve was circular, inside diameters were derived by a method of triangulation which made use of the locations of the four points on the assumed inside circumference that were derived from the wall thickness measurements. These measured diameters and the mean diameter are given in Table 3.2-1. The differences between individual diameters and the mean show that the inside circumference is nearly circular at the five axial locations examined.

Fig. 3.1-18. Spine surface showing spallation in the region of compacts 21 to 23. Magnification 10X.

Table 3.2-1. Cross-sectional dimensions of E01-01 sleeve

Location, compact		Mean (in.)	Percent difference ^a	Dimension (in.) at indicated orientation of: ^b			
				0°	90°	180°	270°
1	OD	3.480	-0.1	3.480	3.478	3.482	3.479
	Wall	0.366	-0.1	0.365	0.358	0.366	0.376
	ID	2.747	-0.2	2.749	2.746	2.749	2.746
9	OD	3.471	-0.4	3.467	3.471	3.471	3.475
	Wall	0.366	-0.0	0.369	0.361	0.365	0.370
	ID	2.738	-0.5	2.737	2.739	2.737	2.739
18	OD	3.469	-0.5	3.468	3.472	3.465	3.472
	Wall	0.366	-0.2	0.374	0.356	0.360	0.373
	ID	2.738	-0.52	2.736	2.740	2.736	2.740
24	OD	3.467	-0.5	3.467	3.467	3.465	3.467
	Wall	0.365	-0.5	0.374	0.360	0.356	0.370
	ID	2.737	-0.5	2.737	2.737	2.737	2.737
30	OD	3.477	-0.2	3.476	3.478	3.477	3.478
	Wall	0.366	-0.2	0.370	0.364	0.362	0.367
	ID	2.746	-0.2	2.745	2.746	2.745	2.746

^aNumbers represent the change from nominal preirradiation values, which were: OD = 3.485 in., wall = 0.367 in., and ID = 2.752 in.

^bZero degree denotes plane of loading mark on sleeve.

Table 3.2-2. Diameter and length of E01-01 spines

Spine section	Location within section	Diameter (in.)		Percent difference
		Nominal preirradiation	Postirradiation	
Bottom	Top	1.688	1.655	-2.0
	Middle		1.650	-2.2
	Bottom		1.647	-2.4
Middle	Top	1.688	1.667	-1.2
	Middle		1.671	-1.0
	Bottom		1.676	-0.7
Top	Top	1.665	1.672	0.4
	Middle		1.675	0.6
	Bottom		1.680	0.9

		Length (in.)		
Bottom		29.81	29.354	-1.5
Middle		29.81	28.837	-3.3
Top		30.00	29.532	-1.6

Table 3.2-3. Inside and outside diameters of E01-01 fuel compacts

Compact		Outside diameter (in.) ^a		Percent difference ^b	Inside diameter (in.) ^a		Percent difference ^b
		0°	90°		0°	90°	
1	Bottom	2.730	2.733		1.741	1.743	
	Middle	2.726	2.726		1.735	1.738	
	Top	2.727	2.727		1.737	1.739	
	Mean	2.728	± 0.003	-0.5	1.739	± 1.739	-0.6
9	Bottom	2.652	2.683		1.683	1.717	
	Middle	2.637	2.670		1.678	1.710	
	Top	2.642	2.671		1.683	1.712	
	Mean	2.659	± 0.018	-3.1	1.697	± 0.017	-3.0
18	Bottom	2.643	2.638		1.694	1.696	
	Middle	2.634	2.631		1.683	1.677	
	Top	2.642	2.670		1.680	1.696	
	Mean	2.643	± 0.014	-3.6	1.688	± 0.008	-3.5
24	Bottom	2.670	2.673		1.694	1.699	
	Middle	2.668	2.675		1.696	1.703	
	Top	2.679	2.683		1.706	1.709	
	Mean	2.675	± 0.006	-2.5	1.701	± 0.006	-2.8
30	Bottom	2.705	2.707		1.718	1.719	
	Middle	2.703	2.707		1.717	1.723	
	Top	2.719	2.718		1.728	1.728	
	Mean	2.710	± 0.007	-1.2	1.722	± 0.005	-1.6

^aZero degree denotes plane of element loading number.

^bPercent difference refers to the change from the preirradiation nominal values, which were: OD = 2.743 in., ID = 1.750 in.

Table 3.2-4. Wall thicknesses of E01-01 fuel compacts

Compact	Location	Wall thickness (in.) at azimuth of:			
		0° ^a	90°	180°	270°
1	Top	0.4968	0.4937	0.4931	0.4949
	Middle	0.4953	0.4939	0.4951	0.4940
	Bottom	0.4938	0.4934	0.4953	0.4969
9	Top	0.4803	0.4835	0.4789	0.4750
	Middle	0.4806	0.4848	0.4783	0.4754
	Bottom	0.4875	0.4834	0.4811	0.4824
18	Top	0.4806	0.4810	0.4733	0.4922
	Middle	0.4742	0.4756	0.4770	0.4782
	Bottom	0.4757	0.4787	0.4737	0.4734
24	Top	0.4813	0.4809	0.4917	0.4934
	Middle	0.4849	0.4808	0.4874	0.4907
	Bottom	0.4905	0.4792	0.4853	0.4941
30	Top	0.4917	0.4927	0.4993	0.4969
	Middle	0.4898	0.4841	0.4964	0.4996
	Bottom	0.4912	0.4896	0.4951	0.4990

^aZero degree denotes the plane of fuel element loading mark.

Table 3.2-5. Length of E01-01 fuel compacts

Compact	Postirradiation length ^a (in.)	Compact	Postirradiation length ^a (in.)
1	3.0092	16	3.0372
2	2.9985	17	3.0335
3	2.9532	18	3.0588
4	2.9804	19	2.9881
5	3.0342	20	Broken
6	3.0399	21	3.0294
7	3.0228	22	3.0484
8	2.9979	23	3.0351
9	2.9918	24	2.9938
10	2.9853	25	3.1287
11	2.9778	26	2.9210
12	2.9666	27	2.9876
13	3.0402	28	3.0245
14	3.0479	29	3.0373
15	2.9880	30	2.9766

^aLength measurement at 0° azimuth.

The values given under the "Percent difference" column of Table 3.2-1 pertain to the difference between the nominal preirradiation and the post-irradiation dimensions. The results indicate that both the outside diameter and the inside diameter decreased during irradiation, leaving the wall thickness essentially unchanged.

The diameters of the spine pieces as determined with a curvature gauge (see ref. 3) are presented in Table 3.2-2. As can be seen, the diameter of the bottom and middle spine pieces diminished from 0.7 to 2.4% while the diameter of the top spine piece increased slightly. The lengths of the spine pieces are given in the lower portion of Table 3.2-2. The lengths are ~ 1.5 to 3.3% less than the nominal lengths of unirradiated spines.

Measurements of the inside and outside diameters of fuel compacts 1, 9, 18, 24, and 30 are presented in Table 3.2-3. Diameters were determined at three locations: bottom, middle, and top, each at 0° and 90° azimuths. Means and standard deviations, computed for each of the six measurements, are also listed in the table. The difference between the nominal pre-irradiation and postirradiation dimensions indicates that both the outside and inside diameter decreased from $\sim 1.0\%$ on the ends of the element to $\sim 3.5\%$ in the middle.

The wall thicknesses of compacts 1, 9, 18, 24, and 30 are given in Table 3.2-4; the procedures and apparatus used are described in ref. 3. Twelve measurements were made on each compact. A comparison of the mean measured wall thicknesses with the nominal value for unirradiated compacts (0.496 in.) indicates that the wall thicknesses decreased by $\sim 2.7\%$ in the middle of the fuel element.

The lengths of all the compacts except 20 (which was broken) were measured, and the results are given in Table 3.2-5. Comparison with nominal preirradiation dimension of 3.000 in. indicates that these lengths may have increased slightly during irradiation.

4. DISTRIBUTION OF GAMMA-EMITTING RADIONUCLIDES

4.1 Methods and Procedures

The procedures used for obtaining axial and radial distributions of radionuclides in the spine and sleeve and for determining the inventories of radionuclides in the fuel compacts are described in Sect. 4 of ref. 2.

4.2 Axial Distributions

4.2.1 Fuel compacts

Eight gamma-emitting radionuclides, ^{95}Zr , ^{103}Ru , ^{106}Ru , ^{125}Sb , ^{134}Cs , ^{137}Cs , ^{144}Ce , and ^{154}Eu , were detected and measured in the fuel. Niobium-95, the daughter of ^{95}Zr was also detected, but its inventory was not derived. Table 4.2-1 lists the measured inventories of the eight radionuclides for each fuel compact. These data consist of means and standard deviations based on four observations per compact. Two observations (gamma spectra) were made at the bottom and in the middle of the compacts in the 0° plane; and two, top and middle, were made in the 90° plane. Values of the standard deviations of individual observations based on counting statistics are not given in Table 4.2-1; however, they are roughly summarized in Table 4.2-2 of ref. 4. The inventories of the individual radionuclides in the total fuel are given at the bottom of each column in Table 4.2-1.

Figures 4.2-1 through 4.2-4 illustrate the axial distributions of the gamma-emitter inventories per compact. The error bars shown are the one-sigma errors, expressed as curies per compact, computed from the percent relative standard deviations given in Table 4.2-1. The gamma-emitter inventories normalized to the inventories of ^{95}Zr are plotted in Figs. 4.2-5 through 4.2-7. Since the isotope ^{95}Zr is known to be immobile in Peach Bottom fuel throughout the range of conditions observed thus far, the inventory distribution of other fission products normalized to ^{95}Zr would provide strong evidence as to whether that particular isotope had experienced significant gross movement during irradiation service.

Table 4 2 1 Fission product inventories in E01-01 fuel compacts as of October 31, 1974
(curies per compact at end of life)

Compact	⁹⁵ Zr			¹⁰³ Ru			¹⁰⁶ Ru			¹²⁵ Sb			¹³⁴ Cs			¹³⁷ Cs			¹⁴⁴ Ce			¹⁵⁴ Eu		
	Mean	%	RSD ^a	Mean	%	RSD ^a	Mean	%	RSD ^a	Mean	%	RSD ^a	Mean	%	RSD ^a	Mean	%	RSD ^a	Mean	%	RSD ^a	Mean	%	RSD ^a
1	1.02E+02	2.6		3.07E+01	15.2		5.32E+00	6.4		2.70E-01	44.1		6.88E+00	0.8		9.22E+00	0.5		6.37E+01	2.6		1.59E-01	2.3	
2	1.16E+02	1.0		3.67E+01	10.4		5.79E+00	10.7		2.07E-01	14.5		1.02E+01	0.1		1.08E+01	0.1		7.48E+01	6.1		1.99E-01	24.5	
3	1.28E+02	5.6		3.59E+01	13.7		6.32E+00	1.5		2.91E-01	30.6		1.87E+01	2.1		1.55E+01	1.6		7.68E+01	9.7		2.51E-01	1.6	
4	1.37E+02	2.4		3.59E+01	13.7		6.27E+00	6.0		2.91E-01	30.6		3.19E+01	2.3		2.23E+01	1.8		8.38E+01	5.4		2.60E-01	6.3	
5	1.36E+02	2.8		3.59E+01	13.7		6.16E+00	1.5		2.91E-01	30.6		3.72E+01	7.1		2.47E+01	5.1		8.88E+01	7.1		2.00E-01	50.6	
6	1.43E+02	9.8		3.59E+01	13.7		7.32E+00	4.6		2.91E-01	30.6		3.53E+01	7.3		2.32E+01	5.5		9.26E+01	16.1		2.62E-01	72.0	
7	1.61E+02	0.6		3.59E+01	13.7		7.61E+00	0.9		2.91E-01	30.6		3.51E+01	9.0		2.24E+01	7.5		9.48E+01	8.9		2.91E-01	79.0	
8	1.52E+02	0.9		3.59E+01	13.7		5.25E+00	62.5		2.91E-01	30.6		4.66E+01	4.9		2.85E+01	4.2		8.36E+01	0.7		1.45E-01	16.6	
9	1.78E+02	2.1		3.59E+01	13.7		7.72E+00	1.9		3.77E-01	8.9		2.79E+01	16.7		1.79E+01	14.0		1.03E+02	0.4		2.88E-01	14.0	
10	1.86E+02	3.3		3.59E+01	13.7		9.55E+00	0.5		4.42E-01	28.1		2.39E+01	0.1		1.56E+01	1.5		1.12E+02	6.8		3.20E-01	6.4	
11	1.84E+02	4.2		3.90E+01	5.8		9.02E+00	0.7		4.42E-01	28.1		2.96E+01	2.0		1.84E+01	1.2		1.08E+02	2.0		3.92E-01	31.0	
12	1.81E+02	3.3		3.90E+01	5.8		8.18E+00	7.4		4.42E-01	28.1		3.07E+01	9.8		1.90E+01	9.3		1.00E+02	11.1		4.29E-01	16.1	
13	1.94E+02	2.1		3.90E+01	5.8		9.61E+00	11.7		5.73E-01	10.7		1.61E+01	0.1		1.10E+01	0.9		1.20E+02	0.2		4.15E-01	11.7	
14	2.10E+02	4.4		4.02E+01	1.7		1.06E+01	20.6		7.63E-01	19.2		9.51E+00	3.1		7.75E+00	0.8		1.30E+02	9.0		4.15E-01	11.7	
15	2.04E+02	4.6		4.55E+01	18.1		1.04E+01	7.9		6.79E-01	4.2		1.19E+01	10.9		8.92E+00	8.9		1.24E+02	2.9		2.56E-01	38.1	
16	2.02E+02	0.1		5.32E+01	4.9		1.09E+01	0.6		7.57E-01	29.1		7.12E+00	6.1		6.46E+00	1.7		1.29E+02	1.6		2.56E-01	38.1	
17	2.03E+02	3.2		5.32E+01	4.9		1.10E+01	8.7		6.74E-01	15.1		7.01E+00	2.6		6.44E+00	1.6		1.26E+02	0.2		2.47E-01	19.2	
18	2.02E+02	1.7		4.31E+01	39.3		1.08E+01	5.6		7.52E-01	1.2		6.08E+00	1.3		5.95E+00	1.1		1.26E+02	4.3		2.06E-01	5.1	
19	2.07E+02	1.2		4.31E+01	39.3		1.16E+01	2.0		9.14E-01	13.7		5.25E+00	2.2		5.58E+00	0.9		1.34E+02	2.3		2.06E-01	5.1	
20	1.88E+02	2.5		6.03E+01	12.3		1.01E+01	1.7		7.99E-01	0.3		5.03E+00	1.0		5.35E+00	1.3		1.21E+02	0.3		2.06E-01	5.1	
21	2.07E+02	3.7		6.53E+01	16.7		1.11E+01	4.6		6.95E-01	12.9		4.98E+00	12.3		5.52E+00	9.2		1.24E+02	4.9		2.06E-01	5.1	
22	1.98E+02	5.3		5.20E+01	15.0		1.08E+01	8.5		8.14E-01	12.8		5.62E+00	0.1		5.75E+00	7.2		1.20E+02	9.5		2.06E-01	5.1	
23	1.85E+02	2.3		5.25E+01	16.2		9.80E+00	0.7		6.32E-01	1.4		5.93E+00	4.0		5.78E+00	0.9		1.15E+02	0.7		1.59E-01	16.5	
24	1.86E+02	3.7		6.24E+01	8.8		9.55E+00	4.0		5.88E-01	2.3		8.48E+00	4.0		7.24E+00	1.6		1.13E+02	2.3		2.89E-01	16.1	
25	1.77E+02	4.7		7.42E+01	15.0		9.23E+00	2.5		4.64E-01	40.6		8.62E+00	6.0		7.50E+00	3.4		1.11E+02	9.3		3.05E-01	7.5	
26	1.65E+02	2.5		4.83E+01	6.4		8.31E+00	9.5		4.64E-01	40.6		1.12E+01	3.0		9.48E+00	0.7		9.99E+01	8.9		3.32E-01	4.4	
27	1.65E+02	0.5		4.91E+01	4.0		8.80E+00	9.4		4.68E-01	2.8		1.21E+01	2.7		1.07E+01	1.7		9.68E+01	3.6		3.19E-01	12.0	
28	1.44E+02	2.0		4.91E+01	4.0		7.59E+00	1.7		4.52E-01	18.7		1.17E+01	0.8		1.12E+01	0.7		8.69E+01	5.9		2.74E-01	37.2	
29	1.30E+02	2.0		3.66E+01	13.6		6.35E+00	3.4		4.72E-01	12.1		9.49E+00	2.4		1.03E+01	2.8		8.13E+01	1.8		2.13E-01	3.3	
30	1.23E+02	2.3		4.33E+01	10.5		7.04E+00	0.6		3.41E-01	37.3		7.92E+00	0.4		9.97E+00	0.1		7.99E+01	8.0		2.03E-01	9.9	
SUM	5.10E+03			1.34E+03			2.58E+02			1.52E+01			4.88E+02			3.69E+02			3.13E+03			7.92E+00		

^a RSD = percent relative standard deviation

Fig. 4.2-1. Inventories of ^{95}Zr and ^{144}Ce (Ci per compact) as of October 31, 1974.

ORNL DWG 77-946

Fig. 4.2-2. Inventories of ^{103}Ru and ^{106}Ru (Ci per compact) as of October 31, 1974.

Fig. 4.2-3. Inventories of ^{125}Sb and ^{154}Eu (Ci per compact) as of October 31, 1974.

Fig. 4.2-4. Inventories of ^{134}Cs and ^{137}Cs (Ci per compact) as of October 31, 1974.

ORNL DWG 77-952

Fig. 4.2-5. Inventory ratios of $^{144}\text{Ce}/^{95}\text{Zr}$ and $^{106}\text{Ru}/^{95}\text{Zr}$ in fuel compacts as of October 31, 1974.

ORNL DWG 77-954

Fig. 4.2-6. Inventory ratios of $^{125}\text{Sb}/^{95}\text{Zr}$ and $^{154}\text{Eu}/^{95}\text{Zr}$ in fuel compacts as of October 31, 1974.

Fig. 4.2-7. Inventory ratios of $^{134}\text{Cs}/^{95}\text{Zr}$ and $^{137}\text{Cs}/^{95}\text{Zr}$ in fuel compacts as of October 31, 1974.

The normalized inventory distributions of ^{144}Ce and ^{106}Ru (shown in Fig. 4.2-5) indicate that no significant redistribution of these nuclides occurred. Generally, the inventory distributions of these nuclides roughly correspond to the neutron fluence experienced by the element. Because the $^{233}\text{U}/^{235}\text{U}$ ratio was larger in the central region of the element than at the ends, differences in the yields of fission products from these nuclides would slightly influence the inventory distributions. The softening of the neutron energy spectrum near the ends of the element might also affect the distributions. Some of the scatter in the inventory profiles may result from variations in the number of fuel particles per unit volume of fuel compact. Much of the scatter, particularly in the case of the nuclides ^{103}Ru , ^{125}Sb , and ^{154}Eu (Figs. 4.2-2 and 4.2-3), is due to the poor counting statistics.

The inventories of ^{134}Cs and ^{137}Cs shown in Fig. 4.2-4, as well as their normalization to ^{95}Zr shown in Fig. 4.2-7, indicate that both isotopes underwent significant redistribution during irradiation. As was pointed out in ref. 2, the distribution of the $^{137}\text{Cs}/^{95}\text{Zr}$ activity ratio (barring such minor effects as differences in fission yields between ^{233}U and ^{235}U) would be uniform if ^{137}Cs were not released from the fuel compacts. Cesium-134, which is formed by two successive neutron reactions (first, fission to produce ^{133}Cs , and, then, capture) has a profile that would, if no redistribution occurred, roughly follow the square of the neutron flux. It follows that the profile of the $^{134}\text{Cs}/^{95}\text{Zr}$ ratio would parallel the neutron flux distribution. The relationship of the epithermal and thermal-neutron capture cross sections of ^{133}Cs is similar to that of ^{232}Th ; thus the neutron energy spectrum probably also affects the ^{134}Cs distribution to a significant extent. The dip in the $^{137}\text{Cs}/^{95}\text{Zr}$ ratio in the region roughly from compact 14 to compact 30 and the rise in the ratio from compact 1 to about compact 14 indicate that cesium moved from the upper to the lower part of the fuel. It is believed that cesium, vaporized in the higher-temperature regions, was transported by the purge gas to cooler regions where it condensed on the fuel and graphite components.

4.2.2 Sleeve, spine, and bottom connector

The sleeve was cut into three pieces, each about 30 in. long (corresponding to the three manufactured sections of the spine) and scanned axially in two planes 90° apart. The spine pieces and bottom connector were similarly measured. Spectra acquired at 0.2459-in. intervals along each plane were analyzed in terms of curies per an equivalent 3 in. of length. Eight nuclides, ^{60}Cs , ^{106}Ru , $^{110\text{m}}\text{Ag}$, ^{125}Sb , ^{134}Cs , ^{137}Cs , ^{144}Ce , and ^{154}Eu , were detected and measured.

These results are listed in Tables A-1 through A-18 in Appendix A. Both the observed inventory per 3 in. of length and the standard deviation based on counting statistics at each location are given. In these tables the designation (****), which appears frequently in the standard deviation column, signifies that no direct observation of the isotope was made at the particular location, and that the given inventory value is merely the upper limit which could exist there without detection. If the observed count rates in three channels on either side of a photopeak were less than three standard deviations above the base line, established by the count rate at each end of the six-channel width, then the photopeak was judged to be "not detected." The listed "upper-limit value" was then calculated, assuming a photopeak count rate equal to the maximum, nondetectable value of three standard deviations above the base line. For the sleeve and spine, the values tabulated under the column labeled as "Distance" represent the distance from the bottom of fuel compact 1; in the case of the bottom reflector, distance is measured from the bottom of the fuel element.

Tables 4.2-2 and 4.2-3 list the observed inventories for the sleeve and spine, respectively, expressed as curies per 3-in. segment corresponding to the length of a fuel compact. These data were derived from the gamma scan data given in Appendix A. Inventory values per 3-in. segment were obtained, for each plane that was measured, by apportioning the total number of scan points, normally about 264 along a plane, into 30 groups. Each group corresponded nominally to 12 scan points, although a few corresponded to 13 points. Because some of the data in Appendix A represented upper limits (as described above) rather than real measured values, the

Table 4.2-2. Axial distribution of gamma emitters in the sleeve of element E01-01
(curies/compact length, October 31, 1974)

Compact	⁶⁰ Co						¹⁰⁶ Ru					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	3.62E-04	41.9	12	3.45E-04	29.9	12	5.13E-03	124.3	6	4.55E-03	93.1	3
2	4.87E-04	8.8	12	4.01E-04	13.4	12	1.93E-03	92.8	2	1.34E-03	99.0	0
3	3.68E-04	12.6	12	4.01E-04	10.9	12	5.98E-03	99.0	0	4.90E-03	99.0	0
4	4.93E-04	28.1	11	4.74E-04	53.0	12	2.66E-02	99.0	0	9.09E-03	99.0	0
5	5.09E-04	28.4	13	1.18E-03	16.4	12	5.78E-02	99.0	0	4.68E-02	99.0	0
6	6.88E-04	10.4	11	1.20E-03	14.7	12	6.98E-02	99.0	0	6.76E-02	99.0	0
7	8.53E-04	18.5	9	1.24E-03	28.9	11	8.84E-02	99.0	0	8.68E-02	99.0	0
8	8.29E-04	18.9	8	1.17E-03	20.6	12	8.81E-02	99.0	0	1.00E-01	99.0	0
9	1.17E-03	23.2	8	1.39E-03	21.5	9	1.13E-01	99.0	0	1.21E-01	99.0	0
10	1.58E-03	20.8	12	1.58E-03	26.3	13	1.06E-01	99.0	0	1.19E-01	99.0	0
11	1.69E-03	32.1	9	1.59E-03	52.2	6	1.13E-01	99.0	0	1.39E-01	99.0	0
12	1.53E-03	28.7	8	1.63E-03	17.8	8	1.37E-01	99.0	0	1.57E-01	99.0	0
13	2.26E-03	26.1	10	2.61E-03	34.5	12	1.34E-01	99.0	0	1.55E-01	99.0	0
14	2.66E-03	32.5	12	2.72E-03	21.3	12	1.36E-01	99.0	0	1.47E-01	99.0	0
15	3.08E-03	33.0	12	5.34E-03	37.6	13	1.47E-01	99.0	0	1.70E-01	99.0	0
16	4.89E-03	23.7	12	6.03E-03	29.8	12	1.09E-01	99.0	0	1.42E-01	99.0	0
17	8.00E-03	34.2	12	1.15E-02	37.2	12	1.05E-01	99.0	0	1.20E-01	99.0	0
18	8.61E-03	18.7	12	7.92E-03	12.5	12	1.27E-01	18.9	2	1.01E-01	99.0	0
19	7.98E-03	15.3	12	1.08E-02	13.4	12	8.37E-02	99.0	0	8.05E-02	99.0	0
20	7.95E-03	14.1	13	9.06E-03	9.2	13	7.05E-02	99.0	0	7.05E-02	99.0	0
21	8.23E-03	28.5	12	6.14E-03	26.5	12	5.10E-02	99.0	0	5.61E-02	99.0	0
22	8.70E-03	21.4	12	7.31E-03	20.8	12	4.42E-02	99.0	0	5.24E-02	99.0	0
23	1.24E-02	31.5	12	7.79E-03	25.2	12	1.85E-02	99.0	0	2.45E-02	99.0	0
24	4.16E-03	23.3	12	3.13E-03	37.3	12	1.64E-02	99.0	0	1.73E-02	99.0	0
25	4.19E-03	21.8	13	3.10E-03	21.9	13	1.10E-02	99.0	0	1.09E-02	99.0	0
26	3.35E-03	18.4	12	2.62E-03	19.0	12	8.40E-03	37.1	1	1.06E-02	35.3	1
27	2.79E-03	31.9	12	3.01E-03	58.2	12	4.33E-03	99.0	0	4.25E-03	25.9	1
28	1.69E-03	11.5	12	1.56E-03	17.3	12	1.54E-03	99.0	0	2.15E-03	36.9	1
29	8.80E-04	16.1	12	7.31E-04	14.6	12	7.83E-04	30.0	2	7.61E-04	32.4	4
30	4.80E-04	13.1	13	4.65E-04	9.9	13	6.79E-04	23.5	10	6.14E-04	19.7	12
SUM ^c	1.02E-01			1.04E-01			1.88E+00			2.02E+00		

Table 4.2-2 (continued)

Compact	^{110m} Ag						¹²⁵ Sb					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	1.08E-04	99.0	0	8.95E-05	99.0	0	5.06E-04	101.8	4	4.43E-04	54.5	2
2	5.49E-04	75.4	3	1.04E-04	10.8	2	2.90E-04	99.0	0	2.41E-04	99.0	0
3	1.67E-03	26.9	1	1.24E-03	18.0	2	9.91E-04	99.0	0	8.35E-04	99.0	0
4	9.67E-03	0.7	2	2.39E-03	34.0	1	1.25E-02	35.2	1	1.63E-03	99.0	0
5	1.65E-02	40.5	9	1.21E-02	58.2	4	1.12E-02	99.0	0	9.59E-03	99.0	0
6	2.88E-02	79.3	12	2.33E-02	65.9	10	1.34E-02	99.0	0	1.37E-02	99.0	0
7	3.73E-02	21.3	12	2.98E-02	41.2	12	1.67E-02	99.0	0	1.71E-02	99.0	0
8	3.59E-02	83.5	12	4.93E-02	36.7	12	1.67E-02	99.0	0	1.94E-02	99.0	0
9	3.52E-02	20.9	12	2.58E-02	34.0	9	2.12E-02	99.0	0	2.29E-02	99.0	0
10	3.02E-02	42.9	12	2.91E-02	41.1	13	2.01E-02	99.0	0	2.27E-02	99.0	0
11	3.53E-02	16.4	6	4.32E-02	15.1	8	2.08E-02	99.0	0	2.51E-02	99.0	0
12	3.58E-02	16.3	11	3.71E-02	17.2	7	2.51E-02	99.0	0	2.83E-02	99.0	0
13	3.21E-02	11.6	4	3.89E-02	6.5	2	2.46E-02	99.0	0	2.79E-02	99.0	0
14	2.98E-02	17.1	4	2.80E-02	6.3	3	2.49E-02	99.0	0	2.67E-02	99.0	0
15	2.26E-02	99.0	0	2.74E-02	99.0	0	2.66E-02	99.0	0	3.02E-02	99.0	0
16	2.15E-02	34.1	1	2.21E-02	99.0	0	2.02E-02	99.0	0	2.55E-02	99.0	0
17	1.54E-02	99.0	0	1.83E-02	99.0	0	1.95E-02	99.0	0	2.19E-02	99.0	0
18	1.99E-02	33.0	1	1.50E-02	99.0	0	1.71E-02	99.0	0	1.87E-02	99.0	0
19	1.53E-02	38.7	1	1.26E-02	99.0	0	1.54E-02	99.0	0	1.46E-02	99.0	0
20	1.10E-02	99.0	0	1.11E-02	99.0	0	1.26E-02	99.0	0	1.25E-02	99.0	0
21	8.88E-03	99.0	0	9.27E-03	99.0	0	8.64E-03	99.0	0	9.72E-03	99.0	0
22	7.78E-03	99.0	0	8.61E-03	99.0	0	9.21E-03	37.6	1	1.26E-02	36.5	1
23	3.97E-03	99.0	0	4.84E-03	99.0	0	3.02E-03	39.8	1	3.60E-03	99.0	0
24	3.19E-03	99.0	0	4.95E-03	32.3	1	2.46E-03	99.0	0	2.65E-03	99.0	0
25	2.21E-03	99.0	0	2.89E-03	16.8	3	1.63E-03	99.0	0	1.60E-03	39.5	1
26	1.49E-03	36.1	1	2.35E-03	26.9	5	1.31E-03	99.0	0	1.31E-03	99.0	0
27	1.23E-03	30.5	10	1.98E-03	38.5	12	7.23E-04	99.0	0	7.28E-04	99.0	0
28	1.30E-03	18.4	12	2.41E-03	20.7	12	2.43E-04	99.0	0	2.67E-04	99.0	0
29	1.82E-03	16.4	12	2.59E-03	15.8	12	1.03E-04	99.0	0	8.53E-05	99.0	0
30	2.31E-03	26.7	13	2.79E-03	19.5	13	6.87E-05	11.5	2	6.90E-05	2.0	2
SUM ^c	4.69E-01			4.70E-01			3.48E-01			3.73E-01		

Table 4.2-2 (continued)

Compact	^{134}Cs						^{137}Cs					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	6.43E-03	193.1	12	3.53E-03	216.7	12	5.30E-03	190.4	12	2.97E-03	214.3	12
2	9.92E-03	68.1	12	7.11E-03	98.1	12	6.70E-03	58.9	12	4.86E-03	87.7	12
3	4.31E-02	26.3	12	2.87E-02	24.9	12	2.67E-02	26.3	12	1.81E-02	25.2	12
4	2.92E-01	56.5	12	7.57E-02	113.4	12	1.71E-01	55.3	12	4.58E-02	110.9	12
5	7.99E-01	14.4	13	5.99E-01	32.6	12	4.58E-01	14.2	13	3.51E-01	32.4	12
6	1.08E+00	20.8	12	1.09E+00	18.0	12	6.11E-01	20.3	12	6.33E-01	17.7	12
7	1.62E+00	8.3	12	1.56E+00	15.8	12	8.97E-01	8.3	12	8.88E-01	14.4	12
8	1.63E+00	16.1	12	1.92E+00	4.6	12	9.02E-01	16.2	12	1.06E+00	4.6	12
9	2.44E+00	17.9	12	2.45E+00	15.7	12	1.36E+00	17.8	12	1.37E+00	15.8	12
10	2.27E+00	5.4	13	2.47E+00	10.4	13	1.26E+00	6.3	13	1.39E+00	11.0	13
11	2.35E+00	44.8	12	3.14E+00	31.8	12	1.30E+00	44.7	12	1.71E+00	31.7	12
12	2.96E+00	9.7	12	3.58E+00	9.8	12	1.63E+00	9.8	12	1.95E+00	9.5	12
13	2.88E+00	5.2	12	3.48E+00	7.5	12	1.60E+00	4.9	12	1.92E+00	7.4	12
14	2.94E+00	4.0	12	3.25E+00	4.1	12	1.62E+00	4.0	12	1.79E+00	4.0	12
15	3.26E+00	11.0	13	3.87E+00	9.7	13	1.81E+00	11.2	13	2.14E+00	9.5	13
16	2.07E+00	16.1	12	3.01E+00	13.9	12	1.16E+00	16.5	12	1.66E+00	14.2	12
17	2.03E+00	11.1	12	2.44E+00	13.2	12	1.13E+00	11.4	12	1.34E+00	13.1	12
18	1.65E+00	4.7	12	1.91E+00	3.4	12	9.24E-01	5.3	12	1.04E+00	3.2	12
19	1.36E+00	23.9	12	1.21E+00	34.3	12	7.70E-01	23.7	12	6.74E-01	33.9	12
20	7.99E-01	7.1	13	7.62E-01	9.1	13	4.54E-01	6.9	13	4.20E-01	8.7	13
21	3.94E-01	25.8	12	5.55E-01	28.1	12	2.29E-01	25.3	12	3.17E-01	27.8	12
22	3.53E-01	28.6	12	5.09E-01	21.6	12	2.08E-01	28.0	12	2.97E-01	21.1	12
23	1.97E-01	12.1	12	3.38E-01	15.0	12	1.18E-01	10.5	12	2.01E-01	13.9	12
24	2.33E-01	27.8	12	2.98E-01	18.5	12	1.45E-01	27.0	12	1.86E-01	17.8	12
25	1.10E-01	39.9	13	1.43E-01	36.2	13	7.15E-02	38.7	13	9.34E-02	35.2	13
26	1.00E-01	21.6	12	1.02E-01	25.2	12	6.94E-02	21.0	12	7.08E-02	24.5	12
27	5.59E-02	36.0	12	6.36E-02	41.1	12	4.14E-02	34.6	12	4.73E-02	39.8	12
28	7.99E-03	57.6	12	1.05E-02	57.8	12	6.71E-03	54.9	12	8.78E-03	57.0	12
29	2.68E-03	29.1	12	2.92E-03	29.9	12	2.58E-03	27.4	12	2.80E-03	29.1	12
30	1.04E-03	29.2	13	1.06E-03	27.0	13	1.06E-03	30.7	13	1.12E-03	23.5	13
SUM ^c	3.40E+01			3.89E+01			1.90E+01			2.16E+01		

Table 4.2-2 (continued)

Compact	^{144}Ce						^{154}Eu					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	5.79E-02	124.4	6	3.73E-02	117.2	4	3.03E-04	126.3	12	1.97E-04	112.9	12
2	8.21E-03	10.6	2	6.67E-03	37.1	2	1.15E-04	18.8	11	8.90E-05	18.8	12
3	4.63E-02	99.0	0	3.70E-02	99.0	0	1.60E-04	18.8	7	1.21E-04	7.5	5
4	3.36E-01	37.7	1	6.63E-02	99.0	0	4.20E-04	36.0	2	1.72E-04	11.8	3
5	3.92E-01	99.0	0	3.12E-01	99.0	0	8.73E-04	34.0	1	6.17E-04	99.0	0
6	4.80E-01	99.0	0	4.49E-01	99.0	0	1.26E-03	36.4	1	9.88E-04	99.0	0
7	6.19E-01	99.0	0	8.57E-01	34.6	1	1.47E-03	99.0	0	1.27E-03	36.2	1
8	6.09E-01	99.0	0	9.66E-01	37.9	1	1.45E-03	99.0	0	2.50E-03	32.5	1
9	8.11E-01	99.0	0	8.50E-01	99.0	0	4.05E-03	33.3	6	2.29E-03	99.0	0
10	7.48E-01	99.0	0	8.49E-01	99.0	0	4.57E-03	29.6	13	6.87E-03	32.9	10
11	8.42E-01	99.0	0	1.05E+00	99.0	0	4.99E-03	40.5	9	5.44E-03	25.8	5
12	1.02E+00	99.0	0	1.79E+00	31.9	1	5.13E-03	24.0	1	4.09E-03	9.5	2
13	1.27E+00	37.4	1	1.19E+00	99.0	0	6.54E-03	38.3	10	9.49E-03	42.8	10
14	1.02E+00	99.0	0	1.14E+00	99.0	0	2.93E-02	60.5	12	2.29E-02	47.0	12
15	1.12E+00	99.0	0	1.34E+00	99.0	0	5.62E-02	80.5	13	9.97E-02	76.2	13
16	8.29E-01	99.0	0	1.11E+00	99.0	0	9.60E-02	30.5	12	1.68E-01	25.2	12
17	7.95E-01	99.0	0	9.27E-01	99.0	0	1.13E-01	54.7	12	1.56E-01	29.3	12
18	6.98E-01	99.0	0	7.78E-01	99.0	0	1.48E-01	31.0	12	1.87E-01	18.9	12
19	6.64E-01	99.0	0	6.57E-01	99.0	0	2.42E-01	36.3	12	2.56E-01	21.9	12
20	5.95E-01	99.0	0	5.86E-01	99.0	0	2.71E-01	18.6	13	2.72E-01	10.3	13
21	4.65E-01	99.0	0	5.04E-01	99.0	0	2.43E-01	26.6	12	2.35E-01	38.1	12
22	3.98E-01	99.0	0	4.67E-01	99.0	0	2.02E-01	36.3	12	1.95E-01	23.0	12
23	1.77E-01	99.0	0	2.30E-01	99.0	0	1.33E-01	23.9	12	1.18E-01	18.9	12
24	1.49E-01	99.0	0	1.54E-01	99.0	0	8.41E-02	31.0	12	5.10E-02	31.1	12
25	1.03E-01	99.0	0	9.80E-02	99.0	0	7.17E-02	41.7	13	4.03E-02	27.2	13
26	6.64E-02	99.0	0	6.68E-02	99.0	0	2.26E-02	85.2	12	1.68E-02	56.9	12
27	3.57E-02	99.0	0	3.69E-02	99.0	0	8.82E-03	30.1	12	6.19E-03	29.0	12
28	1.49E-02	99.0	0	1.61E-02	99.0	0	5.79E-03	51.2	12	5.59E-03	53.4	12
29	6.35E-03	99.0	0	5.37E-03	99.0	0	1.85E-03	63.3	12	1.64E-03	75.6	12
30	3.15E-03	99.0	0	4.43E-03	9.4	3	3.05E-04	37.8	13	2.14E-04	33.5	13
SUM ^c	1.44E+01			1.66E+01			1.76E+00			1.86E+00		

^aDenotes: (1) percent relative standard deviation when NO is greater than 1, (2) counting statistics error when NO is equal to 1, and (3) arbitrary value of 99.0 when NO is equal to zero. When NO is zero, the inventory value tabulated is the mean of all of the upper-limit values (nominally 12) computed.

^bDenotes the number of real observations (non-upper limit) per 3-in. interval (see text).

^cDenotes the total inventory in the graphite component and includes upper-limit values.

Table 4.2-3. Axial distribution of gamma emitters in the spine of element E01-01
(curies/compact length, October 31, 1974)

Compact	⁶⁰ Co						¹⁰⁶ Ru					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	1.20E-03	283.7	12	4.89E-04	187.8	12	4.85E-03	140.7	3	4.84E-03	19.0	1
2	1.02E-04	39.4	12	9.67E-05	66.8	11	1.74E-03	35.1	1	2.10E-03	99.0	0
3	9.80E-05	50.8	9	1.12E-04	37.3	9	4.48E-03	99.0	0	5.44E-03	99.0	0
4	2.95E-04	11.9	2	2.81E-04	22.4	4	1.99E-02	99.0	0	2.26E-02	99.0	0
5	3.61E-04	4.5	3	3.74E-04	32.1	4	2.95E-02	99.0	0	4.95E-02	29.9	1
6	4.59E-04	30.6	9	4.35E-04	25.9	4	2.94E-02	99.0	0	3.31E-02	99.0	0
7	5.03E-04	28.2	9	6.07E-04	27.8	6	3.02E-02	99.0	0	3.45E-02	99.0	0
8	7.54E-04	19.6	12	6.97E-04	20.2	8	4.60E-02	2.4	2	5.06E-02	39.2	1
9	3.42E-02	83.7	12	3.01E-02	81.3	12	5.73E-02	11.6	2	4.04E-02	99.0	0
10	3.32E-02	106.6	13	2.66E-02	105.2	13	5.10E-02	32.8	1	3.96E-02	39.8	1
11	1.41E-03	23.2	12	1.50E-03	22.9	12	3.14E-02	99.0	0	5.29E-02	99.0	0
12	1.27E-03	24.1	12	1.53E-03	31.8	12	3.16E-02	99.0	0	5.33E-02	99.0	0
13	2.78E-03	16.3	12	2.78E-03	18.2	12	3.03E-02	99.0	0	5.01E-02	99.0	0
14	1.45E-03	19.5	12	1.43E-03	27.4	12	2.99E-02	99.0	0	4.87E-02	99.0	0
15	2.92E-03	26.8	13	2.85E-03	23.3	13	2.85E-02	99.0	0	4.62E-02	99.0	0
16	1.31E-03	45.2	12	1.08E-03	45.6	12	2.59E-02	99.0	0	4.10E-02	99.0	0
17	1.39E-03	30.3	12	1.28E-03	33.7	12	2.49E-02	99.0	0	3.96E-02	99.0	0
18	6.70E-04	54.9	12	5.38E-04	48.0	12	2.15E-02	99.0	0	3.40E-02	99.0	0
19	3.55E-04	33.4	9	3.45E-04	30.6	10	1.86E-02	99.0	0	4.31E-02	30.0	1
20	2.14E-04	15.0	4	2.21E-04	13.9	5	2.58E-02	99.0	0	2.84E-02	99.0	0
21	1.37E-04	37.9	1	8.49E-05	99.0	0	1.25E-02	99.0	0	1.23E-02	99.0	0
22	1.86E-04	48.2	12	1.57E-04	43.6	11	7.94E-03	99.0	0	7.29E-03	99.0	0
23	3.19E-04	26.8	12	2.97E-04	21.9	12	5.19E-03	99.0	0	5.08E-03	99.0	0
24	4.93E-04	37.6	12	5.74E-04	30.5	12	4.66E-03	99.0	0	4.77E-03	99.0	0
25	1.07E-03	13.8	13	9.98E-04	14.2	13	2.65E-03	99.0	0	2.65E-03	99.0	0
26	1.97E-03	46.9	12	1.85E-03	40.2	12	1.50E-03	99.0	0	1.50E-03	99.0	0
27	3.76E-03	44.8	12	2.94E-03	46.7	12	5.81E-04	99.0	0	5.74E-04	99.0	0
28	8.29E-04	20.6	12	9.67E-04	12.6	12	1.17E-03	43.4	3	1.45E-03	38.6	2
29	6.23E-04	5.9	12	7.14E-04	6.7	12	2.17E-04	99.0	0	2.39E-04	99.0	0
30	4.25E-04	28.2	3	5.32E-04	22.7	3	2.14E-04	32.8	1	2.78E-04	7.0	2
SUM ^c	9.48E-02			8.26E-02			5.80E-01			7.56E-01		

Table 4.2-3 (continued)

Compact	^{110m}Ag						^{125}Sb					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	5.21E-03	53.5	12	7.58E-03	40.4	12	3.04E-04	99.0	0	3.55E-04	99.0	0
2	1.56E-02	16.9	12	1.06E-02	8.7	12	4.30E-04	99.0	0	6.37E-04	99.0	0
3	8.77E-03	15.1	12	9.56E-03	11.8	12	1.40E-03	99.0	0	1.64E-03	99.0	0
4	6.47E-03	21.3	10	7.02E-03	30.5	12	6.34E-03	99.0	0	6.98E-03	99.0	0
5	8.82E-03	11.7	4	7.34E-03	38.6	1	9.37E-03	99.0	0	9.37E-03	99.0	0
6	7.77E-03	36.5	1	6.75E-03	99.0	0	9.35E-03	99.0	0	1.01E-02	99.0	0
7	6.03E-03	99.0	0	9.19E-03	35.6	1	9.50E-03	99.0	0	1.06E-02	99.0	0
8	8.16E-03	99.0	0	9.03E-03	99.0	0	1.18E-02	99.0	0	1.26E-02	99.0	0
9	1.21E-02	37.0	1	1.56E-02	32.1	1	1.19E-02	99.0	0	1.24E-02	99.0	0
10	8.45E-03	99.0	0	8.57E-03	99.0	0	1.08E-02	99.0	0	1.10E-02	99.0	0
11	8.13E-03	34.0	1	9.44E-03	31.4	1	9.56E-03	99.0	0	9.40E-03	99.0	0
12	6.28E-03	99.0	0	9.69E-03	32.3	1	9.69E-03	99.0	0	9.50E-03	99.0	0
13	6.08E-03	99.0	0	6.05E-03	99.0	0	9.37E-03	99.0	0	8.98E-03	99.0	0
14	5.99E-03	99.0	0	5.92E-03	99.0	0	9.24E-03	99.0	0	8.75E-03	99.0	0
15	5.62E-03	99.0	0	5.58E-03	99.0	0	8.67E-03	99.0	0	8.50E-03	99.0	0
16	4.93E-03	99.0	0	4.92E-03	99.0	0	7.66E-03	99.0	0	7.91E-03	99.0	0
17	4.74E-03	99.0	0	5.71E-03	1.9	2	7.38E-03	99.0	0	7.49E-03	99.0	0
18	4.82E-03	35.1	1	3.80E-03	99.0	0	6.41E-03	99.0	0	6.19E-03	99.0	0
19	3.97E-03	35.4	1	3.80E-03	35.7	1	5.63E-03	99.0	0	5.34E-03	99.0	0
20	3.29E-03	99.0	0	3.11E-03	99.0	0	5.52E-03	99.0	0	5.39E-03	99.0	0
21	1.89E-03	99.0	0	1.78E-03	99.0	0	2.05E-03	99.0	0	2.19E-03	99.0	0
22	1.09E-03	99.0	0	1.02E-03	99.0	0	1.36E-03	99.0	0	1.31E-03	99.0	0
23	7.45E-04	99.0	0	7.18E-04	99.0	0	9.22E-04	99.0	0	9.07E-04	99.0	0
24	6.46E-04	99.0	0	6.54E-04	99.0	0	8.47E-04	99.0	0	8.69E-04	99.0	0
25	4.59E-04	99.0	0	4.48E-04	99.0	0	4.20E-04	99.0	0	4.18E-04	99.0	0
26	3.84E-04	99.0	0	3.00E-04	99.0	0	2.35E-04	99.0	0	2.34E-04	99.0	0
27	1.78E-04	99.0	0	1.70E-04	99.0	0	6.75E-05	99.0	0	6.95E-05	99.0	0
28	1.02E-04	99.0	0	1.05E-04	99.0	0	9.76E-05	17.9	2	8.41E-05	32.2	3
29	6.61E-05	99.0	0	7.22E-05	99.0	0	4.10E-05	33.1	1	3.09E-05	37.6	1
30	1.19E-05	99.0	0	1.32E-05	99.0	0	4.61E-06	99.0	0	4.84E-06	99.0	0
SUM ^c	1.46E-01			1.54E-01			1.56E-01			1.59E-01		

Table 4.2-3 (continued)

Compact	^{134}Cs						^{137}Cs					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	2.16E-02	236.1	12	2.77E-02	91.5	12	1.38E-02	233.7	12	1.75E-02	93.0	12
2	2.74E-02	57.4	12	4.92E-02	21.9	12	1.71E-02	58.4	12	3.09E-02	20.1	12
3	1.35E-01	36.2	12	1.52E-01	31.4	12	7.95E-02	35.6	12	9.19E-02	30.0	12
4	5.04E-01	28.3	12	5.32E-01	24.1	12	2.92E-01	28.1	12	3.13E-01	23.9	12
5	9.56E-01	6.1	13	8.77E-01	4.4	13	5.45E-01	5.6	13	5.02E-01	4.3	13
6	9.40E-01	6.7	12	9.95E-01	2.6	12	5.28E-01	7.3	12	5.59E-01	2.4	12
7	9.45E-01	4.4	12	1.07E+00	4.0	12	5.20E-01	4.2	12	5.93E-01	4.2	12
8	1.31E+00	8.6	12	1.39E+00	7.9	12	7.24E-01	8.7	12	7.69E-01	7.6	12
9	1.29E+00	2.9	12	1.34E+00	3.6	12	7.12E-01	3.0	12	7.35E-01	3.6	12
10	1.12E+00	13.4	13	1.15E+00	15.5	13	6.13E-01	13.1	13	6.27E-01	15.3	13
11	8.90E-01	7.1	12	9.12E-01	6.6	12	4.83E-01	7.1	12	4.96E-01	6.3	12
12	8.97E-01	3.5	12	9.36E-01	5.7	12	4.84E-01	3.6	12	5.10E-01	5.6	12
13	8.34E-01	4.4	12	8.41E-01	4.3	12	4.54E-01	4.7	12	4.61E-01	4.1	12
14	8.20E-01	3.3	12	8.08E-01	2.8	12	4.47E-01	3.2	12	4.43E-01	2.8	12
15	7.55E-01	8.0	13	7.67E-01	6.2	13	4.11E-01	7.9	13	4.21E-01	6.1	13
16	6.42E-01	7.1	12	6.56E-01	6.6	12	3.51E-01	6.5	12	3.64E-01	6.2	12
17	6.07E-01	9.2	12	6.22E-01	8.8	12	3.33E-01	8.4	12	3.47E-01	7.8	12
18	4.59E-01	8.1	12	4.56E-01	9.5	12	2.58E-01	7.2	12	2.61E-01	8.9	12
19	3.54E-01	7.1	12	3.43E-01	9.1	12	2.06E-01	6.0	12	2.00E-01	8.4	12
20	3.40E-01	24.3	13	3.18E-01	22.1	13	2.04E-01	25.9	13	1.91E-01	24.0	13
21	2.33E-01	13.6	12	2.13E-01	16.1	12	1.34E-01	13.8	12	1.24E-01	16.9	12
22	1.30E-01	27.2	12	1.14E-01	32.8	12	7.46E-02	27.0	12	6.58E-02	32.4	12
23	6.59E-02	11.9	12	5.71E-02	15.2	12	3.81E-02	12.2	12	3.35E-02	15.1	12
24	6.83E-02	28.5	12	6.00E-02	13.6	12	4.11E-02	28.1	12	3.67E-02	12.5	12
25	3.84E-02	21.3	13	3.28E-02	22.0	13	2.43E-02	20.5	13	2.09E-02	21.6	13
26	1.50E-02	64.5	12	1.25E-02	61.1	12	9.88E-03	63.7	12	8.32E-03	60.2	12
27	1.09E-03	29.0	12	8.88E-04	31.9	12	7.63E-04	26.9	12	6.33E-04	30.7	12
28	6.47E-04	47.2	12	6.21E-04	52.5	12	5.86E-04	63.4	12	5.73E-04	71.8	12
29	2.72E-04	33.4	12	2.89E-04	36.8	12	2.21E-04	37.6	12	2.44E-04	39.7	12
30	1.33E-04	12.8	3	1.34E-04	13.9	3	1.04E-04	9.8	3	1.07E-04	16.5	3
SUM ^c	1.44E+01			1.47E+01			8.01E+00			8.23E+00		

Table 4.2-3 (continued)

Compact	¹⁴⁴ Ce						¹⁵⁴ Eu					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	1.31E-02	14.0	2	1.56E-02	99.0	0	2.70E-04	77.1	12	2.04E-04	38.6	12
2	1.89E-02	99.0	0	2.71E-02	99.0	0	1.82E-04	23.0	12	1.81E-04	32.0	12
3	5.39E-02	38.9	1	1.20E-01	39.3	1	2.06E-04	17.7	4	2.07E-04	7.3	2
4	2.11E-01	99.0	0	2.47E-01	99.0	0	6.26E-04	12.5	2	5.48E-04	37.8	1
5	3.30E-01	99.0	0	3.50E-01	99.0	0	1.30E-03	25.6	2	8.88E-04	35.3	1
6	3.31E-01	99.0	0	4.74E-01	38.4	1	1.27E-03	27.3	1	1.05E-03	0.9	2
7	3.40E-01	99.0	0	4.00E-01	99.0	0	1.42E-03	14.8	4	1.45E-03	27.9	1
8	4.47E-01	99.0	0	4.93E-01	99.0	0	1.11E-03	99.0	0	1.39E-03	33.7	1
9	4.78E-01	99.0	0	5.04E-01	99.0	0	6.76E-03	59.2	9	1.08E-02	53.2	9
10	4.29E-01	99.0	0	4.40E-01	99.0	0	6.56E-03	40.9	12	8.62E-03	51.2	12
11	3.63E-01	99.0	0	3.64E-01	99.0	0	6.25E-03	34.6	12	4.53E-03	46.5	12
12	5.06E-01	31.9	1	3.67E-01	99.0	0	2.82E-03	21.6	9	3.84E-03	40.5	11
13	3.51E-01	99.0	0	3.48E-01	99.0	0	1.06E-02	34.5	12	1.21E-02	26.4	12
14	3.46E-01	99.0	0	3.40E-01	99.0	0	1.57E-02	37.0	12	1.73E-02	31.2	12
15	3.27E-01	99.0	0	3.20E-01	99.0	0	1.33E-02	17.0	13	1.39E-02	11.8	13
16	2.96E-01	99.0	0	2.90E-01	99.0	0	2.03E-02	14.6	12	2.02E-02	18.8	12
17	2.83E-01	99.0	0	2.74E-01	99.0	0	1.93E-02	14.2	12	1.82E-02	17.7	12
18	2.42E-01	99.0	0	2.31E-01	99.0	0	2.15E-02	7.7	12	2.01E-02	17.9	12
19	2.08E-01	99.0	0	1.98E-01	99.0	0	2.10E-02	6.5	12	1.99E-02	6.3	12
20	2.07E-01	99.0	0	1.97E-01	99.0	0	1.92E-02	13.4	13	1.80E-02	13.2	13
21	9.97E-02	99.0	0	9.78E-02	99.0	0	1.39E-02	6.5	12	1.32E-02	11.4	12
22	6.10E-02	99.0	0	1.92E-01	9.9	1	1.05E-02	16.2	12	1.03E-02	21.3	12
23	4.17E-02	99.0	0	4.14E-02	99.0	0	1.19E-02	9.4	12	1.12E-02	8.4	12
24	3.59E-02	99.0	0	3.75E-02	99.0	0	7.46E-03	25.0	12	8.22E-03	11.2	12
25	2.30E-02	99.0	0	2.30E-02	99.0	0	9.76E-03	13.2	13	9.98E-03	9.5	13
26	1.38E-02	99.0	0	1.40E-02	99.0	0	6.09E-03	28.2	12	6.50E-03	16.0	12
27	6.35E-03	99.0	0	6.40E-03	99.0	0	3.72E-03	23.9	12	4.27E-03	29.8	12
28	1.68E-02	42.0	2	1.67E-02	76.2	3	2.89E-03	25.1	12	2.70E-03	23.1	12
29	2.41E-03	99.0	0	2.64E-03	99.0	0	7.09E-04	36.3	12	8.80E-04	30.6	12
30	4.15E-04	99.0	0	4.40E-04	99.0	0	3.23E-04	2.7	3	3.64E-04	7.7	3
SUM ^c	6.09E+00			6.43E+00			2.37E-01			2.41E-01		

^aDenotes: (1) percent relative standard deviation when NO is greater than 1, (2) counting statistics error when NO is equal to 1, and (3) arbitrary value of 99.0 when NO is equal to zero. When NO is zero, the inventory value tabulated is the mean of all of the upper-limit values (nominally 12) computed.

^bDenotes the number of real observations (non-upper limit) per 3-in. interval (see text).

^cDenotes the total inventory in the graphite component and includes upper-limit values.

data were classified according to three categories. Category 1 consists of data for which two or more of the scan points per 3-in. interval were actual measured quantities. In this case, mean values of the observed activities were tabulated as the inventory per 3-in. interval. The errors listed in Tables 4.2-2 and 4.2-3 for category 1 data are conventional standard deviations expressed as percentages of the mean inventories. The number of measured points within each 3-in. segment (statistically the number of degrees of freedom) is listed after each error value. Category 2 consisted of data for which only one scan point within a 3-in. segment was an actual measured quantity. In this case, the observed quantity was tabulated as the inventory per 3 in. of section and the counting statistics error for that scan point in Appendix A was tabulated as the error in Tables 4.2-2 and 4.2-3. Category 3 represented those data in which all of the scan points per 3 in. of section consisted of upper-limit values designated in Appendix A. The mean of each of the upper-limit values per 3-in. interval was computed and tabulated for category 3 data; in Tables 4.2-2 and 4.2-3 it is signified with an arbitrarily assigned error of 99.0%. For such data, the number of observed real values was zero and it is tabulated as such.

Because the counting time interval used to acquire gamma spectra in the automated scanning of spine and sleeve (as described in Sect. 4 of ref. 2) was only about 5 min, it was thought that some improvement in the axial distributions of gamma-emitters might be realized if a limited sampling were made with longer counting times. Longer times would reduce counting statistics errors and perhaps result in the replacement of some upper-limit estimates by real-value estimates, as well as possibly allow detection of additional radionuclides if they were present at low levels. Consequently, gamma spectra of both sleeve and spine were acquired for 2000 sec, in both planes, at nine selected locations along the element adjacent to the locations of fuel compacts 2, 5, 9, 12, 15, 19, 22, 25, and 29.

Tables 4.2-4 and 4.2-5 present the inventories, per 3-in. segment of sleeve and spine, of the nuclides detected and measured by these "long counts." Generally, these data were in good agreement with the

Table 4.2-4. Concentrations of gamma-emitting radionuclides in the sleeve of element E01-01
(corrected to October 31, 1974)^a

Location of compact	Distance ^b (in.)	Plane	⁶⁰ Co		¹⁰⁶ Ru		^{110m} Ag		¹³⁴ Cs		¹³⁷ Cs		¹⁴⁴ Ce		¹⁵⁴ Eu	
			Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)
2	4.5	1	5.07E-4	1	7.08E-4	99	1.08E-4	99	9.69E-3	0.3	6.45E-3	0.3	9.64E-3	9	1.20E-4	7
		2	5.30E-4	1	5.93E-4	99	9.49E-5	99	3.70E-3	0.5	2.69E-3	0.4	8.83E-3	11	1.10E-4	6
		Mean	5.18E-4		6.50E-4		1.01E-4		6.69E-3		4.57E-3		9.23E-3		1.15E-4	
5	13.5	1	5.15E-4	10	2.12E-2	99	2.39E-2	4	0.780	0.2	0.450	0.2	0.15	99	3.50E-4	40
		2	3.98E-4	12	2.22E-2	99	1.10E-2	9	1.32	0.1	0.770	0.1	2.91E-2	32	3.37E-4	99
		Mean	4.56E-4		2.17E-2		1.74E-2		1.05		0.610		8.95E-2		3.43E-4	
9	25.5	1	1.14E-3	7	3.03E-2	99	3.81E-2	4	2.39	0.1	1.34	0.1	0.21	99	5.00E-3	5
		2	9.47E-4	10	3.45E-2	99	2.86E-2	7	2.95	0.1	1.64	0.1	0.25	99	8.89E-3	4
		Mean	1.04E-3		3.24E-2		3.33E-2		2.67		1.49		0.23		6.94E-3	
12	34.5	1	9.55E-4	14	4.37E-2	99	2.56E-2	10	2.92	0.1	1.62	0.1	0.34	99	2.74E-3	15
		2	1.67E-3	3	4.70E-2	99	2.13E-2	13	3.30	0.1	1.81	0.1	0.35	99	1.39E-3	24
		Mean	1.31E-3		4.53E-2		2.34E-2		3.11		1.71		0.34		2.06E-3	
15	43.5	1	4.21E-3	3	4.26E-2	99	1.21E-2	25	2.72	0.1	1.53	0.1	0.33	99	8.37E-2	1
		2	6.70E-3	3	4.95E-2	99	1.03E-2	36	3.46	0.1	1.92	0.1	0.39	99	0.16	0.6
		Mean	5.45E-3		4.60E-2		1.12E-2		3.09		1.72		0.36		0.122	
19	55.5	1	1.03E-2	1	2.72E-2	99	4.41E-3	99	1.06	0.1	0.597	0.1	0.23	99	0.32	0.4
		2	1.13E-2	1	2.61E-2	99	4.18E-3	99	1.01	0.1	0.565	0.1	0.21	99	0.27	0.2
		Mean	1.08E-2		2.66E-2		2.31E-3		1.03		0.581		0.22		0.29	
22	64.5	1	7.39E-3	1	1.60E-2	99	2.84E-3	99	0.268	0.3	0.160	0.3	0.15	99	0.17	0.5
		2	6.39E-3	1	8.46E-3	99	1.42E-3	99	0.462	0.1	0.270	0.1	7.26E-2	7	0.21	0.2
		Mean	6.89E-3		1.22E-2		2.13E-3		0.365		0.215		0.111		0.190	
25	73.5	1	3.63E-3	1			7.08E-4	99	6.68E-2	0.2	4.45E-2	0.2	3.50E-2	10	7.60E-2	0.3
		2	2.93E-3	1			5.79E-4	99	8.38E-2	0.2	5.69E-2	0.2			4.07E-2	0.4
		Mean	3.28E-3				6.43E-4		7.53E-2		5.07E-2				5.83E-2	
29	85.5	1	8.16E-4	0.5			1.66E-3	1	1.83E-3	0.4	1.83E-3	0.2	1.98E-3	4	9.57E-4	1
		2	8.25E-4	0.5	5.02E-4	14	2.73E-3	1	2.05E-3	0.3	2.03E-3	0.2	3.20E-3	3	7.82E-4	1
		Mean	8.20E-4				2.19E-3		1.94E-3		1.93E-3		2.59E-3		8.69E-4	

^aMeasurements made by acquiring gamma spectra for 2000 seconds in the middle of that sleeve section adjacent to the designated compact.

^bDistance from bottom of fuel.

^cDenotes one-sigma counting statistics error.

Table 4.2-5. Concentrations of gamma-emitting radionuclides in the spine of element E01-01
(corrected to October 31, 1974)^a

Location of compact	Distance ^b (in.)	Plane	⁶⁰ Co		¹⁰⁶ Ru		^{110m} Ag		¹³⁴ Cs		¹³⁷ Cs		¹⁴⁴ Ce		¹⁵⁴ Eu	
			Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)
2	4.5	1	9.32E-5	4	1.91E-3	19	1.76E-2	0.5	2.97E-2	0.1	1.80E-2	0.1	6.37E-3	99	1.94E-4	5
		2	6.86E-5	5	1.66E-3	31	1.27E-2	0.8	5.66E-2	0.1	3.66E-2	0.1	2.85E-3	19	1.75E-4	6
		Mean	8.09E-5		1.78E-3		1.51E-2		4.31E-2		2.73E-2		4.61E-3		1.84E-4	
5	13.5	1	1.26E-4	27	1.74E-2	99	3.47E-3	30	1.02	0.1	0.576	0.1	0.12	99	3.00E-4	99
		2			1.73E-2	99	3.03E-3	33	0.879	0.1	0.503	0.1	0.12	99	2.76E-4	99
		Mean			1.73E-2		3.25E-3		0.949		0.539		0.12		2.88E-4	
9	25.5	1	6.76E-2	0.5	2.51E-2	99	4.18E-3	99	1.26	0.1	0.691	0.1	0.19	99	8.29E-3	4
		2	5.32E-2	0.5	2.24E-2	99	3.60E-3	99	1.29	0.1	0.705	0.1	0.17	99	1.39E-2	2
		Mean	6.04E-2		2.37E-2		3.89E-3		1.27		0.698		0.18		1.11E-2	
12	34.5	1	1.39E-3	4	1.86E-2	99	2.23E-3	99	0.905	0.1	0.491	0.1	0.13	99	1.16E-3	11
		2	1.73E-3	4	1.91E-2	99	2.31E-3	99	0.980	0.1	0.535	0.1	0.13	99	2.30E-3	6
		Mean	1.56E-3		1.88E-2		2.27E-3		0.942		0.513		0.13		1.73E-3	
15	43.5	1	2.16E-3	3	1.57E-2	99	1.91E-3	99	0.716	0.1	0.392	0.1	0.10	12	1.55E-2	2
		2	2.43E-3	3	1.57E-2	99	1.94E-3	99	0.741	0.1	0.407	0.1	0.11	99	1.39E-2	2
		Mean	2.29E-3		1.57E-2		1.92E-3		0.728		0.399		0.10		1.47E-2	
19	55.5	1	3.90E-4	8	1.11E-2	99	1.23E-3	99	0.341	0.2	0.201	0.2	7.56E-2	99	2.15E-2	1
		2	3.78E-4	8	1.03E-2	99	1.16E-3	99	0.340	0.2	0.199	0.2	7.24E-2	99	2.00E-2	1
		Mean	3.84E-4		1.07E-2		1.20E-3		0.340		0.200		7.40E-2		2.07E-2	
22	64.5	1			3.55E-3	99	5.27E-4	99	0.209	0.1	0.122	0.1			1.40E-2	0.6
		2			3.30E-3	99	4.95E-4	99	0.183	0.1	0.106	0.1	1.40E-2	15	1.32E-2	0.6
		Mean			3.42E-3		5.11E-4		0.196		0.114				1.36E-2	
25	73.5	1	1.15E-3	0.7	8.77E-4	99	1.55E-4	99	4.09E-2	0.1	2.59E-2	0.1			9.56E-3	0.4
		2	1.11E-3	0.7	8.64E-4	99	1.52E-4	99	3.25E-2	0.1	2.06E-2	0.1			1.02E-2	0.3
		Mean	1.13E-3		8.70E-4		1.53E-4		3.67E-2		2.30E-2				0.99E-2	
29	85.5	1	6.12E-4	0.4	2.37E-4	19	2.91E-5	99	3.87E-4	0.7	3.34E-4	0.6	1.53E-3	4	1.56E-3	0.4
		2	9.00E-4	0.3	1.44E-4	4	3.25E-5	99	3.82E-4	0.8	3.23E-4	0.6			1.58E-3	0.4
		Mean	7.56E-4		1.90E-4		3.08E-5		3.84E-4		3.28E-4				1.57E-3	

^aMeasurements made by acquiring gamma spectra for 2000 seconds in the middle of that sleeve section adjacent to the designated compact.

^bDistance from bottom of fuel.

^cDenotes one-sigma counting statistics error.

results that were found by the automated scanning procedure; they are listed in Appendix A. In a few instances, small amounts of ^{106}Ru and ^{144}Ce that were not found by the scanning procedure were detected by the long counts.

Small amounts of the gamma-emitting nuclides observed in the sleeve and spine were found in the bottom connector. Table 4.2-6 summarizes the nuclide inventories derived from the axial distributions in Appendix A. As can be seen, none of the nuclides are present in amounts that are small when compared with those found in the sleeve, spine, and fuel.

Table 4.2-6. Inventories of gamma-emitting radionuclides
in the bottom connector of element E01-01
(as of October 31, 1974)

Radionuclide	Inventory (Ci)
^{60}Co	0.384
^{106}Ru	0.100
$^{110\text{m}}\text{Ag}$	0.016
^{125}Sb	0.017
^{134}Cs	0.122
^{137}Cs	0.073
^{144}Ce	1.89
^{154}Eu	0.0069

The observed distributions of gamma-emitting nuclides in the sleeve and spine are plotted in Figs. 4.2-8 through 4.2-23, corresponding to the tabular data given in Appendix A. The vertical bands signify the values of the standard deviations, based on counting statistics. Distributions in each of the two planes in which observations were made are shown. The upward-facing arrow that appears frequently as a plotting point, especially in spine distributions, indicates an upper-limit value calculated by the method discussed earlier in this section.

Fig. 4.2-8. Observed inventories of ^{60}Co in the sleeve (Ci/3 in.).

Fig. 4.2-9. Observed inventories of ^{60}Co in the spine (Ci/3 in.).

Fig. 4.2-10. Observed and upper limit inventories of ^{106}Ru in the sleeve (Ci/3 in.).

Fig. 4.2-11. Observed and upper limit inventories of ^{106}Ru in the spine (Ci/3 in.).

Fig. 4.2-12. Observed and upper limit inventories of ^{110m}Ag in the sleeve (Ci/3 in.).

Fig. 4.2-13. Observed and upper limit inventories of ^{110m}Ag in the spine (Ci/3 in.).

Fig. 4.2-14. Observed and upper limit inventories of ^{125}Sb in the sleeve (Ci/3 in.).

Fig. 4.2-15. Upper limit inventories of ^{125}Sb in the spine (Ci/3 in.).

Fig. 4.2-16. Observed inventories of ^{134}Cs in the sleeve (Ci/3 in.).

Fig. 4.2-17. Observed inventories of ^{134}Cs in the spine (Ci/3 in.).

Fig. 4.2-18. Observed inventories of ^{137}Cs in the sleeve (Ci/3 in.).

Fig. 4.2-19. Observed inves of ^{137}Cs in the spine (Ci/3 in.).

Fig. 4.2-20. Observed and upper inventories of ^{144}Ce in the sleeve (Ci/3 in.).

Fig. 4.2-21. Observed and upper limit inventories of ^{144}Ce in the spine (Ci/3 in.).

Fig. 4.2-22. Observed inventories of ^{154}Eu in the sleeve (Ci/3 in.).

Fig. 4.2-23. Observed and upper limit inventories of ^{154}Eu in the spine (Ci/3 in.).

4.3 Radial Distributions

Specimens of sleeve were radially dissected at locations adjacent to compacts 4, 12, 18, and 28 by methods described in Sect. 4 of ref. 2. Spine sections adjacent to compacts 23 and 28 were similarly sectioned. It should be noted that the thermocouple groove in the spine from compact locations 1 through 20 precluded utilization of this section of spine for radial profile determinations. Tables 4.3-1 through 4.3-6 summarize the radial distributions observed for the gamma-emitting nuclides; the distributions are plotted in Figs. 4.3-1 through 4.3-5.

The reader should note that many of the tabulated activity measurements are upper-limit values denoted by the "<" symbol. Although the upper-limit values are plotted, the significance of such plots is simply that the true distributions should lie somewhere below the upper-limit values; the actual profiles are unknown. Generally, the nuclides ^{106}Ru , $^{110\text{m}}\text{Ag}$, and ^{144}Ce are the only ones represented as upper limits. Since the upper-limit values derived for these nuclides are governed by the nuclides that are present in larger concentrations, principally ^{134}Cs and ^{137}Cs , the upper-limit profiles usually follow the profiles of the cesium isotopes.

The $^{137}\text{Cs}/^{134}\text{Cs}$ ratios given in the radial distribution tables are plotted in Fig. 4.3-6. Some of the factors that influence this ratio are discussed in the report describing the examination of fuel element E11-07 (ref. 2). The $^{137}\text{Cs}/^{134}\text{Cs}$ ratio in the higher-temperature regions of the element, which varies only slightly from the surfaces adjacent to the fuel to the inside of the spine and to the outside of the sleeve, evidently indicates that the migration of metallic species of ^{137}Cs and ^{134}Cs is the predominant mode of cesium transfer. In the spine at compact location 28, the rapid decrease of the ratio indicates that the migration of ^{133}Xe is relatively more important in regulating the levels of ^{134}Cs .

Table 4.3-1. Radial distribution of gamma-emitting radionuclides found in E01-01 sleeve at compact 4
(corrected to October 31, 1974)

Thickness ^a (mils)	Distance to center of cut from ID (cm)	Distance to center of cut from ID (cm)	Radionuclide concentration (μCi/g)								Ratio 137Cs/134Cs
			54Mn	60Co	106Ru ^b	110mAg ^b	134Cs	137Cs	144Ce ^b	154Eu ^b	
20	0.051	0.026	-	5.25	<230	<32.9	9.59E3	5.59E3	<1.7E3	<4.1	0.58
20	0.051	0.066	-	4.05	<160	<25.5	7.14E3	4.15E3	<1.2E3	<3.0	0.58
30	0.076	0.12	-	3.45	<110	<16.0	4.61E3	2.69E3	<8.5E2	<1.9	0.58
30	0.076	0.20	-	2.13	<80	<11.4	3.32E3	1.92E2	<6.3E2	<1.4	0.58
30	0.076	0.272	-	2.9	<70	<9.0	2.55E3	1.48E3	<5.2E2	<1.1	0.58
30	0.076	0.424	-	4.84	<70	<7.4	1.45E3	8.33E2	<5.2E2	<0.9	0.57
30	0.076	0.576	-	2.26	<20	<2.8	609.9	346.5	<149.9	<0.4	0.57
30	0.076	0.652	-	2.76	<16	<2.0	375.4	211.6	<110.0	0.29	0.56
30	0.076	0.728	-	1.99	<8	<1.0	191.4	107.9	<51.2	0.42	0.56
30	0.076	0.804	-	1.78	<3	<0.5	85.4	48.0	<24.0	0.52	0.56
20	0.051	0.88	0.14	2.64	<1	<0.3	33.4	18.7	<10.4	0.51	0.56
15	0.038	0.937	0.18	3.81	<1	<0.3	11.6	6.5	<9.5	0.58	0.56
3	0.008	0.96	2.21	6.39	<3	1.09	51.4	29.6	-	0.34	0.57

^aThickness of sample milled from sleeve.

^bNumbers preceded by < are upper-limit values.

Table 4.3-2. Radial distribution of gamma-emitting radionuclides found in E01-01 sleeve at compact 12
(corrected to October 31, 1974)

Thickness ^a (mils)	Distance to center of cut from ID (cm)	Distance to center of cut from ID (cm)	Radionuclide concentration (μCi/g)							Ratio 137Cs/134Cs	
			54Mn	60Co ^b	106Ru ^b	110mAg ^b	134Cs	137Cs	144Ce ^b		154Eu ^b
20	0.051	0.025	-	15.2	<1.69E3	3.46E3	7.7E4	4.38E4	<1.39E4	45.9	0.57
10	0.025	0.064	-	23.2	<1.55E3	475.7	6.23E4	3.49E4	<1.2E4	<27.0	0.56
30	0.076	0.114	-	11.3	<1.19E3	<167.1	4.55E4	2.5E4	<9.47E3	<19.0	0.55
30	0.076	0.19	-	<4.2	<620	<100	2.90E4	1.55E4	<5.14E3	<12.0	0.53
30	0.076	0.27	-	4.64	<450	<66	1.85E4	9.83E3	<3.35E3	<7.7	0.53
30	0.076	0.42	-	4.52	<225	<32	9.58E3	5.01E3	<1.76E3	<3.8	0.52
30	0.076	0.57	-	4.62	<145	<18	4.81E3	2.44E3	<1.07E3	<2.1	0.51
30	0.076	0.65	-	4.12	<84	<12	3.57E3	1.81E3	<650.9	<1.5	0.51
30	0.076	0.72	-	4.56	<66	<8	2.42E3	1.22E3	<492.5	<1.0	0.50
30	0.076	0.8	-	3.79	<51	<6	1.57E3	7.88E2	<364.7	<0.7	0.50
30	0.076	0.87	-	2.63	<21	<3	6.69E2	3.34E2	<150.3	0.58	0.50
15	0.038	0.93	-	5.28	<8	<1	2.63E2	1.32E2	<60.9	0.34	0.50
6	0.015	0.96	4.21	20.0	<43	<6	1.09E3	5.52E2	<306.9	4.35	0.51

^aThickness of sample milled from sleeve.

^bNumbers preceded by < are upper-limit values.

Table 4.3-3. Radial distribution of gamma-emitting radionuclides found in E01-01 sleeve at compact 18
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from ID (cm)	Radionuclide concentration (μCi/g)								Ratio 137Cs/134Cs
			⁵⁴ Mn	⁶⁰ Co	¹⁰⁶ Ru ^b	^{110m} Ag ^b	¹³⁴ Cs	¹³⁷ Cs	¹⁴⁴ Ce ^b	¹⁵⁴ Eu ^b	
20	0.051	0.025	-	611.6	<1.23E3	<215.7	3.77E4	2.12E4	<1.09E4	6.57E3	0.56
10	0.025	0.064	-	281.9	<1.4E3	<231.6	4.17E4	2.36E4	<1.22E4	6.67E3	0.57
30	0.076	0.114	-	-	<960	<176.5	3.33E4	1.87E4	<7.75E3	1.26E3	0.56
30	0.076	0.19	-	4.7	<500	<78.7	2.23E4	1.22E4	<4.07E3	<9.8	0.54
30	0.076	0.27	-	3.1	<300	<51.6	1.47E4	7.91E3	<2.38E3	<6.3	0.54
30	0.076	0.42	-	2.0	<110	<15.1	3.5E3	1.85E3	<810	<1.8	0.53
30	0.076	0.57	-	2.5	<21	<2.9	687.7	356.2	<160	<0.4	0.52
30	0.076	0.65	-	2.5	<9	<1.2	276.7	142.0	<63	0.28	0.51
30	0.076	0.72	-	2.2	<3.6	<0.5	101.9	51.6	<26	0.27	0.51
30	0.076	0.8	-	2.1	<1.4	<0.3	33.6	16.6	<11	0.37	0.49
30	0.076	0.87	0.13	3.2	<0.5	<0.1	11.4	5.7	-	0.4	0.49
15	0.038	0.93	0.34	5.7	<0.7	<0.2	9.6	4.8	<6.8	0.47	0.50
3	0.008	0.96	5.28	19.4	<5.7	<1.5	98.3	52.1	<48.5	4.52	0.53

^aThickness of sample milled from sleeve.

^bNumbers preceded by < are upper-limit values.

Table 4.3-4. Radial distribution of gamma-emitting radionuclides found in E01-01 sleeve at compact 28
(corrected to October 31, 1974)

Thickness ^a (mils)	Distance to center of cut from ID (cm)	Radionuclide concentration (μCi/g)	Ratio								
			⁵⁴ Mn	⁶⁰ Co	¹⁰⁶ Ru ^b	^{110m} Ag ^b	¹³⁴ Cs	¹³⁷ Cs	¹⁴⁴ Ce ^b	¹⁵⁴ Eu	¹³⁷ Cs/ ¹³⁴ Cs
20	0.051	0.025	-	65.0	<34.8	78.5	442.9	353.2	-	164.8	0.80
10	0.025	0.064	-	28.4	<31.6	130.9	501.0	400.1	-	104.0	0.80
30	0.076	0.114	-	2.3	<9.5	31.7	228.3	183.8	<66.0	0.35	0.81
30	0.076	0.19	-	1.3	<3.1	<0.4	79.5	61.83	<22.0	0.38	0.78
30	0.076	0.27	-	1.3	<1.2	<0.2	30.06	23.43	<8.5	0.42	0.78
30	0.076	0.42	0.08	1.8	<0.3	<0.08	5.18	3.93	<2.6	0.44	0.76
30	0.076	0.57	0.11	2.1	-	<0.06	1.26	0.92	-	0.51	0.73
30	0.076	0.65	0.08	1.8	-	<0.05	0.58	0.41	-	0.52	0.71
30	0.076	0.72	0.07	1.5	-	<0.05	0.35	0.24	-	0.53	0.69
30	0.076	0.8	0.05	1.3	-	<0.05	0.28	0.17	-	0.56	0.61
30	0.076	0.87	0.07	1.6	-	<0.05	0.61	0.33	-	0.57	0.54
15	0.038	0.93	0.22	2.9	<0.2	<0.08	2.32	1.22	<2.3	0.54	0.53
8	0.020	0.96	1.24	6.0	-	<0.19	8.87	4.77	<5.3	0.81	0.54

^aThickness of sample milled from sleeve.

^bNumbers preceded by < are upper-limit values.

Table 4.3-5. Radial distribution of gamma-emitting radionuclides found in E01-01 spine at compact 23
(corrected to October 31, 1974)

Thickness ^a (mils)	Distance to center of cut from OD (cm)	Radionuclide concentration (μCi/g)								Ratio ¹³⁷ Cs/ ¹³⁴ Cs	
		⁵⁴ Mn	⁶⁰ Co	¹⁰⁶ Ru ^b	^{110m} Ag ^b	¹³⁴ Cs	¹³⁷ Cs	¹⁴⁴ Ce ^b	¹⁵⁴ Eu		
8	0.020	0.01	-	5.6	-	<14.7	1.01E3	610.3	5.77E3	720.2	0.60
15	0.038	0.039	-	1.4	<31.5	<4.9	574.8	348.7	<260	110.6	0.61
30	0.076	0.096	-	1.2	<22.7	<3.5	543.4	326.6	<180	72.9	0.60
30	0.076	0.17	-	1.2	<22.0	<3.2	514.2	307.9	<180	68.6	0.60
30	0.076	0.25	-	1.2	<21.9	<3.4	486.1	288.2	<174	64.6	0.59
30	0.076	0.32	-	1.1	<21.8	<3.2	452.6	269.0	<172	62.1	0.59
30	0.076	0.40	-	1.1	<28.3	<4.0	460.8	270.9	<218	61.5	0.59
30	0.076	0.48	-	1.1	<21.6	<3.2	397.3	231.2	<168	56.1	0.61
30	0.076	0.55	-	-	<21.2	<3.1	354.0	205.1	<165	52.8	0.58
30	0.076	0.63	-	1.0	<14.5	<2.3	305.5	174.8	<116	48.9	0.57
30	0.076	0.70	-	1.1	<14.3	<2.2	269.5	153.6	<116	46.6	0.57
30	0.076	0.78	-	1.1	<14.0	<2.1	236.3	135.7	<111	45.6	0.57
60	0.152	0.86	-	1.1	<9.9	<1.7	198.8	121.1	<84	41.5	0.61
80	0.203	1.03	-	0.9	<8.3	<1.4	147.8	83.15	<70	38.1	0.56
62.5	0.159	1.69	-	0.9	<4.5	<0.9	47.55	25.59	<45	29.6	0.54
125	0.318	1.93	-	1.0	<4.5	<0.9	42.54	22.98	<45	30.0	0.54

^aThickness of sample milled from spine.

^bNumbers preceded by < are upper-limit values.

Table 4.3-6. Radial distribution of gamma-emitting radionuclides found in E01-01 spine at compact 28
(corrected to October 31, 1974)

Thickness ^a (mils)	Distance to center of cut from OD (cm)	Radionuclide concentration (μCi/g)								Ratio 137Cs/134Cs	
		54Mn	60Co	106Ru ^b	110mAg ^b	134Cs	137Cs	144Ce ^b	154Eu		
6	0.015	0.0075	-	33.0	370.7	<9.7	132.9	169.1	4.75E3	246.0	1.27
15	0.038	0.034	-	7.0	<2.9	<0.8	8.31	7.93	-	35.4	0.95
30	0.076	0.09	-	6.4	<2.4	<0.7	5.74	5.60	<27.1	26.5	0.98
30	0.076	0.17	-	6.2	-	<0.7	5.05	5.03	<25.9	22.2	1.0
30	0.076	0.24	-	5.5	<2.2	<0.7	4.59	4.42	<24.9	19.2	0.96
30	0.076	0.32	-	4.8	<2.1	<0.6	4.14	3.82	<24.8	16.2	0.92
30	0.076	0.4	-	4.0	<1.5	<0.5	3.76	3.35	<17.7	13.8	0.89
30	0.076	0.47	-	3.3	<1.4	<0.4	3.21	2.95	<16.2	11.7	0.92
30	0.076	0.55	-	2.7	<1.4	<0.4	2.93	2.62	<16.5	10.1	0.89
30	0.076	0.62	-	2.1	<0.9	<0.3	2.60	2.25	<10.6	8.6	0.87
30	0.076	0.7	-	1.7	<0.9	<0.3	2.32	1.99	<10.4	7.3	0.86
30	0.076	0.78	-	1.4	<0.9	<0.3	2.05	1.69	<9.4	6.6	0.82
60	0.152	0.89	-	1.1	-	<0.2	1.74	1.39	<6.8	5.5	0.80
50	0.127	1.03	-	1.0	<0.6	<0.2	1.32	0.99	<7.2	4.4	0.75
62.5	0.159	1.73	-	0.9	-	<0.07	0.55	0.30	-	1.9	0.55
125	0.318	1.96	-	0.9	-	<0.07	0.38	0.20	-	1.6	0.53

^aThickness of sample milled from spine.

^bNumbers preceded by < are upper-limit values.

Fig. 4.3-1. Radial distribution of gamma-emitting radionuclides in E01-01 sleeve at compact 4 (corrected to October 31, 1974).

Fig. 4.3-2. Radial distribution of gamma-emitting radionuclides in E01-01 sleeve at compact 12 (corrected to October 31, 1974).

Fig. 4.3.3. Radial distribution of gamma-emitting radionuclides in E01-01 sleeve at compact 18 (corrected to October 31, 1974).

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Fig. 4.3-4. Radial distribution of gamma-emitting radionuclides in E01-01 spine at compact 23 (corrected to October 31, 1974).

Fig. 4.3-5. Radial distribution of gamma-emitting radionuclides in E01-01 spine and sleeve at compact 28 (corrected to October 31, 1974).

Fig. 4.3-6. Radial distribution of the $^{137}\text{Cs}/^{134}\text{Cs}$ ratio at compacts 4, 12, 18, 23, and 28 in element E01-01 (corrected to October 31, 1974).

5. DISTRIBUTIONS OF ^3H , ^{14}C , AND ^{90}Sr

Radial distributions of ^3H , ^{14}C , and ^{90}Sr were obtained in the sleeve opposite compact locations 4, 12, 18, and 28 and in the spine opposite locations 23 and 28. The radiochemical methods used to effect these analyses are outlined in Sect. 5 of ref. 2. The results of these measurements are listed in Tables 5.1-1 through 5.1-6 and are plotted in Figs. 5.1-1 through 5.1-5.

6. FUEL PARTICLE EXAMINATION

The reader is referred to Sect. 6 of ref. 4 for a summary of observations regarding (1) fuel particle failure fractions in elements E11-07 and F03-01; (2) fission product inventories in individual fuel particles taken from compacts 2, 13, 19, and 28 of element F03-01, and compacts 2, 9, 13, and 16 of element E11-07; and (3) heavy-metal inventories (^{232}Th , uranium isotopes, ^{238}Pu , ^{241}Am , and ^{244}Cm) in selected particles from these samples. Examination of E01-01 was limited to metallographic recordings of the appearance of the fuel in compacts 2, 9, 22, and 29.

6.1 Metallographic Examination of Fuel Compacts*

Representative photomicrographs obtained from samples of fuel compacts 2, 9, 22, and 29 are presented in this section. The reader should keep in mind that any such collection of photomicrographs would naturally over-emphasize the failed particles or other abnormal features, since it is desired to display the modes of failure. Although a number of typical particles are included, one does not obtain a proper estimate of the failed fuel fraction by scanning through this series. Determinations of the failed particle fraction by a hot-chlorine leaching procedure are presented in Sect. 6.3 of ref. 4.

* These examinations were performed by the Remote Metallography Group of the Metals and Ceramics Division in the High-Radiation-Level Examination Laboratory.

Table 5.1-1. Radial distribution of beta-emitting radionuclides
found in E01-01 sleeve at compact 4
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from ID (cm)	Radionuclide concentration (μCi/g)		
			³ H	¹⁴ C	⁹⁰ Sr
20	0.051	0.026	88.4	0.50	53.9
20	0.051	0.066	223.6	0.22	9.1
30	0.076	0.12	139.5	0.22	14.0
30	0.076	0.272	10.6	0.23	11.1
30	0.076	0.424	10.4	0.22	3.7
30	0.076	0.576	10.6	0.20	0.03
30	0.076	0.728	9.3	0.22	0.02
20	0.051	0.88	10.5	0.22	0.06
3	0.008	0.96	36.4	1.71	9.33

^aThickness of sample milled from sleeve.

Table 5.1-2. Radial distribution of beta-emitting radionuclides
found in E01-01 sleeve at compact 12
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from ID (cm)	Radionuclide concentration (μCi/g)		
			³ H	¹⁴ C	⁹⁰ Sr
20	0.051	0.025	43.07	0.64	5029.9
10	0.025	0.064	38.36	0.40	67.31
30	0.076	0.114	35.95	0.34	10.47
30	0.076	0.266	43.20	0.32	8.64
30	0.076	0.418	61.19	0.34	4.70
30	0.076	0.57	68.70	0.33	7.28
30	0.076	0.72	83.74	0.32	7.84
15	0.038	0.87	100.68	0.34	0.06
6	0.015	0.96	70.47	2.22	74.09

^aThickness of sample milled from sleeve.

Table 5.1-3. Radial distribution of beta-emitting radionuclides
found in E01-01 sleeve at compact 18
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from ID (cm)	Radionuclide concentration ($\mu\text{Ci/g}$)		
			^3H	^{14}C	^{90}Sr
20	0.051	0.025	11.67	0.376	1.53E5
10	0.025	0.064	18.46	0.515	2.36E5
30	0.076	0.114	13.99	0.294	9.9E4
30	0.076	0.266	15.38	0.320	6.24
30	0.076	0.418	18.14	0.297	19.5
30	0.076	0.57	24.04	0.302	0.05
30	0.076	0.722	37.11	0.319	0.06
30	0.076	0.874	78.18	0.333	0.12
3	0.008	0.96	95.11	2.18	109.9

^aThickness of sample milled from sleeve.

Table 5.1-4. Radial distribution of beta-emitting radionuclides
found in E01-01 sleeve at compact 28
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from ID (cm)	Radionuclide concentration ($\mu\text{Ci/g}$)		
			^3H	^{14}C	^{90}Sr
20	0.051	0.025	9.5	0.36	9805.0
10	0.025	0.064	15.5	0.37	7138.0
30	0.076	0.114	8.8	2.09	29.0
30	0.076	0.266	8.2	0.17	0.037
30	0.076	0.418	9.6	0.18	0.025
30	0.076	0.57	12.1	0.17	0.034
30	0.076	0.722	18.3	0.18	0.026
30	0.076	0.874	26.9	0.20	0.114
8	0.020	0.96	42.3	0.66	23.17

^aThickness of sample milled from sleeve.

Table 5.1-5. Radial distribution of beta-emitting radionuclides
found in E01-01 spine at compact 23
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from OD (cm)	Radionuclide concentration ($\mu\text{Ci/g}$)		
			^3H	^{14}C	^{90}Sr
8	0.02	0.010	3.90	4.37	25,154
15	0.038	0.039	2.72	0.65	3,299
30	0.076	0.097	2.54	0.43	2,427
30	0.076	0.173	2.04	0.53	1,876
30	0.076	0.249	2.35	0.58	1,788
30	0.076	0.401	2.21	0.56	1,611
30	0.076	0.554	2.03	0.55	1,960
30	0.076	0.706	2.03	0.56	1,379
60	0.152	0.858	1.98	0.56	1,742
62.5	0.159	1.68	1.73	0.48	1,179
125	0.318	1.92	1.77	0.57	1,211

^aThickness of sample milled from spine.

Table 5.1-6. Radial distribution of beta-emitting radionuclides
found in E01-01 spine at compact 28
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from OD (cm)	Radionuclide concentration ($\mu\text{Ci/g}$)		
			^3H	^{14}C	^{90}Sr
6	0.015	0.0075	6.42	5.63	12151.0
15	0.038	0.034	2.28	0.35	2428.0
30	0.076	0.091	3.13	0.43	1263.0
30	0.076	0.167	3.29	0.44	1064.0
30	0.076	0.243	3.78	0.50	1008.0
30	0.076	0.395	3.48	0.48	139.5
30	0.076	0.547	2.59	0.44	665.0
30	0.076	0.699	2.39	0.39	467.8
60	0.152	0.889	2.26	0.39	313.0
62.5	0.159	1.728	1.61	0.31	96.4
125	0.318	1.96	1.43	0.43	92.9

^aThickness of sample milled from spine.

Fig. 5.1-1. Radial distribution of beta-emitting radionuclides found in E01-01 sleeve at compact 4 (corrected to October 31, 1974).

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Fig. 5.1-2. Radial distribution of beta-emitting radionuclides found in E01-01 sleeve at compact 12 (corrected to October 31, 1974).

Fig. 5.1-3. Radial distribution of beta-emitting radionuclides found in E01-01 sleeve at compact 18 (corrected to October 31, 1974).

Fig. 5.1-4. Radial distribution of beta-emitting radionuclides found in E01-01 spine at compact 23 (corrected to October 31, 1974).

Fig. 5.1-5. Radial distribution of beta-emitting radionuclides found in E01-01 sleeve and spine at compact 28 (corrected to October 31, 1974).

The fuel particles in all Peach Bottom HTGR driver elements were of the type designated as BISO with kernels composed of mixed $(\text{Th}, \text{U})\text{C}_2$. Compacts 1 through 9 (numbered from the bottom of the core) and 28 through 30 were the so-called "standard compacts" with an initial Th/U ratio of 5.5 and no burnable poison. The central compacts, numbered 10 through 27, had the same amounts of thorium and uranium as did the standard compacts and, additionally, 1.03 g of rhodium per compact. More complete specifications of the fuel compacts are given in ref. 1 as well as in the summary presented in Sect. 2.2 of ref. 7. No migration rate studies were made on F03-01 particles.

The photomicrographs (Figs. 6.1-1 through 6.1-23) are presented in four sets, one for each of the four compacts. The operating conditions for these four compacts at end of life may be observed from Figs. 2.2-2 and 2.2-3 of ref. 4. While the neutron fluence profiles presented in Fig. 2.2-3 of ref. 4 may be considered to be reasonably accurate, the temperatures presented in Fig. 2.2-2 of ref. 4 are highly preliminary. At present, work ongoing at GAC is endeavoring to specify Peach Bottom fuel service temperatures more accurately.

Each of the four sets of photomicrographs begins with 50X collective views of polished sections of the compacts which were taken near the inside and outside diameters and at the midsection of the wall of the compacts; these views include about 6 to 12 fuel particles. The collective views depict the general condition of a few particles and the matrix graphite. Most of the photographs of single particles, which follow the collective views, were taken at 200X; however, a few were taken at 500X. Most pictures were made with normal lighting, although polarized light was used in a few cases.

Fig. 6.1-1. Collective view near inside diameter (left) and mid-section (right) of compact 2. Magnification 50X.

Fig. 6.1-2. Collective view near outside diameter of compact 2.
Magnification 50X.

Fig. 6.1-3. Particle near inner diameter of compact 2 viewed with polarized (left) and normal (right) light. Magnification 200X.

50 100 MICRONS 200X 300 350
0.005 INCHES 0.010 0.015

50 100 MICRONS 200X 300 350
0.005 INCHES 0.010 0.015

Fig. 6.1-4. Two particles near outside diameter (left) and central zone (right) of compact 2. Magnification 200X.

50 100 MICRONS 300 350
200X
0.005 INCHES 0.010 0.015

Fig. 6.1-5. A typical particle near central zone of compact 2.
Magnification 200X.

Fig. 6.1-6. Two abnormal particles seen in compact 2. Magnification 200X.

Fig. 6.1-7. Composite view near inner diameter of compact 9.
Magnification 50X.

Fig. 6.1-8. Composite views near outside diameter (left) and in central zone (right) of compact 9. Magnification 50X.

Fig. 6.1-9. Two particles near outside diameter (left) and inside diameter (right) of compact 9. Magnification 200X.

R-72083

50 100 MICRONS 300 350
200X
0.005 INCHES 0.010 0.015

R-72082

50 100 MICRONS 300 350
200X
0.005 INCHES 0.010 0.015

Fig. 6.1-10. Particle near central zone of compact 9 viewed with polarized (left) and normal (right) light. Magnification 200X.

100 200 MICRONS 600 700
0.005 0.010 100X INCHES 0.020 0.025

50 100 MICRONS 300 350
0.005 200X INCHES 0.010 0.015

Fig. 6.1-11. Particles from compact 9 showing separation from matrix. Magnification: 100X (left), 200X (right).

Fig. 6.1-12. Composite view near inside diameter (left) and in central zone (right) of compact 22. Magnification 50X.

50 100 MICRONS 200X 300 350
0.005 INCHES 0.010 0.015

200 400 MICRONS 50X 1200 1400
0.01 INCHES 0.05

Fig. 6.1-13. Composite view near outside diameter (left) and single particle near inside diameter (right) of compact 22. Magnification: 200X (left), 50X (right).

50 100 MICRONS 300 350
200X
0.005 INCHES 0.010 0.015

50 100 MICRONS 300 350
200X
0.005 INCHES 0.010 0.015

Fig. 6.1-14. Fuel particles near outside diameter (left) and from central zone (right) of compact 22. Magnification 200X.

Fig. 6.1-15. A nonspheroidal particle (left) and an in-service failure (right) near outside diameter of compact 22. Magnification 200X.

Fig. 6.1-16. Particle showing fuel migration from central region of compact 22. Magnification 200X.

Fig. 6.1-17. Close-up view of particle in Fig. 6.1-16 under polarized (left) and normal (right) light. Magnification 500X.

Fig. 6.1-18. Composite view near central zone (left) and inside diameter (right) of compact 29. Magnification 50X.

Fig. 6.1-19. Composite view near outside diameter (left) and single particle near inside diameter (right) of compact 29. Magnification: 150X (left), 50X (right).

R-72105

R-72107

125 MICRONS 375
0.005 150X INCHES 0.015

125 MICRONS 375
0.005 150X INCHES 0.015

Fig. 6.1-20. Particles near outside diameter (left) and from central zone (right) of compact 29. Magnification 150X.

20 40 60 MICRONS 120 140
0.001 500X 0.005
INCHES

100 200 MICRONS 600 700
0.005 0.010 100X 0.020 0.025
INCHES

Fig. 6.1-21. Particle near inside diameter of compact 29 illustrating in-service pressure failure. Magnification: 500X (left), 100X (right).

125 375
MICRONS
0.005 0.015
150X
INCHES

100 200 600 700
MICRONS
0.005 0.010 0.020 0.025
100X
INCHES

Fig. 6.1-22. Matrix separation and odd-shaped particles from compact 29. Magnification: 150X (left), 100X (right).

Fig. 6.1-23. Inner diameter region of compact 29 showing coating of pyrocarbon viewed with polarized (left) and normal (right) light. Magnification 500X.

7. REFERENCES

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8. APPENDIX

8.1 Appendix A: Measured Axial Distribution of
Gamma-Emitters in the Sleeve, Spine, and
Bottom Connector in Planes 1 and 2

Tables A-1 through A-24 list measured nuclide inventories along the axes of two planes of the sleeve, spine, and bottom connector in terms of curies per 3-in. segments. The listed "error" is the standard deviation in percent determined from the counting statistics. The designations (****), which occasionally appear in the "error" column, signify that an upper-limit value appears in the inventory column.

Table A-1. Axial distribution of ^{60}Co in the sleeve of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.19	1.03E-05	14.1	5.39E-05	5.4
2	0.43	8.55E-05	4.8	2.35E-04	4.3
3	0.68	3.60E-04	3.6	4.36E-04	2.2
4	0.92	5.14E-04	2.1	3.77E-04	2.0
5	1.17	4.33E-04	1.8	3.79E-04	2.0
6	1.41	4.34E-04	1.8	3.94E-04	1.9
7	1.66	4.13E-04	1.9	3.89E-04	2.0
8	1.91	4.10E-04	1.9	3.87E-04	2.0
9	2.15	4.07E-04	1.9	3.81E-04	2.0
10	2.40	4.17E-04	1.9	3.83E-04	2.0
11	2.64	4.29E-04	1.9	3.55E-04	2.1
12	2.89	4.26E-04	1.9	3.66E-04	2.1
13	3.14	4.18E-04	2.0	3.71E-04	2.2
14	3.38	4.43E-04	1.9	3.35E-04	2.4
15	3.63	4.58E-04	2.0	3.50E-04	2.3
16	3.87	4.45E-04	2.0	3.64E-04	2.3
17	4.12	4.77E-04	3.4	3.72E-04	2.4
18	4.37	4.96E-04	3.5	3.22E-04	2.7
19	4.61	5.32E-04	3.3	4.40E-04	3.7
20	4.86	4.82E-04	3.7	4.50E-04	3.8
21	5.10	5.31E-04	3.4	4.67E-04	3.8
22	5.35	4.79E-04	3.8	4.73E-04	3.7
23	5.60	5.55E-04	3.4	4.18E-04	4.4
24	5.84	5.32E-04	3.6	4.45E-04	4.3
25	6.09	3.82E-04	7.4	4.23E-04	6.8
26	6.33	3.71E-04	7.6	3.67E-04	7.9
27	6.58	3.23E-04	9.6	4.31E-04	7.2
28	6.82	3.43E-04	8.7	3.57E-04	8.3
29	7.07	3.50E-04	8.0	4.70E-04	6.4
30	7.32	2.72E-04	11.0	4.43E-04	7.1
31	7.56	3.98E-04	7.5	3.71E-04	8.4
32	7.81	3.64E-04	8.1	4.20E-04	7.1
33	8.05	4.26E-04	6.9	3.52E-04	8.7
34	8.30	4.19E-04	7.4	3.38E-04	9.2
35	8.55	4.25E-04	7.6	4.50E-04	7.0
36	8.79	3.37E-04	9.9	3.84E-04	8.0
37	9.04	4.15E-04	7.9	3.25E-04	9.0
38	9.28	4.69E-04	7.7	3.88E-04	8.1
39	9.53	3.88E-04	10.3	4.27E-04	7.3
40	9.78	2.43E-04	18.9	4.91E-04	6.4
41	10.02	4.37E-04	12.4	4.65E-04	7.1
42	10.27	5.01E-04	10.9	5.07E-04	6.7
43	10.51	6.77E-04	13.4	4.02E-04	8.3
44	10.76	4.87E-04	19.6	2.97E-04	11.3
45	11.01	5.67E-04	18.8	3.69E-04	10.4
46	11.25	4.86E-04	24.5	4.11E-04	10.0

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
47	11.50	7.55E-04	17.4	3.59E-04	13.0
48	11.74	3.01E-04	****	1.24E-03	11.3
49	11.99	5.62E-04	24.0	1.03E-03	13.7
50	12.23	5.69E-04	22.6	1.40E-03	10.3
51	12.48	5.55E-04	25.2	1.43E-04	****
52	12.73	6.44E-04	21.7	1.08E-03	15.2
53	12.97	3.43E-04	37.6	9.92E-04	14.8
54	13.22	4.45E-04	29.0	1.00E-03	14.3
55	13.46	3.93E-04	35.8	1.07E-03	13.8
56	13.71	1.64E-04	25.9	1.15E-03	13.7
57	13.96	6.84E-04	21.7	1.47E-03	10.5
58	14.20	5.85E-04	26.6	9.71E-04	16.7
59	14.45	6.51E-04	19.7	1.21E-03	14.1
60	14.69	4.61E-04	32.7	1.37E-03	13.6
61	14.94	5.55E-04	25.9	1.47E-03	11.8
62	15.19	6.30E-04	25.4	1.09E-03	15.0
63	15.43	7.54E-04	21.6	1.41E-03	11.5
64	15.68	7.47E-04	26.1	1.25E-03	14.9
65	15.92	7.99E-04	18.0	1.08E-03	17.5
66	16.17	7.62E-04	16.2	1.29E-03	15.1
67	16.41	6.34E-04	23.8	1.32E-03	14.9
68	16.66	5.94E-04	28.3	8.92E-04	20.7
69	16.91	6.00E-04	25.2	1.25E-03	14.9
70	17.15	4.38E-04	****	1.52E-03	14.2
71	17.40	6.53E-04	33.3	9.95E-04	22.6
72	17.64	6.70E-04	32.3	1.24E-03	22.1
73	17.89	7.19E-04	31.1	1.13E-03	20.4
74	18.14	4.89E-04	****	1.62E-03	13.3
75	18.38	8.27E-04	27.0	6.94E-04	27.6
76	18.63	6.89E-04	32.3	1.35E-03	16.1
77	18.87	1.01E-03	26.2	7.79E-04	26.5
78	19.12	6.12E-04	****	1.14E-03	18.1
79	19.37	7.68E-04	30.5	8.33E-04	28.2
80	19.61	1.03E-03	21.1	1.60E-03	16.1
81	19.86	6.52E-04	34.0	1.70E-03	16.2
82	20.10	9.62E-04	22.5	1.33E-03	21.3
83	20.35	5.14E-04	****	1.53E-03	18.7
84	20.60	1.02E-03	23.0	1.11E-03	25.7
85	20.84	7.00E-04	32.7	7.17E-04	****
86	21.09	5.42E-04	****	1.17E-03	28.6
87	21.33	5.56E-04	****	9.51E-04	30.4
88	21.58	1.09E-03	21.6	8.56E-04	36.2
89	21.82	8.65E-04	31.9	1.51E-03	20.0
90	22.07	6.93E-04	37.8	8.19E-04	38.3
91	22.32	6.30E-04	33.5	1.48E-03	20.7
92	22.56	9.04E-04	20.4	9.34E-04	35.4

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
93	22.81	8.52E-04	22.4	1.41E-03	21.1
94	23.05	4.93E-04	****	1.37E-03	18.7
95	23.30	5.55E-04	****	1.17E-03	21.8
96	23.55	9.32E-04	25.6	1.16E-03	28.9
97	23.79	6.66E-04	36.4	1.24E-03	29.5
98	24.04	7.67E-04	30.6	8.52E-04	****
99	24.28	5.98E-04	****	1.64E-03	19.3
100	24.53	7.60E-04	****	1.59E-03	20.0
101	24.78	9.56E-04	****	8.86E-04	38.8
102	25.02	9.98E-04	****	7.59E-04	****
103	25.27	1.11E-03	31.9	1.08E-03	34.9
104	25.51	1.41E-03	25.4	1.68E-03	22.3
105	25.76	1.04E-03	31.4	1.19E-03	34.3
106	26.00	1.33E-03	26.8	9.42E-04	****
107	26.25	1.08E-03	32.0	1.44E-03	32.1
108	26.50	1.00E-03	24.6	1.27E-03	39.5
109	26.74	1.63E-03	19.3	1.75E-03	28.9
110	26.99	2.05E-03	13.7	1.61E-03	33.5
111	27.23	1.10E-03	25.3	2.26E-03	18.8
112	27.48	1.74E-03	19.3	1.59E-03	27.4
113	27.73	1.49E-03	24.7	1.25E-03	32.4
114	27.97	1.38E-03	25.4	1.73E-03	23.3
115	28.22	1.31E-03	23.4	1.68E-03	23.6
116	28.46	1.49E-03	21.9	1.52E-03	25.2
117	28.71	7.09E-04	****	2.44E-03	14.2
118	28.96	1.28E-03	25.7	8.87E-04	34.4
119	29.20	1.57E-03	19.1	1.62E-03	24.0
120	29.45	2.23E-03	13.2	1.44E-03	23.8
121	29.69	1.82E-03	17.7	1.43E-03	28.0
122	29.94	1.47E-03	18.9	1.12E-03	35.7
123	30.25	1.73E-04	****	2.52E-04	32.7
124	30.49	2.78E-04	****	1.36E-03	30.9
125	30.74	2.15E-03	18.0	1.07E-03	****
126	30.99	1.85E-03	20.8	1.01E-03	****
127	31.23	8.42E-04	****	2.65E-03	17.4
128	31.48	1.91E-03	20.9	1.06E-03	****
129	31.72	2.66E-03	15.3	2.22E-03	22.4
130	31.97	1.05E-03	29.0	1.71E-03	30.4
131	32.21	1.78E-03	24.1	1.12E-03	****
132	32.46	1.58E-03	25.6	1.34E-03	39.0
133	32.71	9.47E-04	32.3	1.08E-03	****
134	32.95	1.30E-03	32.0	1.14E-03	****
135	33.20	9.48E-04	****	1.66E-03	33.0
136	33.44	1.04E-03	****	1.43E-03	****
137	33.69	1.14E-03	****	1.21E-03	****
138	33.94	1.21E-03	34.9	1.92E-03	24.3

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
139	34.18	1.91E-03	20.1	1.83E-03	26.9
140	34.43	1.29E-03	29.5	1.40E-03	34.4
141	34.67	1.47E-03	27.5	1.06E-03	****
142	34.92	9.49E-04	****	1.30E-03	34.8
143	35.17	1.30E-03	33.8	1.29E-03	38.6
144	35.41	1.16E-03	38.0	1.09E-03	****
145	35.66	2.45E-03	16.2	2.07E-03	22.5
146	35.90	1.42E-03	30.8	1.60E-03	33.7
147	36.15	9.51E-04	****	2.28E-03	23.5
148	36.40	1.61E-03	25.8	1.65E-03	35.5
149	36.64	1.94E-03	24.7	2.50E-03	23.4
150	36.89	2.46E-03	17.5	3.12E-03	18.4
151	37.13	2.44E-03	17.5	1.80E-03	26.7
152	37.38	2.41E-03	18.4	2.84E-03	16.4
153	37.62	1.69E-03	21.7	3.39E-03	13.8
154	37.87	1.40E-03	26.0	4.62E-03	11.7
155	38.12	2.50E-03	15.2	2.46E-03	18.0
156	38.36	3.28E-03	12.9	3.15E-03	16.1
157	38.61	2.85E-03	15.6	1.22E-03	32.4
158	38.85	9.76E-04	****	2.34E-03	21.5
159	39.10	1.50E-03	30.9	2.50E-03	20.5
160	39.35	2.59E-03	16.1	3.26E-03	14.9
161	39.59	2.20E-03	21.1	2.67E-03	18.3
162	39.84	1.57E-03	30.8	2.34E-03	20.9
163	40.08	2.26E-03	20.0	1.75E-03	29.9
164	40.33	2.37E-03	18.9	3.43E-03	14.3
165	40.58	3.61E-03	12.4	2.70E-03	18.8
166	40.82	2.01E-03	20.5	2.46E-03	16.5
167	41.07	2.45E-03	17.3	3.21E-03	15.7
168	41.31	3.63E-03	12.9	1.81E-03	25.2
169	41.56	3.59E-03	13.6	3.18E-03	16.1
170	41.81	4.09E-03	11.5	3.37E-03	15.9
171	42.05	2.66E-03	18.0	2.73E-03	19.3
172	42.30	1.70E-03	29.5	3.25E-03	17.5
173	42.54	1.49E-03	31.1	2.57E-03	23.7
174	42.79	3.21E-03	17.2	3.84E-03	17.5
175	43.03	1.24E-03	****	4.46E-03	16.6
176	43.28	2.76E-03	19.0	6.27E-03	11.8
177	43.53	2.39E-03	24.1	9.03E-03	8.4
178	43.77	2.64E-03	18.8	5.99E-03	11.0
179	44.02	3.89E-03	14.5	7.47E-03	8.7
180	44.26	3.15E-03	14.3	5.72E-03	10.9
181	44.51	4.74E-03	10.3	6.17E-03	10.9
182	44.76	3.74E-03	12.3	7.62E-03	8.5
183	45.00	4.53E-03	9.6	4.31E-03	13.2
184	45.25	3.39E-03	12.8	6.61E-03	9.5

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
185	45.49	3.75E-03	11.8	2.96E-03	17.6
186	45.74	4.44E-03	10.0	3.13E-03	17.4
187	45.99	3.11E-03	12.6	4.88E-03	11.7
188	46.23	4.68E-03	8.9	5.03E-03	11.1
189	46.48	5.74E-03	7.3	6.43E-03	8.4
190	46.72	6.29E-03	6.7	7.36E-03	7.7
191	46.97	7.04E-03	6.1	8.30E-03	6.5
192	47.21	5.24E-03	8.1	7.13E-03	7.5
193	47.46	5.50E-03	6.8	8.27E-03	6.1
194	47.71	4.67E-03	7.9	7.03E-03	7.1
195	47.95	4.78E-03	7.6	5.17E-03	9.4
196	48.20	3.90E-03	9.2	6.29E-03	7.3
197	48.44	4.56E-03	8.2	7.60E-03	6.6
198	48.69	7.24E-03	5.6	7.71E-03	7.0
199	48.94	7.09E-03	6.0	1.02E-02	5.5
200	49.18	8.06E-03	5.7	1.56E-02	4.0
201	49.43	1.17E-02	4.8	1.80E-02	3.6
202	49.67	1.15E-02	4.6	1.85E-02	3.6
203	49.92	1.24E-02	4.3	1.58E-02	3.9
204	50.17	9.12E-03	5.3	1.14E-02	4.7
205	50.41	6.96E-03	6.5	1.02E-02	5.0
206	50.66	6.89E-03	6.2	8.21E-03	5.8
207	50.90	6.42E-03	6.3	9.06E-03	5.0
208	51.15	4.88E-03	7.9	7.48E-03	5.9
209	51.40	8.39E-03	5.1	8.92E-03	5.7
210	51.64	9.31E-03	4.8	6.62E-03	6.5
211	51.89	8.07E-03	5.2	6.14E-03	6.5
212	52.13	8.07E-03	4.9	8.50E-03	5.3
213	52.38	1.08E-02	4.3	8.62E-03	5.1
214	52.62	1.01E-02	4.5	8.57E-03	5.3
215	52.87	1.07E-02	4.3	8.63E-03	5.3
216	53.12	8.83E-03	5.0	9.07E-03	4.9
217	53.36	8.32E-03	5.0	8.29E-03	5.3
218	53.61	7.58E-03	5.3	7.32E-03	5.9
219	53.85	8.13E-03	5.0	6.85E-03	6.4
220	54.10	7.56E-03	5.3	7.76E-03	5.4
221	54.35	7.40E-03	5.3	1.01E-02	4.6
222	54.59	6.67E-03	5.7	1.05E-02	4.4
223	54.84	6.50E-03	6.4	1.02E-02	4.5
224	55.08	5.97E-03	6.7	1.29E-02	3.6
225	55.33	7.39E-03	5.2	1.34E-02	3.5
226	55.58	8.37E-03	5.1	1.17E-02	3.9
227	55.82	9.01E-03	4.9	1.14E-02	3.9
228	56.07	8.77E-03	5.1	1.10E-02	3.9
229	56.31	9.36E-03	4.5	1.06E-02	4.0
230	56.56	9.15E-03	4.4	1.00E-02	4.0

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
231	56.81	9.58E-03	4.3	1.03E-02	3.9
232	57.05	1.01E-02	4.0	9.90E-03	4.0
233	57.30	9.22E-03	4.4	1.04E-02	3.7
234	57.54	9.44E-03	4.2	8.44E-03	4.4
235	57.79	6.41E-03	5.7	7.67E-03	4.8
236	58.03	6.98E-03	5.0	9.37E-03	4.1
237	58.28	7.82E-03	4.6	9.16E-03	4.2
238	58.53	7.77E-03	4.8	9.07E-03	4.3
239	58.77	7.98E-03	4.5	8.00E-03	4.8
240	59.02	7.39E-03	5.0	8.32E-03	4.5
241	59.26	8.59E-03	4.4	9.12E-03	4.2
242	59.51	7.73E-03	4.8	8.56E-03	4.5
243	59.76	6.74E-03	5.4	1.01E-02	4.1
244	60.00	7.08E-03	5.1	9.59E-03	4.3
245	60.31	2.21E-03	7.9	1.56E-03	9.6
246	60.56	1.13E-02	3.5	7.85E-03	4.7
247	60.80	1.14E-02	3.5	7.37E-03	4.7
248	61.05	9.62E-03	3.8	6.71E-03	5.1
249	61.29	8.64E-03	4.0	6.12E-03	5.1
250	61.54	7.95E-03	4.3	6.71E-03	4.5
251	61.79	7.18E-03	4.8	6.11E-03	5.2
252	62.03	7.49E-03	4.4	6.28E-03	4.8
253	62.28	7.71E-03	4.3	6.31E-03	4.9
254	62.52	8.06E-03	4.2	5.93E-03	5.0
255	62.77	8.16E-03	4.2	5.21E-03	5.7
256	63.02	9.08E-03	3.9	7.58E-03	4.3
257	63.26	9.80E-03	3.8	7.85E-03	4.4
258	63.51	9.28E-03	3.8	7.46E-03	4.4
259	63.75	9.59E-03	3.7	7.66E-03	4.3
260	64.00	1.13E-02	3.4	8.82E-03	4.0
261	64.24	1.19E-02	3.4	1.00E-02	3.8
262	64.49	9.03E-03	4.0	8.93E-03	4.0
263	64.74	7.73E-03	4.3	7.86E-03	4.3
264	64.98	7.35E-03	4.2	6.06E-03	4.9
265	65.23	6.39E-03	4.7	5.36E-03	5.3
266	65.47	6.11E-03	4.6	5.39E-03	5.1
267	65.72	6.88E-03	2.8	5.85E-03	4.7
268	65.97	8.89E-03	2.2	6.40E-03	4.5
269	66.21	1.29E-02	1.8	7.36E-03	4.2
270	66.46	1.59E-02	1.6	9.51E-03	2.4
271	66.70	1.78E-02	1.6	1.22E-02	2.1
272	66.95	1.84E-02	1.4	7.93E-03	3.0
273	67.20	1.60E-02	1.6	8.87E-03	2.5
274	67.44	1.25E-02	1.8	8.86E-03	2.5
275	67.69	1.10E-02	1.8	8.24E-03	2.6
276	67.93	1.08E-02	1.8	7.59E-03	2.6

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
277	68.18	1.01E-02	1.8	6.22E-03	2.8
278	68.42	8.80E-03	2.0	5.50E-03	3.0
279	68.67	7.67E-03	2.2	5.70E-03	2.7
280	68.92	6.81E-03	2.3	5.53E-03	2.8
281	69.16	6.15E-03	2.5	5.52E-03	2.7
282	69.41	5.70E-03	2.6	4.75E-03	3.1
283	69.65	4.55E-03	3.1	4.64E-03	3.1
284	69.90	3.49E-03	3.8	3.31E-03	4.1
285	70.15	2.83E-03	4.1	2.13E-03	5.1
286	70.39	3.63E-03	3.5	2.59E-03	4.4
287	70.64	4.04E-03	3.3	2.38E-03	4.6
288	70.88	4.25E-03	3.4	2.45E-03	4.6
289	71.13	4.37E-03	3.1	2.46E-03	4.3
290	71.38	4.15E-03	3.0	2.53E-03	4.1
291	71.62	3.46E-03	3.3	2.15E-03	4.3
292	71.87	3.25E-03	3.4	2.60E-03	3.6
293	72.11	3.18E-03	3.3	2.40E-03	3.7
294	72.36	3.10E-03	3.2	1.96E-03	4.3
295	72.61	3.38E-03	2.9	2.13E-03	3.9
296	72.85	3.91E-03	2.6	2.79E-03	3.2
297	73.10	3.07E-03	2.9	2.71E-03	3.2
298	73.34	4.69E-03	2.3	3.44E-03	2.7
299	73.59	5.16E-03	2.2	3.41E-03	2.8
300	73.83	5.61E-03	2.2	3.84E-03	2.5
301	74.08	5.62E-03	2.3	4.08E-03	2.4
302	74.33	4.75E-03	2.5	3.79E-03	2.6
303	74.57	4.27E-03	2.5	3.57E-03	2.6
304	74.82	3.99E-03	2.6	3.33E-03	2.7
305	75.06	3.71E-03	2.7	2.79E-03	3.0
306	75.31	3.58E-03	2.6	2.70E-03	3.0
307	75.56	3.83E-03	2.5	2.47E-03	3.1
308	75.80	4.22E-03	2.3	2.54E-03	3.0
309	76.05	3.92E-03	2.3	2.99E-03	2.8
310	76.29	2.38E-03	3.1	2.24E-03	3.2
311	76.54	2.60E-03	3.0	1.92E-03	3.5
312	76.79	2.60E-03	2.8	1.99E-03	3.3
313	77.03	2.93E-03	2.6	2.17E-03	3.1
314	77.28	3.02E-03	2.5	2.63E-03	2.7
315	77.52	3.42E-03	2.3	3.00E-03	2.5
316	77.77	3.84E-03	2.2	3.34E-03	2.4
317	78.01	3.84E-03	2.2	3.44E-03	2.3
318	78.26	3.31E-03	2.4	3.12E-03	2.4
319	78.51	2.54E-03	2.7	2.45E-03	2.8
320	78.75	2.44E-03	2.8	1.89E-03	3.2
321	79.00	3.88E-03	2.2	6.39E-03	1.1
322	79.24	4.49E-03	1.3	6.79E-03	1.1

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
323	79.49	3.65E-03	1.5	3.36E-03	1.6
324	79.74	2.96E-03	1.6	2.54E-03	1.8
325	79.98	2.70E-03	1.6	2.35E-03	1.8
326	80.23	2.28E-03	1.7	2.05E-03	1.8
327	80.47	1.91E-03	1.8	1.71E-03	1.8
328	80.72	1.73E-03	1.8	1.77E-03	1.8
329	80.97	1.64E-03	1.8	1.73E-03	1.8
330	81.21	1.53E-03	1.8	1.39E-03	2.0
331	81.46	1.52E-03	1.8	1.26E-03	2.0
332	81.70	1.48E-03	1.8	1.34E-03	1.9
333	81.95	1.72E-03	1.7	1.43E-03	1.8
334	82.20	1.76E-03	1.7	1.46E-03	1.9
335	82.44	2.12E-03	1.5	1.98E-03	1.6
336	82.69	1.90E-03	1.6	1.97E-03	1.6
337	82.93	1.73E-03	1.7	1.93E-03	1.6
338	83.18	1.77E-03	1.6	1.74E-03	1.7
339	83.42	1.68E-03	1.7	1.54E-03	1.8
340	83.67	1.61E-03	1.7	1.37E-03	1.9
341	83.92	1.44E-03	1.8	1.30E-03	1.9
342	84.16	1.19E-03	1.9	9.36E-04	1.3
343	84.41	1.04E-03	2.1	8.07E-04	1.4
344	84.65	1.00E-03	2.1	6.92E-04	1.5
345	84.90	9.37E-04	1.2	5.92E-04	1.6
346	85.15	8.04E-04	1.3	5.94E-04	1.5
347	85.39	7.90E-04	1.3	6.45E-04	1.5
348	85.64	8.36E-04	1.3	7.59E-04	1.3
349	85.88	8.55E-04	1.2	8.13E-04	1.3
350	86.13	8.40E-04	1.3	8.21E-04	1.3
351	86.38	8.08E-04	1.3	7.83E-04	1.3
352	86.62	7.47E-04	1.3	6.93E-04	1.3
353	86.87	6.95E-04	1.3	6.33E-04	1.4
354	87.11	6.25E-04	1.4	5.76E-04	1.5
355	87.36	5.76E-04	1.4	5.33E-04	1.5
356	87.60	5.17E-04	1.5	4.98E-04	1.6
357	87.85	5.10E-04	1.5	4.72E-04	1.6
358	88.10	4.69E-04	1.6	4.60E-04	1.6
359	88.34	4.69E-04	1.6	4.66E-04	1.6
360	88.59	4.64E-04	1.6	4.38E-04	1.6
361	88.83	4.40E-04	1.7	4.31E-04	1.7
362	89.08	4.64E-04	1.6	4.33E-04	1.7
363	89.33	4.64E-04	1.6	4.45E-04	1.6
364	89.57	4.27E-04	1.7	4.52E-04	1.6
365	89.82	4.23E-04	1.7	4.27E-04	1.7
366	90.06	3.98E-04	1.7	4.14E-04	1.7

Table A-2. Axial distribution of ^{60}Co in the spine of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	1.22E-03	1.6	5.92E-04	2.3
2	0.37	1.19E-02	0.9	3.37E-03	1.4
3	0.61	3.55E-04	3.4	2.54E-04	4.6
4	0.86	7.85E-05	7.1	9.43E-05	6.9
5	1.11	1.52E-04	4.9	7.99E-05	8.5
6	1.35	8.62E-05	6.9	7.60E-05	9.3
7	1.60	9.69E-05	6.3	3.22E-04	3.5
8	1.84	8.37E-05	7.2	3.40E-04	3.4
9	2.09	9.68E-05	6.7	2.12E-04	4.8
10	2.34	7.70E-05	8.1	7.85E-05	9.8
11	2.58	7.26E-05	8.7	2.18E-04	4.9
12	2.83	1.18E-04	6.6	2.33E-04	4.7
13	3.07	1.10E-04	7.0	6.53E-05	14.2
14	3.32	6.58E-05	10.6	8.05E-05	11.1
15	3.57	7.20E-05	10.5	4.20E-05	20.2
16	3.81	7.42E-05	9.8	4.89E-05	19.0
17	4.06	1.42E-04	6.2	2.39E-04	5.5
18	4.30	1.34E-04	7.2	2.06E-04	6.4
19	4.55	9.12E-05	10.0	8.58E-05	14.1
20	4.80	1.25E-04	8.2	6.64E-05	20.3
21	5.04	1.90E-04	6.5	9.10E-05	16.8
22	5.29	8.23E-05	15.3	3.50E-05	****
23	5.53	9.59E-05	14.4	6.35E-05	26.2
24	5.78	4.42E-05	32.4	7.39E-05	20.4
25	6.02	7.87E-05	19.5	9.50E-05	18.5
26	6.27	1.20E-04	15.5	7.44E-05	23.6
27	6.52	2.14E-04	9.5	4.50E-05	34.9
28	6.76	5.83E-05	30.7	1.76E-04	13.4
29	7.01	4.15E-05	39.3	9.56E-05	25.5
30	7.25	8.74E-05	25.3	1.47E-04	18.9
31	7.50	5.41E-05	****	1.14E-04	25.8
32	7.75	7.65E-05	30.1	6.91E-05	****
33	7.99	5.72E-05	****	1.04E-04	34.0
34	8.24	1.01E-04	27.2	7.21E-05	****
35	8.48	6.36E-05	****	1.57E-04	22.7
36	8.73	1.02E-04	32.8	9.04E-05	****
37	8.98	9.04E-05	****	1.08E-04	****
38	9.22	1.66E-04	****	2.03E-04	34.6
39	9.47	1.79E-04	****	2.57E-04	31.9
40	9.71	1.74E-04	****	1.99E-04	****
41	9.96	1.90E-04	****	2.00E-04	****
42	10.20	2.71E-04	36.7	3.33E-04	26.2
43	10.45	1.83E-04	****	2.24E-04	****
44	10.70	2.02E-04	****	2.31E-04	****
45	10.94	2.17E-04	****	2.16E-04	****
46	11.19	2.07E-04	****	2.37E-04	****
47	11.43	3.20E-04	29.8	3.32E-04	29.2
48	11.68	2.36E-04	****	2.55E-04	****
49	11.93	2.35E-04	****	2.71E-04	****
50	12.17	3.44E-04	31.8	2.65E-04	****
51	12.42	2.82E-04	****	4.59E-04	30.1

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	2.69E-04	****	2.43E-04	36.7
53	12.91	2.96E-04	****	4.91E-04	24.5
54	13.16	2.78E-04	****	2.87E-04	****
55	13.40	2.91E-04	****	2.80E-04	****
56	13.65	3.76E-04	27.8	2.67E-04	****
57	13.89	2.67E-04	****	2.85E-04	****
58	14.14	2.71E-04	****	2.83E-04	****
59	14.39	2.99E-04	****	3.03E-04	39.4
60	14.63	3.01E-04	****	2.80E-04	****
61	14.88	3.63E-04	34.7	2.65E-04	****
62	15.12	3.98E-04	33.0	3.28E-04	35.0
63	15.37	3.12E-04	****	3.30E-04	****
64	15.61	2.97E-04	****	3.19E-04	****
65	15.86	2.81E-04	****	3.22E-04	****
66	16.11	5.85E-04	24.9	3.03E-04	****
67	16.35	3.72E-04	32.2	4.82E-04	27.5
68	16.60	3.28E-04	35.8	3.04E-04	****
69	16.84	4.47E-04	29.3	3.59E-04	38.3
70	17.09	3.94E-04	31.4	5.73E-04	24.7
71	17.34	3.64E-04	34.2	3.24E-04	****
72	17.58	7.77E-04	17.8	3.32E-04	****
73	17.83	4.69E-04	27.5	3.46E-04	****
74	18.07	2.82E-04	****	3.40E-04	****
75	18.32	4.59E-04	27.8	3.32E-04	****
76	18.57	3.15E-04	****	3.50E-04	****
77	18.81	3.69E-04	35.2	4.38E-04	35.6
78	19.06	3.65E-04	35.1	3.57E-04	****
79	19.30	3.69E-04	37.2	6.21E-04	22.6
80	19.55	6.71E-04	21.3	3.33E-04	****
81	19.79	4.85E-04	28.8	3.80E-04	34.1
82	20.04	4.61E-04	34.6	8.28E-04	20.0
83	20.29	7.60E-04	18.6	6.81E-04	26.0
84	20.53	5.90E-04	24.8	3.82E-04	****
85	20.78	3.80E-04	****	6.95E-04	25.6
86	21.02	8.03E-04	17.8	3.92E-04	****
87	21.27	7.33E-04	21.9	4.99E-04	36.0
88	21.52	7.92E-04	24.9	4.44E-04	****
89	21.76	8.49E-04	22.1	5.68E-04	35.4
90	22.01	8.58E-04	23.1	7.42E-04	27.5
91	22.25	4.54E-04	34.6	4.81E-04	****
92	22.50	5.81E-04	34.4	4.81E-04	****
93	22.75	8.89E-04	22.9	6.88E-04	30.4
94	22.99	9.87E-04	20.6	6.87E-04	32.1
95	23.24	6.93E-04	29.1	8.80E-04	22.8
96	23.48	6.13E-04	34.4	6.15E-04	34.9
97	23.73	7.90E-04	27.8	9.00E-04	25.1
98	23.98	1.05E-03	20.4	9.78E-04	21.3
99	24.22	1.52E-03	15.0	1.47E-03	14.0
100	24.47	3.84E-03	6.6	3.79E-03	7.1
101	24.71	2.84E-03	8.6	4.86E-03	5.9
102	24.96	2.23E-03	10.5	3.90E-03	6.9

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	4.39E-02	1.6	3.83E-02	1.8
104	25.45	5.76E-02	1.3	5.28E-02	1.4
105	25.70	6.68E-02	1.3	6.00E-02	1.3
106	25.94	5.58E-02	1.4	5.39E-02	1.4
107	26.19	5.58E-02	1.4	4.90E-02	1.5
108	26.43	6.04E-02	1.3	4.62E-02	1.5
109	26.68	5.82E-02	1.3	4.63E-02	1.5
110	26.93	5.90E-02	1.3	4.61E-02	1.6
111	27.17	7.32E-02	1.2	6.25E-02	1.3
112	27.42	9.21E-02	1.1	7.18E-02	1.2
113	27.66	7.91E-02	1.1	6.13E-02	1.3
114	27.91	5.47E-02	1.4	4.59E-02	1.5
115	28.16	5.05E-02	1.4	3.77E-02	1.7
116	28.40	1.74E-02	2.4	1.40E-02	2.8
117	28.65	1.47E-03	12.2	1.85E-03	9.5
118	28.89	7.83E-04	19.8	9.51E-04	18.0
119	29.14	8.55E-04	19.5	8.80E-04	17.8
120	29.39	4.68E-04	28.2	5.63E-04	26.6
121	29.63	1.25E-03	17.7	1.54E-03	14.9
122	29.88	1.16E-03	13.1	1.52E-03	10.7
123	30.12	1.00E-03	14.1	5.04E-04	27.9
124	30.37	1.31E-03	11.5	1.31E-03	11.8
125	30.61	1.65E-03	9.4	1.71E-03	9.4
126	30.86	1.07E-03	13.8	1.54E-03	11.4
127	31.11	1.21E-03	13.6	1.75E-03	9.8
128	31.35	1.90E-03	8.9	1.69E-03	10.0
129	31.60	1.27E-03	13.0	1.59E-03	10.5
130	31.84	1.52E-03	11.6	1.66E-03	10.9
131	32.09	1.88E-03	9.6	1.38E-03	13.1
132	32.34	1.68E-03	10.2	1.74E-03	10.4
133	32.58	1.49E-03	12.0	1.60E-03	10.7
134	32.83	9.49E-04	16.6	1.48E-03	12.2
135	33.07	1.07E-03	15.1	1.42E-03	12.3
136	33.32	8.18E-04	18.5	9.53E-04	15.3
137	33.57	1.02E-03	14.3	9.24E-04	16.3
138	33.81	1.32E-03	12.1	1.44E-03	11.8
139	34.06	1.00E-03	15.3	1.38E-03	12.9
140	34.30	1.54E-03	10.6	1.95E-03	9.2
141	34.55	1.09E-03	15.2	1.62E-03	11.0
142	34.79	1.41E-03	11.8	1.52E-03	11.8
143	35.04	1.15E-03	13.7	9.51E-04	17.1
144	35.29	1.39E-03	11.6	1.63E-03	10.7
145	35.53	1.55E-03	11.1	2.59E-03	6.9
146	35.78	1.92E-03	9.8	1.98E-03	9.1
147	36.02	2.31E-03	8.6	2.71E-03	7.4
148	36.27	2.61E-03	7.7	3.01E-03	6.7
149	36.52	3.44E-03	5.9	3.23E-03	7.1
150	36.76	3.46E-03	6.3	3.62E-03	6.1
151	37.01	3.37E-03	6.3	3.52E-03	5.9
152	37.25	2.91E-03	7.4	2.39E-03	8.4
153	37.50	2.99E-03	6.8	2.52E-03	7.5

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	2.21E-03	9.3	2.80E-03	6.9
155	37.99	2.67E-03	6.9	2.48E-03	7.7
156	38.24	2.53E-03	7.4	2.59E-03	7.4
157	38.48	2.53E-03	6.9	2.64E-03	7.2
158	38.73	2.28E-03	7.3	1.81E-03	9.2
159	38.98	1.90E-03	9.2	1.94E-03	8.5
160	39.22	1.50E-03	11.1	1.46E-03	10.9
161	39.47	1.33E-03	12.5	8.95E-04	17.3
162	39.71	1.31E-03	11.8	1.47E-03	10.9
163	39.96	1.23E-03	14.1	1.18E-03	13.2
164	40.20	1.46E-03	10.6	1.51E-03	11.3
165	40.45	1.18E-03	14.1	1.18E-03	12.3
166	40.70	1.13E-03	14.5	1.36E-03	12.2
167	40.94	1.23E-03	12.6	9.69E-04	15.1
168	41.19	1.50E-03	9.9	1.25E-03	13.7
169	41.43	1.57E-03	9.6	1.67E-03	9.3
170	41.68	2.04E-03	8.1	2.27E-03	7.8
171	41.93	2.63E-03	7.3	2.21E-03	8.4
172	42.17	3.89E-03	5.6	3.52E-03	5.9
173	42.42	4.34E-03	5.3	3.68E-03	6.0
174	42.66	3.75E-03	6.1	3.93E-03	5.7
175	42.91	3.59E-03	6.3	3.74E-03	5.9
176	43.16	3.03E-03	6.5	2.89E-03	6.9
177	43.40	2.72E-03	6.6	3.07E-03	6.5
178	43.65	1.69E-03	10.6	2.38E-03	7.4
179	43.89	2.18E-03	7.8	2.26E-03	8.0
180	44.14	2.21E-03	8.5	2.44E-03	7.4
181	44.39	2.42E-03	7.3	2.17E-03	8.4
182	44.63	2.39E-03	7.6	2.19E-03	7.4
183	44.88	3.08E-03	5.9	2.54E-03	7.2
184	45.12	2.79E-03	6.2	2.21E-03	7.9
185	45.37	1.96E-03	8.8	1.65E-03	9.9
186	45.61	1.38E-03	11.7	1.37E-03	10.8
187	45.86	1.23E-03	11.8	1.10E-03	13.1
188	46.11	9.84E-04	14.7	8.43E-04	15.0
189	46.35	9.55E-04	12.8	6.38E-04	20.2
190	46.60	1.01E-03	11.4	3.83E-04	29.7
191	46.84	8.41E-04	15.8	8.68E-04	16.3
192	47.09	1.02E-03	12.7	7.79E-04	16.9
193	47.34	6.63E-04	19.0	7.96E-04	15.4
194	47.58	1.16E-03	11.6	1.08E-03	12.0
195	47.83	1.69E-03	9.4	1.26E-03	11.0
196	48.07	1.47E-03	10.8	1.33E-03	10.2
197	48.32	1.96E-03	7.8	1.94E-03	7.9
198	48.57	1.99E-03	8.3	1.97E-03	7.8
199	48.81	1.89E-03	8.9	1.74E-03	8.7
200	49.06	1.51E-03	9.9	1.23E-03	11.2
201	49.30	1.53E-03	9.5	1.28E-03	11.7
202	49.55	1.43E-03	10.1	8.76E-04	15.0
203	49.79	8.10E-04	16.8	1.34E-03	9.8
204	50.04	8.81E-04	14.3	1.14E-03	12.6

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	1.26E-03	10.4	1.05E-03	11.8
206	50.53	9.45E-04	13.9	8.80E-04	14.9
207	50.78	9.93E-04	14.5	5.63E-04	26.0
208	51.02	1.29E-03	10.1	8.18E-04	17.0
209	51.27	1.16E-03	12.2	9.51E-04	14.0
210	51.52	1.11E-03	11.1	8.02E-04	15.7
211	51.76	9.23E-04	13.0	8.68E-04	12.1
212	52.01	5.75E-04	19.0	2.63E-04	35.7
213	52.25	7.75E-04	14.6	6.45E-04	15.0
214	52.50	4.85E-04	21.8	3.28E-04	29.1
215	52.75	4.11E-04	22.1	2.94E-04	27.1
216	52.99	3.84E-04	22.3	3.76E-04	22.0
217	53.24	2.97E-04	33.3	4.20E-04	20.1
218	53.48	3.85E-04	25.8	3.47E-04	25.2
219	53.73	2.44E-04	37.9	3.41E-04	27.3
220	53.98	3.29E-04	30.0	3.33E-04	27.8
221	54.22	3.82E-04	21.6	5.90E-04	13.7
222	54.47	5.20E-04	18.5	3.49E-04	25.5
223	54.71	4.30E-04	20.1	3.71E-04	24.2
224	54.96	5.21E-04	18.0	3.92E-04	21.0
225	55.20	2.47E-04	27.1	4.00E-04	17.7
226	55.45	3.38E-04	24.8	1.79E-04	****
227	55.70	2.07E-04	****	2.48E-04	34.6
228	55.94	2.17E-04	37.2	2.89E-04	25.9
229	56.19	2.00E-04	****	2.45E-04	29.6
230	56.43	1.91E-04	****	1.74E-04	****
231	56.68	2.12E-04	36.7	2.35E-04	31.6
232	56.93	1.97E-04	36.5	1.70E-04	****
233	57.17	2.44E-04	29.3	1.74E-04	****
234	57.42	1.70E-04	****	2.35E-04	26.0
235	57.66	1.57E-04	****	1.68E-04	****
236	57.91	1.89E-04	****	1.72E-04	****
237	58.16	2.36E-04	36.3	2.43E-04	36.1
238	58.40	1.97E-04	****	1.65E-04	****
239	58.65	1.72E-04	****	1.68E-04	****
240	58.89	1.65E-04	****	1.65E-04	****
241	59.14	1.58E-04	****	2.52E-04	24.2
242	59.39	1.76E-04	34.4	1.85E-04	33.8
243	59.63	1.61E-04	****	1.58E-04	****
244	59.88	1.47E-04	****	1.91E-04	32.8
245	60.12	1.37E-04	37.9	1.38E-04	****
246	60.37	1.07E-04	****	1.01E-04	****
247	60.61	9.79E-05	****	9.88E-05	****
248	60.86	9.73E-05	****	9.17E-05	****
249	61.11	8.60E-05	****	8.07E-05	****
250	61.35	8.35E-05	****	7.77E-05	****
251	61.60	8.34E-05	****	7.30E-05	****
252	61.84	8.17E-05	****	7.09E-05	****
253	62.09	8.27E-05	****	7.38E-05	****
254	62.34	7.82E-05	****	7.49E-05	****
255	62.58	7.50E-05	****	6.99E-05	****

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	7.55E-05	****	6.81E-05	****
257	63.07	9.62E-05	36.5	8.06E-05	30.0
258	63.32	1.14E-04	27.5	6.97E-05	****
259	63.57	1.17E-04	26.3	1.22E-04	25.1
260	63.81	8.98E-05	33.6	7.19E-05	31.4
261	64.06	1.40E-04	18.9	1.31E-04	19.5
262	64.30	1.65E-04	14.6	1.12E-04	21.4
263	64.55	1.58E-04	16.1	1.27E-04	18.4
264	64.79	1.71E-04	14.9	1.52E-04	13.6
265	65.04	2.38E-04	9.7	1.68E-04	12.0
266	65.29	2.72E-04	8.4	2.67E-04	8.4
267	65.53	3.09E-04	7.5	2.56E-04	8.4
268	65.78	3.68E-04	6.9	2.40E-04	9.4
269	66.02	3.18E-04	8.0	3.24E-04	7.5
270	66.27	3.68E-04	7.0	3.11E-04	7.6
271	66.52	3.16E-04	7.6	2.99E-04	7.7
272	66.76	2.48E-04	8.8	2.49E-04	8.6
273	67.01	2.41E-04	8.6	2.71E-04	7.6
274	67.25	1.95E-04	10.3	2.02E-04	10.1
275	67.50	2.25E-04	9.5	2.28E-04	8.9
276	67.75	3.08E-04	7.3	2.67E-04	8.1
277	67.99	3.29E-04	7.4	2.87E-04	7.8
278	68.24	3.77E-04	6.6	3.16E-04	7.0
279	68.48	4.08E-04	6.3	3.52E-04	6.8
280	68.73	4.96E-04	5.6	4.54E-04	5.8
281	68.98	4.20E-04	6.4	4.68E-04	5.6
282	69.22	4.89E-04	5.8	4.99E-04	5.4
283	69.47	4.14E-04	6.8	4.73E-04	5.6
284	69.71	5.36E-04	5.2	5.36E-04	5.1
285	69.96	5.11E-04	5.3	5.40E-04	4.7
286	70.20	3.99E-04	6.4	5.18E-04	5.1
287	70.45	4.84E-04	5.6	4.29E-04	5.9
288	70.70	4.24E-04	6.4	4.80E-04	5.3
289	70.94	5.34E-04	5.0	5.03E-04	5.1
290	71.19	5.69E-04	4.5	5.70E-04	4.7
291	71.43	1.61E-04	4.5	8.88E-04	2.6
292	71.68	9.78E-04	2.5	9.89E-04	2.4
293	71.93	1.11E-03	2.2	1.09E-03	2.2
294	72.17	1.23E-03	2.0	1.19E-03	2.0
295	72.42	1.14E-03	2.1	1.12E-03	2.1
296	72.66	1.06E-03	2.2	1.10E-03	2.1
297	72.91	9.95E-04	2.3	9.69E-04	2.3
298	73.16	9.58E-04	2.3	9.12E-04	2.3
299	73.40	9.10E-04	2.5	8.20E-04	2.6
300	73.65	9.27E-04	2.5	8.46E-04	2.6
301	73.89	9.07E-04	2.4	8.37E-04	2.5
302	74.14	9.47E-04	2.2	8.72E-04	2.3
303	74.38	1.10E-03	1.9	9.20E-04	2.1
304	74.63	1.21E-03	1.8	1.04E-03	2.0
305	74.88	1.38E-03	1.7	1.22E-03	1.8
306	75.12	1.55E-03	1.5	1.39E-03	1.6

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	1.57E-03	1.5	1.50E-03	1.5
308	75.61	1.53E-03	1.5	1.44E-03	1.6
309	75.86	1.37E-03	1.6	1.34E-03	1.6
310	76.11	1.42E-03	1.6	1.34E-03	1.6
311	76.35	1.56E-03	1.5	1.36E-03	1.6
312	76.60	1.74E-03	1.4	1.51E-03	1.5
313	76.84	2.09E-03	1.2	1.65E-03	1.4
314	77.09	2.45E-03	1.1	1.93E-03	1.3
315	77.34	2.95E-03	1.0	2.14E-03	1.2
316	77.58	1.04E-03	0.9	2.86E-03	0.6
317	77.83	4.42E-03	0.5	3.75E-03	0.5
318	78.07	5.48E-03	0.4	4.56E-03	0.5
319	78.32	6.26E-03	0.4	5.09E-03	0.5
320	78.57	5.96E-03	0.4	4.80E-03	0.5
321	78.81	5.05E-03	0.5	3.92E-03	0.5
322	79.06	4.37E-03	0.5	3.23E-03	0.6
323	79.30	3.90E-03	0.5	2.75E-03	0.6
324	79.55	3.50E-03	0.5	2.54E-03	0.6
325	79.79	3.00E-03	0.6	2.20E-03	0.7
326	80.04	2.57E-03	0.6	1.94E-03	0.7
327	80.29	2.05E-03	0.6	1.64E-03	0.7
328	80.53	1.66E-03	0.7	1.36E-03	0.8
329	80.78	1.35E-03	0.8	1.19E-03	0.8
330	81.02	1.15E-03	0.8	1.15E-03	0.8
331	81.27	1.06E-03	0.9	1.17E-03	0.8
332	81.52	1.01E-03	0.9	1.12E-03	0.9
333	81.76	8.75E-04	1.0	1.05E-03	0.9
334	82.01	8.21E-04	1.0	9.22E-04	1.0
335	82.25	7.94E-04	1.1	9.10E-04	1.0
336	82.50	7.80E-04	1.1	8.87E-04	1.0
337	82.75	7.51E-04	1.1	8.63E-04	1.0
338	82.99	7.43E-04	1.1	8.65E-04	1.0
339	83.24	7.23E-04	1.1	8.66E-04	1.0
340	83.48	6.53E-04	1.1	8.85E-04	0.9
341	83.73	5.78E-04	1.2	9.05E-04	0.9
342	83.97	5.66E-04	1.2	8.53E-04	1.0
343	84.22	5.60E-04	1.2	7.26E-04	1.0
344	84.47	5.83E-04	1.1	6.80E-04	1.1
345	84.71	6.04E-04	1.1	6.73E-04	1.1
346	84.96	6.39E-04	1.1	7.04E-04	1.0
347	85.20	6.66E-04	1.0	7.25E-04	1.0
348	85.45	6.46E-04	1.1	7.21E-04	1.0
349	85.70	6.53E-04	1.0	7.13E-04	1.0
350	85.94	6.45E-04	1.0	6.96E-04	1.0
351	86.19	6.54E-04	1.0	7.07E-04	1.0
352	86.43	6.49E-04	1.0	7.02E-04	1.0
353	86.68	6.07E-04	1.1	6.66E-04	1.0
354	86.93	5.40E-04	1.1	6.46E-04	1.0
355	87.17	4.35E-04	1.3	5.45E-04	1.1
356	87.42	3.01E-04	1.5	4.05E-04	1.3

Table A-3. Axial distribution of ^{106}Ru in the sleeve of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.19	1.89E-04	****	4.60E-04	25.6
2	0.43	4.50E-03	6.0	8.91E-03	7.6
3	0.68	1.65E-02	5.4	4.27E-03	8.7
4	0.92	8.21E-03	6.0	3.85E-04	****
5	1.17	4.78E-04	30.7	3.44E-04	****
6	1.41	5.20E-04	37.6	3.14E-04	****
7	1.66	3.96E-04	****	2.93E-04	****
8	1.91	3.47E-04	****	2.83E-04	****
9	2.15	3.45E-04	****	2.87E-04	****
10	2.40	3.55E-04	****	2.99E-04	****
11	2.64	5.60E-04	31.1	3.16E-04	****
12	2.89	3.93E-04	****	3.77E-04	****
13	3.14	6.66E-04	32.3	4.80E-04	****
14	3.38	6.18E-04	****	5.36E-04	****
15	3.63	6.98E-04	****	5.42E-04	****
16	3.87	7.04E-04	****	5.72E-04	****
17	4.12	1.68E-03	****	6.18E-04	****
18	4.37	1.80E-03	****	6.98E-04	****
19	4.61	1.93E-03	****	1.64E-03	****
20	4.86	2.02E-03	****	1.72E-03	****
21	5.10	2.12E-03	****	1.89E-03	****
22	5.35	3.21E-03	33.8	2.12E-03	****
23	5.60	2.54E-03	****	2.40E-03	****
24	5.84	2.81E-03	****	2.86E-03	****
25	6.09	4.68E-03	****	4.71E-03	****
26	6.33	5.24E-03	****	4.76E-03	****
27	6.58	6.50E-03	****	4.85E-03	****
28	6.82	6.23E-03	****	4.80E-03	****
29	7.07	5.83E-03	****	4.78E-03	****
30	7.32	5.94E-03	****	4.72E-03	****
31	7.56	6.11E-03	****	4.77E-03	****
32	7.81	6.08E-03	****	4.73E-03	****
33	8.05	6.10E-03	****	4.75E-03	****
34	8.30	6.16E-03	****	4.78E-03	****
35	8.55	6.29E-03	****	5.65E-03	****
36	8.79	6.60E-03	****	5.52E-03	****
37	9.04	7.36E-03	****	5.07E-03	****
38	9.28	8.27E-03	****	4.85E-03	****
39	9.53	9.82E-03	****	5.05E-03	****
40	9.78	1.26E-02	****	5.03E-03	****
41	10.02	1.44E-02	****	5.31E-03	****
42	10.27	1.52E-02	****	5.59E-03	****
43	10.51	3.64E-02	****	5.89E-03	****
44	10.76	3.85E-02	****	6.55E-03	****
45	11.01	4.00E-02	****	7.79E-03	****
46	11.25	4.21E-02	****	9.86E-03	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
47	11.50	4.54E-02	****	1.26E-02	****
48	11.74	4.93E-02	****	3.54E-02	****
49	11.99	5.22E-02	****	3.69E-02	****
50	12.23	5.66E-02	****	3.76E-02	****
51	12.48	6.33E-02	****	3.84E-02	****
52	12.73	6.19E-02	****	4.25E-02	****
53	12.97	5.19E-02	****	4.22E-02	****
54	13.22	5.24E-02	****	4.42E-02	****
55	13.46	5.36E-02	****	4.45E-02	****
56	13.71	5.69E-02	****	4.67E-02	****
57	13.96	5.78E-02	****	4.95E-02	****
58	14.20	5.87E-02	****	5.18E-02	****
59	14.45	6.16E-02	****	5.78E-02	****
60	14.69	6.32E-02	****	6.13E-02	****
61	14.94	6.19E-02	****	5.44E-02	****
62	15.19	6.28E-02	****	5.65E-02	****
63	15.43	6.59E-02	****	5.83E-02	****
64	15.68	7.38E-02	****	6.19E-02	****
65	15.92	6.83E-02	****	6.43E-02	****
66	16.17	5.73E-02	****	6.46E-02	****
67	16.41	6.06E-02	****	6.58E-02	****
68	16.66	6.51E-02	****	6.73E-02	****
69	16.91	6.89E-02	****	6.87E-02	****
70	17.15	7.45E-02	****	7.09E-02	****
71	17.40	7.84E-02	****	7.40E-02	****
72	17.64	7.98E-02	****	7.98E-02	****
73	17.89	8.20E-02	****	7.95E-02	****
74	18.14	8.25E-02	****	7.57E-02	****
75	18.38	8.31E-02	****	7.40E-02	****
76	18.63	8.58E-02	****	7.65E-02	****
77	18.87	9.71E-02	****	7.84E-02	****
78	19.12	9.25E-02	****	8.29E-02	****
79	19.37	8.70E-02	****	8.79E-02	****
80	19.61	8.67E-02	****	8.82E-02	****
81	19.86	8.57E-02	****	9.20E-02	****
82	20.10	8.85E-02	****	9.36E-02	****
83	20.35	9.03E-02	****	9.35E-02	****
84	20.60	9.05E-02	****	9.63E-02	****
85	20.84	9.07E-02	****	1.02E-01	****
86	21.09	9.16E-02	****	1.01E-01	****
87	21.33	9.26E-02	****	9.74E-02	****
88	21.58	9.11E-02	****	9.72E-02	****
89	21.82	1.00E-01	****	9.62E-02	****
90	22.07	9.62E-02	****	9.69E-02	****
91	22.32	7.98E-02	****	9.77E-02	****
92	22.56	7.32E-02	****	9.98E-02	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
93	22.81	7.46E-02	****	1.00E-01	****
94	23.05	8.31E-02	****	9.88E-02	****
95	23.30	8.99E-02	****	1.01E-01	****
96	23.55	9.17E-02	****	1.02E-01	****
97	23.79	9.32E-02	****	1.11E-01	****
98	24.04	9.17E-02	****	1.13E-01	****
99	24.28	1.00E-01	****	1.05E-01	****
100	24.53	1.13E-01	****	1.03E-01	****
101	24.78	1.36E-01	****	1.06E-01	****
102	25.02	1.41E-01	****	1.08E-01	****
103	25.27	1.20E-01	****	1.17E-01	****
104	25.51	1.13E-01	****	1.18E-01	****
105	25.76	1.13E-01	****	1.24E-01	****
106	26.00	1.13E-01	****	1.28E-01	****
107	26.25	1.11E-01	****	1.37E-01	****
108	26.50	1.01E-01	****	1.46E-01	****
109	26.74	1.06E-01	****	1.49E-01	****
110	26.99	1.06E-01	****	1.54E-01	****
111	27.23	1.05E-01	****	1.30E-01	****
112	27.48	1.08E-01	****	1.27E-01	****
113	27.73	1.14E-01	****	1.20E-01	****
114	27.97	1.15E-01	****	1.20E-01	****
115	28.22	1.07E-01	****	1.16E-01	****
116	28.46	1.07E-01	****	1.15E-01	****
117	28.71	1.04E-01	****	1.07E-01	****
118	28.96	1.06E-01	****	1.11E-01	****
119	29.20	1.03E-01	****	1.13E-01	****
120	29.45	1.03E-01	****	1.14E-01	****
121	29.69	1.02E-01	****	1.12E-01	****
122	29.94	9.93E-02	****	1.12E-01	****
123	30.25	2.74E-02	****	3.08E-02	****
124	30.49	4.55E-02	****	1.36E-01	****
125	30.74	1.27E-01	****	1.44E-01	****
126	30.99	1.28E-01	****	1.41E-01	****
127	31.23	1.23E-01	****	1.43E-01	****
128	31.48	1.25E-01	****	1.43E-01	****
129	31.72	1.23E-01	****	1.49E-01	****
130	31.97	1.25E-01	****	1.51E-01	****
131	32.21	1.32E-01	****	1.55E-01	****
132	32.46	1.31E-01	****	1.55E-01	****
133	32.71	1.31E-01	****	1.55E-01	****
134	32.95	1.36E-01	****	1.58E-01	****
135	33.20	1.37E-01	****	1.65E-01	****
136	33.44	1.47E-01	****	1.84E-01	****
137	33.69	1.58E-01	****	1.64E-01	****
138	33.94	1.34E-01	****	1.53E-01	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
139	34.18	1.25E-01	****	1.57E-01	****
140	34.43	1.26E-01	****	1.50E-01	****
141	34.67	1.33E-01	****	1.45E-01	****
142	34.92	1.37E-01	****	1.45E-01	****
143	35.17	1.38E-01	****	1.50E-01	****
144	35.41	1.39E-01	****	1.51E-01	****
145	35.66	1.33E-01	****	1.56E-01	****
146	35.90	1.37E-01	****	1.64E-01	****
147	36.15	1.37E-01	****	1.66E-01	****
148	36.40	1.35E-01	****	1.70E-01	****
149	36.64	1.45E-01	****	1.65E-01	****
150	36.89	1.37E-01	****	1.59E-01	****
151	37.13	1.35E-01	****	1.58E-01	****
152	37.38	1.37E-01	****	1.49E-01	****
153	37.62	1.34E-01	****	1.47E-01	****
154	37.87	1.33E-01	****	1.50E-01	****
155	38.12	1.30E-01	****	1.48E-01	****
156	38.36	1.26E-01	****	1.48E-01	****
157	38.61	1.32E-01	****	1.46E-01	****
158	38.85	1.33E-01	****	1.47E-01	****
159	39.10	1.33E-01	****	1.49E-01	****
160	39.35	1.33E-01	****	1.49E-01	****
161	39.59	1.38E-01	****	1.51E-01	****
162	39.84	1.42E-01	****	1.47E-01	****
163	40.08	1.35E-01	****	1.51E-01	****
164	40.33	1.35E-01	****	1.43E-01	****
165	40.58	1.36E-01	****	1.43E-01	****
166	40.82	1.40E-01	****	1.41E-01	****
167	41.07	1.38E-01	****	1.42E-01	****
168	41.31	1.33E-01	****	1.48E-01	****
169	41.56	1.33E-01	****	1.51E-01	****
170	41.81	1.34E-01	****	1.50E-01	****
171	42.05	1.42E-01	****	1.55E-01	****
172	42.30	1.44E-01	****	1.60E-01	****
173	42.54	1.54E-01	****	1.68E-01	****
174	42.79	1.58E-01	****	1.82E-01	****
175	43.03	1.59E-01	****	1.90E-01	****
176	43.28	1.52E-01	****	1.86E-01	****
177	43.53	1.57E-01	****	1.84E-01	****
178	43.77	1.60E-01	****	1.73E-01	****
179	44.02	1.49E-01	****	1.69E-01	****
180	44.26	1.42E-01	****	1.66E-01	****
181	44.51	1.33E-01	****	1.65E-01	****
182	44.76	1.33E-01	****	1.56E-01	****
183	45.00	1.30E-01	****	1.61E-01	****
184	45.25	1.26E-01	****	1.53E-01	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
185	45.49	1.21E-01	****	1.57E-01	****
186	45.74	1.22E-01	****	1.60E-01	****
187	45.99	1.20E-01	****	1.57E-01	****
188	46.23	1.10E-01	****	1.48E-01	****
189	46.48	1.08E-01	****	1.40E-01	****
190	46.72	1.07E-01	****	1.42E-01	****
191	46.97	1.04E-01	****	1.34E-01	****
192	47.21	1.01E-01	****	1.30E-01	****
193	47.46	9.76E-02	****	1.27E-01	****
194	47.71	9.88E-02	****	1.26E-01	****
195	47.95	9.85E-02	****	1.26E-01	****
196	48.20	1.00E-01	****	1.22E-01	****
197	48.44	9.89E-02	****	1.24E-01	****
198	48.69	1.05E-01	****	1.33E-01	****
199	48.94	1.10E-01	****	1.33E-01	****
200	49.18	1.12E-01	****	1.27E-01	****
201	49.43	1.14E-01	****	1.22E-01	****
202	49.67	1.10E-01	****	1.23E-01	****
203	49.92	1.08E-01	****	1.19E-01	****
204	50.17	1.05E-01	****	1.12E-01	****
205	50.41	1.04E-01	****	1.09E-01	****
206	50.66	9.98E-02	****	1.09E-01	****
207	50.90	9.68E-02	****	1.04E-01	****
208	51.15	9.38E-02	****	1.03E-01	****
209	51.40	9.42E-02	****	1.07E-01	****
210	51.64	9.28E-02	****	1.06E-01	****
211	51.89	9.59E-02	****	9.77E-02	****
212	52.13	9.44E-02	****	1.00E-01	****
213	52.38	9.47E-02	****	1.02E-01	****
214	52.62	1.10E-01	38.8	1.02E-01	****
215	52.87	9.11E-02	****	1.02E-01	****
216	53.12	9.00E-02	****	9.83E-02	****
217	53.36	1.44E-01	29.2	9.68E-02	****
218	53.61	8.92E-02	****	9.97E-02	****
219	53.85	8.89E-02	****	9.97E-02	****
220	54.10	8.93E-02	****	1.00E-01	****
221	54.35	9.06E-02	****	9.54E-02	****
222	54.59	9.00E-02	****	9.22E-02	****
223	54.84	9.23E-02	****	8.95E-02	****
224	55.08	9.11E-02	****	8.20E-02	****
225	55.33	8.44E-02	****	8.16E-02	****
226	55.58	8.71E-02	****	7.90E-02	****
227	55.82	8.22E-02	****	7.58E-02	****
228	56.07	7.79E-02	****	6.95E-02	****
229	56.31	7.56E-02	****	6.76E-02	****
230	56.56	7.22E-02	****	6.68E-02	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
231	56.81	7.19E-02	****	6.62E-02	****
232	57.05	7.19E-02	****	6.47E-02	****
233	57.30	6.85E-02	****	6.50E-02	****
234	57.54	6.82E-02	****	6.82E-02	****
235	57.79	6.88E-02	****	7.03E-02	****
236	58.03	6.69E-02	****	6.92E-02	****
237	58.28	6.55E-02	****	6.95E-02	****
238	58.53	6.92E-02	****	6.90E-02	****
239	58.77	6.98E-02	****	7.10E-02	****
240	59.02	7.20E-02	****	7.35E-02	****
241	59.26	7.26E-02	****	7.27E-02	****
242	59.51	7.18E-02	****	7.27E-02	****
243	59.76	7.48E-02	****	7.54E-02	****
244	60.00	7.64E-02	****	7.52E-02	****
245	60.31	3.14E-02	****	3.25E-02	****
246	60.56	5.81E-02	****	6.90E-02	****
247	60.80	5.59E-02	****	6.38E-02	****
248	61.05	5.61E-02	****	6.02E-02	****
249	61.29	5.37E-02	****	5.91E-02	****
250	61.54	5.18E-02	****	5.85E-02	****
251	61.79	5.33E-02	****	5.64E-02	****
252	62.03	5.12E-02	****	5.56E-02	****
253	62.28	5.00E-02	****	5.57E-02	****
254	62.52	4.96E-02	****	5.42E-02	****
255	62.77	4.96E-02	****	5.25E-02	****
256	63.02	5.12E-02	****	5.57E-02	****
257	63.26	5.38E-02	****	5.65E-02	****
258	63.51	5.48E-02	****	5.77E-02	****
259	63.75	5.27E-02	****	5.56E-02	****
260	64.00	4.95E-02	****	5.46E-02	****
261	64.24	5.42E-02	****	5.73E-02	****
262	64.49	5.20E-02	****	5.63E-02	****
263	64.74	4.71E-02	****	5.40E-02	****
264	64.98	4.37E-02	****	5.12E-02	****
265	65.23	4.17E-02	****	4.93E-02	****
266	65.47	3.98E-02	****	4.58E-02	****
267	65.72	2.08E-02	****	4.59E-02	****
268	65.97	2.02E-02	****	4.49E-02	****
269	66.21	2.03E-02	****	4.45E-02	****
270	66.46	2.17E-02	****	2.55E-02	****
271	66.70	2.25E-02	****	2.57E-02	****
272	66.95	2.03E-02	****	2.61E-02	****
273	67.20	2.05E-02	****	2.39E-02	****
274	67.44	1.85E-02	****	2.47E-02	****
275	67.69	1.70E-02	****	2.31E-02	****
276	67.93	1.65E-02	****	2.19E-02	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
277	68.18	1.62E-02	****	2.12E-02	****
278	68.42	1.61E-02	****	1.97E-02	****
279	68.67	1.61E-02	****	1.93E-02	****
280	68.92	1.60E-02	****	1.84E-02	****
281	69.16	1.71E-02	****	1.89E-02	****
282	69.41	1.68E-02	****	1.87E-02	****
283	69.65	1.80E-02	****	1.88E-02	****
284	69.90	1.89E-02	****	1.96E-02	****
285	70.15	1.78E-02	****	1.94E-02	****
286	70.39	1.72E-02	****	1.81E-02	****
287	70.64	1.66E-02	****	1.70E-02	****
288	70.88	1.68E-02	****	1.70E-02	****
289	71.13	1.61E-02	****	1.61E-02	****
290	71.38	1.45E-02	****	1.52E-02	****
291	71.62	1.38E-02	****	1.47E-02	****
292	71.87	1.36E-02	****	1.40E-02	****
293	72.11	1.30E-02	****	1.38E-02	****
294	72.36	1.21E-02	****	1.32E-02	****
295	72.61	1.15E-02	****	1.22E-02	****
296	72.85	1.13E-02	****	1.26E-02	****
297	73.10	1.08E-02	****	1.19E-02	****
298	73.34	1.00E-02	****	1.10E-02	****
299	73.59	1.03E-02	****	1.09E-02	****
300	73.83	1.10E-02	****	1.05E-02	****
301	74.08	1.14E-02	****	9.76E-03	****
302	74.33	1.12E-02	****	9.53E-03	****
303	74.57	1.03E-02	****	9.13E-03	****
304	74.82	1.01E-02	****	9.06E-03	****
305	75.06	9.74E-03	****	8.76E-03	****
306	75.31	9.69E-03	****	8.60E-03	****
307	75.56	9.32E-03	****	8.56E-03	****
308	75.80	8.78E-03	****	8.39E-03	****
309	76.05	8.64E-03	****	8.33E-03	****
310	76.29	8.64E-03	****	9.29E-03	****
311	76.54	8.44E-03	****	8.98E-03	****
312	76.79	8.02E-03	****	8.59E-03	****
313	77.03	7.70E-03	****	1.06E-02	35.3
314	77.28	6.97E-03	****	7.21E-03	****
315	77.52	6.50E-03	****	6.91E-03	****
316	77.77	8.40E-03	37.1	6.47E-03	****
317	78.01	6.67E-03	****	6.98E-03	****
318	78.26	6.47E-03	****	6.45E-03	****
319	78.51	6.22E-03	****	6.20E-03	****
320	78.75	5.85E-03	****	5.91E-03	****
321	79.00	5.54E-03	****	4.81E-03	****
322	79.24	4.70E-03	****	5.40E-03	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
323	79.49	4.49E-03	****	5.25E-03	****
324	79.74	4.15E-03	****	4.40E-03	****
325	79.98	3.76E-03	****	3.85E-03	****
326	80.23	3.30E-03	****	3.25E-03	****
327	80.47	2.76E-03	****	2.63E-03	****
328	80.72	2.50E-03	****	2.55E-03	****
329	80.97	2.18E-03	****	4.25E-03	25.9
330	81.21	1.82E-03	****	2.06E-03	****
331	81.46	1.67E-03	****	1.81E-03	****
332	81.70	1.54E-03	****	1.75E-03	****
333	81.95	1.50E-03	****	1.67E-03	****
334	82.20	1.60E-03	****	2.15E-03	36.9
335	82.44	1.83E-03	****	1.92E-03	****
336	82.69	1.71E-03	****	1.82E-03	****
337	82.93	1.56E-03	****	1.71E-03	****
338	83.18	1.45E-03	****	1.55E-03	****
339	83.42	1.31E-03	****	1.50E-03	****
340	83.67	1.25E-03	****	1.42E-03	****
341	83.92	1.25E-03	****	1.42E-03	****
342	84.16	1.17E-03	****	7.53E-04	****
343	84.41	1.12E-03	****	7.01E-04	****
344	84.65	1.09E-03	****	6.61E-04	****
345	84.90	6.29E-04	****	6.21E-04	****
346	85.15	5.92E-04	****	5.79E-04	****
347	85.39	5.67E-04	****	5.97E-04	****
348	85.64	5.56E-04	****	1.12E-03	24.5
349	85.88	5.05E-04	****	5.44E-04	****
350	86.13	4.88E-04	****	6.06E-04	39.4
351	86.38	9.50E-04	22.5	5.98E-04	35.8
352	86.62	6.17E-04	32.8	4.43E-04	****
353	86.87	4.20E-04	****	7.19E-04	27.8
354	87.11	5.92E-04	31.0	6.71E-04	29.0
355	87.36	3.74E-04	****	5.60E-04	32.6
356	87.60	3.55E-04	****	5.11E-04	33.5
357	87.85	3.44E-04	****	5.76E-04	28.2
358	88.10	8.58E-04	17.6	5.25E-04	30.2
359	88.34	3.93E-04	31.3	3.44E-04	****
360	88.59	7.92E-04	22.0	7.15E-04	22.7
361	88.83	6.62E-04	25.4	7.41E-04	22.3
362	89.08	7.36E-04	21.6	3.47E-04	36.5
363	89.33	6.94E-04	22.6	6.56E-04	24.2
364	89.57	8.42E-04	17.6	6.40E-04	24.9
365	89.82	7.74E-04	18.0	8.00E-04	19.6
366	90.06	4.43E-04	31.0	6.26E-04	22.0

Table A-4. Axial distribution of ^{106}Ru in the spine of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	8.45E-04	36.0	7.29E-04	****
2	0.37	1.27E-02	14.8	4.84E-03	19.0
3	0.61	1.18E-03	****	1.35E-03	****
4	0.86	7.12E-04	****	9.04E-04	****
5	1.11	6.16E-04	****	9.42E-04	****
6	1.35	6.04E-04	****	9.98E-04	****
7	1.60	6.02E-04	****	1.03E-03	****
8	1.84	6.21E-04	****	1.05E-03	****
9	2.09	6.36E-04	****	1.10E-03	****
10	2.34	6.77E-04	****	1.15E-03	****
11	2.58	7.18E-04	****	1.21E-03	****
12	2.83	9.79E-04	38.0	1.27E-03	****
13	3.07	8.86E-04	****	1.37E-03	****
14	3.32	9.11E-04	****	1.47E-03	****
15	3.57	9.56E-04	****	1.54E-03	****
16	3.81	1.02E-03	****	1.62E-03	****
17	4.06	1.09E-03	****	1.71E-03	****
18	4.30	1.20E-03	****	1.82E-03	****
19	4.55	1.74E-03	35.1	1.93E-03	****
20	4.80	1.41E-03	****	2.06E-03	****
21	5.04	1.54E-03	****	2.18E-03	****
22	5.29	1.72E-03	****	3.00E-03	****
23	5.53	1.94E-03	****	3.16E-03	****
24	5.78	2.63E-03	****	3.36E-03	****
25	6.02	2.96E-03	****	3.58E-03	****
26	6.27	3.31E-03	****	4.14E-03	****
27	6.52	3.54E-03	****	4.27E-03	****
28	6.76	3.77E-03	****	4.64E-03	****
29	7.01	4.06E-03	****	5.07E-03	****
30	7.25	4.31E-03	****	5.37E-03	****
31	7.50	4.62E-03	****	5.65E-03	****
32	7.75	4.75E-03	****	5.90E-03	****
33	7.99	5.11E-03	****	6.11E-03	****
34	8.24	5.36E-03	****	6.44E-03	****
35	8.48	5.73E-03	****	6.72E-03	****
36	8.73	6.19E-03	****	7.44E-03	****
37	8.98	7.02E-03	****	8.39E-03	****
38	9.22	1.68E-02	****	1.90E-02	****
39	9.47	1.82E-02	****	2.12E-02	****
40	9.71	1.89E-02	****	2.19E-02	****
41	9.96	1.95E-02	****	2.26E-02	****
42	10.20	2.04E-02	****	2.37E-02	****
43	10.45	2.09E-02	****	2.43E-02	****
44	10.70	2.17E-02	****	2.48E-02	****
45	10.94	2.21E-02	****	2.52E-02	****
46	11.19	2.32E-02	****	2.57E-02	****
47	11.43	2.43E-02	****	2.64E-02	****
48	11.68	2.57E-02	****	2.80E-02	****
49	11.93	2.69E-02	****	2.95E-02	****
50	12.17	2.85E-02	****	3.06E-02	****
51	12.42	2.96E-02	****	3.22E-02	****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	2.92E-02	****	3.08E-02	****
53	12.91	2.98E-02	****	3.08E-02	****
54	13.16	2.92E-02	****	3.06E-02	****
55	13.40	2.88E-02	****	3.01E-02	****
56	13.65	2.92E-02	****	3.05E-02	****
57	13.89	3.05E-02	****	3.12E-02	****
58	14.14	3.00E-02	****	3.14E-02	****
59	14.39	3.01E-02	****	3.16E-02	****
60	14.63	3.04E-02	****	4.95E-02	29.9
61	14.88	3.11E-02	****	3.16E-02	****
62	15.12	3.12E-02	****	3.22E-02	****
63	15.37	3.13E-02	****	3.34E-02	****
64	15.61	3.01E-02	****	3.36E-02	****
65	15.86	2.97E-02	****	3.38E-02	****
66	16.11	2.97E-02	****	3.34E-02	****
67	16.35	2.89E-02	****	3.29E-02	****
68	16.60	2.86E-02	****	3.25E-02	****
69	16.84	2.82E-02	****	3.26E-02	****
70	17.09	2.83E-02	****	3.32E-02	****
71	17.34	2.81E-02	****	3.26E-02	****
72	17.58	2.87E-02	****	3.37E-02	****
73	17.83	2.95E-02	****	3.38E-02	****
74	18.07	2.93E-02	****	3.41E-02	****
75	18.32	2.98E-02	****	3.46E-02	****
76	18.57	3.02E-02	****	3.54E-02	****
77	18.81	2.96E-02	****	3.44E-02	****
78	19.06	2.96E-02	****	3.40E-02	****
79	19.30	2.95E-02	****	3.37E-02	****
80	19.55	2.95E-02	****	3.36E-02	****
81	19.79	2.99E-02	****	3.36E-02	****
82	20.04	3.02E-02	****	3.38E-02	****
83	20.29	3.05E-02	****	3.46E-02	****
84	20.53	3.12E-02	****	3.55E-02	****
85	20.78	3.26E-02	****	3.67E-02	****
86	21.02	4.52E-02	34.8	3.72E-02	****
87	21.27	3.49E-02	****	3.74E-02	****
88	21.52	3.59E-02	****	3.92E-02	****
89	21.76	3.62E-02	****	3.98E-02	****
90	22.01	4.68E-02	37.1	4.08E-02	****
91	22.25	3.81E-02	****	4.16E-02	****
92	22.50	3.92E-02	****	4.17E-02	****
93	22.75	3.93E-02	****	4.26E-02	****
94	22.99	3.99E-02	****	4.27E-02	****
95	23.24	4.03E-02	****	4.28E-02	****
96	23.48	4.04E-02	****	4.26E-02	****
97	23.73	4.00E-02	****	5.06E-02	39.2
98	23.98	3.96E-02	****	4.16E-02	****
99	24.22	3.91E-02	****	4.12E-02	****
100	24.47	3.81E-02	****	4.04E-02	****
101	24.71	3.80E-02	****	4.04E-02	****
102	24.96	3.76E-02	****	3.99E-02	****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	3.89E-02	****	4.03E-02	****
104	25.45	3.88E-02	****	4.02E-02	****
105	25.70	3.92E-02	****	4.01E-02	****
106	25.94	5.26E-02	34.5	3.98E-02	****
107	26.19	3.83E-02	****	3.96E-02	****
108	26.43	6.20E-02	28.9	4.04E-02	****
109	26.68	3.86E-02	****	4.09E-02	****
110	26.93	3.82E-02	****	4.03E-02	****
111	27.17	3.82E-02	****	3.97E-02	****
112	27.42	3.78E-02	****	3.90E-02	****
113	27.66	3.69E-02	****	3.74E-02	****
114	27.91	5.10E-02	32.8	3.60E-02	****
115	28.16	3.48E-02	****	3.55E-02	****
116	28.40	3.42E-02	****	3.41E-02	****
117	28.65	3.38E-02	****	3.96E-02	39.8
118	28.89	3.40E-02	****	3.35E-02	****
119	29.14	3.42E-02	****	3.32E-02	****
120	29.39	3.17E-02	****	5.93E-02	****
121	29.63	3.97E-02	****	7.29E-02	****
122	29.88	2.91E-02	****	5.07E-02	****
123	30.12	2.94E-02	****	4.98E-02	****
124	30.37	3.05E-02	****	5.17E-02	****
125	30.61	3.07E-02	****	5.30E-02	****
126	30.86	3.11E-02	****	5.28E-02	****
127	31.11	3.14E-02	****	5.31E-02	****
128	31.35	3.18E-02	****	5.28E-02	****
129	31.60	3.17E-02	****	5.21E-02	****
130	31.84	3.17E-02	****	5.26E-02	****
131	32.09	3.17E-02	****	5.33E-02	****
132	32.34	3.20E-02	****	5.38E-02	****
133	32.58	3.26E-02	****	5.39E-02	****
134	32.83	3.27E-02	****	5.51E-02	****
135	33.07	3.29E-02	****	5.60E-02	****
136	33.32	3.20E-02	****	5.42E-02	****
137	33.57	3.17E-02	****	5.54E-02	****
138	33.81	3.19E-02	****	5.45E-02	****
139	34.06	3.21E-02	****	5.41E-02	****
140	34.30	3.19E-02	****	5.43E-02	****
141	34.55	3.15E-02	****	5.33E-02	****
142	34.79	3.14E-02	****	5.34E-02	****
143	35.04	3.09E-02	****	5.26E-02	****
144	35.29	3.10E-02	****	5.10E-02	****
145	35.53	3.08E-02	****	5.02E-02	****
146	35.78	3.06E-02	****	5.05E-02	****
147	36.02	3.09E-02	****	5.06E-02	****
148	36.27	3.18E-02	****	5.26E-02	****
149	36.52	3.13E-02	****	5.25E-02	****
150	36.76	3.11E-02	****	5.16E-02	****
151	37.01	3.08E-02	****	5.01E-02	****
152	37.25	3.04E-02	****	5.01E-02	****
153	37.50	3.03E-02	****	4.92E-02	****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	3.00E-02	****	4.90E-02	****
155	37.99	2.98E-02	****	4.86E-02	****
156	38.24	2.93E-02	****	4.86E-02	****
157	38.48	2.93E-02	****	4.91E-02	****
158	38.73	2.91E-02	****	4.94E-02	****
159	38.98	2.94E-02	****	4.92E-02	****
160	39.22	3.01E-02	****	4.98E-02	****
161	39.47	3.05E-02	****	5.00E-02	****
162	39.71	3.04E-02	****	4.90E-02	****
163	39.96	3.05E-02	****	4.88E-02	****
164	40.20	3.03E-02	****	4.89E-02	****
165	40.45	3.03E-02	****	4.91E-02	****
166	40.70	2.98E-02	****	4.90E-02	****
167	40.94	2.98E-02	****	4.85E-02	****
168	41.19	2.97E-02	****	4.62E-02	****
169	41.43	2.93E-02	****	4.83E-02	****
170	41.68	2.93E-02	****	4.77E-02	****
171	41.93	2.89E-02	****	4.73E-02	****
172	42.17	2.93E-02	****	4.79E-02	****
173	42.42	2.99E-02	****	4.63E-02	****
174	42.66	3.03E-02	****	4.89E-02	****
175	42.91	2.99E-02	****	4.85E-02	****
176	43.16	2.96E-02	****	4.87E-02	****
177	43.40	2.90E-02	****	4.81E-02	****
178	43.65	2.84E-02	****	4.49E-02	****
179	43.89	2.78E-02	****	4.59E-02	****
180	44.14	2.72E-02	****	4.36E-02	****
181	44.39	2.69E-02	****	4.46E-02	****
182	44.63	2.67E-02	****	4.38E-02	****
183	44.88	2.62E-02	****	4.15E-02	****
184	45.12	2.65E-02	****	4.15E-02	****
185	45.37	2.72E-02	****	4.47E-02	****
186	45.61	2.75E-02	****	4.35E-02	****
187	45.86	2.72E-02	****	4.27E-02	****
188	46.11	2.64E-02	****	4.19E-02	****
189	46.35	2.60E-02	****	4.06E-02	****
190	46.60	2.56E-02	****	3.97E-02	****
191	46.84	2.50E-02	****	3.92E-02	****
192	47.09	2.47E-02	****	3.86E-02	****
193	47.34	2.48E-02	****	3.90E-02	****
194	47.58	2.47E-02	****	4.03E-02	****
195	47.83	2.51E-02	****	3.97E-02	****
196	48.07	2.53E-02	****	3.95E-02	****
197	48.32	2.55E-02	****	4.03E-02	****
198	48.57	2.62E-02	****	4.04E-02	****
199	48.81	2.63E-02	****	4.14E-02	****
200	49.06	2.65E-02	****	4.08E-02	****
201	49.30	2.59E-02	****	3.96E-02	****
202	49.55	2.53E-02	****	4.10E-02	****
203	49.79	2.47E-02	****	4.00E-02	****
204	50.04	2.41E-02	****	3.95E-02	****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	2.33E-02	****	3.78E-02	****
206	50.53	2.31E-02	****	3.76E-02	****
207	50.78	2.31E-02	****	3.70E-02	****
208	51.02	2.25E-02	****	3.62E-02	****
209	51.27	2.27E-02	****	3.60E-02	****
210	51.52	2.24E-02	****	3.54E-02	****
211	51.76	2.25E-02	****	3.58E-02	****
212	52.01	2.23E-02	****	3.53E-02	****
213	52.25	2.19E-02	****	3.46E-02	****
214	52.50	2.13E-02	****	3.38E-02	****
215	52.75	2.08E-02	****	3.25E-02	****
216	52.99	2.07E-02	****	3.22E-02	****
217	53.24	2.04E-02	****	3.21E-02	****
218	53.48	2.03E-02	****	3.19E-02	****
219	53.73	2.03E-02	****	3.22E-02	****
220	53.98	2.01E-02	****	3.11E-02	****
221	54.22	1.98E-02	****	3.13E-02	****
222	54.47	1.91E-02	****	2.97E-02	****
223	54.71	1.89E-02	****	2.98E-02	****
224	54.96	1.86E-02	****	2.95E-02	****
225	55.20	1.83E-02	****	2.85E-02	****
226	55.45	1.79E-02	****	2.83E-02	****
227	55.70	1.79E-02	****	2.84E-02	****
228	55.94	1.82E-02	****	2.78E-02	****
229	56.19	1.86E-02	****	2.88E-02	****
230	56.43	1.83E-02	****	4.31E-02	30.0
231	56.68	1.76E-02	****	2.73E-02	****
232	56.93	1.74E-02	****	2.72E-02	****
233	57.17	1.70E-02	****	2.67E-02	****
234	57.42	1.71E-02	****	2.63E-02	****
235	57.66	1.76E-02	****	2.84E-02	****
236	57.91	1.87E-02	****	3.03E-02	****
237	58.16	3.60E-02	****	3.20E-02	****
238	58.40	3.54E-02	****	3.33E-02	****
239	58.65	3.23E-02	****	2.81E-02	****
240	58.89	3.03E-02	****	2.95E-02	****
241	59.14	2.93E-02	****	2.83E-02	****
242	59.39	2.90E-02	****	2.71E-02	****
243	59.63	2.80E-02	****	2.61E-02	****
244	59.88	2.70E-02	****	2.60E-02	****
245	60.12	1.51E-02	****	2.50E-02	****
246	60.37	1.46E-02	****	1.42E-02	****
247	60.61	1.39E-02	****	1.28E-02	****
248	60.86	1.32E-02	****	1.20E-02	****
249	61.11	1.26E-02	****	1.12E-02	****
250	61.35	1.22E-02	****	1.11E-02	****
251	61.60	1.20E-02	****	1.10E-02	****
252	61.84	1.18E-02	****	1.08E-02	****
253	62.09	1.16E-02	****	1.01E-02	****
254	62.34	1.12E-02	****	1.00E-02	****
255	62.58	1.10E-02	****	1.00E-02	****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	1.08E-02	****	1.01E-02	****
257	63.07	1.07E-02	****	9.93E-03	****
258	63.32	1.02E-02	****	9.39E-03	****
259	63.57	9.23E-03	****	8.76E-03	****
260	63.81	8.85E-03	****	8.38E-03	****
261	64.06	8.35E-03	****	7.82E-03	****
262	64.30	7.87E-03	****	7.20E-03	****
263	64.55	7.31E-03	****	6.60E-03	****
264	64.79	7.01E-03	****	6.14E-03	****
265	65.04	6.77E-03	****	6.07E-03	****
266	65.29	6.45E-03	****	5.76E-03	****
267	65.53	6.36E-03	****	5.63E-03	****
268	65.78	6.16E-03	****	5.82E-03	****
269	66.02	5.87E-03	****	5.75E-03	****
270	66.27	5.64E-03	****	5.65E-03	****
271	66.52	5.19E-03	****	5.64E-03	****
272	66.76	5.07E-03	****	5.06E-03	****
273	67.01	4.77E-03	****	4.76E-03	****
274	67.25	4.84E-03	****	4.66E-03	****
275	67.50	4.83E-03	****	4.41E-03	****
276	67.75	5.06E-03	****	4.67E-03	****
277	67.99	5.36E-03	****	5.09E-03	****
278	68.24	5.42E-03	****	5.03E-03	****
279	68.48	5.14E-03	****	5.12E-03	****
280	68.73	5.08E-03	****	5.12E-03	****
281	68.98	5.07E-03	****	5.32E-03	****
282	69.22	5.10E-03	****	5.22E-03	****
283	69.47	5.31E-03	****	5.36E-03	****
284	69.71	5.55E-03	****	5.35E-03	****
285	69.96	5.44E-03	****	5.48E-03	****
286	70.20	4.99E-03	****	5.13E-03	****
287	70.45	5.33E-03	****	5.08E-03	****
288	70.70	5.32E-03	****	4.94E-03	****
289	70.94	4.90E-03	****	4.63E-03	****
290	71.19	4.42E-03	****	4.29E-03	****
291	71.43	1.18E-03	****	3.33E-03	****
292	71.68	3.28E-03	****	3.14E-03	****
293	71.93	2.95E-03	****	3.00E-03	****
294	72.17	2.82E-03	****	2.81E-03	****
295	72.42	2.77E-03	****	2.77E-03	****
296	72.66	2.78E-03	****	2.77E-03	****
297	72.91	2.66E-03	****	2.68E-03	****
298	73.16	2.64E-03	****	2.61E-03	****
299	73.40	2.91E-03	****	2.87E-03	****
300	73.65	3.19E-03	****	3.17E-03	****
301	73.89	2.83E-03	****	2.88E-03	****
302	74.14	2.45E-03	****	2.50E-03	****
303	74.38	2.25E-03	****	2.20E-03	****
304	74.63	2.15E-03	****	2.11E-03	****
305	74.88	2.02E-03	****	2.03E-03	****
306	75.12	1.96E-03	****	1.92E-03	****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	1.97E-03	****	1.88E-03	****
308	75.61	2.01E-03	****	1.92E-03	****
309	75.86	1.85E-03	****	1.87E-03	****
310	76.11	1.72E-03	****	1.80E-03	****
311	76.35	1.70E-03	****	1.66E-03	****
312	76.60	1.62E-03	****	1.59E-03	****
313	76.84	1.46E-03	****	1.48E-03	****
314	77.09	1.40E-03	****	1.40E-03	****
315	77.34	1.26E-03	****	1.20E-03	****
316	77.58	3.25E-04	****	6.81E-04	****
317	77.83	6.70E-04	****	6.36E-04	****
318	78.07	6.76E-04	****	6.68E-04	****
319	78.32	7.00E-04	****	6.69E-04	****
320	78.57	6.98E-04	****	6.77E-04	****
321	78.81	6.77E-04	****	6.69E-04	****
322	79.06	6.57E-04	****	6.57E-04	****
323	79.30	6.39E-04	****	6.28E-04	****
324	79.55	6.06E-04	****	6.24E-04	****
325	79.79	5.59E-04	****	5.73E-04	****
326	80.04	5.02E-04	****	5.09E-04	****
327	80.29	4.53E-04	****	4.42E-04	****
328	80.53	4.14E-04	****	4.05E-04	****
329	80.78	3.87E-04	****	3.65E-04	****
330	81.02	3.80E-04	****	3.65E-04	****
331	81.27	3.90E-04	****	3.76E-04	****
332	81.52	4.01E-04	****	3.92E-04	****
333	81.76	4.19E-04	****	4.09E-04	****
334	82.01	4.30E-04	****	4.26E-04	****
335	82.25	7.62E-04	21.2	1.05E-03	15.4
336	82.50	1.74E-03	10.8	1.85E-03	9.9
337	82.75	1.01E-03	18.2	4.01E-04	****
338	82.99	3.87E-04	****	3.66E-04	****
339	83.24	3.38E-04	****	3.40E-04	****
340	83.48	3.04E-04	****	3.13E-04	****
341	83.73	2.76E-04	****	2.96E-04	****
342	83.97	2.62E-04	****	2.83E-04	****
343	84.22	2.47E-04	****	2.70E-04	****
344	84.47	2.37E-04	****	2.66E-04	****
345	84.71	2.38E-04	****	2.52E-04	****
346	84.96	2.24E-04	****	2.40E-04	****
347	85.20	2.15E-04	****	2.49E-04	****
348	85.45	2.09E-04	****	2.46E-04	****
349	85.70	2.12E-04	****	2.33E-04	****
350	85.94	2.01E-04	****	2.26E-04	****
351	86.19	1.92E-04	****	2.06E-04	****
352	86.43	1.87E-04	****	2.01E-04	****
353	86.68	1.85E-04	****	1.91E-04	****
354	86.93	1.82E-04	****	1.88E-04	****
355	87.17	1.68E-04	****	2.64E-04	29.6
356	87.42	2.14E-04	32.8	2.92E-04	24.9

Table A-5. Axial distribution of ^{110m}Ag in the sleeve of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.19	3.15E-05	****	4.76E-05	****
2	0.43	9.27E-05	****	2.47E-04	****
3	0.68	3.46E-04	****	1.43E-04	****
4	0.92	2.03E-04	****	7.00E-05	****
5	1.17	8.11E-05	****	6.92E-05	****
6	1.41	8.20E-05	****	6.86E-05	****
7	1.66	7.81E-05	****	6.73E-05	****
8	1.91	7.35E-05	****	6.99E-05	****
9	2.15	7.55E-05	****	6.84E-05	****
10	2.40	7.66E-05	****	7.06E-05	****
11	2.64	7.96E-05	****	7.28E-05	****
12	2.89	8.21E-05	****	7.86E-05	****
13	3.14	8.76E-05	****	1.12E-04	38.2
14	3.38	5.12E-04	9.9	9.62E-05	33.1
15	3.63	9.80E-04	5.7	9.77E-05	****
16	3.87	1.55E-04	35.3	9.72E-05	****
17	4.12	2.61E-04	****	1.04E-04	****
18	4.37	2.80E-04	****	1.10E-04	****
19	4.61	2.99E-04	****	2.49E-04	****
20	4.86	3.00E-04	****	2.61E-04	****
21	5.10	3.23E-04	****	2.82E-04	****
22	5.35	3.46E-04	****	3.01E-04	****
23	5.60	3.70E-04	****	3.38E-04	****
24	5.84	4.24E-04	****	4.06E-04	****
25	6.09	6.83E-04	****	6.34E-04	****
26	6.33	7.43E-04	****	6.53E-04	****
27	6.58	1.67E-03	26.9	6.42E-04	****
28	6.82	9.08E-04	****	6.30E-04	****
29	7.07	7.99E-04	****	6.61E-04	****
30	7.32	8.38E-04	****	6.51E-04	****
31	7.56	8.67E-04	****	6.44E-04	****
32	7.81	8.54E-04	****	6.67E-04	****
33	8.05	8.53E-04	****	6.33E-04	****
34	8.30	8.77E-04	****	6.67E-04	****
35	8.55	8.76E-04	****	1.39E-03	26.8
36	8.79	9.14E-04	****	1.08E-03	33.2
37	9.04	1.01E-03	****	6.71E-04	****
38	9.28	1.09E-03	****	6.91E-04	****
39	9.53	9.72E-03	6.5	6.95E-04	****
40	9.78	9.62E-03	8.5	7.02E-04	****
41	10.02	2.19E-03	****	6.84E-04	****
42	10.27	2.35E-03	****	7.46E-04	****
43	10.51	4.04E-03	****	7.89E-04	****
44	10.76	4.18E-03	****	8.44E-04	****
45	11.01	4.10E-03	****	9.95E-04	****
46	11.25	4.51E-03	****	1.26E-03	****

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
47	11.50	4.80E-03	****	2.39E-03	34.0
48	11.74	5.15E-03	****	3.83E-03	****
49	11.99	5.77E-03	****	3.57E-03	****
50	12.23	6.32E-03	****	3.80E-03	****
51	12.48	8.90E-03	39.7	4.09E-03	****
52	12.73	1.06E-02	31.2	4.22E-03	****
53	12.97	5.69E-03	****	4.33E-03	****
54	13.22	1.01E-02	27.3	4.60E-03	****
55	13.46	6.41E-03	****	4.76E-03	****
56	13.71	1.67E-02	17.5	4.68E-03	****
57	13.96	1.07E-02	23.3	4.99E-03	****
58	14.20	1.96E-02	13.6	7.14E-03	35.5
59	14.45	2.08E-02	13.5	2.12E-02	12.9
60	14.69	2.57E-02	11.6	1.42E-02	19.1
61	14.94	2.52E-02	12.0	5.98E-03	34.9
62	15.19	2.53E-02	12.0	6.38E-03	****
63	15.43	5.41E-02	6.6	9.11E-03	34.1
64	15.68	9.26E-02	5.0	7.25E-03	****
65	15.92	1.85E-02	17.0	1.76E-02	19.8
66	16.17	1.44E-02	16.7	1.26E-02	29.3
67	16.41	1.38E-02	19.0	1.32E-02	22.4
68	16.66	1.86E-02	17.1	1.42E-02	19.9
69	16.91	1.59E-02	18.9	1.76E-02	17.8
70	17.15	2.05E-02	17.5	2.30E-02	14.3
71	17.40	1.77E-02	20.5	2.56E-02	13.5
72	17.64	2.33E-02	16.1	4.19E-02	9.9
73	17.89	3.11E-02	15.3	5.81E-02	7.4
74	18.14	2.35E-02	16.9	4.83E-02	8.4
75	18.38	3.11E-02	15.8	3.45E-02	10.7
76	18.63	2.95E-02	14.7	2.10E-02	17.2
77	18.87	4.16E-02	13.0	1.95E-02	18.2
78	19.12	4.73E-02	10.6	2.04E-02	19.7
79	19.37	3.33E-02	13.7	1.63E-02	24.5
80	19.61	4.73E-02	9.6	2.78E-02	15.0
81	19.86	4.80E-02	9.5	3.42E-02	16.1
82	20.10	4.11E-02	11.0	1.91E-02	22.1
83	20.35	3.80E-02	14.2	2.21E-02	19.9
84	20.60	3.05E-02	14.6	5.16E-02	10.4
85	20.84	3.68E-02	12.8	4.28E-02	12.9
86	21.09	5.03E-02	9.8	4.44E-02	11.9
87	21.33	3.15E-02	14.6	3.83E-02	12.6
88	21.58	4.04E-02	12.1	5.07E-02	10.5
89	21.82	1.25E-01	4.9	3.12E-02	15.0
90	22.07	1.90E-02	23.9	3.48E-02	13.9
91	22.32	1.99E-02	22.6	3.21E-02	15.8
92	22.56	2.15E-02	18.5	4.45E-02	11.8

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
93	22.81	1.69E-02	19.2	4.49E-02	12.0
94	23.05	2.88E-02	16.1	5.18E-02	10.3
95	23.30	2.82E-02	18.7	5.02E-02	10.9
96	23.55	1.97E-02	21.4	7.62E-02	7.6
97	23.79	2.84E-02	19.7	9.24E-02	7.0
98	24.04	2.31E-02	23.8	3.66E-02	16.3
99	24.28	3.91E-02	15.8	1.74E-02	27.9
100	24.53	2.19E-02	25.1	2.02E-02	31.0
101	24.78	3.78E-02	19.1	1.63E-02	28.9
102	25.02	3.98E-02	19.5	2.84E-02	23.3
103	25.27	3.74E-02	17.0	3.20E-02	22.8
104	25.51	3.13E-02	19.3	1.40E-02	35.7
105	25.76	4.70E-02	15.6	1.68E-02	****
106	26.00	3.42E-02	17.0	1.76E-02	****
107	26.25	3.89E-02	18.8	1.89E-02	****
108	26.50	3.04E-02	17.0	3.33E-02	28.8
109	26.74	4.11E-02	16.3	3.41E-02	28.8
110	26.99	2.86E-02	19.1	4.68E-02	21.7
111	27.23	3.59E-02	14.9	4.15E-02	20.2
112	27.48	4.13E-02	14.3	2.53E-02	31.4
113	27.73	6.43E-02	9.9	3.95E-02	18.6
114	27.97	3.51E-02	16.8	2.77E-02	27.4
115	28.22	3.04E-02	17.1	2.49E-02	22.5
116	28.46	2.17E-02	31.3	4.90E-02	14.2
117	28.71	2.47E-02	26.5	1.74E-02	27.8
118	28.96	1.44E-02	****	2.27E-02	30.4
119	29.20	2.28E-02	27.9	1.61E-02	30.9
120	29.45	1.85E-02	34.1	3.51E-02	20.1
121	29.69	1.95E-02	24.8	1.94E-02	27.3
122	29.94	2.01E-02	23.7	1.34E-02	35.9
123	30.25	4.21E-03	****	4.18E-03	****
124	30.49	5.21E-03	****	5.08E-02	18.6
125	30.74	3.86E-02	23.3	4.27E-02	24.3
126	30.99	1.93E-02	****	2.21E-02	****
127	31.23	1.85E-02	****	5.10E-02	19.6
128	31.48	3.95E-02	21.7	2.19E-02	****
129	31.72	3.01E-02	28.0	3.50E-02	30.5
130	31.97	1.88E-02	****	4.29E-02	25.5
131	32.21	2.61E-02	35.1	4.76E-02	23.8
132	32.46	3.78E-02	23.8	2.44E-02	****
133	32.71	1.98E-02	****	3.36E-02	33.2
134	32.95	3.99E-02	23.8	4.19E-02	28.0
135	33.20	4.37E-02	22.5	3.53E-02	35.8
136	33.44	3.80E-02	27.7	4.79E-02	29.5
137	33.69	4.64E-02	25.4	2.58E-02	****
138	33.94	3.08E-02	30.5	3.14E-02	26.6

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
139	34.18	3.03E-02	28.3	4.35E-02	26.0
140	34.43	3.04E-02	29.2	3.68E-02	29.2
141	34.67	3.56E-02	25.5	2.22E-02	****
142	34.92	2.04E-02	****	3.46E-02	30.0
143	35.17	3.79E-02	25.7	3.04E-02	35.7
144	35.41	3.87E-02	24.7	2.37E-02	****
145	35.66	2.78E-02	33.2	2.39E-02	****
146	35.90	3.46E-02	27.3	2.60E-02	****
147	36.15	2.08E-02	****	2.64E-02	****
148	36.40	2.03E-02	****	2.68E-02	****
149	36.64	3.02E-02	34.4	2.62E-02	****
150	36.89	2.05E-02	****	4.07E-02	28.6
151	37.13	3.33E-02	28.6	2.52E-02	****
152	37.38	2.08E-02	****	2.32E-02	****
153	37.62	2.02E-02	****	3.71E-02	28.0
154	37.87	2.82E-02	32.9	2.34E-02	****
155	38.12	1.95E-02	****	2.28E-02	****
156	38.36	1.85E-02	****	2.21E-02	****
157	38.61	1.96E-02	****	2.25E-02	****
158	38.85	3.67E-02	25.0	2.26E-02	****
159	39.10	2.03E-02	****	2.28E-02	****
160	39.35	2.40E-02	39.5	2.32E-02	****
161	39.59	2.08E-02	****	2.34E-02	****
162	39.84	2.22E-02	****	2.73E-02	38.2
163	40.08	1.99E-02	****	2.30E-02	****
164	40.33	2.06E-02	****	2.16E-02	****
165	40.58	3.45E-02	27.2	2.13E-02	****
166	40.82	2.72E-02	36.6	2.99E-02	33.0
167	41.07	3.38E-02	28.1	2.67E-02	38.1
168	41.31	2.02E-02	****	2.29E-02	****
169	41.56	2.00E-02	****	2.31E-02	****
170	41.81	1.99E-02	****	2.27E-02	****
171	42.05	2.17E-02	****	2.40E-02	****
172	42.30	2.23E-02	****	2.50E-02	****
173	42.54	2.39E-02	****	2.71E-02	****
174	42.79	2.42E-02	****	2.96E-02	****
175	43.03	2.45E-02	****	3.03E-02	****
176	43.28	2.35E-02	****	3.11E-02	****
177	43.53	2.39E-02	****	2.94E-02	****
178	43.77	2.51E-02	****	2.82E-02	****
179	44.02	2.32E-02	****	2.71E-02	****
180	44.26	2.17E-02	****	2.71E-02	****
181	44.51	2.00E-02	****	2.65E-02	****
182	44.76	2.04E-02	****	2.49E-02	****
183	45.00	1.98E-02	****	2.57E-02	****
184	45.25	1.86E-02	****	2.43E-02	****

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
185	45.49	1.78E-02	****	2.49E-02	****
186	45.74	1.73E-02	****	2.53E-02	****
187	45.99	1.75E-02	****	2.47E-02	****
188	46.23	2.15E-02	34.1	2.35E-02	****
189	46.48	1.60E-02	****	2.20E-02	****
190	46.72	1.59E-02	****	2.23E-02	****
191	46.97	1.49E-02	****	2.09E-02	****
192	47.21	1.47E-02	****	1.95E-02	****
193	47.46	1.38E-02	****	1.94E-02	****
194	47.71	1.38E-02	****	1.94E-02	****
195	47.95	1.43E-02	****	1.92E-02	****
196	48.20	1.43E-02	****	1.86E-02	****
197	48.44	1.43E-02	****	1.94E-02	****
198	48.69	1.48E-02	****	2.07E-02	****
199	48.94	1.58E-02	****	1.99E-02	****
200	49.18	1.59E-02	****	1.96E-02	****
201	49.43	1.68E-02	****	1.86E-02	****
202	49.67	1.66E-02	****	1.89E-02	****
203	49.92	1.60E-02	****	1.85E-02	****
204	50.17	1.57E-02	****	1.73E-02	****
205	50.41	1.55E-02	****	1.64E-02	****
206	50.66	1.49E-02	****	1.64E-02	****
207	50.90	1.45E-02	****	1.54E-02	****
208	51.15	1.39E-02	****	1.56E-02	****
209	51.40	1.99E-02	33.0	1.62E-02	****
210	51.64	1.38E-02	****	1.60E-02	****
211	51.89	1.39E-02	****	1.36E-02	****
212	52.13	1.31E-02	****	1.49E-02	****
213	52.38	1.38E-02	****	1.54E-02	****
214	52.62	1.33E-02	****	1.54E-02	****
215	52.87	1.36E-02	****	1.51E-02	****
216	53.12	1.33E-02	****	1.46E-02	****
217	53.36	1.30E-02	****	1.40E-02	****
218	53.61	1.27E-02	****	1.45E-02	****
219	53.85	1.26E-02	****	1.45E-02	****
220	54.10	1.25E-02	****	1.47E-02	****
221	54.35	1.29E-02	****	1.40E-02	****
222	54.59	1.53E-02	38.7	1.39E-02	****
223	54.84	1.40E-02	****	1.33E-02	****
224	55.08	1.34E-02	****	1.23E-02	****
225	55.33	1.27E-02	****	1.31E-02	****
226	55.58	1.34E-02	****	1.26E-02	****
227	55.82	1.31E-02	****	1.22E-02	****
228	56.07	1.25E-02	****	1.11E-02	****
229	56.31	1.24E-02	****	1.15E-02	****
230	56.56	1.18E-02	****	1.12E-02	****

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
231	56.81	1.19E-02	****	1.08E-02	****
232	57.05	1.19E-02	****	1.09E-02	****
233	57.30	1.13E-02	****	1.07E-02	****
234	57.54	1.11E-02	****	1.12E-02	****
235	57.79	1.14E-02	****	1.14E-02	****
236	58.03	1.04E-02	****	1.07E-02	****
237	58.28	9.70E-03	****	1.12E-02	****
238	58.53	1.05E-02	****	1.10E-02	****
239	58.77	1.09E-02	****	1.09E-02	****
240	59.02	1.09E-02	****	1.10E-02	****
241	59.26	1.07E-02	****	1.10E-02	****
242	59.51	1.08E-02	****	1.11E-02	****
243	59.76	1.13E-02	****	1.14E-02	****
244	60.00	1.19E-02	****	1.14E-02	****
245	60.31	5.73E-03	****	5.07E-03	****
246	60.56	1.02E-02	****	1.22E-02	****
247	60.80	9.74E-03	****	1.07E-02	****
248	61.05	1.01E-02	****	1.02E-02	****
249	61.29	9.49E-03	****	9.90E-03	****
250	61.54	9.11E-03	****	9.47E-03	****
251	61.79	8.83E-03	****	9.14E-03	****
252	62.03	8.62E-03	****	8.95E-03	****
253	62.28	8.69E-03	****	8.92E-03	****
254	62.52	8.63E-03	****	8.76E-03	****
255	62.77	8.67E-03	****	8.85E-03	****
256	63.02	8.62E-03	****	8.88E-03	****
257	63.26	9.14E-03	****	8.96E-03	****
258	63.51	9.01E-03	****	9.07E-03	****
259	63.75	8.47E-03	****	8.73E-03	****
260	64.00	8.52E-03	****	8.64E-03	****
261	64.24	1.00E-02	****	9.73E-03	****
262	64.49	9.66E-03	****	9.47E-03	****
263	64.74	8.52E-03	****	9.32E-03	****
264	64.98	7.71E-03	****	8.58E-03	****
265	65.23	7.13E-03	****	8.16E-03	****
266	65.47	6.73E-03	****	7.62E-03	****
267	65.72	4.26E-03	****	7.46E-03	****
268	65.97	4.18E-03	****	7.53E-03	****
269	66.21	4.30E-03	****	7.00E-03	****
270	66.46	4.75E-03	****	5.24E-03	****
271	66.70	5.09E-03	****	5.39E-03	****
272	66.95	4.53E-03	****	5.42E-03	****
273	67.20	4.59E-03	****	4.91E-03	****
274	67.44	4.10E-03	****	5.24E-03	****
275	67.69	3.59E-03	****	4.84E-03	****
276	67.93	3.45E-03	****	4.59E-03	****

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
277	68.18	3.38E-03	****	4.20E-03	****
278	68.42	3.34E-03	****	3.94E-03	****
279	68.67	3.31E-03	****	3.67E-03	****
280	68.92	3.26E-03	****	3.59E-03	****
281	69.16	3.37E-03	****	3.63E-03	****
282	69.41	3.27E-03	****	3.65E-03	****
283	69.65	3.37E-03	****	3.58E-03	****
284	69.90	3.43E-03	****	3.63E-03	****
285	70.15	3.18E-03	****	4.95E-03	32.3
286	70.39	3.26E-03	****	3.29E-03	****
287	70.64	3.27E-03	****	3.08E-03	****
288	70.88	3.44E-03	****	3.08E-03	****
289	71.13	3.31E-03	****	2.94E-03	****
290	71.38	3.03E-03	****	2.75E-03	****
291	71.62	2.64E-03	****	2.56E-03	****
292	71.87	2.64E-03	****	2.48E-03	****
293	72.11	2.49E-03	****	2.41E-03	****
294	72.36	2.30E-03	****	2.26E-03	****
295	72.61	2.07E-03	****	2.21E-03	****
296	72.85	2.05E-03	****	2.15E-03	****
297	73.10	1.86E-03	****	3.41E-03	27.8
298	73.34	1.88E-03	****	1.90E-03	****
299	73.59	2.11E-03	****	1.90E-03	****
300	73.83	2.35E-03	****	2.44E-03	36.9
301	74.08	2.49E-03	****	2.82E-03	30.0
302	74.33	2.52E-03	****	1.93E-03	****
303	74.57	2.36E-03	****	1.86E-03	****
304	74.82	2.21E-03	****	1.75E-03	****
305	75.06	2.10E-03	****	1.72E-03	****
306	75.31	1.99E-03	****	1.61E-03	****
307	75.56	1.84E-03	****	1.95E-03	37.1
308	75.80	1.64E-03	****	1.51E-03	****
309	76.05	1.54E-03	****	1.49E-03	****
310	76.29	1.41E-03	****	3.36E-03	20.1
311	76.54	1.38E-03	****	1.87E-03	26.4
312	76.79	1.28E-03	****	1.98E-03	31.0
313	77.03	1.25E-03	****	2.61E-03	22.0
314	77.28	1.16E-03	****	1.22E-03	****
315	77.52	1.13E-03	****	1.17E-03	****
316	77.77	1.12E-03	****	1.18E-03	****
317	78.01	1.49E-03	36.1	1.19E-03	****
318	78.26	1.13E-03	****	1.95E-03	26.0
319	78.51	1.04E-03	****	1.13E-03	30.6
320	78.75	1.29E-03	34.9	1.25E-03	32.8
321	79.00	1.32E-03	35.7	1.45E-03	24.3
322	79.24	7.36E-04	38.8	3.63E-03	14.0

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
323	79.49	2.13E-03	18.2	3.13E-03	14.7
324	79.74	1.05E-03	34.8	2.12E-03	17.7
325	79.98	1.06E-03	31.7	1.84E-03	15.1
326	80.23	1.44E-03	16.7	1.38E-03	16.5
327	80.47	1.16E-03	22.1	1.46E-03	13.0
328	80.72	1.08E-03	15.7	2.05E-03	9.8
329	80.97	9.93E-04	16.5	2.41E-03	7.5
330	81.21	1.36E-03	10.6	2.74E-03	6.6
331	81.46	1.29E-03	10.4	2.62E-03	6.0
332	81.70	1.69E-03	8.3	2.69E-03	5.8
333	81.95	1.56E-03	9.1	3.20E-03	5.0
334	82.20	1.63E-03	10.2	3.18E-03	5.1
335	82.44	1.29E-03	12.1	2.43E-03	7.3
336	82.69	9.74E-04	16.6	2.24E-03	8.0
337	82.93	1.01E-03	15.1	1.87E-03	9.2
338	83.18	1.21E-03	14.2	1.88E-03	8.5
339	83.42	1.27E-03	11.0	1.84E-03	8.7
340	83.67	9.90E-04	13.0	1.80E-03	8.4
341	83.92	1.35E-03	9.3	2.37E-03	6.2
342	84.16	1.60E-03	7.9	2.13E-03	3.8
343	84.41	1.39E-03	8.8	2.11E-03	3.8
344	84.65	1.59E-03	7.4	2.17E-03	3.4
345	84.90	1.95E-03	3.8	2.37E-03	3.0
346	85.15	2.31E-03	3.1	2.88E-03	2.5
347	85.39	2.31E-03	2.9	3.32E-03	2.2
348	85.64	2.05E-03	3.2	3.10E-03	2.3
349	85.88	1.96E-03	3.2	2.87E-03	2.4
350	86.13	1.78E-03	3.4	2.70E-03	2.5
351	86.38	1.64E-03	3.5	2.80E-03	2.3
352	86.62	1.64E-03	3.5	2.39E-03	2.5
353	86.87	1.59E-03	3.4	2.26E-03	2.6
354	87.11	1.64E-03	3.2	2.48E-03	2.6
355	87.36	1.58E-03	3.3	2.66E-03	2.2
356	87.60	1.62E-03	3.1	2.54E-03	2.3
357	87.85	1.73E-03	2.9	2.14E-03	2.6
358	88.10	1.74E-03	2.8	2.09E-03	2.5
359	88.34	2.33E-03	2.3	2.41E-03	2.2
360	88.59	2.96E-03	2.0	3.02E-03	2.0
361	88.83	3.13E-03	1.9	3.59E-03	1.7
362	89.08	3.11E-03	1.9	3.68E-03	1.7
363	89.33	2.96E-03	2.0	3.49E-03	1.7
364	89.57	2.78E-03	2.1	3.10E-03	1.9
365	89.82	2.40E-03	2.2	2.85E-03	2.0
366	90.06	2.03E-03	2.4	2.29E-03	2.2

Table A-6. Axial distribution of ^{110m}Ag in the spine of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.15E-03	5.5	1.41E-03	6.1
2	0.37	6.71E-03	12.1	1.00E-02	3.9
3	0.61	1.62E-03	8.3	4.11E-03	4.0
4	0.86	1.92E-03	4.4	3.73E-03	3.3
5	1.11	2.79E-03	3.5	5.81E-03	2.5
6	1.35	4.08E-03	2.7	7.70E-03	2.1
7	1.60	4.79E-03	2.4	8.61E-03	2.0
8	1.84	5.51E-03	2.3	9.46E-03	1.9
9	2.09	6.67E-03	2.0	1.03E-02	1.8
10	2.34	7.54E-03	1.9	1.04E-02	1.8
11	2.58	8.63E-03	1.8	9.79E-03	2.0
12	2.83	1.00E-02	1.7	9.55E-03	2.1
13	3.07	1.12E-02	1.6	9.75E-03	2.1
14	3.32	1.33E-02	1.5	1.03E-02	2.2
15	3.57	1.46E-02	1.4	9.86E-03	2.3
16	3.81	1.55E-02	1.4	1.09E-02	2.3
17	4.06	1.62E-02	1.4	1.05E-02	2.5
18	4.30	1.64E-02	1.5	1.05E-02	2.5
19	4.55	1.74E-02	1.5	1.12E-02	2.6
20	4.80	1.81E-02	1.5	1.26E-02	2.5
21	5.04	1.90E-02	1.5	1.19E-02	2.7
22	5.29	1.82E-02	1.7	9.34E-03	3.7
23	5.53	1.66E-02	2.0	1.05E-02	3.5
24	5.78	1.09E-02	3.2	1.02E-02	3.7
25	6.02	1.09E-02	3.4	9.59E-03	4.1
26	6.27	1.01E-02	4.0	1.08E-02	4.1
27	6.52	9.88E-03	4.3	1.08E-02	4.3
28	6.76	9.26E-03	4.6	1.06E-02	4.8
29	7.01	9.37E-03	4.7	1.04E-02	5.3
30	7.25	9.27E-03	5.2	9.12E-03	6.3
31	7.50	9.12E-03	5.5	9.31E-03	6.4
32	7.75	8.18E-03	6.4	1.03E-02	6.4
33	7.99	7.32E-03	7.5	9.39E-03	7.1
34	8.24	6.59E-03	8.7	9.03E-03	7.9
35	8.48	7.32E-03	8.8	8.00E-03	9.0
36	8.73	7.77E-03	9.4	7.26E-03	11.0
37	8.98	4.79E-03	15.5	5.04E-03	17.5
38	9.22	5.45E-03	23.9	4.92E-03	27.2
39	9.47	6.54E-03	19.4	7.06E-03	20.8
40	9.71	5.96E-03	25.8	8.36E-03	18.5
41	9.96	7.64E-03	23.3	3.99E-03	36.3
42	10.20	5.97E-03	29.1	6.63E-03	24.7
43	10.45	4.77E-03	28.3	3.84E-03	37.8
44	10.70	6.99E-03	26.3	9.34E-03	23.0
45	10.94	4.29E-03	****	9.96E-03	21.4
46	11.19	4.37E-03	****	7.97E-03	21.0
47	11.43	7.39E-03	28.9	7.82E-03	29.6
48	11.68	9.18E-03	24.8	9.37E-03	26.7
49	11.93	5.27E-03	****	5.89E-03	****
50	12.17	5.64E-03	****	6.04E-03	****
51	12.42	5.91E-03	****	6.54E-03	****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	1.01E-02	26.7	7.34E-03	38.6
53	12.91	6.11E-03	****	6.33E-03	****
54	13.16	5.88E-03	****	6.03E-03	****
55	13.40	5.85E-03	****	5.78E-03	****
56	13.65	5.97E-03	****	6.06E-03	****
57	13.89	8.29E-03	34.8	6.36E-03	****
58	14.14	6.14E-03	****	6.30E-03	****
59	14.39	7.78E-03	36.0	6.27E-03	****
60	14.63	6.15E-03	****	6.38E-03	****
61	14.88	9.08E-03	32.6	6.26E-03	****
62	15.12	6.43E-03	****	6.46E-03	****
63	15.37	6.59E-03	****	6.79E-03	****
64	15.61	6.28E-03	****	6.88E-03	****
65	15.86	6.04E-03	****	6.87E-03	****
66	16.11	7.77E-03	36.5	6.80E-03	****
67	16.35	5.78E-03	****	6.65E-03	****
68	16.60	5.72E-03	****	6.49E-03	****
69	16.84	5.62E-03	****	6.74E-03	****
70	17.09	5.76E-03	****	6.77E-03	****
71	17.34	5.52E-03	****	6.64E-03	****
72	17.58	5.81E-03	****	6.84E-03	****
73	17.83	5.94E-03	****	7.07E-03	****
74	18.07	5.82E-03	****	7.15E-03	****
75	18.32	6.08E-03	****	7.10E-03	****
76	18.57	5.95E-03	****	7.21E-03	****
77	18.81	5.74E-03	****	9.19E-03	35.6
78	19.06	5.97E-03	****	6.53E-03	****
79	19.30	5.98E-03	****	6.88E-03	****
80	19.55	5.88E-03	****	6.78E-03	****
81	19.79	5.84E-03	****	6.93E-03	****
82	20.04	5.92E-03	****	6.83E-03	****
83	20.29	6.18E-03	****	7.28E-03	****
84	20.53	6.39E-03	****	7.17E-03	****
85	20.78	6.66E-03	****	7.57E-03	****
86	21.02	6.96E-03	****	7.70E-03	****
87	21.27	7.31E-03	****	7.81E-03	****
88	21.52	7.82E-03	****	8.59E-03	****
89	21.76	7.85E-03	****	8.98E-03	****
90	22.01	7.87E-03	****	8.78E-03	****
91	22.25	8.34E-03	****	9.36E-03	****
92	22.50	8.68E-03	****	9.42E-03	****
93	22.75	8.21E-03	****	9.39E-03	****
94	22.99	8.53E-03	****	9.74E-03	****
95	23.24	9.02E-03	****	9.52E-03	****
96	23.48	8.80E-03	****	9.68E-03	****
97	23.73	8.52E-03	****	9.40E-03	****
98	23.98	8.75E-03	****	9.33E-03	****
99	24.22	8.49E-03	****	9.01E-03	****
100	24.47	8.37E-03	****	9.06E-03	****
101	24.71	8.46E-03	****	9.12E-03	****
102	24.96	8.40E-03	****	8.82E-03	****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	1.21E-02	37.0	9.96E-03	****
104	25.45	1.00E-02	****	1.05E-02	****
105	25.70	1.07E-02	****	1.56E-02	32.1
106	25.94	1.04E-02	****	1.05E-02	****
107	26.19	1.02E-02	****	1.02E-02	****
108	26.43	1.02E-02	****	1.04E-02	****
109	26.68	1.02E-02	****	1.08E-02	****
110	26.93	1.02E-02	****	1.05E-02	****
111	27.17	1.06E-02	****	1.10E-02	****
112	27.42	1.11E-02	****	1.09E-02	****
113	27.66	1.02E-02	****	1.02E-02	****
114	27.91	9.45E-03	****	9.04E-03	****
115	28.16	9.11E-03	****	8.76E-03	****
116	28.40	7.59E-03	****	7.68E-03	****
117	28.65	6.62E-03	****	6.81E-03	****
118	28.89	6.99E-03	****	6.78E-03	****
119	29.14	7.16E-03	****	6.71E-03	****
120	29.39	6.26E-03	****	7.12E-03	****
121	29.63	8.86E-03	****	9.67E-03	****
122	29.88	5.59E-03	****	6.10E-03	****
123	30.12	5.67E-03	****	5.75E-03	****
124	30.37	5.77E-03	****	6.09E-03	****
125	30.61	8.13E-03	34.0	6.32E-03	****
126	30.86	6.10E-03	****	6.27E-03	****
127	31.11	6.20E-03	****	6.46E-03	****
128	31.35	6.34E-03	****	6.46E-03	****
129	31.60	6.33E-03	****	6.25E-03	****
130	31.84	6.50E-03	****	6.39E-03	****
131	32.09	6.56E-03	****	6.63E-03	****
132	32.34	6.49E-03	****	6.56E-03	****
133	32.58	6.57E-03	****	9.44E-03	31.4
134	32.83	6.63E-03	****	6.60E-03	****
135	33.07	6.60E-03	****	6.84E-03	****
136	33.32	6.40E-03	****	6.74E-03	****
137	33.57	6.22E-03	****	9.69E-03	32.3
138	33.81	6.36E-03	****	6.62E-03	****
139	34.06	6.39E-03	****	6.59E-03	****
140	34.30	6.47E-03	****	6.67E-03	****
141	34.55	6.36E-03	****	6.46E-03	****
142	34.79	6.07E-03	****	6.35E-03	****
143	35.04	6.10E-03	****	6.13E-03	****
144	35.29	6.20E-03	****	6.06E-03	****
145	35.53	6.21E-03	****	5.99E-03	****
146	35.78	5.96E-03	****	6.38E-03	****
147	36.02	6.19E-03	****	6.09E-03	****
148	36.27	6.43E-03	****	6.36E-03	****
149	36.52	6.30E-03	****	6.30E-03	****
150	36.76	6.34E-03	****	6.22E-03	****
151	37.01	6.12E-03	****	6.17E-03	****
152	37.25	6.22E-03	****	6.16E-03	****
153	37.50	6.15E-03	****	6.00E-03	****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	6.09E-03	****	5.88E-03	****
155	37.99	5.82E-03	****	5.80E-03	****
156	38.24	5.80E-03	****	5.82E-03	****
157	38.48	5.80E-03	****	5.97E-03	****
158	38.73	5.67E-03	****	5.85E-03	****
159	38.98	5.80E-03	****	5.79E-03	****
160	39.22	5.90E-03	****	5.97E-03	****
161	39.47	5.98E-03	****	5.99E-03	****
162	39.71	6.07E-03	****	5.96E-03	****
163	39.96	6.01E-03	****	6.02E-03	****
164	40.20	6.29E-03	****	5.98E-03	****
165	40.45	6.25E-03	****	6.12E-03	****
166	40.70	6.01E-03	****	5.97E-03	****
167	40.94	6.06E-03	****	5.92E-03	****
168	41.19	5.82E-03	****	5.79E-03	****
169	41.43	5.83E-03	****	5.79E-03	****
170	41.68	5.84E-03	****	5.75E-03	****
171	41.93	5.81E-03	****	5.72E-03	****
172	42.17	5.85E-03	****	5.81E-03	****
173	42.42	6.10E-03	****	5.88E-03	****
174	42.66	6.14E-03	****	5.86E-03	****
175	42.91	6.07E-03	****	5.86E-03	****
176	43.16	6.05E-03	****	5.93E-03	****
177	43.40	5.54E-03	****	5.82E-03	****
178	43.65	5.66E-03	****	5.64E-03	****
179	43.89	5.46E-03	****	5.27E-03	****
180	44.14	5.15E-03	****	5.29E-03	****
181	44.39	5.01E-03	****	5.28E-03	****
182	44.63	5.10E-03	****	5.20E-03	****
183	44.88	5.09E-03	****	4.94E-03	****
184	45.12	5.17E-03	****	5.16E-03	****
185	45.37	5.30E-03	****	5.29E-03	****
186	45.61	5.24E-03	****	5.28E-03	****
187	45.86	5.26E-03	****	5.34E-03	****
188	46.11	5.22E-03	****	5.15E-03	****
189	46.35	4.97E-03	****	4.85E-03	****
190	46.60	4.85E-03	****	4.77E-03	****
191	46.84	4.63E-03	****	4.72E-03	****
192	47.09	4.58E-03	****	4.56E-03	****
193	47.34	4.56E-03	****	4.59E-03	****
194	47.58	4.61E-03	****	4.64E-03	****
195	47.83	4.75E-03	****	4.71E-03	****
196	48.07	4.77E-03	****	4.71E-03	****
197	48.32	4.74E-03	****	4.86E-03	****
198	48.57	5.03E-03	****	5.01E-03	****
199	48.81	5.10E-03	****	4.80E-03	****
200	49.06	5.12E-03	****	4.72E-03	****
201	49.30	4.91E-03	****	4.83E-03	****
202	49.55	4.82E-03	****	5.63E-03	38.0
203	49.79	4.68E-03	****	4.55E-03	****
204	50.04	4.64E-03	****	4.60E-03	****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	4.34E-03	****	4.51E-03	****
206	50.53	4.49E-03	****	5.79E-03	34.3
207	50.78	4.19E-03	****	4.23E-03	****
208	51.02	4.09E-03	****	4.27E-03	****
209	51.27	4.06E-03	****	4.14E-03	****
210	51.52	4.25E-03	****	4.15E-03	****
211	51.76	4.12E-03	****	3.95E-03	****
212	52.01	4.34E-03	****	4.03E-03	****
213	52.25	3.92E-03	****	3.90E-03	****
214	52.50	3.98E-03	****	3.67E-03	****
215	52.75	4.82E-03	35.1	3.61E-03	****
216	52.99	3.68E-03	****	3.53E-03	****
217	53.24	3.65E-03	****	3.51E-03	****
218	53.48	3.66E-03	****	3.47E-03	****
219	53.73	3.59E-03	****	3.34E-03	****
220	53.98	3.64E-03	****	3.45E-03	****
221	54.22	3.62E-03	****	3.42E-03	****
222	54.47	3.18E-03	****	3.36E-03	****
223	54.71	3.36E-03	****	3.35E-03	****
224	54.96	3.31E-03	****	3.39E-03	****
225	55.20	3.33E-03	****	3.23E-03	****
226	55.45	3.97E-03	35.4	3.14E-03	****
227	55.70	3.20E-03	****	3.03E-03	****
228	55.94	3.24E-03	****	3.80E-03	35.7
229	56.19	3.19E-03	****	3.19E-03	****
230	56.43	3.32E-03	****	2.99E-03	****
231	56.68	3.19E-03	****	2.90E-03	****
232	56.93	3.16E-03	****	2.95E-03	****
233	57.17	3.19E-03	****	2.98E-03	****
234	57.42	3.08E-03	****	2.92E-03	****
235	57.66	3.07E-03	****	3.16E-03	****
236	57.91	3.31E-03	****	3.26E-03	****
237	58.16	4.01E-03	****	3.62E-03	****
238	58.40	3.75E-03	****	3.81E-03	****
239	58.65	3.41E-03	****	2.75E-03	****
240	58.89	3.26E-03	****	3.07E-03	****
241	59.14	3.17E-03	****	3.07E-03	****
242	59.39	3.09E-03	****	3.08E-03	****
243	59.63	3.16E-03	****	2.75E-03	****
244	59.88	3.11E-03	****	3.04E-03	****
245	60.12	2.43E-03	****	2.67E-03	****
246	60.37	2.27E-03	****	2.20E-03	****
247	60.61	2.18E-03	****	2.04E-03	****
248	60.86	2.03E-03	****	1.86E-03	****
249	61.11	1.90E-03	****	1.73E-03	****
250	61.35	1.81E-03	****	1.68E-03	****
251	61.60	1.78E-03	****	1.64E-03	****
252	61.84	1.75E-03	****	1.60E-03	****
253	62.09	1.69E-03	****	1.51E-03	****
254	62.34	1.68E-03	****	1.51E-03	****
255	62.58	1.62E-03	****	1.46E-03	****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	1.59E-03	****	1.45E-03	****
257	63.07	1.56E-03	****	1.43E-03	****
258	63.32	1.47E-03	****	1.37E-03	****
259	63.57	1.34E-03	****	1.28E-03	****
260	63.81	1.21E-03	****	1.16E-03	****
261	64.06	1.15E-03	****	1.12E-03	****
262	64.30	1.06E-03	****	9.99E-04	****
263	64.55	9.63E-04	****	9.11E-04	****
264	64.79	9.18E-04	****	8.53E-04	****
265	65.04	8.90E-04	****	7.86E-04	****
266	65.29	8.67E-04	****	7.90E-04	****
267	65.53	8.60E-04	****	7.80E-04	****
268	65.78	8.37E-04	****	7.44E-04	****
269	66.02	8.15E-04	****	7.89E-04	****
270	66.27	8.16E-04	****	8.16E-04	****
271	66.52	7.77E-04	****	8.01E-04	****
272	66.76	7.61E-04	****	7.24E-04	****
273	67.01	7.18E-04	****	6.89E-04	****
274	67.25	6.93E-04	****	6.38E-04	****
275	67.50	6.87E-04	****	6.42E-04	****
276	67.75	7.15E-04	****	6.77E-04	****
277	67.99	7.48E-04	****	7.00E-04	****
278	68.24	7.51E-04	****	7.06E-04	****
279	68.48	7.35E-04	****	7.21E-04	****
280	68.73	7.23E-04	****	7.13E-04	****
281	68.98	7.16E-04	****	7.06E-04	****
282	69.22	7.19E-04	****	7.24E-04	****
283	69.47	7.37E-04	****	7.18E-04	****
284	69.71	7.43E-04	****	7.17E-04	****
285	69.96	7.24E-04	****	7.12E-04	****
286	70.20	6.98E-04	****	6.53E-04	****
287	70.45	7.11E-04	****	6.70E-04	****
288	70.70	7.24E-04	****	6.49E-04	****
289	70.94	6.65E-04	****	6.15E-04	****
290	71.19	6.01E-04	****	5.99E-04	****
291	71.43	1.61E-04	****	5.58E-04	****
292	71.68	5.54E-04	****	5.30E-04	****
293	71.93	5.04E-04	****	4.92E-04	****
294	72.17	4.85E-04	****	4.66E-04	****
295	72.42	4.71E-04	****	4.62E-04	****
296	72.66	4.78E-04	****	4.71E-04	****
297	72.91	4.65E-04	****	4.55E-04	****
298	73.16	4.80E-04	****	4.61E-04	****
299	73.40	5.05E-04	****	4.80E-04	****
300	73.65	5.37E-04	****	5.16E-04	****
301	73.89	4.87E-04	****	4.66E-04	****
302	74.14	4.23E-04	****	4.16E-04	****
303	74.38	3.91E-04	****	4.02E-04	****
304	74.63	3.81E-04	****	3.77E-04	****
305	74.88	3.63E-04	****	3.63E-04	****
306	75.12	3.61E-04	****	3.60E-04	****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	3.58E-04	****	3.51E-04	****
308	75.61	3.56E-04	****	3.36E-04	****
309	75.86	3.42E-04	****	3.30E-04	****
310	76.11	3.32E-04	****	3.20E-04	****
311	76.35	3.26E-04	****	3.14E-04	****
312	76.60	3.20E-04	****	3.14E-04	****
313	76.84	3.19E-04	****	3.03E-04	****
314	77.09	3.22E-04	****	3.02E-04	****
315	77.34	3.26E-04	****	2.95E-04	****
316	77.58	9.05E-05	****	1.85E-04	****
317	77.83	2.01E-04	****	1.93E-04	****
318	78.07	2.15E-04	****	2.05E-04	****
319	78.32	2.28E-04	****	2.15E-04	****
320	78.57	2.26E-04	****	2.17E-04	****
321	78.81	2.13E-04	****	2.06E-04	****
322	79.06	2.03E-04	****	1.95E-04	****
323	79.30	1.93E-04	****	1.84E-04	****
324	79.55	1.79E-04	****	1.75E-04	****
325	79.79	1.63E-04	****	1.58E-04	****
326	80.04	1.49E-04	****	1.42E-04	****
327	80.29	1.31E-04	****	1.26E-04	****
328	80.53	1.21E-04	****	1.13E-04	****
329	80.78	1.10E-04	****	1.08E-04	****
330	81.02	1.05E-04	****	1.07E-04	****
331	81.27	1.06E-04	****	1.08E-04	****
332	81.52	1.08E-04	****	1.12E-04	****
333	81.76	1.09E-04	****	1.12E-04	****
334	82.01	1.07E-04	****	1.12E-04	****
335	82.25	1.12E-04	****	1.13E-04	****
336	82.50	1.13E-04	****	1.13E-04	****
337	82.75	1.09E-04	****	1.06E-04	****
338	82.99	9.98E-05	****	1.00E-04	****
339	83.24	9.12E-05	****	9.62E-05	****
340	83.48	8.42E-05	****	9.15E-05	****
341	83.73	7.75E-05	****	8.58E-05	****
342	83.97	7.29E-05	****	8.44E-05	****
343	84.22	6.94E-05	****	7.76E-05	****
344	84.47	6.71E-05	****	7.53E-05	****
345	84.71	6.91E-05	****	7.24E-05	****
346	84.96	6.80E-05	****	7.31E-05	****
347	85.20	6.87E-05	****	7.55E-05	****
348	85.45	6.73E-05	****	7.25E-05	****
349	85.70	6.50E-05	****	7.00E-05	****
350	85.94	6.35E-05	****	6.78E-05	****
351	86.19	6.15E-05	****	6.85E-05	****
352	86.43	6.08E-05	****	6.55E-05	****
353	86.68	5.94E-05	****	6.32E-05	****
354	86.93	5.72E-05	****	6.34E-05	****
355	87.17	5.20E-05	****	5.67E-05	****
356	87.42	4.59E-05	****	5.23E-05	****

Table A-7. Axial distribution of ^{125}Sb in the sleeve of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.19	2.75E-05	****	5.42E-05	****
2	0.43	1.46E-04	24.7	6.14E-04	15.0
3	0.68	1.20E-03	10.2	2.72E-04	19.2
4	0.92	5.78E-04	12.9	6.20E-05	****
5	1.17	7.61E-05	****	5.83E-05	****
6	1.41	7.29E-05	****	5.49E-05	****
7	1.66	7.05E-05	****	5.54E-05	****
8	1.91	9.22E-05	33.8	5.43E-05	****
9	2.15	6.66E-05	****	5.90E-05	****
10	2.40	7.25E-05	****	5.82E-05	****
11	2.64	7.44E-05	****	6.27E-05	****
12	2.89	8.24E-05	****	7.31E-05	****
13	3.14	9.47E-05	****	8.90E-05	****
14	3.38	1.16E-04	****	1.00E-04	****
15	3.63	1.29E-04	****	9.78E-05	****
16	3.87	1.33E-04	****	1.07E-04	****
17	4.12	3.00E-04	****	1.17E-04	****
18	4.37	3.19E-04	****	1.27E-04	****
19	4.61	3.39E-04	****	3.00E-04	****
20	4.86	3.54E-04	****	3.18E-04	****
21	5.10	3.59E-04	****	3.45E-04	****
22	5.35	4.06E-04	****	3.83E-04	****
23	5.60	4.41E-04	****	4.13E-04	****
24	5.84	4.89E-04	****	4.98E-04	****
25	6.09	7.44E-04	****	8.10E-04	****
26	6.33	8.62E-04	****	8.06E-04	****
27	6.58	1.08E-03	****	8.14E-04	****
28	6.82	1.05E-03	****	8.16E-04	****
29	7.07	9.74E-04	****	8.02E-04	****
30	7.32	9.90E-04	****	8.12E-04	****
31	7.56	1.00E-03	****	8.12E-04	****
32	7.81	1.01E-03	****	8.05E-04	****
33	8.05	1.01E-03	****	8.07E-04	****
34	8.30	1.03E-03	****	8.20E-04	****
35	8.55	1.03E-03	****	9.74E-04	****
36	8.79	1.09E-03	****	9.42E-04	****
37	9.04	1.21E-03	****	8.56E-04	****
38	9.28	1.37E-03	****	8.39E-04	****
39	9.53	1.59E-03	****	8.65E-04	****
40	9.78	2.03E-03	****	8.83E-04	****
41	10.02	2.33E-03	****	9.31E-04	****
42	10.27	2.45E-03	****	9.84E-04	****
43	10.51	7.15E-03	****	1.03E-03	****
44	10.76	7.44E-03	****	1.14E-03	****
45	11.01	7.77E-03	****	1.29E-03	****
46	11.25	8.13E-03	****	1.66E-03	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
47	11.50	8.90E-03	****	2.08E-03	****
48	11.74	1.25E-02	35.2	7.04E-03	****
49	11.99	1.01E-02	****	7.32E-03	****
50	12.23	1.09E-02	****	7.50E-03	****
51	12.48	1.23E-02	****	7.79E-03	****
52	12.73	1.20E-02	****	8.17E-03	****
53	12.97	1.00E-02	****	8.90E-03	****
54	13.22	1.01E-02	****	9.09E-03	****
55	13.46	1.05E-02	****	9.34E-03	****
56	13.71	1.11E-02	****	9.62E-03	****
57	13.96	1.13E-02	****	1.03E-02	****
58	14.20	1.14E-02	****	1.06E-02	****
59	14.45	1.17E-02	****	1.19E-02	****
60	14.69	1.21E-02	****	1.25E-02	****
61	14.94	1.21E-02	****	1.13E-02	****
62	15.19	1.22E-02	****	1.15E-02	****
63	15.43	1.26E-02	****	1.20E-02	****
64	15.68	1.40E-02	****	1.27E-02	****
65	15.92	1.32E-02	****	1.31E-02	****
66	16.17	1.11E-02	****	1.31E-02	****
67	16.41	1.18E-02	****	1.35E-02	****
68	16.66	1.25E-02	****	1.36E-02	****
69	16.91	1.32E-02	****	1.39E-02	****
70	17.15	1.42E-02	****	1.42E-02	****
71	17.40	1.50E-02	****	1.49E-02	****
72	17.64	1.51E-02	****	1.61E-02	****
73	17.89	1.54E-02	****	1.57E-02	****
74	18.14	1.58E-02	****	1.52E-02	****
75	18.38	1.56E-02	****	1.47E-02	****
76	18.63	1.62E-02	****	1.54E-02	****
77	18.87	1.84E-02	****	1.58E-02	****
78	19.12	1.74E-02	****	1.64E-02	****
79	19.37	1.64E-02	****	1.74E-02	****
80	19.61	1.64E-02	****	1.75E-02	****
81	19.86	1.63E-02	****	1.81E-02	****
82	20.10	1.68E-02	****	1.82E-02	****
83	20.35	1.70E-02	****	1.85E-02	****
84	20.60	1.72E-02	****	1.87E-02	****
85	20.84	1.71E-02	****	1.98E-02	****
86	21.09	1.75E-02	****	1.95E-02	****
87	21.33	1.76E-02	****	1.90E-02	****
88	21.58	1.73E-02	****	1.92E-02	****
89	21.82	1.88E-02	****	1.87E-02	****
90	22.07	1.83E-02	****	1.90E-02	****
91	22.32	1.52E-02	****	1.92E-02	****
92	22.56	1.42E-02	****	1.94E-02	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
93	22.81	1.43E-02	****	1.94E-02	****
94	23.05	1.58E-02	****	1.94E-02	****
95	23.30	1.70E-02	****	1.98E-02	****
96	23.55	1.73E-02	****	1.98E-02	****
97	23.79	1.75E-02	****	2.10E-02	****
98	24.04	1.75E-02	****	2.17E-02	****
99	24.28	1.87E-02	****	2.03E-02	****
100	24.53	2.13E-02	****	1.99E-02	****
101	24.78	2.48E-02	****	2.04E-02	****
102	25.02	2.59E-02	****	2.09E-02	****
103	25.27	2.24E-02	****	2.23E-02	****
104	25.51	2.14E-02	****	2.24E-02	****
105	25.76	2.11E-02	****	2.33E-02	****
106	26.00	2.12E-02	****	2.41E-02	****
107	26.25	2.10E-02	****	2.54E-02	****
108	26.50	1.92E-02	****	2.70E-02	****
109	26.74	2.00E-02	****	2.72E-02	****
110	26.99	2.02E-02	****	2.80E-02	****
111	27.23	1.99E-02	****	2.43E-02	****
112	27.48	2.06E-02	****	2.36E-02	****
113	27.73	2.15E-02	****	2.28E-02	****
114	27.97	2.16E-02	****	2.29E-02	****
115	28.22	2.04E-02	****	2.23E-02	****
116	28.46	2.01E-02	****	2.19E-02	****
117	28.71	1.96E-02	****	2.08E-02	****
118	28.96	1.99E-02	****	2.14E-02	****
119	29.20	1.97E-02	****	2.16E-02	****
120	29.45	1.95E-02	****	2.19E-02	****
121	29.69	1.94E-02	****	2.16E-02	****
122	29.94	1.88E-02	****	2.16E-02	****
123	30.25	4.36E-03	****	5.46E-03	****
124	30.49	8.59E-03	****	2.50E-02	****
125	30.74	2.35E-02	****	2.63E-02	****
126	30.99	2.37E-02	****	2.59E-02	****
127	31.23	2.30E-02	****	2.60E-02	****
128	31.48	2.30E-02	****	2.59E-02	****
129	31.72	2.29E-02	****	2.68E-02	****
130	31.97	2.30E-02	****	2.72E-02	****
131	32.21	2.42E-02	****	2.82E-02	****
132	32.46	2.39E-02	****	2.80E-02	****
133	32.71	2.43E-02	****	2.78E-02	****
134	32.95	2.47E-02	****	2.85E-02	****
135	33.20	2.52E-02	****	2.95E-02	****
136	33.44	2.66E-02	****	3.25E-02	****
137	33.69	2.85E-02	****	2.93E-02	****
138	33.94	2.46E-02	****	2.77E-02	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
139	34.18	2.31E-02	****	2.83E-02	****
140	34.43	2.33E-02	****	2.71E-02	****
141	34.67	2.43E-02	****	2.65E-02	****
142	34.92	2.50E-02	****	2.64E-02	****
143	35.17	2.54E-02	****	2.71E-02	****
144	35.41	2.53E-02	****	2.75E-02	****
145	35.66	2.44E-02	****	2.80E-02	****
146	35.90	2.49E-02	****	2.93E-02	****
147	36.15	2.50E-02	****	2.98E-02	****
148	36.40	2.47E-02	****	3.03E-02	****
149	36.64	2.63E-02	****	2.96E-02	****
150	36.89	2.50E-02	****	2.86E-02	****
151	37.13	2.46E-02	****	2.86E-02	****
152	37.38	2.51E-02	****	2.72E-02	****
153	37.62	2.45E-02	****	2.67E-02	****
154	37.87	2.43E-02	****	2.75E-02	****
155	38.12	2.39E-02	****	2.70E-02	****
156	38.36	2.33E-02	****	2.67E-02	****
157	38.61	2.41E-02	****	2.66E-02	****
158	38.85	2.43E-02	****	2.68E-02	****
159	39.10	2.45E-02	****	2.71E-02	****
160	39.35	2.44E-02	****	2.71E-02	****
161	39.59	2.53E-02	****	2.75E-02	****
162	39.84	2.63E-02	****	2.68E-02	****
163	40.08	2.49E-02	****	2.73E-02	****
164	40.33	2.48E-02	****	2.58E-02	****
165	40.58	2.50E-02	****	2.58E-02	****
166	40.82	2.57E-02	****	2.58E-02	****
167	41.07	2.51E-02	****	2.59E-02	****
168	41.31	2.44E-02	****	2.69E-02	****
169	41.56	2.44E-02	****	2.73E-02	****
170	41.81	2.45E-02	****	2.74E-02	****
171	42.05	2.57E-02	****	2.83E-02	****
172	42.30	2.61E-02	****	2.90E-02	****
173	42.54	2.77E-02	****	3.02E-02	****
174	42.79	2.84E-02	****	3.22E-02	****
175	43.03	2.85E-02	****	3.36E-02	****
176	43.28	2.76E-02	****	3.28E-02	****
177	43.53	2.81E-02	****	3.23E-02	****
178	43.77	2.88E-02	****	3.04E-02	****
179	44.02	2.72E-02	****	2.96E-02	****
180	44.26	2.57E-02	****	2.93E-02	****
181	44.51	2.41E-02	****	2.90E-02	****
182	44.76	2.42E-02	****	2.78E-02	****
183	45.00	2.38E-02	****	2.85E-02	****
184	45.25	2.30E-02	****	2.76E-02	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
185	45.49	2.23E-02	****	2.80E-02	****
186	45.74	2.24E-02	****	2.89E-02	****
187	45.99	2.22E-02	****	2.79E-02	****
188	46.23	2.01E-02	****	2.64E-02	****
189	46.48	1.99E-02	****	2.52E-02	****
190	46.72	1.97E-02	****	2.54E-02	****
191	46.97	1.92E-02	****	2.43E-02	****
192	47.21	1.85E-02	****	2.34E-02	****
193	47.46	1.81E-02	****	2.30E-02	****
194	47.71	1.80E-02	****	2.30E-02	****
195	47.95	1.84E-02	****	2.29E-02	****
196	48.20	1.86E-02	****	2.23E-02	****
197	48.44	1.86E-02	****	2.29E-02	****
198	48.69	1.95E-02	****	2.43E-02	****
199	48.94	2.06E-02	****	2.45E-02	****
200	49.18	2.09E-02	****	2.33E-02	****
201	49.43	2.12E-02	****	2.24E-02	****
202	49.67	2.05E-02	****	2.24E-02	****
203	49.92	1.98E-02	****	2.17E-02	****
204	50.17	1.93E-02	****	2.05E-02	****
205	50.41	1.91E-02	****	2.02E-02	****
206	50.66	1.83E-02	****	1.99E-02	****
207	50.90	1.79E-02	****	1.90E-02	****
208	51.15	1.72E-02	****	1.88E-02	****
209	51.40	1.71E-02	****	1.94E-02	****
210	51.64	1.70E-02	****	1.93E-02	****
211	51.89	1.78E-02	****	1.83E-02	****
212	52.13	1.79E-02	****	1.84E-02	****
213	52.38	1.75E-02	****	1.90E-02	****
214	52.62	1.70E-02	****	1.90E-02	****
215	52.87	1.69E-02	****	1.89E-02	****
216	53.12	1.65E-02	****	1.83E-02	****
217	53.36	1.67E-02	****	1.81E-02	****
218	53.61	1.68E-02	****	1.84E-02	****
219	53.85	1.68E-02	****	1.84E-02	****
220	54.10	1.69E-02	****	1.86E-02	****
221	54.35	1.71E-02	****	1.76E-02	****
222	54.59	1.68E-02	****	1.71E-02	****
223	54.84	1.72E-02	****	1.64E-02	****
224	55.08	1.70E-02	****	1.51E-02	****
225	55.33	1.59E-02	****	1.47E-02	****
226	55.58	1.56E-02	****	1.43E-02	****
227	55.82	1.46E-02	****	1.35E-02	****
228	56.07	1.39E-02	****	1.24E-02	****
229	56.31	1.36E-02	****	1.20E-02	****
230	56.56	1.29E-02	****	1.17E-02	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
231	56.81	1.30E-02	****	1.16E-02	****
232	57.05	1.29E-02	****	1.14E-02	****
233	57.30	1.22E-02	****	1.13E-02	****
234	57.54	1.20E-02	****	1.20E-02	****
235	57.79	1.21E-02	****	1.26E-02	****
236	58.03	1.22E-02	****	1.26E-02	****
237	58.28	1.24E-02	****	1.23E-02	****
238	58.53	1.25E-02	****	1.24E-02	****
239	58.77	1.25E-02	****	1.28E-02	****
240	59.02	1.30E-02	****	1.28E-02	****
241	59.26	1.32E-02	****	1.28E-02	****
242	59.51	1.28E-02	****	1.28E-02	****
243	59.76	1.33E-02	****	1.30E-02	****
244	60.00	1.33E-02	****	1.31E-02	****
245	60.31	5.38E-03	****	5.13E-03	****
246	60.56	9.73E-03	****	1.13E-02	****
247	60.80	9.36E-03	****	1.10E-02	****
248	61.05	9.25E-03	****	1.04E-02	****
249	61.29	8.94E-03	****	1.02E-02	****
250	61.54	8.81E-03	****	1.03E-02	****
251	61.79	9.08E-03	****	1.00E-02	****
252	62.03	8.77E-03	****	9.84E-03	****
253	62.28	8.70E-03	****	9.72E-03	****
254	62.52	8.37E-03	****	9.50E-03	****
255	62.77	8.42E-03	****	9.33E-03	****
256	63.02	8.87E-03	****	9.73E-03	****
257	63.26	9.37E-03	****	9.99E-03	****
258	63.51	9.52E-03	****	1.04E-02	****
259	63.75	9.31E-03	****	1.01E-02	****
260	64.00	8.71E-03	****	9.93E-03	****
261	64.24	8.76E-03	****	1.26E-02	36.5
262	64.49	8.36E-03	****	9.66E-03	****
263	64.74	7.67E-03	****	9.35E-03	****
264	64.98	9.21E-03	37.6	8.91E-03	****
265	65.23	7.23E-03	****	8.49E-03	****
266	65.47	7.03E-03	****	8.08E-03	****
267	65.72	2.96E-03	****	7.91E-03	****
268	65.97	2.88E-03	****	7.86E-03	****
269	66.21	2.86E-03	****	8.00E-03	****
270	66.46	3.00E-03	****	3.62E-03	****
271	66.70	3.02E-03	****	3.61E-03	****
272	66.95	2.79E-03	****	3.67E-03	****
273	67.20	2.76E-03	****	3.42E-03	****
274	67.44	3.02E-03	39.8	3.44E-03	****
275	67.69	2.42E-03	****	3.26E-03	****
276	67.93	2.39E-03	****	3.13E-03	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
277	68.18	2.35E-03	****	2.85E-03	****
278	68.42	2.33E-03	****	2.89E-03	****
279	68.67	2.33E-03	****	2.64E-03	****
280	68.92	2.35E-03	****	2.74E-03	****
281	69.16	2.53E-03	****	2.86E-03	****
282	69.41	2.54E-03	****	2.81E-03	****
283	69.65	2.73E-03	****	2.83E-03	****
284	69.90	2.92E-03	****	2.98E-03	****
285	70.15	2.79E-03	****	3.05E-03	****
286	70.39	2.61E-03	****	2.83E-03	****
287	70.64	2.43E-03	****	2.65E-03	****
288	70.88	2.43E-03	****	2.65E-03	****
289	71.13	2.30E-03	****	2.49E-03	****
290	71.38	2.11E-03	****	2.34E-03	****
291	71.62	2.03E-03	****	2.11E-03	****
292	71.87	2.04E-03	****	2.18E-03	****
293	72.11	1.96E-03	****	2.01E-03	****
294	72.36	1.87E-03	****	1.93E-03	****
295	72.61	1.81E-03	****	1.95E-03	****
296	72.85	1.80E-03	****	1.86E-03	****
297	73.10	1.79E-03	****	1.98E-03	****
298	73.34	1.61E-03	****	1.80E-03	****
299	73.59	1.58E-03	****	1.61E-03	****
300	73.83	1.57E-03	****	1.55E-03	****
301	74.08	1.57E-03	****	1.51E-03	****
302	74.33	1.50E-03	****	1.43E-03	****
303	74.57	1.39E-03	****	1.34E-03	****
304	74.82	1.39E-03	****	1.60E-03	39.5
305	75.06	1.37E-03	****	1.35E-03	****
306	75.31	1.40E-03	****	1.36E-03	****
307	75.56	1.40E-03	****	1.38E-03	****
308	75.80	1.38E-03	****	1.36E-03	****
309	76.05	1.42E-03	****	1.40E-03	****
310	76.29	1.48E-03	****	1.59E-03	****
311	76.54	1.44E-03	****	1.54E-03	****
312	76.79	1.37E-03	****	1.36E-03	****
313	77.03	1.29E-03	****	1.28E-03	****
314	77.28	1.18E-03	****	1.22E-03	****
315	77.52	1.08E-03	****	1.06E-03	****
316	77.77	1.10E-03	****	1.10E-03	****
317	78.01	1.13E-03	****	1.09E-03	****
318	78.26	1.10E-03	****	1.10E-03	****
319	78.51	1.06E-03	****	1.07E-03	****
320	78.75	1.00E-03	****	9.64E-04	****
321	79.00	9.45E-04	****	7.70E-04	****
322	79.24	7.68E-04	****	8.69E-04	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
323	79.49	7.31E-04	****	8.55E-04	****
324	79.74	6.73E-04	****	6.63E-04	****
325	79.98	6.10E-04	****	6.32E-04	****
326	80.23	5.32E-04	****	5.30E-04	****
327	80.47	4.49E-04	****	4.39E-04	****
328	80.72	4.22E-04	****	4.33E-04	****
329	80.97	3.72E-04	****	4.06E-04	****
330	81.21	3.21E-04	****	3.55E-04	****
331	81.46	2.84E-04	****	3.17E-04	****
332	81.70	2.66E-04	****	3.02E-04	****
333	81.95	2.52E-04	****	2.84E-04	****
334	82.20	2.63E-04	****	2.90E-04	****
335	82.44	2.81E-04	****	3.11E-04	****
336	82.69	2.48E-04	****	2.66E-04	****
337	82.93	2.25E-04	****	2.35E-04	****
338	83.18	2.08E-04	****	2.29E-04	****
339	83.42	1.92E-04	****	2.14E-04	****
340	83.67	1.86E-04	****	2.04E-04	****
341	83.92	1.85E-04	****	1.92E-04	****
342	84.16	1.75E-04	****	1.10E-04	****
343	84.41	1.71E-04	****	1.03E-04	****
344	84.65	1.70E-04	****	9.94E-05	****
345	84.90	9.37E-05	****	9.46E-05	****
346	85.15	9.17E-05	****	8.96E-05	****
347	85.39	9.16E-05	****	8.88E-05	****
348	85.64	8.75E-05	****	8.96E-05	****
349	85.88	7.91E-05	****	7.73E-05	****
350	86.13	7.45E-05	****	7.20E-05	****
351	86.38	7.01E-05	****	7.05E-05	****
352	86.62	6.62E-05	****	6.60E-05	****
353	86.87	6.37E-05	****	6.18E-05	****
354	87.11	6.11E-05	****	5.99E-05	****
355	87.36	5.80E-05	****	6.01E-05	****
356	87.60	5.47E-05	****	5.69E-05	****
357	87.85	5.31E-05	****	7.00E-05	35.8
358	88.10	5.14E-05	****	5.12E-05	****
359	88.34	5.41E-05	****	5.19E-05	****
360	88.59	5.79E-05	****	5.46E-05	****
361	88.83	5.63E-05	****	5.43E-05	****
362	89.08	5.06E-05	****	5.07E-05	****
363	89.33	7.43E-05	30.4	6.80E-05	33.4
364	89.57	4.73E-05	****	4.94E-05	****
365	89.82	6.31E-05	32.2	4.59E-05	****
366	90.06	4.20E-05	****	4.33E-05	****

Table A-8. Axial distribution of ^{125}Sb in the spine of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.73E-04	****	2.17E-04	****
2	0.37	1.18E-03	****	7.34E-04	****
3	0.61	3.58E-04	****	4.12E-04	****
4	0.86	2.11E-04	****	2.69E-04	****
5	1.11	1.93E-04	****	2.81E-04	****
6	1.35	1.87E-04	****	3.02E-04	****
7	1.60	1.85E-04	****	3.10E-04	****
8	1.84	1.89E-04	****	3.20E-04	****
9	2.09	1.95E-04	****	3.17E-04	****
10	2.34	2.05E-04	****	3.47E-04	****
11	2.58	2.23E-04	****	3.67E-04	****
12	2.83	2.45E-04	****	3.87E-04	****
13	3.07	2.72E-04	****	4.13E-04	****
14	3.32	2.83E-04	****	4.45E-04	****
15	3.57	2.94E-04	****	4.66E-04	****
16	3.81	3.16E-04	****	4.89E-04	****
17	4.06	3.39E-04	****	5.15E-04	****
18	4.30	3.73E-04	****	5.46E-04	****
19	4.55	4.04E-04	****	5.78E-04	****
20	4.80	4.39E-04	****	6.17E-04	****
21	5.04	4.79E-04	****	6.56E-04	****
22	5.29	5.34E-04	****	9.26E-04	****
23	5.53	5.95E-04	****	9.65E-04	****
24	5.78	8.35E-04	****	1.02E-03	****
25	6.02	9.31E-04	****	1.10E-03	****
26	6.27	1.04E-03	****	1.21E-03	****
27	6.52	1.11E-03	****	1.30E-03	****
28	6.76	1.19E-03	****	1.42E-03	****
29	7.01	1.23E-03	****	1.55E-03	****
30	7.25	1.36E-03	****	1.63E-03	****
31	7.50	1.45E-03	****	1.72E-03	****
32	7.75	1.50E-03	****	1.78E-03	****
33	7.99	1.61E-03	****	1.86E-03	****
34	8.24	1.68E-03	****	1.88E-03	****
35	8.48	1.79E-03	****	2.05E-03	****
36	8.73	1.93E-03	****	2.25E-03	****
37	8.98	2.18E-03	****	2.52E-03	****
38	9.22	5.32E-03	****	5.90E-03	****
39	9.47	5.77E-03	****	6.58E-03	****
40	9.71	5.99E-03	****	6.72E-03	****
41	9.96	6.26E-03	****	6.98E-03	****
42	10.20	6.47E-03	****	7.32E-03	****
43	10.45	6.68E-03	****	7.53E-03	****
44	10.70	6.96E-03	****	7.70E-03	****
45	10.94	7.10E-03	****	7.74E-03	****
46	11.19	7.39E-03	****	7.94E-03	****
47	11.43	7.72E-03	****	8.18E-03	****
48	11.68	8.23E-03	****	8.63E-03	****
49	11.93	8.62E-03	****	8.80E-03	****
50	12.17	9.06E-03	****	9.07E-03	****
51	12.42	9.44E-03	****	9.91E-03	****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	9.26E-03	****	9.48E-03	****
53	12.91	9.52E-03	****	9.58E-03	****
54	13.16	9.26E-03	****	9.39E-03	****
55	13.40	9.12E-03	****	9.28E-03	****
56	13.65	9.32E-03	****	9.07E-03	****
57	13.89	9.62E-03	****	9.68E-03	****
58	14.14	9.48E-03	****	9.40E-03	****
59	14.39	9.57E-03	****	9.39E-03	****
60	14.63	9.69E-03	****	9.39E-03	****
61	14.88	9.82E-03	****	9.33E-03	****
62	15.12	9.95E-03	****	9.55E-03	****
63	15.37	9.98E-03	****	1.03E-02	****
64	15.61	9.65E-03	****	1.03E-02	****
65	15.86	9.50E-03	****	1.05E-02	****
66	16.11	9.40E-03	****	1.03E-02	****
67	16.35	9.29E-03	****	9.75E-03	****
68	16.60	9.03E-03	****	1.01E-02	****
69	16.84	8.96E-03	****	9.74E-03	****
70	17.09	9.03E-03	****	1.01E-02	****
71	17.34	8.95E-03	****	9.69E-03	****
72	17.58	9.14E-03	****	1.03E-02	****
73	17.83	9.32E-03	****	1.04E-02	****
74	18.07	9.26E-03	****	1.05E-02	****
75	18.32	9.44E-03	****	1.06E-02	****
76	18.57	9.54E-03	****	1.09E-02	****
77	18.81	9.33E-03	****	1.06E-02	****
78	19.06	9.30E-03	****	1.05E-02	****
79	19.30	9.32E-03	****	1.04E-02	****
80	19.55	9.27E-03	****	9.95E-03	****
81	19.79	9.41E-03	****	1.04E-02	****
82	20.04	9.46E-03	****	1.05E-02	****
83	20.29	9.63E-03	****	1.07E-02	****
84	20.53	9.79E-03	****	1.09E-02	****
85	20.78	1.01E-02	****	1.13E-02	****
86	21.02	1.06E-02	****	1.14E-02	****
87	21.27	1.09E-02	****	1.15E-02	****
88	21.52	1.13E-02	****	1.20E-02	****
89	21.76	1.13E-02	****	1.22E-02	****
90	22.01	1.15E-02	****	1.26E-02	****
91	22.25	1.19E-02	****	1.27E-02	****
92	22.50	1.21E-02	****	1.29E-02	****
93	22.75	1.23E-02	****	1.30E-02	****
94	22.99	1.24E-02	****	1.31E-02	****
95	23.24	1.25E-02	****	1.32E-02	****
96	23.48	1.26E-02	****	1.31E-02	****
97	23.73	1.25E-02	****	1.30E-02	****
98	23.98	1.22E-02	****	1.28E-02	****
99	24.22	1.21E-02	****	1.26E-02	****
100	24.47	1.19E-02	****	1.24E-02	****
101	24.71	1.17E-02	****	1.25E-02	****
102	24.96	1.17E-02	****	1.23E-02	****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	1.20E-02	****	1.23E-02	****
104	25.45	1.21E-02	****	1.22E-02	****
105	25.70	1.20E-02	****	1.22E-02	****
106	25.94	1.18E-02	****	1.21E-02	****
107	26.19	1.18E-02	****	1.22E-02	****
108	26.43	1.18E-02	****	1.23E-02	****
109	26.68	1.18E-02	****	1.25E-02	****
110	26.93	1.17E-02	****	1.23E-02	****
111	27.17	1.16E-02	****	1.21E-02	****
112	27.42	1.15E-02	****	1.18E-02	****
113	27.66	1.12E-02	****	1.14E-02	****
114	27.91	1.09E-02	****	1.10E-02	****
115	28.16	1.07E-02	****	1.08E-02	****
116	28.40	1.05E-02	****	1.05E-02	****
117	28.65	1.05E-02	****	1.03E-02	****
118	28.89	1.06E-02	****	1.02E-02	****
119	29.14	1.05E-02	****	9.77E-03	****
120	29.39	9.84E-03	****	1.04E-02	****
121	29.63	1.22E-02	****	1.30E-02	****
122	29.88	8.92E-03	****	9.04E-03	****
123	30.12	8.94E-03	****	8.72E-03	****
124	30.37	8.97E-03	****	9.19E-03	****
125	30.61	9.50E-03	****	9.40E-03	****
126	30.86	9.67E-03	****	9.44E-03	****
127	31.11	9.27E-03	****	9.34E-03	****
128	31.35	9.78E-03	****	9.46E-03	****
129	31.60	9.70E-03	****	9.36E-03	****
130	31.84	9.81E-03	****	9.41E-03	****
131	32.09	9.80E-03	****	9.49E-03	****
132	32.34	9.49E-03	****	9.55E-03	****
133	32.58	9.67E-03	****	9.63E-03	****
134	32.83	1.01E-02	****	9.84E-03	****
135	33.07	1.01E-02	****	9.91E-03	****
136	33.32	9.93E-03	****	9.76E-03	****
137	33.57	9.43E-03	****	9.76E-03	****
138	33.81	9.47E-03	****	9.79E-03	****
139	34.06	9.94E-03	****	9.68E-03	****
140	34.30	9.92E-03	****	9.60E-03	****
141	34.55	9.73E-03	****	9.49E-03	****
142	34.79	9.74E-03	****	9.46E-03	****
143	35.04	9.51E-03	****	9.31E-03	****
144	35.29	9.52E-03	****	9.17E-03	****
145	35.53	9.55E-03	****	9.05E-03	****
146	35.78	9.45E-03	****	9.03E-03	****
147	36.02	9.51E-03	****	9.08E-03	****
148	36.27	9.84E-03	****	9.31E-03	****
149	36.52	9.74E-03	****	9.33E-03	****
150	36.76	9.64E-03	****	9.21E-03	****
151	37.01	9.45E-03	****	9.06E-03	****
152	37.25	9.39E-03	****	8.99E-03	****
153	37.50	9.27E-03	****	8.82E-03	****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	9.20E-03	****	8.72E-03	****
155	37.99	9.19E-03	****	8.76E-03	****
156	38.24	9.08E-03	****	8.77E-03	****
157	38.48	9.05E-03	****	8.80E-03	****
158	38.73	9.03E-03	****	8.85E-03	****
159	38.98	9.08E-03	****	8.81E-03	****
160	39.22	9.29E-03	****	8.86E-03	****
161	39.47	9.43E-03	****	8.90E-03	****
162	39.71	9.46E-03	****	8.80E-03	****
163	39.96	9.38E-03	****	8.79E-03	****
164	40.20	9.35E-03	****	8.75E-03	****
165	40.45	9.32E-03	****	8.76E-03	****
166	40.70	9.24E-03	****	8.72E-03	****
167	40.94	9.12E-03	****	8.65E-03	****
168	41.19	9.11E-03	****	8.95E-03	****
169	41.43	9.12E-03	****	8.56E-03	****
170	41.68	9.05E-03	****	8.49E-03	****
171	41.93	8.97E-03	****	8.48E-03	****
172	42.17	9.00E-03	****	8.57E-03	****
173	42.42	9.25E-03	****	9.02E-03	****
174	42.66	9.34E-03	****	8.77E-03	****
175	42.91	9.31E-03	****	8.72E-03	****
176	43.16	9.11E-03	****	8.68E-03	****
177	43.40	8.88E-03	****	8.60E-03	****
178	43.65	8.76E-03	****	8.75E-03	****
179	43.89	8.23E-03	****	8.31E-03	****
180	44.14	8.09E-03	****	8.46E-03	****
181	44.39	8.02E-03	****	8.07E-03	****
182	44.63	7.91E-03	****	7.93E-03	****
183	44.88	7.82E-03	****	8.11E-03	****
184	45.12	7.77E-03	****	8.13E-03	****
185	45.37	7.95E-03	****	7.98E-03	****
186	45.61	8.08E-03	****	8.37E-03	****
187	45.86	8.01E-03	****	8.32E-03	****
188	46.11	7.86E-03	****	8.13E-03	****
189	46.35	7.71E-03	****	8.00E-03	****
190	46.60	7.59E-03	****	7.84E-03	****
191	46.84	7.43E-03	****	7.67E-03	****
192	47.09	7.35E-03	****	7.63E-03	****
193	47.34	7.39E-03	****	7.60E-03	****
194	47.58	7.39E-03	****	7.41E-03	****
195	47.83	7.43E-03	****	7.77E-03	****
196	48.07	7.48E-03	****	7.80E-03	****
197	48.32	7.52E-03	****	7.88E-03	****
198	48.57	7.73E-03	****	8.01E-03	****
199	48.81	7.78E-03	****	8.01E-03	****
200	49.06	7.81E-03	****	7.99E-03	****
201	49.30	7.69E-03	****	7.86E-03	****
202	49.55	7.47E-03	****	7.42E-03	****
203	49.79	7.34E-03	****	7.26E-03	****
204	50.04	7.07E-03	****	7.05E-03	****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	6.98E-03	****	6.96E-03	****
206	50.53	6.86E-03	****	6.89E-03	****
207	50.78	6.83E-03	****	6.76E-03	****
208	51.02	6.71E-03	****	6.59E-03	****
209	51.27	6.66E-03	****	6.56E-03	****
210	51.52	6.63E-03	****	6.58E-03	****
211	51.76	6.62E-03	****	6.49E-03	****
212	52.01	6.58E-03	****	6.40E-03	****
213	52.25	6.51E-03	****	6.28E-03	****
214	52.50	6.31E-03	****	6.09E-03	****
215	52.75	6.17E-03	****	5.92E-03	****
216	52.99	6.12E-03	****	5.91E-03	****
217	53.24	6.34E-03	****	5.89E-03	****
218	53.48	6.03E-03	****	5.80E-03	****
219	53.73	6.25E-03	****	5.79E-03	****
220	53.98	5.95E-03	****	5.69E-03	****
221	54.22	5.80E-03	****	5.63E-03	****
222	54.47	5.93E-03	****	5.52E-03	****
223	54.71	5.57E-03	****	5.46E-03	****
224	54.96	5.51E-03	****	5.41E-03	****
225	55.20	5.45E-03	****	5.31E-03	****
226	55.45	5.56E-03	****	5.20E-03	****
227	55.70	5.52E-03	****	5.17E-03	****
228	55.94	5.38E-03	****	5.19E-03	****
229	56.19	5.70E-03	****	5.20E-03	****
230	56.43	5.68E-03	****	5.18E-03	****
231	56.68	5.52E-03	****	5.10E-03	****
232	56.93	5.32E-03	****	4.96E-03	****
233	57.17	5.29E-03	****	4.89E-03	****
234	57.42	5.27E-03	****	4.85E-03	****
235	57.66	5.36E-03	****	5.01E-03	****
236	57.91	5.63E-03	****	5.26E-03	****
237	58.16	6.52E-03	****	6.39E-03	****
238	58.40	6.38E-03	****	6.53E-03	****
239	58.65	5.84E-03	****	5.38E-03	****
240	58.89	5.53E-03	****	5.79E-03	****
241	59.14	5.36E-03	****	5.49E-03	****
242	59.39	5.19E-03	****	5.32E-03	****
243	59.63	5.12E-03	****	5.20E-03	****
244	59.88	4.95E-03	****	5.06E-03	****
245	60.12	2.42E-03	****	4.87E-03	****
246	60.37	2.33E-03	****	2.28E-03	****
247	60.61	2.27E-03	****	2.25E-03	****
248	60.86	2.16E-03	****	2.13E-03	****
249	61.11	2.06E-03	****	2.01E-03	****
250	61.35	1.99E-03	****	1.97E-03	****
251	61.60	1.97E-03	****	1.84E-03	****
252	61.84	1.95E-03	****	1.80E-03	****
253	62.09	1.90E-03	****	1.83E-03	****
254	62.34	1.87E-03	****	1.80E-03	****
255	62.58	1.83E-03	****	1.78E-03	****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	1.81E-03	****	1.70E-03	****
257	63.07	1.76E-03	****	1.66E-03	****
258	63.32	1.69E-03	****	1.69E-03	****
259	63.57	1.66E-03	****	1.59E-03	****
260	63.81	1.50E-03	****	1.52E-03	****
261	64.06	1.42E-03	****	1.42E-03	****
262	64.30	1.34E-03	****	1.33E-03	****
263	64.55	1.26E-03	****	1.21E-03	****
264	64.79	1.21E-03	****	1.14E-03	****
265	65.04	1.17E-03	****	1.05E-03	****
266	65.29	1.12E-03	****	1.07E-03	****
267	65.53	1.09E-03	****	1.05E-03	****
268	65.78	1.05E-03	****	9.92E-04	****
269	66.02	1.00E-03	****	9.77E-04	****
270	66.27	9.56E-04	****	1.02E-03	****
271	66.52	9.57E-04	****	9.51E-04	****
272	66.76	9.26E-04	****	9.23E-04	****
273	67.01	8.87E-04	****	8.73E-04	****
274	67.25	8.28E-04	****	7.86E-04	****
275	67.50	8.34E-04	****	8.11E-04	****
276	67.75	8.68E-04	****	8.57E-04	****
277	67.99	9.17E-04	****	8.66E-04	****
278	68.24	9.40E-04	****	9.27E-04	****
279	68.48	9.82E-04	****	9.44E-04	****
280	68.73	9.58E-04	****	9.42E-04	****
281	68.98	9.55E-04	****	9.15E-04	****
282	69.22	9.75E-04	****	9.71E-04	****
283	69.47	1.02E-03	****	9.84E-04	****
284	69.71	9.94E-04	****	1.00E-03	****
285	69.96	9.65E-04	****	9.53E-04	****
286	70.20	9.69E-04	****	9.62E-04	****
287	70.45	9.46E-04	****	9.38E-04	****
288	70.70	9.38E-04	****	9.25E-04	****
289	70.94	8.79E-04	****	8.73E-04	****
290	71.19	7.87E-04	****	8.07E-04	****
291	71.43	2.09E-04	****	5.64E-04	****
292	71.68	5.21E-04	****	5.31E-04	****
293	71.93	4.72E-04	****	4.76E-04	****
294	72.17	4.47E-04	****	4.41E-04	****
295	72.42	4.36E-04	****	4.30E-04	****
296	72.66	4.34E-04	****	4.29E-04	****
297	72.91	4.18E-04	****	4.14E-04	****
298	73.16	4.43E-04	****	4.35E-04	****
299	73.40	4.60E-04	****	4.42E-04	****
300	73.65	4.95E-04	****	4.84E-04	****
301	73.89	4.48E-04	****	4.42E-04	****
302	74.14	3.85E-04	****	3.87E-04	****
303	74.38	3.55E-04	****	3.72E-04	****
304	74.63	3.39E-04	****	3.52E-04	****
305	74.88	3.25E-04	****	3.36E-04	****
306	75.12	3.15E-04	****	3.22E-04	****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	3.18E-04	****	3.20E-04	****
308	75.61	3.28E-04	****	3.27E-04	****
309	75.86	3.23E-04	****	3.16E-04	****
310	76.11	3.00E-04	****	2.82E-04	****
311	76.35	2.64E-04	****	2.55E-04	****
312	76.60	2.47E-04	****	2.37E-04	****
313	76.84	2.29E-04	****	2.16E-04	****
314	77.09	1.96E-04	****	1.94E-04	****
315	77.34	1.72E-04	****	1.78E-04	****
316	77.58	4.25E-05	****	8.54E-05	****
317	77.83	8.29E-05	****	8.21E-05	****
318	78.07	8.09E-05	****	7.88E-05	****
319	78.32	7.94E-05	****	8.19E-05	****
320	78.57	7.89E-05	****	8.33E-05	****
321	78.81	7.68E-05	****	8.29E-05	****
322	79.06	7.43E-05	****	8.11E-05	****
323	79.30	7.54E-05	****	7.84E-05	****
324	79.55	6.95E-05	****	7.20E-05	****
325	79.79	6.49E-05	****	6.67E-05	****
326	80.04	5.89E-05	****	5.98E-05	****
327	80.29	5.35E-05	****	5.32E-05	****
328	80.53	4.89E-05	****	4.88E-05	****
329	80.78	4.83E-05	****	4.72E-05	****
330	81.02	4.67E-05	****	4.64E-05	****
331	81.27	4.82E-05	****	4.77E-05	****
332	81.52	4.95E-05	****	4.95E-05	****
333	81.76	5.22E-05	****	6.36E-05	38.4
334	82.01	5.36E-05	****	5.15E-05	****
335	82.25	8.53E-05	32.3	7.39E-05	38.4
336	82.50	1.10E-04	19.6	1.14E-04	18.8
337	82.75	5.27E-05	****	5.33E-05	****
338	82.99	4.62E-05	****	4.70E-05	****
339	83.24	4.32E-05	****	4.36E-05	****
340	83.48	3.96E-05	****	4.00E-05	****
341	83.73	3.64E-05	****	3.82E-05	****
342	83.97	3.45E-05	****	3.70E-05	****
343	84.22	3.27E-05	****	3.58E-05	****
344	84.47	3.01E-05	****	3.27E-05	****
345	84.71	2.99E-05	****	3.30E-05	****
346	84.96	4.10E-05	33.1	3.13E-05	****
347	85.20	2.78E-05	****	2.91E-05	****
348	85.45	2.70E-05	****	2.84E-05	****
349	85.70	2.57E-05	****	2.77E-05	****
350	85.94	2.56E-05	****	2.65E-05	****
351	86.19	2.40E-05	****	2.61E-05	****
352	86.43	2.34E-05	****	3.09E-05	37.6
353	86.68	2.17E-05	****	2.34E-05	****
354	86.93	2.09E-05	****	2.20E-05	****
355	87.17	1.98E-05	****	2.11E-05	****
356	87.42	1.92E-05	****	1.97E-05	****

Table A-9. Axial distribution of ^{134}Cs in the sleeve of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.19	1.28E-04	4.2	1.43E-03	1.1
2	0.43	8.92E-03	0.4	2.56E-02	0.3
3	0.68	4.12E-02	0.3	1.15E-02	0.4
4	0.92	2.02E-02	0.3	6.54E-04	1.9
5	1.17	1.17E-03	1.3	5.01E-04	2.2
6	1.41	1.38E-03	1.2	3.92E-04	2.6
7	1.66	9.12E-04	1.5	2.54E-04	3.4
8	1.91	5.25E-04	2.1	2.33E-04	3.5
9	2.15	4.88E-04	2.2	2.64E-04	3.3
10	2.40	5.43E-04	2.1	2.13E-04	3.9
11	2.64	7.97E-04	1.7	3.34E-04	2.9
12	2.89	8.70E-04	1.6	9.51E-04	1.5
13	3.14	1.69E-03	1.1	2.21E-03	1.0
14	3.38	3.75E-03	0.7	2.57E-03	0.9
15	3.63	5.04E-03	0.6	2.27E-03	1.0
16	3.87	4.95E-03	0.6	2.44E-03	1.0
17	4.12	5.91E-03	1.1	3.13E-03	0.9
18	4.37	7.60E-03	0.9	3.70E-03	0.8
19	4.61	9.50E-03	0.8	4.16E-03	1.4
20	4.86	1.06E-02	0.8	5.44E-03	1.2
21	5.10	1.16E-02	0.7	7.87E-03	1.0
22	5.35	1.47E-02	0.7	1.11E-02	0.8
23	5.60	1.89E-02	0.6	1.52E-02	0.7
24	5.84	2.47E-02	0.5	2.51E-02	0.6
25	6.09	1.95E-02	1.0	2.52E-02	0.9
26	6.33	3.22E-02	0.8	2.62E-02	0.9
27	6.58	6.47E-02	0.5	2.58E-02	0.9
28	6.82	5.84E-02	0.6	2.54E-02	0.9
29	7.07	4.36E-02	0.7	2.55E-02	0.9
30	7.32	4.43E-02	0.6	2.56E-02	0.9
31	7.56	4.66E-02	0.6	2.52E-02	0.9
32	7.81	4.35E-02	0.7	2.57E-02	0.9
33	8.05	4.14E-02	0.7	2.58E-02	0.9
34	8.30	4.01E-02	0.7	2.62E-02	0.9
35	8.55	3.91E-02	0.7	4.69E-02	0.6
36	8.79	4.35E-02	0.7	4.04E-02	0.7
37	9.04	6.11E-02	0.6	2.67E-02	0.9
38	9.28	7.91E-02	0.5	2.24E-02	0.9
39	9.53	1.12E-01	0.4	2.38E-02	0.9
40	9.78	1.91E-01	0.4	2.34E-02	1.0
41	10.02	2.49E-01	0.3	2.79E-02	0.9
42	10.27	2.62E-01	0.3	3.21E-02	0.8
43	10.51	3.14E-01	0.7	3.78E-02	0.8
44	10.76	3.48E-01	0.6	4.40E-02	0.7
45	11.01	3.77E-01	0.6	7.06E-02	0.6
46	11.25	4.26E-01	0.6	1.15E-01	0.5

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
47	11.50	5.03E-01	0.5	1.83E-01	0.4
48	11.74	5.36E-01	0.5	3.00E-01	0.7
49	11.99	6.79E-01	0.5	3.30E-01	0.7
50	12.23	7.82E-01	0.4	3.41E-01	0.6
51	12.48	9.96E-01	0.4	6.36E-03	***
52	12.73	9.30E-01	0.4	4.43E-01	0.6
53	12.97	6.34E-01	0.5	4.94E-01	0.5
54	13.22	6.47E-01	0.5	5.30E-01	0.5
55	13.46	6.89E-01	0.5	5.43E-01	0.5
56	13.71	7.66E-01	0.4	5.75E-01	0.5
57	13.96	8.06E-01	0.4	6.54E-01	0.5
58	14.20	8.02E-01	0.4	7.02E-01	0.5
59	14.45	8.53E-01	0.4	8.56E-01	0.4
60	14.69	9.04E-01	0.4	9.64E-01	0.4
61	14.94	9.01E-01	0.4	7.60E-01	0.5
62	15.19	9.02E-01	0.4	7.88E-01	0.4
63	15.43	9.61E-01	0.4	8.58E-01	0.4
64	15.68	1.19E+00	0.4	9.43E-01	0.4
65	15.92	1.06E+00	0.4	9.97E-01	0.4
66	16.17	7.28E-01	0.5	1.03E+00	0.4
67	16.41	8.30E-01	0.4	1.03E+00	0.4
68	16.66	9.47E-01	0.4	1.09E+00	0.4
69	16.91	1.05E+00	0.4	1.10E+00	0.4
70	17.15	1.22E+00	0.4	1.14E+00	0.4
71	17.40	1.35E+00	0.3	1.24E+00	0.4
72	17.64	1.37E+00	0.3	1.43E+00	0.4
73	17.89	1.42E+00	0.3	1.39E+00	0.4
74	18.14	1.47E+00	0.3	1.26E+00	0.4
75	18.38	1.43E+00	0.3	1.19E+00	0.4
76	18.63	1.53E+00	0.3	1.31E+00	0.4
77	18.87	1.93E+00	0.3	1.34E+00	0.4
78	19.12	1.73E+00	0.3	1.44E+00	0.4
79	19.37	1.58E+00	0.3	1.60E+00	0.4
80	19.61	1.56E+00	0.3	1.59E+00	0.4
81	19.86	1.55E+00	0.3	1.70E+00	0.3
82	20.10	1.64E+00	0.3	1.76E+00	0.3
83	20.35	1.68E+00	0.3	1.75E+00	0.3
84	20.60	1.69E+00	0.3	1.80E+00	0.3
85	20.84	1.66E+00	0.3	1.96E+00	0.3
86	21.09	1.75E+00	0.3	1.96E+00	0.3
87	21.33	1.75E+00	0.3	1.85E+00	0.3
88	21.58	1.68E+00	0.3	1.87E+00	0.3
89	21.82	1.98E+00	0.3	1.84E+00	0.3
90	22.07	1.93E+00	0.3	1.83E+00	0.3
91	22.32	1.36E+00	0.4	1.89E+00	0.3
92	22.56	1.17E+00	0.4	1.90E+00	0.3

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
93	22.81	1.22E+00	0.4	1.92E+00	0.3
94	23.05	1.48E+00	0.3	1.89E+00	0.3
95	23.30	1.72E+00	0.3	1.98E+00	0.3
96	23.55	1.75E+00	0.3	1.94E+00	0.3
97	23.79	1.81E+00	0.3	2.15E+00	0.3
98	24.04	1.78E+00	0.3	2.30E+00	0.3
99	24.28	1.99E+00	0.3	2.04E+00	0.3
100	24.53	2.45E+00	0.3	1.98E+00	0.3
101	24.78	3.11E+00	0.3	2.05E+00	0.3
102	25.02	3.33E+00	0.3	2.17E+00	0.3
103	25.27	2.64E+00	0.3	2.38E+00	0.3
104	25.51	2.44E+00	0.3	2.36E+00	0.3
105	25.76	2.41E+00	0.3	2.54E+00	0.3
106	26.00	2.43E+00	0.3	2.65E+00	0.3
107	26.25	2.41E+00	0.3	2.82E+00	0.3
108	26.50	2.07E+00	0.3	3.06E+00	0.3
109	26.74	2.22E+00	0.3	3.10E+00	0.3
110	26.99	2.25E+00	0.3	3.18E+00	0.3
111	27.23	2.20E+00	0.3	2.71E+00	0.3
112	27.48	2.34E+00	0.3	2.67E+00	0.3
113	27.73	2.47E+00	0.3	2.41E+00	0.3
114	27.97	2.55E+00	0.3	2.53E+00	0.3
115	28.22	2.29E+00	0.3	2.43E+00	0.3
116	28.46	2.30E+00	0.3	2.35E+00	0.3
117	28.71	2.17E+00	0.3	2.19E+00	0.3
118	28.96	2.24E+00	0.3	2.30E+00	0.3
119	29.20	2.17E+00	0.3	2.32E+00	0.3
120	29.45	2.20E+00	0.3	2.38E+00	0.3
121	29.69	2.19E+00	0.3	2.31E+00	0.3
122	29.94	2.12E+00	0.3	2.37E+00	0.3
123	30.25	5.72E-03	10.2	1.16E-02	6.0
124	30.49	2.15E-01	0.9	3.20E+00	0.3
125	30.74	2.91E+00	0.3	3.42E+00	0.3
126	30.99	2.87E+00	0.3	3.26E+00	0.3
127	31.23	2.69E+00	0.3	3.28E+00	0.3
128	31.48	2.68E+00	0.3	3.26E+00	0.3
129	31.72	2.63E+00	0.3	3.38E+00	0.3
130	31.97	2.68E+00	0.3	3.46E+00	0.3
131	32.21	2.89E+00	0.3	3.63E+00	0.3
132	32.46	2.83E+00	0.3	3.59E+00	0.3
133	32.71	2.86E+00	0.3	3.56E+00	0.3
134	32.95	2.96E+00	0.3	3.68E+00	0.3
135	33.20	3.04E+00	0.3	3.86E+00	0.3
136	33.44	3.29E+00	0.3	4.45E+00	0.2
137	33.69	3.66E+00	0.3	3.81E+00	0.3
138	33.94	2.90E+00	0.3	3.44E+00	0.3

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
139	34.18	2.56E+00	0.3	3.55E+00	0.3
140	34.43	2.65E+00	0.3	3.38E+00	0.3
141	34.67	2.83E+00	0.3	3.24E+00	0.3
142	34.92	2.92E+00	0.3	3.19E+00	0.3
143	35.17	3.01E+00	0.3	3.33E+00	0.3
144	35.41	3.00E+00	0.3	3.42E+00	0.3
145	35.66	2.80E+00	0.3	3.50E+00	0.3
146	35.90	2.90E+00	0.3	3.78E+00	0.3
147	36.15	2.97E+00	0.3	3.82E+00	0.3
148	36.40	2.88E+00	0.3	3.96E+00	0.3
149	36.64	3.24E+00	0.3	3.79E+00	0.3
150	36.89	2.94E+00	0.3	3.62E+00	0.3
151	37.13	2.85E+00	0.3	3.58E+00	0.3
152	37.38	2.99E+00	0.3	3.34E+00	0.3
153	37.62	2.87E+00	0.3	3.23E+00	0.3
154	37.87	2.82E+00	0.3	3.39E+00	0.3
155	38.12	2.77E+00	0.3	3.31E+00	0.3
156	38.36	2.62E+00	0.3	3.25E+00	0.3
157	38.61	2.81E+00	0.3	3.24E+00	0.3
158	38.85	2.83E+00	0.3	3.25E+00	0.3
159	39.10	2.89E+00	0.3	3.33E+00	0.3
160	39.35	2.86E+00	0.3	3.31E+00	0.3
161	39.59	3.06E+00	0.3	3.41E+00	0.3
162	39.84	3.21E+00	0.3	3.28E+00	0.3
163	40.08	2.92E+00	0.3	3.38E+00	0.3
164	40.33	2.92E+00	0.3	3.05E+00	0.3
165	40.58	2.93E+00	0.3	3.10E+00	0.3
166	40.82	3.07E+00	0.3	3.04E+00	0.3
167	41.07	2.95E+00	0.3	3.10E+00	0.3
168	41.31	2.81E+00	0.3	3.27E+00	0.3
169	41.56	2.83E+00	0.3	3.34E+00	0.3
170	41.81	2.84E+00	0.3	3.33E+00	0.3
171	42.05	3.12E+00	0.3	3.51E+00	0.3
172	42.30	3.14E+00	0.3	3.64E+00	0.3
173	42.54	3.50E+00	0.3	3.89E+00	0.3
174	42.79	3.62E+00	0.3	4.32E+00	0.3
175	43.03	3.64E+00	0.3	4.55E+00	0.2
176	43.28	3.46E+00	0.3	4.37E+00	0.3
177	43.53	3.55E+00	0.3	4.24E+00	0.3
178	43.77	3.71E+00	0.3	3.89E+00	0.3
179	44.02	3.33E+00	0.3	3.72E+00	0.3
180	44.26	3.09E+00	0.3	3.64E+00	0.3
181	44.51	2.73E+00	0.3	3.62E+00	0.3
182	44.76	2.77E+00	0.3	3.40E+00	0.3
183	45.00	2.71E+00	0.3	3.55E+00	0.3
184	45.25	2.56E+00	0.3	3.37E+00	0.3

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
185	45.49	2.48E+00	0.3	3.49E+00	0.3
186	45.74	2.51E+00	0.3	3.70E+00	0.3
187	45.99	2.46E+00	0.3	3.46E+00	0.3
188	46.23	2.04E+00	0.3	3.15E+00	0.3
189	46.48	2.00E+00	0.3	2.94E+00	0.3
190	46.72	1.97E+00	0.3	2.98E+00	0.3
191	46.97	1.85E+00	0.3	2.73E+00	0.3
192	47.21	1.78E+00	0.3	2.64E+00	0.3
193	47.46	1.70E+00	0.3	2.56E+00	0.3
194	47.71	1.73E+00	0.3	2.53E+00	0.3
195	47.95	1.79E+00	0.3	2.54E+00	0.3
196	48.20	1.83E+00	0.3	2.48E+00	0.3
197	48.44	1.84E+00	0.3	2.58E+00	0.3
198	48.69	2.02E+00	0.3	2.88E+00	0.3
199	48.94	2.24E+00	0.3	2.93E+00	0.3
200	49.18	2.31E+00	0.3	2.72E+00	0.3
201	49.43	2.37E+00	0.3	2.50E+00	0.3
202	49.67	2.25E+00	0.3	2.51E+00	0.3
203	49.92	2.08E+00	0.3	2.38E+00	0.3
204	50.17	1.96E+00	0.3	2.18E+00	0.3
205	50.41	1.93E+00	0.3	2.09E+00	0.3
206	50.66	1.77E+00	0.3	2.07E+00	0.3
207	50.90	1.70E+00	0.3	1.91E+00	0.3
208	51.15	1.60E+00	0.3	1.89E+00	0.3
209	51.40	1.59E+00	0.3	1.99E+00	0.3
210	51.64	1.60E+00	0.3	1.98E+00	0.3
211	51.89	1.75E+00	0.3	1.88E+00	0.3
212	52.13	1.83E+00	0.3	1.85E+00	0.3
213	52.38	1.73E+00	0.3	1.98E+00	0.3
214	52.62	1.64E+00	0.3	1.96E+00	0.3
215	52.87	1.64E+00	0.3	1.96E+00	0.3
216	53.12	1.57E+00	0.3	1.85E+00	0.3
217	53.36	1.60E+00	0.3	1.79E+00	0.3
218	53.61	1.63E+00	0.3	1.86E+00	0.3
219	53.85	1.65E+00	0.3	1.89E+00	0.3
220	54.10	1.69E+00	0.3	1.93E+00	0.3
221	54.35	1.72E+00	0.3	1.75E+00	0.3
222	54.59	1.65E+00	0.3	1.64E+00	0.3
223	54.84	1.68E+00	0.3	1.52E+00	0.3
224	55.08	1.68E+00	0.3	1.29E+00	0.4
225	55.33	1.48E+00	0.3	1.17E+00	0.4
226	55.58	1.35E+00	0.4	1.13E+00	0.4
227	55.82	1.19E+00	0.4	1.04E+00	0.4
228	56.07	1.05E+00	0.4	8.49E-01	0.4
229	56.31	1.02E+00	0.4	7.83E-01	0.5
230	56.56	9.22E-01	0.4	7.49E-01	0.5

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
231	56.81	9.19E-01	0.4	7.19E-01	0.5
232	57.05	8.94E-01	0.4	7.07E-01	0.5
233	57.30	7.87E-01	0.5	6.68E-01	0.5
234	57.54	7.50E-01	0.5	7.74E-01	0.5
235	57.79	7.60E-01	0.5	8.73E-01	0.4
236	58.03	8.41E-01	0.4	8.93E-01	0.4
237	58.28	8.72E-01	0.4	7.90E-01	0.5
238	58.53	8.20E-01	0.5	7.88E-01	0.5
239	58.77	8.11E-01	0.5	7.92E-01	0.5
240	59.02	8.24E-01	0.5	7.87E-01	0.5
241	59.26	8.29E-01	0.5	7.32E-01	0.5
242	59.51	7.38E-01	0.5	7.06E-01	0.5
243	59.76	7.63E-01	0.5	7.05E-01	0.5
244	60.00	6.93E-01	0.5	6.87E-01	0.5
245	60.31	1.04E-01	1.2	1.04E-01	1.2
246	60.56	5.13E-01	0.6	6.96E-01	0.5
247	60.80	4.69E-01	0.6	7.20E-01	0.5
248	61.05	4.32E-01	0.6	6.10E-01	0.5
249	61.29	3.96E-01	0.6	6.02E-01	0.5
250	61.54	3.99E-01	0.6	6.28E-01	0.5
251	61.79	4.62E-01	0.6	5.89E-01	0.5
252	62.03	4.16E-01	0.6	5.66E-01	0.5
253	62.28	4.04E-01	0.6	5.55E-01	0.5
254	62.52	3.54E-01	0.7	5.30E-01	0.5
255	62.77	3.60E-01	0.7	4.87E-01	0.6
256	63.02	4.14E-01	0.6	5.66E-01	0.5
257	63.26	4.90E-01	0.6	5.96E-01	0.5
258	63.51	5.12E-01	0.5	6.78E-01	0.5
259	63.75	5.10E-01	0.5	6.50E-01	0.5
260	64.00	4.12E-01	0.6	5.98E-01	0.5
261	64.24	3.59E-01	0.7	5.61E-01	0.5
262	64.49	3.14E-01	0.7	5.23E-01	0.5
263	64.74	2.81E-01	0.8	4.96E-01	0.6
264	64.98	2.87E-01	0.7	4.57E-01	0.6
265	65.23	2.88E-01	0.7	4.31E-01	0.6
266	65.47	2.74E-01	0.7	3.82E-01	0.6
267	65.72	2.65E-01	0.4	3.68E-01	0.6
268	65.97	2.50E-01	0.4	3.65E-01	0.6
269	66.21	2.35E-01	0.4	3.98E-01	0.6
270	66.46	2.39E-01	0.4	3.97E-01	0.3
271	66.70	2.19E-01	0.4	3.81E-01	0.3
272	66.95	2.15E-01	0.4	4.13E-01	0.3
273	67.20	1.96E-01	0.4	3.65E-01	0.3
274	67.44	1.82E-01	0.4	3.40E-01	0.3
275	67.69	1.79E-01	0.4	3.15E-01	0.3
276	67.93	1.66E-01	0.4	3.08E-01	0.3

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
277	68.18	1.80E-01	0.4	2.95E-01	0.3
278	68.42	1.82E-01	0.4	2.90E-01	0.3
279	68.67	1.82E-01	0.4	2.73E-01	0.3
280	68.92	1.89E-01	0.4	2.79E-01	0.3
281	69.16	2.35E-01	0.4	3.10E-01	0.3
282	69.41	2.45E-01	0.3	3.05E-01	0.3
283	69.65	2.93E-01	0.3	3.11E-01	0.3
284	69.90	3.50E-01	0.3	3.54E-01	0.3
285	70.15	3.30E-01	0.3	4.03E-01	0.3
286	70.39	2.63E-01	0.3	3.43E-01	0.3
287	70.64	2.11E-01	0.4	3.03E-01	0.3
288	70.88	2.03E-01	0.4	3.03E-01	0.3
289	71.13	1.82E-01	0.4	2.68E-01	0.3
290	71.38	1.60E-01	0.4	2.41E-01	0.3
291	71.62	1.58E-01	0.4	2.15E-01	0.3
292	71.87	1.71E-01	0.4	2.20E-01	0.3
293	72.11	1.61E-01	0.4	2.10E-01	0.3
294	72.36	1.57E-01	0.4	1.92E-01	0.4
295	72.61	1.51E-01	0.4	1.88E-01	0.4
296	72.85	1.57E-01	0.4	1.89E-01	0.4
297	73.10	1.67E-01	0.4	2.09E-01	0.3
298	73.34	1.20E-01	0.4	1.69E-01	0.4
299	73.59	1.06E-01	0.5	1.42E-01	0.4
300	73.83	9.09E-02	0.5	1.29E-01	0.4
301	74.08	7.70E-02	0.6	1.07E-01	0.5
302	74.33	6.52E-02	0.7	8.88E-02	0.5
303	74.57	5.08E-02	0.7	7.58E-02	0.5
304	74.82	6.09E-02	0.6	7.96E-02	0.5
305	75.06	6.88E-02	0.6	8.56E-02	0.5
306	75.31	8.42E-02	0.5	9.10E-02	0.5
307	75.56	9.55E-02	0.5	9.97E-02	0.5
308	75.80	1.01E-01	0.5	9.86E-02	0.5
309	76.05	1.18E-01	0.4	1.08E-01	0.4
310	76.29	1.37E-01	0.4	1.51E-01	0.4
311	76.54	1.27E-01	0.4	1.44E-01	0.4
312	76.79	1.16E-01	0.4	1.22E-01	0.4
313	77.03	1.06E-01	0.4	1.08E-01	0.4
314	77.28	8.56E-02	0.5	8.86E-02	0.5
315	77.52	7.29E-02	0.5	7.24E-02	0.5
316	77.77	7.54E-02	0.5	7.08E-02	0.5
317	78.01	7.77E-02	0.5	7.86E-02	0.5
318	78.26	7.42E-02	0.5	7.61E-02	0.5
319	78.51	7.01E-02	0.5	7.48E-02	0.5
320	78.75	6.55E-02	0.5	6.76E-02	0.5
321	79.00	5.63E-02	0.6	7.81E-02	0.3
322	79.24	8.38E-02	0.3	1.02E-01	0.3

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
323	79.49	7.70E-02	0.3	1.03E-01	0.3
324	79.74	6.32E-02	0.3	6.94E-02	0.3
325	79.98	5.44E-02	0.4	5.93E-02	0.3
326	80.23	4.25E-02	0.4	4.32E-02	0.4
327	80.47	3.04E-02	0.5	2.98E-02	0.5
328	80.72	2.99E-02	0.5	3.08E-02	0.4
329	80.97	2.37E-02	0.5	2.84E-02	0.5
330	81.21	1.73E-02	0.6	2.16E-02	0.5
331	81.46	1.32E-02	0.6	1.67E-02	0.6
332	81.70	1.11E-02	0.7	1.51E-02	0.6
333	81.95	9.27E-03	0.8	1.33E-02	0.6
334	82.20	9.88E-03	0.7	1.38E-02	0.6
335	82.44	1.05E-02	0.7	1.48E-02	0.6
336	82.69	5.70E-03	1.1	8.11E-03	0.9
337	82.93	4.42E-03	1.2	6.17E-03	1.0
338	83.18	3.93E-03	1.3	4.95E-03	1.1
339	83.42	3.32E-03	1.4	3.96E-03	1.3
340	83.67	3.29E-03	1.3	3.59E-03	1.3
341	83.92	3.75E-03	1.2	4.23E-03	1.2
342	84.16	3.51E-03	1.3	3.80E-03	0.7
343	84.41	3.27E-03	1.3	3.57E-03	0.7
344	84.65	3.37E-03	1.3	3.35E-03	0.8
345	84.90	2.92E-03	0.8	3.16E-03	0.8
346	85.15	3.11E-03	0.8	3.18E-03	0.7
347	85.39	3.58E-03	0.7	3.95E-03	0.6
348	85.64	3.20E-03	0.7	3.98E-03	0.6
349	85.88	2.30E-03	0.9	2.67E-03	0.8
350	86.13	1.99E-03	0.9	2.17E-03	0.9
351	86.38	1.81E-03	1.0	1.89E-03	0.9
352	86.62	1.59E-03	1.0	1.71E-03	1.0
353	86.87	1.54E-03	1.1	1.64E-03	1.0
354	87.11	1.46E-03	1.1	1.65E-03	1.0
355	87.36	1.31E-03	1.1	1.47E-03	1.0
356	87.60	1.17E-03	1.2	1.24E-03	1.1
357	87.85	1.09E-03	1.2	1.14E-03	1.2
358	88.10	9.56E-04	1.3	1.03E-03	1.2
359	88.34	1.14E-03	1.2	1.08E-03	1.2
360	88.59	1.50E-03	1.0	1.20E-03	1.2
361	88.83	1.31E-03	1.1	1.09E-03	1.2
362	89.08	8.73E-04	1.4	8.61E-04	1.4
363	89.33	7.77E-04	1.5	7.60E-04	1.5
364	89.57	7.82E-04	1.4	8.70E-04	1.4
365	89.82	6.25E-04	1.6	8.03E-04	1.4
366	90.06	5.92E-04	1.6	6.46E-04	1.6

Table A-10. Axial distribution of ^{134}Cs in the spine of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	1.35E-02	0.5	8.47E-03	0.7
2	0.37	1.83E-01	0.2	1.04E-01	0.2
3	0.61	2.39E-02	0.4	3.67E-02	0.3
4	0.86	3.57E-03	1.1	1.22E-02	0.6
5	1.11	3.50E-03	1.1	1.51E-02	0.5
6	1.35	3.97E-03	1.0	1.81E-02	0.5
7	1.60	3.54E-03	1.1	1.90E-02	0.5
8	1.84	3.60E-03	1.1	2.00E-02	0.4
9	2.09	3.73E-03	1.1	2.11E-02	0.4
10	2.34	4.16E-03	1.0	2.32E-02	0.4
11	2.58	5.67E-03	0.9	2.56E-02	0.4
12	2.83	7.80E-03	0.7	2.81E-02	0.4
13	3.07	1.08E-02	0.6	3.21E-02	0.4
14	3.32	1.14E-02	0.6	3.61E-02	0.4
15	3.57	1.18E-02	0.6	3.84E-02	0.4
16	3.81	1.40E-02	0.6	4.15E-02	0.3
17	4.06	1.71E-02	0.5	4.43E-02	0.3
18	4.30	2.14E-02	0.5	4.87E-02	0.3
19	4.55	2.58E-02	0.4	5.18E-02	0.3
20	4.80	3.07E-02	0.4	5.66E-02	0.3
21	5.04	3.68E-02	0.4	6.17E-02	0.3
22	5.29	4.55E-02	0.3	5.36E-02	0.5
23	5.53	5.46E-02	0.3	5.95E-02	0.5
24	5.78	4.90E-02	0.5	6.57E-02	0.4
25	6.02	6.19E-02	0.4	7.60E-02	0.4
26	6.27	7.83E-02	0.4	9.94E-02	0.4
27	6.52	8.93E-02	0.4	1.01E-01	0.4
28	6.76	9.89E-02	0.4	1.19E-01	0.4
29	7.01	1.14E-01	0.3	1.38E-01	0.3
30	7.25	1.27E-01	0.3	1.49E-01	0.3
31	7.50	1.42E-01	0.3	1.63E-01	0.3
32	7.75	1.49E-01	0.3	1.70E-01	0.3
33	7.99	1.66E-01	0.3	1.79E-01	0.3
34	8.24	1.78E-01	0.3	1.95E-01	0.3
35	8.48	1.94E-01	0.3	2.04E-01	0.3
36	8.73	2.19E-01	0.3	2.36E-01	0.3
37	8.98	2.58E-01	0.3	2.78E-01	0.3
38	9.22	3.35E-01	0.5	3.55E-01	0.5
39	9.47	3.89E-01	0.5	4.50E-01	0.5
40	9.71	4.26E-01	0.5	4.69E-01	0.4
41	9.96	4.52E-01	0.4	5.04E-01	0.4
42	10.20	4.90E-01	0.4	5.47E-01	0.4
43	10.45	5.19E-01	0.4	5.70E-01	0.4
44	10.70	5.52E-01	0.4	5.96E-01	0.4
45	10.94	5.73E-01	0.4	6.06E-01	0.4
46	11.19	6.22E-01	0.4	6.27E-01	0.4
47	11.43	6.80E-01	0.4	6.58E-01	0.4
48	11.68	7.49E-01	0.4	7.29E-01	0.4
49	11.93	8.10E-01	0.3	8.04E-01	0.4
50	12.17	9.01E-01	0.3	8.58E-01	0.3
51	12.42	9.71E-01	0.3	9.39E-01	0.3

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	9.49E-01	0.3	8.57E-01	0.3
53	12.91	9.77E-01	0.3	8.71E-01	0.3
54	13.16	9.37E-01	0.3	8.48E-01	0.4
55	13.40	9.13E-01	0.3	8.35E-01	0.4
56	13.65	9.43E-01	0.3	8.56E-01	0.3
57	13.89	1.01E+00	0.3	8.98E-01	0.3
58	14.14	9.70E-01	0.3	9.16E-01	0.3
59	14.39	9.91E-01	0.3	9.03E-01	0.3
60	14.63	1.00E+00	0.3	9.16E-01	0.3
61	14.88	1.03E+00	0.3	9.04E-01	0.3
62	15.12	1.04E+00	0.3	9.38E-01	0.3
63	15.37	1.05E+00	0.3	9.97E-01	0.3
64	15.61	9.95E-01	0.3	1.01E+00	0.3
65	15.86	9.69E-01	0.3	1.02E+00	0.3
66	16.11	9.52E-01	0.3	1.01E+00	0.3
67	16.35	9.24E-01	0.3	9.80E-01	0.3
68	16.60	8.92E-01	0.3	9.72E-01	0.3
69	16.84	8.77E-01	0.3	9.88E-01	0.3
70	17.09	8.88E-01	0.3	9.93E-01	0.3
71	17.34	8.71E-01	0.3	9.78E-01	0.3
72	17.58	8.99E-01	0.3	1.01E+00	0.3
73	17.83	9.19E-01	0.3	1.02E+00	0.3
74	18.07	9.26E-01	0.3	1.04E+00	0.3
75	18.32	9.46E-01	0.3	1.07E+00	0.3
76	18.57	9.63E-01	0.3	1.11E+00	0.3
77	18.81	9.03E-01	0.3	1.08E+00	0.3
78	19.06	9.16E-01	0.3	1.06E+00	0.3
79	19.30	9.08E-01	0.3	1.04E+00	0.3
80	19.55	9.09E-01	0.3	1.02E+00	0.3
81	19.79	9.26E-01	0.3	1.03E+00	0.3
82	20.04	9.42E-01	0.3	1.05E+00	0.3
83	20.29	9.62E-01	0.3	1.09E+00	0.3
84	20.53	9.88E-01	0.3	1.12E+00	0.3
85	20.78	1.04E+00	0.3	1.16E+00	0.3
86	21.02	1.10E+00	0.3	1.19E+00	0.3
87	21.27	1.16E+00	0.3	1.21E+00	0.3
88	21.52	1.22E+00	0.3	1.29E+00	0.3
89	21.76	1.22E+00	0.3	1.34E+00	0.3
90	22.01	1.27E+00	0.3	1.38E+00	0.3
91	22.25	1.33E+00	0.3	1.42E+00	0.3
92	22.50	1.36E+00	0.3	1.44E+00	0.3
93	22.75	1.37E+00	0.3	1.46E+00	0.3
94	22.99	1.41E+00	0.3	1.49E+00	0.3
95	23.24	1.43E+00	0.3	1.50E+00	0.3
96	23.48	1.42E+00	0.3	1.50E+00	0.3
97	23.73	1.40E+00	0.3	1.47E+00	0.3
98	23.98	1.37E+00	0.3	1.42E+00	0.3
99	24.22	1.35E+00	0.3	1.40E+00	0.3
100	24.47	1.29E+00	0.3	1.36E+00	0.3
101	24.71	1.27E+00	0.3	1.38E+00	0.3
102	24.96	1.28E+00	0.3	1.34E+00	0.3

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	1.31E+00	0.3	1.31E+00	0.3
104	25.45	1.31E+00	0.3	1.30E+00	0.3
105	25.70	1.29E+00	0.3	1.29E+00	0.3
106	25.94	1.26E+00	0.3	1.28E+00	0.3
107	26.19	1.26E+00	0.3	1.29E+00	0.3
108	26.43	1.27E+00	0.3	1.31E+00	0.3
109	26.68	1.25E+00	0.3	1.36E+00	0.3
110	26.93	1.24E+00	0.3	1.33E+00	0.3
111	27.17	1.22E+00	0.3	1.28E+00	0.3
112	27.42	1.20E+00	0.3	1.23E+00	0.3
113	27.66	1.16E+00	0.3	1.17E+00	0.3
114	27.91	1.13E+00	0.3	1.10E+00	0.3
115	28.16	1.10E+00	0.3	1.08E+00	0.3
116	28.40	1.08E+00	0.3	1.05E+00	0.3
117	28.65	1.08E+00	0.3	1.04E+00	0.3
118	28.89	1.11E+00	0.3	1.03E+00	0.3
119	29.14	1.11E+00	0.3	1.01E+00	0.3
120	29.39	9.97E-01	0.3	1.21E+00	0.3
121	29.63	1.39E+00	0.3	1.55E+00	0.3
122	29.88	7.43E-01	0.4	8.33E-01	0.4
123	30.12	7.22E-01	0.4	7.45E-01	0.4
124	30.37	8.17E-01	0.4	8.54E-01	0.4
125	30.61	8.86E-01	0.3	9.30E-01	0.3
126	30.86	8.96E-01	0.3	9.29E-01	0.3
127	31.11	8.95E-01	0.4	9.30E-01	0.3
128	31.35	9.25E-01	0.3	9.29E-01	0.3
129	31.60	9.01E-01	0.3	9.08E-01	0.3
130	31.84	9.05E-01	0.3	9.25E-01	0.3
131	32.09	9.11E-01	0.3	9.32E-01	0.3
132	32.34	9.17E-01	0.3	9.31E-01	0.3
133	32.58	9.48E-01	0.3	9.45E-01	0.3
134	32.83	9.58E-01	0.3	9.84E-01	0.3
135	33.07	9.52E-01	0.3	1.01E+00	0.3
136	33.32	9.16E-01	0.3	9.89E-01	0.3
137	33.57	9.12E-01	0.3	9.87E-01	0.3
138	33.81	9.12E-01	0.3	9.72E-01	0.3
139	34.06	9.22E-01	0.3	9.56E-01	0.3
140	34.30	9.24E-01	0.3	9.47E-01	0.3
141	34.55	8.87E-01	0.3	9.43E-01	0.3
142	34.79	8.93E-01	0.3	9.30E-01	0.3
143	35.04	8.58E-01	0.3	9.06E-01	0.3
144	35.29	8.70E-01	0.3	8.79E-01	0.3
145	35.53	8.67E-01	0.3	8.55E-01	0.4
146	35.78	8.47E-01	0.4	8.51E-01	0.4
147	36.02	8.58E-01	0.3	8.60E-01	0.3
148	36.27	9.01E-01	0.3	9.09E-01	0.3
149	36.52	8.87E-01	0.3	8.98E-01	0.3
150	36.76	8.60E-01	0.3	8.66E-01	0.3
151	37.01	8.41E-01	0.4	8.40E-01	0.4
152	37.25	8.40E-01	0.4	8.40E-01	0.4
153	37.50	8.28E-01	0.4	8.13E-01	0.4

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	8.16E-01	0.4	7.99E-01	0.4
155	37.99	8.09E-01	0.4	8.03E-01	0.4
156	38.24	7.91E-01	0.4	8.12E-01	0.4
157	38.48	7.93E-01	0.4	8.23E-01	0.4
158	38.73	7.89E-01	0.4	8.32E-01	0.4
159	38.98	8.07E-01	0.4	8.33E-01	0.4
160	39.22	8.40E-01	0.4	8.32E-01	0.4
161	39.47	8.56E-01	0.3	8.45E-01	0.3
162	39.71	8.48E-01	0.3	8.22E-01	0.4
163	39.96	8.49E-01	0.3	8.11E-01	0.4
164	40.20	8.39E-01	0.3	8.11E-01	0.4
165	40.45	8.34E-01	0.4	8.08E-01	0.4
166	40.70	8.10E-01	0.4	7.96E-01	0.4
167	40.94	7.98E-01	0.4	7.93E-01	0.4
168	41.19	7.98E-01	0.4	7.87E-01	0.4
169	41.43	7.81E-01	0.4	7.86E-01	0.4
170	41.68	7.85E-01	0.4	7.71E-01	0.4
171	41.93	7.67E-01	0.4	7.67E-01	0.4
172	42.17	7.79E-01	0.4	7.83E-01	0.4
173	42.42	8.16E-01	0.4	8.00E-01	0.4
174	42.66	8.42E-01	0.3	8.29E-01	0.4
175	42.91	8.33E-01	0.4	8.26E-01	0.3
176	43.16	8.03E-01	0.4	8.15E-01	0.4
177	43.40	7.71E-01	0.4	7.99E-01	0.4
178	43.65	7.44E-01	0.4	7.63E-01	0.4
179	43.89	7.25E-01	0.4	7.55E-01	0.4
180	44.14	7.07E-01	0.4	7.37E-01	0.4
181	44.39	6.89E-01	0.4	7.15E-01	0.4
182	44.63	6.73E-01	0.4	7.00E-01	0.4
183	44.88	6.61E-01	0.4	6.83E-01	0.4
184	45.12	6.59E-01	0.4	6.80E-01	0.4
185	45.37	6.94E-01	0.4	7.07E-01	0.4
186	45.61	7.05E-01	0.4	7.20E-01	0.4
187	45.86	7.03E-01	0.4	7.13E-01	0.4
188	46.11	6.81E-01	0.4	6.83E-01	0.4
189	46.35	6.41E-01	0.4	6.58E-01	0.4
190	46.60	6.28E-01	0.4	6.36E-01	0.4
191	46.84	6.09E-01	0.4	6.17E-01	0.4
192	47.09	5.83E-01	0.4	5.97E-01	0.4
193	47.34	5.87E-01	0.4	6.13E-01	0.4
194	47.58	5.96E-01	0.4	6.20E-01	0.4
195	47.83	6.13E-01	0.4	6.33E-01	0.4
196	48.07	6.15E-01	0.4	6.53E-01	0.4
197	48.32	6.36E-01	0.4	6.62E-01	0.4
198	48.57	6.67E-01	0.4	6.80E-01	0.4
199	48.81	6.72E-01	0.4	6.80E-01	0.4
200	49.06	6.75E-01	0.4	6.83E-01	0.4
201	49.30	6.47E-01	0.4	6.51E-01	0.4
202	49.55	6.17E-01	0.4	6.28E-01	0.4
203	49.79	5.89E-01	0.4	6.06E-01	0.4
204	50.04	5.64E-01	0.4	5.86E-01	0.4

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	5.44E-01	0.4	5.64E-01	0.4
206	50.53	5.33E-01	0.4	5.49E-01	0.4
207	50.78	5.20E-01	0.4	5.27E-01	0.4
208	51.02	5.08E-01	0.4	5.11E-01	0.4
209	51.27	4.99E-01	0.4	5.08E-01	0.4
210	51.52	4.91E-01	0.4	4.98E-01	0.4
211	51.76	4.98E-01	0.4	4.98E-01	0.4
212	52.01	4.89E-01	0.4	4.88E-01	0.4
213	52.25	4.72E-01	0.4	4.65E-01	0.4
214	52.50	4.52E-01	0.5	4.42E-01	0.5
215	52.75	4.27E-01	0.5	4.20E-01	0.5
216	52.99	4.24E-01	0.5	4.13E-01	0.5
217	53.24	4.21E-01	0.5	4.12E-01	0.5
218	53.48	4.16E-01	0.5	4.06E-01	0.5
219	53.73	4.15E-01	0.5	4.04E-01	0.5
220	53.98	4.03E-01	0.5	3.98E-01	0.5
221	54.22	3.94E-01	0.5	3.85E-01	0.5
222	54.47	3.72E-01	0.5	3.75E-01	0.5
223	54.71	3.64E-01	0.5	3.60E-01	0.5
224	54.96	3.50E-01	0.5	3.52E-01	0.5
225	55.20	3.45E-01	0.5	3.42E-01	0.5
226	55.45	3.37E-01	0.5	3.25E-01	0.5
227	55.70	3.30E-01	0.5	3.19E-01	0.5
228	55.94	3.39E-01	0.5	3.18E-01	0.5
229	56.19	3.50E-01	0.5	3.25E-01	0.5
230	56.43	3.42E-01	0.5	3.18E-01	0.5
231	56.68	3.19E-01	0.5	2.98E-01	0.5
232	56.93	2.99E-01	0.5	2.80E-01	0.6
233	57.17	2.89E-01	0.6	2.74E-01	0.6
234	57.42	2.77E-01	0.6	2.64E-01	0.6
235	57.66	2.68E-01	0.6	2.57E-01	0.6
236	57.91	2.64E-01	0.6	2.58E-01	0.6
237	58.16	5.19E-01	0.4	4.57E-01	0.4
238	58.40	4.90E-01	0.4	4.65E-01	0.4
239	58.65	4.04E-01	0.5	3.05E-01	0.5
240	58.89	3.58E-01	0.5	3.65E-01	0.5
241	59.14	3.38E-01	0.5	3.31E-01	0.5
242	59.39	3.20E-01	0.5	3.09E-01	0.5
243	59.63	3.06E-01	0.5	2.94E-01	0.5
244	59.88	2.88E-01	0.6	2.75E-01	0.6
245	60.12	2.92E-01	0.3	2.63E-01	0.6
246	60.37	2.76E-01	0.3	2.72E-01	0.3
247	60.61	2.67E-01	0.3	2.52E-01	0.3
248	60.86	2.50E-01	0.3	2.33E-01	0.3
249	61.11	2.34E-01	0.3	2.13E-01	0.3
250	61.35	2.26E-01	0.3	2.09E-01	0.3
251	61.60	2.19E-01	0.3	2.00E-01	0.3
252	61.84	2.17E-01	0.3	1.92E-01	0.3
253	62.09	2.10E-01	0.3	1.85E-01	0.3
254	62.34	2.04E-01	0.3	1.80E-01	0.3
255	62.58	2.00E-01	0.3	1.78E-01	0.3

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	1.97E-01	0.3	1.76E-01	0.3
257	63.07	1.91E-01	0.3	1.71E-01	0.3
258	63.32	1.81E-01	0.3	1.68E-01	0.3
259	63.57	1.65E-01	0.3	1.54E-01	0.3
260	63.81	1.53E-01	0.3	1.42E-01	0.3
261	64.06	1.40E-01	0.3	1.28E-01	0.3
262	64.30	1.29E-01	0.3	1.15E-01	0.4
263	64.55	1.16E-01	0.4	9.87E-02	0.4
264	64.79	1.10E-01	0.4	8.67E-02	0.4
265	65.04	1.02E-01	0.4	7.91E-02	0.4
266	65.29	9.81E-02	0.4	7.86E-02	0.4
267	65.53	9.35E-02	0.4	7.68E-02	0.4
268	65.78	8.64E-02	0.4	7.21E-02	0.4
269	66.02	7.75E-02	0.4	6.89E-02	0.4
270	66.27	7.02E-02	0.4	6.93E-02	0.4
271	66.52	6.55E-02	0.4	6.60E-02	0.4
272	66.76	6.27E-02	0.5	5.78E-02	0.5
273	67.01	5.68E-02	0.5	5.13E-02	0.5
274	67.25	5.34E-02	0.5	4.51E-02	0.5
275	67.50	5.56E-02	0.5	4.30E-02	0.5
276	67.75	6.20E-02	0.4	4.92E-02	0.5
277	67.99	6.95E-02	0.4	5.57E-02	0.5
278	68.24	7.28E-02	0.4	5.94E-02	0.5
279	68.48	7.35E-02	0.4	6.05E-02	0.5
280	68.73	7.13E-02	0.4	5.91E-02	0.5
281	68.98	7.05E-02	0.4	6.08E-02	0.5
282	69.22	7.46E-02	0.4	6.53E-02	0.4
283	69.47	8.21E-02	0.4	6.75E-02	0.4
284	69.71	8.48E-02	0.4	7.02E-02	0.4
285	69.96	8.07E-02	0.4	6.82E-02	0.4
286	70.20	7.48E-02	0.4	6.49E-02	0.4
287	70.45	7.79E-02	0.4	6.24E-02	0.4
288	70.70	7.92E-02	0.4	6.08E-02	0.5
289	70.94	6.92E-02	0.4	5.50E-02	0.5
290	71.19	5.63E-02	0.5	4.67E-02	0.5
291	71.43	1.39E-02	0.5	5.15E-02	0.3
292	71.68	5.62E-02	0.3	4.70E-02	0.3
293	71.93	4.76E-02	0.3	4.21E-02	0.3
294	72.17	4.31E-02	0.3	3.65E-02	0.4
295	72.42	4.17E-02	0.3	3.45E-02	0.4
296	72.66	4.05E-02	0.3	3.39E-02	0.4
297	72.91	3.62E-02	0.4	3.12E-02	0.4
298	73.16	3.80E-02	0.4	3.18E-02	0.4
299	73.40	4.41E-02	0.3	3.66E-02	0.4
300	73.65	5.17E-02	0.3	4.51E-02	0.3
301	73.89	4.30E-02	0.3	3.78E-02	0.4
302	74.14	3.27E-02	0.4	2.88E-02	0.4
303	74.38	2.84E-02	0.4	2.45E-02	0.4
304	74.63	2.66E-02	0.4	2.28E-02	0.4
305	74.88	2.53E-02	0.4	2.08E-02	0.5
306	75.12	2.47E-02	0.4	1.92E-02	0.5

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	2.57E-02	0.4	1.99E-02	0.5
308	75.61	2.72E-02	0.4	2.20E-02	0.4
309	75.86	2.48E-02	0.4	2.14E-02	0.4
310	76.11	2.07E-02	0.4	1.78E-02	0.5
311	76.35	1.69E-02	0.5	1.42E-02	0.5
312	76.60	1.42E-02	0.5	1.17E-02	0.6
313	76.84	1.06E-02	0.6	8.95E-03	0.7
314	77.09	7.46E-03	0.7	6.45E-03	0.8
315	77.34	4.95E-03	0.9	4.14E-03	1.0
316	77.58	9.26E-04	1.2	2.37E-03	0.9
317	77.83	2.08E-03	1.0	1.68E-03	1.1
318	78.07	1.70E-03	1.1	1.40E-03	1.3
319	78.32	1.49E-03	1.3	1.27E-03	1.4
320	78.57	1.25E-03	1.4	1.09E-03	1.6
321	78.81	1.18E-03	1.4	1.01E-03	1.7
322	79.06	1.10E-03	1.5	8.98E-04	1.8
323	79.30	1.15E-03	1.4	9.09E-04	1.7
324	79.55	1.13E-03	1.4	8.69E-04	1.7
325	79.79	1.05E-03	1.4	8.44E-04	1.6
326	80.04	9.74E-04	1.4	7.06E-04	1.7
327	80.29	8.36E-04	1.5	6.45E-04	1.8
328	80.53	6.73E-04	1.6	5.49E-04	1.8
329	80.78	5.66E-04	1.8	4.48E-04	2.1
330	81.02	5.29E-04	1.8	4.20E-04	2.2
331	81.27	4.82E-04	2.0	4.42E-04	2.2
332	81.52	4.88E-04	2.0	4.31E-04	2.3
333	81.76	5.75E-04	1.8	5.14E-04	1.9
334	82.01	7.21E-04	1.6	7.05E-04	1.6
335	82.25	1.15E-03	1.2	1.13E-03	1.2
336	82.50	1.31E-03	1.1	1.37E-03	1.0
337	82.75	8.17E-04	1.4	7.80E-04	1.5
338	82.99	5.38E-04	1.8	5.05E-04	1.9
339	83.24	4.19E-04	2.1	4.09E-04	2.1
340	83.48	3.64E-04	2.1	3.70E-04	2.2
341	83.73	3.69E-04	2.0	3.68E-04	2.1
342	83.97	3.78E-04	1.9	4.35E-04	1.8
343	84.22	3.85E-04	1.8	4.55E-04	1.8
344	84.47	3.45E-04	2.0	4.21E-04	1.8
345	84.71	4.07E-04	1.7	3.91E-04	1.9
346	84.96	3.38E-04	2.0	3.09E-04	2.1
347	85.20	2.51E-04	2.4	2.48E-04	2.6
348	85.45	2.27E-04	2.5	2.22E-04	2.8
349	85.70	2.13E-04	2.6	2.02E-04	2.8
350	85.94	1.93E-04	2.7	2.03E-04	2.7
351	86.19	1.87E-04	2.7	2.02E-04	2.9
352	86.43	1.77E-04	2.8	2.11E-04	2.6
353	86.68	1.66E-04	2.9	1.74E-04	2.9
354	86.93	1.53E-04	3.0	1.51E-04	3.3
355	87.17	1.26E-04	3.9	1.37E-04	3.3
356	87.42	1.21E-04	3.3	1.14E-04	3.6

Table A-11. Axial distribution of ^{137}Cs in the sleeve of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.19	1.34E-04	2.9	1.36E-03	0.8
2	0.43	7.70E-03	0.3	2.14E-02	0.3
3	0.68	3.33E-02	0.2	9.43E-03	0.4
4	0.92	1.68E-02	0.3	5.92E-04	1.4
5	1.17	1.06E-03	1.0	4.72E-04	1.7
6	1.41	1.15E-03	0.9	3.69E-04	1.3
7	1.66	7.55E-04	1.2	2.19E-04	2.5
8	1.91	4.35E-04	1.6	2.37E-04	2.4
9	2.15	3.89E-04	1.8	1.93E-04	2.8
10	2.40	4.63E-04	1.6	2.08E-04	2.7
11	2.64	5.91E-04	1.4	3.19E-04	2.1
12	2.89	7.52E-04	1.2	8.13E-04	1.2
13	3.14	1.50E-03	0.9	1.84E-03	0.8
14	3.38	3.12E-03	0.6	2.24E-03	0.7
15	3.63	4.01E-03	0.5	2.11E-03	0.8
16	3.87	3.97E-03	0.5	2.08E-03	0.8
17	4.12	4.55E-03	0.9	2.36E-03	0.8
18	4.37	5.46E-03	0.8	2.67E-03	0.7
19	4.61	6.37E-03	0.8	3.11E-03	1.2
20	4.86	7.01E-03	0.7	3.62E-03	1.1
21	5.10	7.70E-03	0.7	4.93E-03	0.9
22	5.35	9.44E-03	0.6	7.18E-03	0.8
23	5.60	1.19E-02	0.6	1.05E-02	0.6
24	5.84	1.53E-02	0.5	1.56E-02	0.5
25	6.09	1.21E-02	1.0	1.62E-02	0.8
26	6.33	2.09E-02	0.7	1.60E-02	0.3
27	6.58	4.01E-02	0.5	1.60E-02	0.8
28	6.82	3.69E-02	0.5	1.59E-02	0.8
29	7.07	2.72E-02	0.6	1.62E-02	0.8
30	7.32	2.76E-02	0.6	1.66E-02	0.8
31	7.56	2.89E-02	0.6	1.62E-02	0.8
32	7.81	2.65E-02	0.7	1.61E-02	0.8
33	8.05	2.55E-02	0.7	1.63E-02	0.8
34	8.30	2.47E-02	0.7	1.66E-02	0.8
35	8.55	2.43E-02	0.7	2.97E-02	0.6
36	8.79	2.64E-02	0.7	2.55E-02	0.7
37	9.04	3.68E-02	0.6	1.65E-02	0.8
38	9.28	4.82E-02	0.5	1.42E-02	0.9
39	9.53	6.91E-02	0.4	1.54E-02	0.9
40	9.78	1.16E-01	0.4	1.48E-02	0.9
41	10.02	1.48E-01	0.3	1.72E-02	0.8
42	10.27	1.55E-01	0.3	1.94E-02	0.8
43	10.51	1.82E-01	0.7	2.25E-02	0.7
44	10.76	2.01E-01	0.6	2.72E-02	0.7
45	11.01	2.24E-01	0.6	4.36E-02	0.6
46	11.25	2.49E-01	0.6	7.13E-02	0.4

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
47	11.50	2.90E-01	0.5	1.07E-01	0.4
48	11.74	3.37E-01	0.5	1.79E-01	0.7
49	11.99	3.90E-01	0.5	1.95E-01	0.6
50	12.23	4.51E-01	0.4	2.01E-01	0.6
51	12.48	5.73E-01	0.4	3.63E-03	****
52	12.73	5.38E-01	0.4	2.62E-01	0.6
53	12.97	3.63E-01	0.5	2.90E-01	0.5
54	13.22	3.70E-01	0.5	3.08E-01	0.5
55	13.46	3.99E-01	0.5	3.19E-01	0.5
56	13.71	4.44E-01	0.4	3.38E-01	0.5
57	13.96	4.60E-01	0.4	3.81E-01	0.5
58	14.20	4.60E-01	0.4	4.13E-01	0.5
59	14.45	4.84E-01	0.4	5.04E-01	0.4
60	14.69	5.14E-01	0.4	5.65E-01	0.4
61	14.94	5.08E-01	0.4	4.41E-01	0.5
62	15.19	5.12E-01	0.4	4.52E-01	0.5
63	15.43	5.53E-01	0.4	4.95E-01	0.4
64	15.68	6.80E-01	0.4	5.58E-01	0.4
65	15.92	5.88E-01	0.4	5.93E-01	0.4
66	16.17	4.05E-01	0.5	5.89E-01	0.4
67	16.41	4.68E-01	0.4	6.17E-01	0.4
68	16.66	5.26E-01	0.4	6.24E-01	0.4
69	16.91	5.96E-01	0.4	6.40E-01	0.4
70	17.15	6.86E-01	0.4	6.68E-01	0.4
71	17.40	7.55E-01	0.4	7.28E-01	0.4
72	17.64	7.60E-01	0.4	8.33E-01	0.4
73	17.89	7.96E-01	0.4	7.98E-01	0.4
74	18.14	8.21E-01	0.3	7.39E-01	0.4
75	18.38	7.85E-01	0.4	7.04E-01	0.4
76	18.63	8.55E-01	0.3	7.32E-01	0.4
77	18.87	1.07E+00	0.3	7.72E-01	0.4
78	19.12	9.58E-01	0.3	8.53E-01	0.4
79	19.37	8.75E-01	0.3	9.13E-01	0.3
80	19.61	8.63E-01	0.3	9.04E-01	0.4
81	19.86	8.55E-01	0.3	9.79E-01	0.3
82	20.10	9.11E-01	0.3	9.69E-01	0.3
83	20.35	9.18E-01	0.3	9.75E-01	0.3
84	20.60	9.36E-01	0.3	1.02E+00	0.3
85	20.84	9.18E-01	0.3	1.09E+00	0.3
86	21.09	9.53E-01	0.3	1.08E+00	0.3
87	21.33	9.58E-01	0.3	1.05E+00	0.3
88	21.58	9.20E-01	0.3	1.02E+00	0.3
89	21.82	1.10E+00	0.3	9.96E-01	0.3
90	22.07	1.06E+00	0.3	1.03E+00	0.3
91	22.32	7.43E-01	0.4	1.02E+00	0.3
92	22.56	6.52E-01	0.4	1.06E+00	0.3

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
93	22.81	6.78E-01	0.4	1.04E+00	0.3
94	23.05	8.32E-01	0.3	1.04E+00	0.3
95	23.30	9.47E-01	0.3	1.10E+00	0.3
96	23.55	9.73E-01	0.3	1.09E+00	0.3
97	23.79	1.00E+00	0.3	1.18E+00	0.3
98	24.04	9.82E-01	0.3	1.27E+00	0.3
99	24.28	1.11E+00	0.3	1.17E+00	0.3
100	24.53	1.36E+00	0.3	1.11E+00	0.3
101	24.78	1.72E+00	0.3	1.15E+00	0.3
102	25.02	1.86E+00	0.3	1.18E+00	0.3
103	25.27	1.49E+00	0.3	1.32E+00	0.3
104	25.51	1.37E+00	0.3	1.28E+00	0.3
105	25.76	1.36E+00	0.3	1.41E+00	0.3
106	26.00	1.37E+00	0.3	1.47E+00	0.3
107	26.25	1.34E+00	0.3	1.58E+00	0.3
108	26.50	1.16E+00	0.3	1.71E+00	0.3
109	26.74	1.25E+00	0.3	1.74E+00	0.3
110	26.99	1.26E+00	0.3	1.83E+00	0.3
111	27.23	1.23E+00	0.3	1.50E+00	0.3
112	27.48	1.30E+00	0.3	1.47E+00	0.3
113	27.73	1.40E+00	0.3	1.38E+00	0.3
114	27.97	1.43E+00	0.3	1.41E+00	0.3
115	28.22	1.27E+00	0.3	1.35E+00	0.3
116	28.46	1.27E+00	0.3	1.34E+00	0.3
117	28.71	1.21E+00	0.3	1.23E+00	0.3
118	28.96	1.23E+00	0.3	1.27E+00	0.3
119	29.20	1.20E+00	0.3	1.32E+00	0.3
120	29.45	1.21E+00	0.3	1.34E+00	0.3
121	29.69	1.19E+00	0.3	1.33E+00	0.3
122	29.94	1.16E+00	0.3	1.29E+00	0.3
123	30.25	3.56E-03	9.0	7.36E-03	5.3
124	30.49	1.21E-01	0.9	1.73E+00	0.3
125	30.74	1.60E+00	0.3	1.86E+00	0.3
126	30.99	1.58E+00	0.3	1.79E+00	0.3
127	31.23	1.49E+00	0.3	1.80E+00	0.3
128	31.48	1.49E+00	0.3	1.77E+00	0.3
129	31.72	1.46E+00	0.3	1.87E+00	0.3
130	31.97	1.47E+00	0.3	1.88E+00	0.3
131	32.21	1.59E+00	0.3	1.96E+00	0.3
132	32.46	1.56E+00	0.3	1.96E+00	0.3
133	32.71	1.56E+00	0.3	1.93E+00	0.3
134	32.95	1.62E+00	0.3	1.99E+00	0.3
135	33.20	1.66E+00	0.3	2.11E+00	0.3
136	33.44	1.79E+00	0.3	2.40E+00	0.3
137	33.69	2.01E+00	0.3	2.06E+00	0.3
138	33.94	1.59E+00	0.3	1.88E+00	0.3

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
139	34.18	1.42E+00	0.3	1.96E+00	0.3
140	34.43	1.42E+00	0.3	1.83E+00	0.3
141	34.67	1.55E+00	0.3	1.75E+00	0.3
142	34.92	1.62E+00	0.3	1.74E+00	0.3
143	35.17	1.65E+00	0.3	1.84E+00	0.3
144	35.41	1.65E+00	0.3	1.86E+00	0.3
145	35.66	1.55E+00	0.3	1.91E+00	0.3
146	35.90	1.60E+00	0.3	2.07E+00	0.3
147	36.15	1.63E+00	0.3	2.09E+00	0.3
148	36.40	1.59E+00	0.3	2.15E+00	0.3
149	36.64	1.78E+00	0.3	2.11E+00	0.3
150	36.89	1.64E+00	0.3	1.99E+00	0.3
151	37.13	1.60E+00	0.3	1.99E+00	0.3
152	37.38	1.66E+00	0.3	1.85E+00	0.3
153	37.62	1.59E+00	0.3	1.79E+00	0.3
154	37.87	1.58E+00	0.3	1.86E+00	0.3
155	38.12	1.54E+00	0.3	1.82E+00	0.3
156	38.36	1.46E+00	0.3	1.79E+00	0.3
157	38.61	1.56E+00	0.3	1.79E+00	0.3
158	38.85	1.58E+00	0.3	1.78E+00	0.3
159	39.10	1.60E+00	0.3	1.83E+00	0.3
160	39.35	1.57E+00	0.3	1.80E+00	0.3
161	39.59	1.66E+00	0.3	1.87E+00	0.3
162	39.84	1.77E+00	0.3	1.80E+00	0.3
163	40.08	1.63E+00	0.3	1.85E+00	0.3
164	40.33	1.61E+00	0.3	1.70E+00	0.3
165	40.58	1.60E+00	0.3	1.69E+00	0.3
166	40.82	1.69E+00	0.3	1.68E+00	0.3
167	41.07	1.63E+00	0.3	1.71E+00	0.3
168	41.31	1.54E+00	0.3	1.81E+00	0.3
169	41.56	1.55E+00	0.3	1.84E+00	0.3
170	41.81	1.56E+00	0.3	1.85E+00	0.3
171	42.05	1.70E+00	0.3	1.96E+00	0.3
172	42.30	1.71E+00	0.3	2.02E+00	0.3
173	42.54	1.90E+00	0.3	2.14E+00	0.3
174	42.79	1.99E+00	0.3	2.37E+00	0.3
175	43.03	2.03E+00	0.3	2.53E+00	0.2
176	43.28	1.93E+00	0.3	2.42E+00	0.3
177	43.53	1.99E+00	0.3	2.31E+00	0.3
178	43.77	2.06E+00	0.3	2.15E+00	0.3
179	44.02	1.88E+00	0.3	2.04E+00	0.3
180	44.26	1.71E+00	0.3	2.01E+00	0.3
181	44.51	1.52E+00	0.3	2.00E+00	0.3
182	44.76	1.52E+00	0.3	1.87E+00	0.3
183	45.00	1.51E+00	0.3	1.97E+00	0.3
184	45.25	1.44E+00	0.3	1.87E+00	0.3

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
185	45.49	1.38E+00	0.3	1.91E+00	0.3
186	45.74	1.38E+00	0.3	2.07E+00	0.3
187	45.99	1.40E+00	0.3	1.92E+00	0.3
188	46.23	1.15E+00	0.3	1.73E+00	0.3
189	46.48	1.12E+00	0.3	1.61E+00	0.3
190	46.72	1.10E+00	0.3	1.64E+00	0.3
191	46.97	1.03E+00	0.3	1.51E+00	0.3
192	47.21	9.86E-01	0.3	1.45E+00	0.3
193	47.46	9.54E-01	0.3	1.41E+00	0.3
194	47.71	9.60E-01	0.3	1.39E+00	0.3
195	47.95	9.87E-01	0.3	1.40E+00	0.3
196	48.20	1.02E+00	0.3	1.36E+00	0.3
197	48.44	1.02E+00	0.3	1.41E+00	0.3
198	48.69	1.12E+00	0.3	1.57E+00	0.3
199	48.94	1.26E+00	0.3	1.62E+00	0.3
200	49.18	1.30E+00	0.3	1.48E+00	0.3
201	49.43	1.33E+00	0.3	1.39E+00	0.3
202	49.67	1.25E+00	0.3	1.38E+00	0.3
203	49.92	1.16E+00	0.3	1.32E+00	0.3
204	50.17	1.10E+00	0.3	1.19E+00	0.3
205	50.41	1.08E+00	0.3	1.15E+00	0.3
206	50.66	9.95E-01	0.3	1.13E+00	0.3
207	50.90	9.47E-01	0.3	1.05E+00	0.3
208	51.15	8.86E-01	0.3	1.03E+00	0.3
209	51.40	8.90E-01	0.3	1.09E+00	0.3
210	51.64	8.81E-01	0.3	1.08E+00	0.3
211	51.89	9.74E-01	0.3	1.02E+00	0.3
212	52.13	1.04E+00	0.3	1.01E+00	0.3
213	52.38	9.70E-01	0.3	1.07E+00	0.3
214	52.62	9.15E-01	0.3	1.08E+00	0.3
215	52.87	9.16E-01	0.3	1.08E+00	0.3
216	53.12	8.74E-01	0.3	1.02E+00	0.3
217	53.36	8.99E-01	0.3	9.94E-01	0.3
218	53.61	9.13E-01	0.3	1.02E+00	0.3
219	53.85	9.24E-01	0.3	1.04E+00	0.3
220	54.10	9.53E-01	0.3	1.05E+00	0.3
221	54.35	9.70E-01	0.3	9.69E-01	0.3
222	54.59	9.36E-01	0.3	9.07E-01	0.3
223	54.84	9.39E-01	0.3	8.44E-01	0.3
224	55.08	9.47E-01	0.3	7.25E-01	0.4
225	55.33	8.38E-01	0.3	6.58E-01	0.4
226	55.58	7.68E-01	0.4	6.31E-01	0.4
227	55.82	6.76E-01	0.4	5.80E-01	0.4
228	56.07	5.95E-01	0.4	4.69E-01	0.5
229	56.31	5.78E-01	0.4	4.33E-01	0.5
230	56.56	5.22E-01	0.4	4.11E-01	0.5

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
231	56.81	5.19E-01	0.4	4.02E-01	0.5
232	57.05	5.06E-01	0.4	3.87E-01	0.5
233	57.30	4.46E-01	0.5	3.69E-01	0.5
234	57.54	4.25E-01	0.5	4.22E-01	0.5
235	57.79	4.24E-01	0.5	4.75E-01	0.4
236	58.03	4.70E-01	0.4	4.92E-01	0.4
237	58.28	4.94E-01	0.4	4.35E-01	0.5
238	58.53	4.63E-01	0.5	4.37E-01	0.5
239	58.77	4.58E-01	0.5	4.38E-01	0.5
240	59.02	4.75E-01	0.5	4.36E-01	0.5
241	59.26	4.80E-01	0.4	4.07E-01	0.5
242	59.51	4.30E-01	0.5	3.90E-01	0.5
243	59.76	4.36E-01	0.5	3.87E-01	0.5
244	60.00	3.96E-01	0.5	3.91E-01	0.5
245	60.31	6.21E-02	1.2	6.12E-02	1.2
246	60.56	2.94E-01	0.6	3.99E-01	0.5
247	60.80	2.70E-01	0.6	4.06E-01	0.5
248	61.05	2.46E-01	0.6	3.49E-01	0.5
249	61.29	2.33E-01	0.6	3.44E-01	0.5
250	61.54	2.31E-01	0.6	3.58E-01	0.5
251	61.79	2.69E-01	0.6	3.38E-01	0.5
252	62.03	2.44E-01	0.6	3.24E-01	0.5
253	62.28	2.34E-01	0.6	3.19E-01	0.5
254	62.52	2.08E-01	0.7	3.05E-01	0.5
255	62.77	2.10E-01	0.7	2.79E-01	0.6
256	63.02	2.43E-01	0.6	3.24E-01	0.5
257	63.26	2.83E-01	0.6	3.49E-01	0.5
258	63.51	2.99E-01	0.5	3.94E-01	0.5
259	63.75	3.01E-01	0.5	3.78E-01	0.5
260	64.00	2.45E-01	0.6	3.54E-01	0.5
261	64.24	2.14E-01	0.7	3.20E-01	0.5
262	64.49	1.84E-01	0.7	2.99E-01	0.5
263	64.74	1.67E-01	0.7	2.89E-01	0.5
264	64.98	1.68E-01	0.7	2.68E-01	0.6
265	65.23	1.74E-01	0.7	2.55E-01	0.6
266	65.47	1.63E-01	0.7	2.26E-01	0.6
267	65.72	1.57E-01	0.4	2.19E-01	0.6
268	65.97	1.46E-01	0.4	2.13E-01	0.6
269	66.21	1.39E-01	0.4	2.34E-01	0.6
270	66.46	1.38E-01	0.4	2.33E-01	0.3
271	66.70	1.31E-01	0.4	2.23E-01	0.3
272	66.95	1.27E-01	0.4	2.44E-01	0.3
273	67.20	1.16E-01	0.4	2.17E-01	0.3
274	67.44	1.07E-01	0.4	2.03E-01	0.3
275	67.69	1.06E-01	0.4	1.90E-01	0.3
276	67.93	1.09E-01	0.4	1.84E-01	0.3

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
277	68.18	1.07E-01	0.4	1.76E-01	0.3
278	68.42	1.09E-01	0.4	1.75E-01	0.3
279	68.67	1.10E-01	0.4	1.65E-01	0.3
280	68.92	1.13E-01	0.4	1.71E-01	0.3
281	69.16	1.43E-01	0.3	1.90E-01	0.3
282	69.41	1.52E-01	0.3	1.88E-01	0.3
283	69.65	1.81E-01	0.3	1.89E-01	0.3
284	69.90	2.16E-01	0.3	2.17E-01	0.3
285	70.15	2.05E-01	0.3	2.52E-01	0.3
286	70.39	1.61E-01	0.3	2.16E-01	0.3
287	70.64	1.33E-01	0.4	1.89E-01	0.3
288	70.88	1.28E-01	0.4	1.89E-01	0.3
289	71.13	1.14E-01	0.4	1.63E-01	0.3
290	71.38	1.00E-01	0.4	1.51E-01	0.3
291	71.62	9.93E-02	0.4	1.37E-01	0.3
292	71.87	1.09E-01	0.4	1.41E-01	0.3
293	72.11	1.01E-01	0.4	1.34E-01	0.3
294	72.36	1.01E-01	0.4	1.23E-01	0.3
295	72.61	9.80E-02	0.4	1.22E-01	0.3
296	72.85	1.01E-01	0.4	1.21E-01	0.3
297	73.10	1.07E-01	0.3	1.36E-01	0.3
298	73.34	7.81E-02	0.4	1.09E-01	0.3
299	73.59	6.81E-02	0.4	9.17E-02	0.4
300	73.83	5.93E-02	0.5	8.43E-02	0.4
301	74.08	5.10E-02	0.6	7.05E-02	0.4
302	74.33	4.27E-02	0.6	5.86E-02	0.5
303	74.57	3.44E-02	0.7	4.99E-02	0.5
304	74.82	4.01E-02	0.6	5.31E-02	0.5
305	75.06	4.57E-02	0.6	5.81E-02	0.5
306	75.31	5.68E-02	0.5	6.11E-02	0.4
307	75.56	6.47E-02	0.4	6.71E-02	0.4
308	75.80	6.89E-02	0.4	6.65E-02	0.4
309	76.05	8.11E-02	0.4	7.32E-02	0.4
310	76.29	9.48E-02	0.3	1.02E-01	0.3
311	76.54	8.81E-02	0.4	9.86E-02	0.3
312	76.79	8.23E-02	0.4	8.51E-02	0.4
313	77.03	7.47E-02	0.4	7.60E-02	0.4
314	77.28	6.04E-02	0.4	6.28E-02	0.4
315	77.52	5.13E-02	0.5	5.65E-02	0.5
316	77.77	5.41E-02	0.4	5.00E-02	0.5
317	78.01	5.56E-02	0.4	5.59E-02	0.4
318	78.26	5.36E-02	0.4	5.51E-02	0.4
319	78.51	5.09E-02	0.5	5.45E-02	0.4
320	78.75	4.74E-02	0.5	4.89E-02	0.5
321	79.00	4.07E-02	0.5	5.74E-02	0.3
322	79.24	6.18E-02	0.3	7.53E-02	0.3

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
323	79.49	5.69E-02	0.3	7.67E-02	0.2
324	79.74	4.82E-02	0.3	5.27E-02	0.3
325	79.98	4.10E-02	0.3	4.50E-02	0.3
326	80.23	3.19E-02	0.3	3.30E-02	0.3
327	80.47	2.34E-02	0.4	2.29E-02	0.4
328	80.72	2.26E-02	0.4	2.38E-02	0.4
329	80.97	1.85E-02	0.4	2.22E-02	0.4
330	81.21	1.40E-02	0.5	1.75E-02	0.4
331	81.46	1.07E-02	0.5	1.37E-02	0.5
332	81.70	9.28E-03	0.6	1.26E-02	0.5
333	81.95	7.82E-03	0.6	1.02E-02	0.6
334	82.20	8.47E-03	0.6	1.21E-02	0.5
335	82.44	9.05E-03	0.6	1.31E-02	0.5
336	82.69	4.71E-03	0.7	6.37E-03	0.8
337	82.93	3.96E-03	1.0	5.17E-03	0.7
338	83.18	3.57E-03	1.0	4.16E-03	0.8
339	83.42	2.85E-03	0.9	3.29E-03	0.9
340	83.67	2.83E-03	0.9	3.11E-03	0.9
341	83.92	3.23E-03	0.9	3.81E-03	0.8
342	84.16	3.17E-03	0.9	3.41E-03	0.5
343	84.41	3.04E-03	0.9	3.23E-03	0.5
344	84.65	3.17E-03	0.9	3.07E-03	0.5
345	84.90	2.72E-03	0.5	2.93E-03	0.5
346	85.15	2.87E-03	0.5	3.02E-03	0.5
347	85.39	3.56E-03	0.5	3.92E-03	0.4
348	85.64	3.22E-03	0.5	4.04E-03	0.4
349	85.88	2.36E-03	0.6	2.62E-03	0.5
350	86.13	2.00E-03	0.6	2.14E-03	0.6
351	86.38	1.81E-03	0.6	1.88E-03	0.6
352	86.62	1.59E-03	0.7	1.73E-03	0.6
353	86.87	1.48E-03	0.7	1.63E-03	0.7
354	87.11	1.44E-03	0.7	1.64E-03	0.6
355	87.36	1.31E-03	0.7	1.49E-03	0.7
356	87.60	1.18E-03	0.8	1.27E-03	0.7
357	87.85	1.08E-03	0.8	1.14E-03	0.8
358	88.10	9.64E-04	0.8	1.07E-03	0.8
359	88.34	1.20E-03	0.7	1.15E-03	0.8
360	88.59	1.60E-03	0.6	1.29E-03	0.7
361	88.83	1.38E-03	0.7	1.17E-03	0.8
362	89.08	8.91E-04	0.9	9.18E-04	0.9
363	89.33	7.60E-04	0.9	8.67E-04	0.9
364	89.57	7.98E-04	0.9	9.76E-04	0.8
365	89.82	6.35E-04	1.0	8.84E-04	0.9
366	90.06	5.57E-04	1.1	7.02E-04	1.0

Table A-12. Axial distribution of ^{137}Cs in the spine of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	9.18E-03	0.5	5.45E-03	0.6
2	0.37	1.15E-01	0.2	6.71E-02	0.2
3	0.61	1.55E-02	0.4	2.36E-02	0.3
4	0.86	2.26E-03	0.9	7.72E-03	0.5
5	1.11	2.28E-03	0.9	9.58E-03	0.4
6	1.35	2.59E-03	0.8	1.15E-02	0.4
7	1.60	2.29E-03	0.9	1.18E-02	0.4
8	1.84	2.43E-03	0.8	1.24E-02	0.4
9	2.09	2.38E-03	0.8	1.32E-02	0.4
10	2.34	2.74E-03	0.8	1.46E-02	0.4
11	2.58	3.53E-03	0.7	1.60E-02	0.3
12	2.83	4.97E-03	0.6	1.74E-02	0.3
13	3.07	6.70E-03	0.5	2.10E-02	0.3
14	3.32	7.09E-03	0.5	2.36E-02	0.3
15	3.57	7.61E-03	0.5	2.49E-02	0.3
16	3.81	8.87E-03	0.5	2.67E-02	0.3
17	4.06	1.06E-02	0.4	2.88E-02	0.3
18	4.30	1.31E-02	0.4	3.15E-02	0.3
19	4.55	1.54E-02	0.4	3.33E-02	0.3
20	4.80	1.82E-02	0.3	3.64E-02	0.3
21	5.04	2.45E-02	0.3	3.95E-02	0.3
22	5.29	3.00E-02	0.3	3.06E-02	0.5
23	5.53	3.50E-02	0.3	3.34E-02	0.5
24	5.78	2.88E-02	0.5	4.09E-02	0.4
25	6.02	3.42E-02	0.5	4.67E-02	0.4
26	6.27	4.76E-02	0.4	6.11E-02	0.4
27	6.52	5.42E-02	0.4	6.27E-02	0.4
28	6.76	5.94E-02	0.4	7.26E-02	0.3
29	7.01	6.83E-02	0.3	8.45E-02	0.3
30	7.25	7.51E-02	0.3	9.06E-02	0.3
31	7.50	8.37E-02	0.3	9.76E-02	0.3
32	7.75	8.83E-02	0.3	1.02E-01	0.3
33	7.99	9.75E-02	0.3	1.07E-01	0.3
34	8.24	1.03E-01	0.3	1.16E-01	0.3
35	8.48	1.14E-01	0.3	1.21E-01	0.3
36	8.73	1.27E-01	0.3	1.39E-01	0.3
37	8.98	1.49E-01	0.3	1.62E-01	0.3
38	9.22	1.95E-01	0.5	2.13E-01	0.5
39	9.47	2.30E-01	0.5	2.66E-01	0.4
40	9.71	2.51E-01	0.5	2.79E-01	0.4
41	9.96	2.65E-01	0.4	2.96E-01	0.4
42	10.20	2.85E-01	0.4	3.18E-01	0.4
43	10.45	2.98E-01	0.4	3.37E-01	0.4
44	10.70	3.17E-01	0.4	3.54E-01	0.4
45	10.94	3.31E-01	0.4	3.51E-01	0.4
46	11.19	3.57E-01	0.4	3.63E-01	0.4
47	11.43	3.93E-01	0.4	3.87E-01	0.4
48	11.68	4.38E-01	0.4	4.29E-01	0.4
49	11.93	4.68E-01	0.3	4.65E-01	0.4
50	12.17	5.19E-01	0.3	4.97E-01	0.3
51	12.42	5.58E-01	0.3	5.47E-01	0.3

Table A-12 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	5.44E-01	0.3	4.92E-01	0.3
53	12.91	5.59E-01	0.3	5.00E-01	0.3
54	13.16	5.36E-01	0.3	4.87E-01	0.3
55	13.40	5.25E-01	0.3	4.75E-01	0.3
56	13.65	5.33E-01	0.3	4.85E-01	0.3
57	13.89	5.78E-01	0.3	5.13E-01	0.3
58	14.14	5.55E-01	0.3	5.17E-01	0.3
59	14.39	5.59E-01	0.3	5.13E-01	0.3
60	14.63	5.66E-01	0.3	5.18E-01	0.3
61	14.88	5.90E-01	0.3	5.15E-01	0.3
62	15.12	5.96E-01	0.3	5.33E-01	0.3
63	15.37	5.95E-01	0.3	5.67E-01	0.3
64	15.61	5.57E-01	0.3	5.68E-01	0.3
65	15.86	5.42E-01	0.3	5.77E-01	0.3
66	16.11	5.39E-01	0.3	5.64E-01	0.3
67	16.35	5.21E-01	0.3	5.54E-01	0.3
68	16.60	4.99E-01	0.3	5.47E-01	0.3
69	16.84	4.89E-01	0.3	5.52E-01	0.3
70	17.09	4.91E-01	0.3	5.52E-01	0.3
71	17.34	4.87E-01	0.3	5.48E-01	0.3
72	17.58	5.05E-01	0.3	5.68E-01	0.3
73	17.83	5.16E-01	0.3	5.78E-01	0.3
74	18.07	5.11E-01	0.3	5.84E-01	0.3
75	18.32	5.23E-01	0.3	5.96E-01	0.3
76	18.57	5.28E-01	0.3	6.18E-01	0.3
77	18.81	5.06E-01	0.3	5.93E-01	0.3
78	19.06	5.05E-01	0.3	5.83E-01	0.3
79	19.30	5.01E-01	0.3	5.72E-01	0.3
80	19.55	4.96E-01	0.3	5.63E-01	0.3
81	19.79	5.09E-01	0.3	5.69E-01	0.3
82	20.04	5.18E-01	0.3	5.75E-01	0.3
83	20.29	5.24E-01	0.3	5.98E-01	0.3
84	20.53	5.44E-01	0.3	6.18E-01	0.3
85	20.78	5.74E-01	0.3	6.50E-01	0.3
86	21.02	6.06E-01	0.3	6.59E-01	0.3
87	21.27	6.35E-01	0.3	6.70E-01	0.3
88	21.52	6.74E-01	0.3	7.18E-01	0.3
89	21.76	6.76E-01	0.3	7.46E-01	0.3
90	22.01	7.08E-01	0.3	7.68E-01	0.3
91	22.25	7.37E-01	0.3	7.87E-01	0.3
92	22.50	7.53E-01	0.3	7.97E-01	0.3
93	22.75	7.71E-01	0.3	8.10E-01	0.3
94	22.99	7.76E-01	0.3	8.21E-01	0.3
95	23.24	7.85E-01	0.3	8.23E-01	0.3
96	23.48	7.91E-01	0.3	8.21E-01	0.3
97	23.73	7.79E-01	0.3	8.11E-01	0.3
98	23.98	7.61E-01	0.3	7.81E-01	0.3
99	24.22	7.43E-01	0.3	7.72E-01	0.3
100	24.47	7.17E-01	0.3	7.50E-01	0.3
101	24.71	7.09E-01	0.3	7.57E-01	0.3
102	24.96	7.03E-01	0.3	7.34E-01	0.3

Table A-12 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	7.17E-01	0.3	7.30E-01	0.3
104	25.45	7.16E-01	0.3	7.15E-01	0.3
105	25.70	7.07E-01	0.3	7.10E-01	0.3
106	25.94	6.97E-01	0.3	7.01E-01	0.3
107	26.19	6.88E-01	0.3	7.04E-01	0.3
108	26.43	6.94E-01	0.3	7.23E-01	0.3
109	26.68	6.90E-01	0.3	7.43E-01	0.3
110	26.93	6.87E-01	0.3	7.27E-01	0.3
111	27.17	6.70E-01	0.3	7.02E-01	0.3
112	27.42	6.60E-01	0.3	6.68E-01	0.3
113	27.66	6.36E-01	0.3	6.42E-01	0.3
114	27.91	6.17E-01	0.3	6.06E-01	0.3
115	28.16	6.08E-01	0.3	5.94E-01	0.3
116	28.40	5.98E-01	0.3	5.75E-01	0.3
117	28.65	5.99E-01	0.3	5.66E-01	0.3
118	28.89	6.05E-01	0.3	5.57E-01	0.3
119	29.14	6.01E-01	0.3	5.53E-01	0.3
120	29.39	5.48E-01	0.3	6.64E-01	0.3
121	29.63	7.43E-01	0.3	8.36E-01	0.3
122	29.88	4.02E-01	0.4	4.57E-01	0.4
123	30.12	3.92E-01	0.4	4.10E-01	0.4
124	30.37	4.41E-01	0.4	4.63E-01	0.4
125	30.61	4.78E-01	0.4	5.08E-01	0.3
126	30.86	4.87E-01	0.3	5.05E-01	0.3
127	31.11	4.85E-01	0.3	5.04E-01	0.3
128	31.35	5.01E-01	0.3	5.05E-01	0.3
129	31.60	4.93E-01	0.3	4.93E-01	0.3
130	31.84	4.90E-01	0.3	5.02E-01	0.3
131	32.09	4.91E-01	0.3	5.08E-01	0.3
132	32.34	5.02E-01	0.3	5.06E-01	0.3
133	32.58	5.13E-01	0.3	5.13E-01	0.3
134	32.83	5.16E-01	0.3	5.32E-01	0.3
135	33.07	5.13E-01	0.3	5.50E-01	0.3
136	33.32	4.97E-01	0.3	5.33E-01	0.3
137	33.57	4.93E-01	0.3	5.37E-01	0.3
138	33.81	4.93E-01	0.3	5.34E-01	0.3
139	34.06	5.01E-01	0.3	5.23E-01	0.3
140	34.30	5.01E-01	0.3	5.20E-01	0.3
141	34.55	4.78E-01	0.4	5.14E-01	0.3
142	34.79	4.81E-01	0.4	5.05E-01	0.3
143	35.04	4.63E-01	0.4	4.93E-01	0.3
144	35.29	4.66E-01	0.4	4.77E-01	0.4
145	35.53	4.67E-01	0.4	4.67E-01	0.4
146	35.78	4.61E-01	0.4	4.66E-01	0.4
147	36.02	4.64E-01	0.4	4.69E-01	0.4
148	36.27	4.93E-01	0.3	4.94E-01	0.3
149	36.52	4.85E-01	0.4	4.94E-01	0.3
150	36.76	4.73E-01	0.4	4.73E-01	0.4
151	37.01	4.57E-01	0.4	4.62E-01	0.4
152	37.25	4.54E-01	0.4	4.62E-01	0.4
153	37.50	4.46E-01	0.4	4.44E-01	0.4

Table A-12 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	4.45E-01	0.4	4.39E-01	0.4
155	37.99	4.38E-01	0.4	4.42E-01	0.4
156	38.24	4.32E-01	0.4	4.44E-01	0.4
157	38.48	4.31E-01	0.4	4.48E-01	0.4
158	38.73	4.28E-01	0.4	4.56E-01	0.4
159	38.98	4.32E-01	0.4	4.52E-01	0.4
160	39.22	4.55E-01	0.4	4.59E-01	0.4
161	39.47	4.69E-01	0.4	4.67E-01	0.4
162	39.71	4.65E-01	0.4	4.50E-01	0.4
163	39.96	4.61E-01	0.4	4.41E-01	0.4
164	40.20	4.53E-01	0.4	4.43E-01	0.4
165	40.45	4.53E-01	0.4	4.43E-01	0.4
166	40.70	4.47E-01	0.4	4.38E-01	0.4
167	40.94	4.36E-01	0.4	4.34E-01	0.4
168	41.19	4.35E-01	0.4	4.31E-01	0.4
169	41.43	4.30E-01	0.4	4.32E-01	0.4
170	41.68	4.30E-01	0.4	4.23E-01	0.4
171	41.93	4.20E-01	0.4	4.22E-01	0.4
172	42.17	4.24E-01	0.4	4.29E-01	0.4
173	42.42	4.46E-01	0.4	4.39E-01	0.4
174	42.66	4.55E-01	0.4	4.50E-01	0.4
175	42.91	4.50E-01	0.4	4.50E-01	0.4
176	43.16	4.41E-01	0.4	4.49E-01	0.4
177	43.40	4.19E-01	0.4	4.39E-01	0.4
178	43.65	4.05E-01	0.4	4.23E-01	0.4
179	43.89	3.97E-01	0.4	4.19E-01	0.4
180	44.14	3.87E-01	0.4	4.02E-01	0.4
181	44.39	3.75E-01	0.4	3.95E-01	0.4
182	44.63	3.64E-01	0.4	3.84E-01	0.4
183	44.88	3.61E-01	0.4	3.72E-01	0.4
184	45.12	3.61E-01	0.4	3.70E-01	0.4
185	45.37	3.77E-01	0.4	3.90E-01	0.4
186	45.61	3.84E-01	0.4	3.97E-01	0.4
187	45.86	3.80E-01	0.4	3.95E-01	0.4
188	46.11	3.71E-01	0.4	3.84E-01	0.4
189	46.35	3.53E-01	0.4	3.64E-01	0.4
190	46.60	3.45E-01	0.4	3.58E-01	0.4
191	46.84	3.33E-01	0.4	3.45E-01	0.4
192	47.09	3.20E-01	0.4	3.35E-01	0.4
193	47.34	3.27E-01	0.4	3.38E-01	0.4
194	47.58	3.30E-01	0.4	3.44E-01	0.4
195	47.83	3.30E-01	0.4	3.51E-01	0.4
196	48.07	3.37E-01	0.4	3.57E-01	0.4
197	48.32	3.45E-01	0.4	3.61E-01	0.4
198	48.57	3.59E-01	0.4	3.75E-01	0.4
199	48.81	3.67E-01	0.4	3.80E-01	0.4
200	49.06	3.66E-01	0.4	3.76E-01	0.4
201	49.30	3.55E-01	0.4	3.63E-01	0.4
202	49.55	3.46E-01	0.4	3.53E-01	0.4
203	49.79	3.28E-01	0.4	3.38E-01	0.4
204	50.04	3.11E-01	0.4	3.30E-01	0.4

Table A-12 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	3.01E-01	0.4	3.16E-01	0.4
206	50.53	2.93E-01	0.4	3.10E-01	0.4
207	50.78	2.91E-01	0.4	3.00E-01	0.4
208	51.02	2.82E-01	0.4	2.93E-01	0.4
209	51.27	2.77E-01	0.4	2.86E-01	0.4
210	51.52	2.74E-01	0.4	2.84E-01	0.4
211	51.76	2.77E-01	0.4	2.80E-01	0.4
212	52.01	2.74E-01	0.4	2.76E-01	0.4
213	52.25	2.68E-01	0.4	2.70E-01	0.4
214	52.50	2.55E-01	0.5	2.57E-01	0.4
215	52.75	2.42E-01	0.5	2.41E-01	0.5
216	52.99	2.40E-01	0.5	2.38E-01	0.5
217	53.24	2.39E-01	0.5	2.38E-01	0.5
218	53.48	2.37E-01	0.5	2.33E-01	0.5
219	53.73	2.36E-01	0.5	2.32E-01	0.5
220	53.98	2.32E-01	0.5	2.30E-01	0.5
221	54.22	2.24E-01	0.5	2.24E-01	0.5
222	54.47	2.14E-01	0.5	2.15E-01	0.5
223	54.71	2.08E-01	0.5	2.11E-01	0.5
224	54.96	2.05E-01	0.5	2.07E-01	0.5
225	55.20	2.03E-01	0.5	1.99E-01	0.5
226	55.45	1.95E-01	0.5	1.91E-01	0.5
227	55.70	1.93E-01	0.5	1.85E-01	0.5
228	55.94	1.98E-01	0.5	1.88E-01	0.5
229	56.19	2.08E-01	0.5	1.93E-01	0.5
230	56.43	2.02E-01	0.5	1.89E-01	0.5
231	56.68	1.91E-01	0.5	1.75E-01	0.5
232	56.93	1.78E-01	0.5	1.66E-01	0.5
233	57.17	1.71E-01	0.5	1.62E-01	0.6
234	57.42	1.64E-01	0.6	1.55E-01	0.6
235	57.66	1.62E-01	0.6	1.54E-01	0.6
236	57.91	1.59E-01	0.6	1.52E-01	0.6
237	58.16	3.28E-01	0.4	2.90E-01	0.4
238	58.40	2.93E-01	0.4	2.82E-01	0.4
239	58.65	2.42E-01	0.5	1.84E-01	0.5
240	58.89	2.10E-01	0.5	2.17E-01	0.5
241	59.14	1.99E-01	0.5	1.97E-01	0.5
242	59.39	1.89E-01	0.5	1.86E-01	0.5
243	59.63	1.82E-01	0.5	1.75E-01	0.5
244	59.88	1.74E-01	0.5	1.65E-01	0.5
245	60.12	1.67E-01	0.3	1.56E-01	0.6
246	60.37	1.61E-01	0.3	1.60E-01	0.3
247	60.61	1.56E-01	0.3	1.49E-01	0.3
248	60.86	1.46E-01	0.3	1.37E-01	0.3
249	61.11	1.35E-01	0.3	1.24E-01	0.3
250	61.35	1.29E-01	0.3	1.22E-01	0.3
251	61.60	1.28E-01	0.3	1.16E-01	0.3
252	61.84	1.26E-01	0.3	1.13E-01	0.3
253	62.09	1.22E-01	0.3	1.08E-01	0.3
254	62.34	1.17E-01	0.3	1.05E-01	0.3
255	62.58	1.15E-01	0.3	1.03E-01	0.3

Table A-12 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	1.12E-01	0.3	1.01E-01	0.3
257	63.07	1.10E-01	0.3	9.90E-02	0.3
258	63.32	1.03E-01	0.3	9.61E-02	0.3
259	63.57	9.42E-02	0.3	8.74E-02	0.3
260	63.81	8.65E-02	0.3	8.21E-02	0.3
261	64.06	7.93E-02	0.3	7.44E-02	0.3
262	64.30	7.34E-02	0.3	6.65E-02	0.3
263	64.55	6.63E-02	0.3	5.63E-02	0.4
264	64.79	6.26E-02	0.4	4.99E-02	0.4
265	65.04	5.96E-02	0.4	4.60E-02	0.4
266	65.29	5.63E-02	0.4	4.51E-02	0.4
267	65.53	5.35E-02	0.4	4.43E-02	0.4
268	65.78	4.96E-02	0.4	4.22E-02	0.4
269	66.02	4.39E-02	0.4	4.01E-02	0.4
270	66.27	3.98E-02	0.4	4.03E-02	0.4
271	66.52	3.80E-02	0.4	3.80E-02	0.4
272	66.76	3.59E-02	0.4	3.31E-02	0.5
273	67.01	3.25E-02	0.5	2.98E-02	0.5
274	67.25	3.08E-02	0.5	2.59E-02	0.5
275	67.50	3.18E-02	0.5	2.53E-02	0.5
276	67.75	3.61E-02	0.4	2.92E-02	0.5
277	67.99	4.04E-02	0.4	3.35E-02	0.5
278	68.24	4.27E-02	0.4	3.51E-02	0.4
279	68.48	4.37E-02	0.4	3.61E-02	0.4
280	68.73	4.18E-02	0.4	3.57E-02	0.4
281	68.98	4.19E-02	0.4	3.68E-02	0.4
282	69.22	4.38E-02	0.4	3.91E-02	0.4
283	69.47	4.90E-02	0.4	4.11E-02	0.4
284	69.71	5.15E-02	0.4	4.26E-02	0.4
285	69.96	4.80E-02	0.4	4.12E-02	0.4
286	70.20	4.52E-02	0.4	3.97E-02	0.4
287	70.45	4.67E-02	0.4	3.82E-02	0.4
288	70.70	4.78E-02	0.4	3.76E-02	0.4
289	70.94	4.17E-02	0.4	3.38E-02	0.4
290	71.19	3.41E-02	0.4	2.90E-02	0.5
291	71.43	8.46E-03	0.5	3.22E-02	0.3
292	71.68	3.50E-02	0.3	2.95E-02	0.3
293	71.93	2.96E-02	0.3	2.61E-02	0.3
294	72.17	2.68E-02	0.3	2.30E-02	0.3
295	72.42	2.62E-02	0.3	2.18E-02	0.4
296	72.66	2.54E-02	0.3	2.16E-02	0.4
297	72.91	2.31E-02	0.3	1.98E-02	0.4
298	73.16	2.39E-02	0.3	2.03E-02	0.4
299	73.40	2.79E-02	0.3	2.36E-02	0.3
300	73.65	3.31E-02	0.3	2.92E-02	0.3
301	73.89	2.74E-02	0.3	2.42E-02	0.3
302	74.14	2.08E-02	0.4	1.85E-02	0.4
303	74.38	1.84E-02	0.4	1.57E-02	0.4
304	74.63	1.72E-02	0.4	1.47E-02	0.4
305	74.88	1.64E-02	0.4	1.36E-02	0.4
306	75.12	1.60E-02	0.4	1.27E-02	0.4

Table A-12 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	1.67E-02	0.4	1.30E-02	0.4
308	75.61	1.78E-02	0.4	1.47E-02	0.4
309	75.86	1.61E-02	0.4	1.41E-02	0.4
310	76.11	1.36E-02	0.4	1.18E-02	0.4
311	76.35	1.11E-02	0.4	9.41E-03	0.5
312	76.60	9.44E-03	0.5	7.79E-03	0.5
313	76.84	7.10E-03	0.6	6.11E-03	0.6
314	77.09	5.00E-03	0.7	4.37E-03	0.7
315	77.34	3.32E-03	0.8	2.87E-03	0.9
316	77.58	6.21E-04	1.0	1.63E-03	0.8
317	77.83	1.42E-03	0.9	1.19E-03	1.0
318	78.07	1.14E-03	1.0	9.90E-04	1.1
319	78.32	9.97E-04	1.1	8.62E-04	1.2
320	78.57	8.79E-04	1.2	7.91E-04	1.4
321	78.81	8.19E-04	1.3	6.93E-04	1.5
322	79.06	7.30E-04	1.4	6.46E-04	1.6
323	79.30	8.18E-04	1.3	6.44E-04	1.5
324	79.55	8.17E-04	1.2	6.51E-04	1.5
325	79.79	7.69E-04	1.2	5.91E-04	1.4
326	80.04	7.07E-04	1.2	5.44E-04	1.5
327	80.29	5.98E-04	1.3	4.64E-04	1.5
328	80.53	4.97E-04	1.4	3.92E-04	1.6
329	80.78	3.88E-04	1.6	3.13E-04	1.9
330	81.02	3.65E-04	1.6	3.08E-04	1.9
331	81.27	3.68E-04	1.6	3.24E-04	1.8
332	81.52	3.78E-04	1.6	3.12E-04	1.9
333	81.76	4.62E-04	1.4	4.12E-04	1.6
334	82.01	6.23E-04	1.2	5.98E-04	1.2
335	82.25	1.14E-03	0.8	1.22E-03	0.8
336	82.50	1.48E-03	0.7	1.56E-03	0.7
337	82.75	7.70E-04	1.0	7.21E-04	1.0
338	82.99	4.45E-04	1.4	4.49E-04	1.4
339	83.24	3.57E-04	1.6	3.35E-04	1.6
340	83.48	3.10E-04	1.6	2.99E-04	1.7
341	83.73	3.26E-04	1.5	3.30E-04	1.5
342	83.97	3.48E-04	1.4	3.89E-04	1.4
343	84.22	3.40E-04	1.4	3.87E-04	1.3
344	84.47	2.91E-04	1.5	3.58E-04	1.4
345	84.71	3.20E-04	1.4	3.37E-04	1.4
346	84.96	2.49E-04	1.7	2.72E-04	1.6
347	85.20	1.88E-04	2.0	2.01E-04	2.0
348	85.45	1.74E-04	2.1	1.83E-04	2.1
349	85.70	1.70E-04	2.1	1.73E-04	2.2
350	85.94	1.63E-04	2.1	1.68E-04	2.2
351	86.19	1.47E-04	2.2	1.64E-04	2.2
352	86.43	1.39E-04	2.3	1.61E-04	2.1
353	86.68	1.24E-04	2.4	1.41E-04	2.3
354	86.93	1.16E-04	2.5	1.26E-04	2.4
355	87.17	1.01E-04	2.7	1.02E-04	2.7
356	87.42	9.64E-05	2.6	9.23E-05	2.9

Table A-13. Axial distribution of ^{144}Ce in the sleeve of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.19	1.49E-03	****	7.32E-03	13.5
2	0.43	4.57E-02	4.8	9.79E-02	5.5
3	0.68	1.78E-01	4.0	4.10E-02	7.3
4	0.92	1.09E-01	4.1	3.07E-03	****
5	1.17	3.04E-03	39.7	2.95E-03	****
6	1.41	6.52E-03	19.1	2.68E-03	****
7	1.66	3.19E-03	****	3.11E-03	38.4
8	1.91	2.99E-03	****	2.62E-03	****
9	2.15	3.10E-03	****	2.68E-03	****
10	2.40	3.25E-03	****	2.67E-03	****
11	2.64	3.37E-03	****	2.75E-03	****
12	2.89	4.09E-03	39.0	3.19E-03	****
13	3.14	4.08E-03	****	4.92E-03	38.5
14	3.38	5.15E-03	****	4.28E-03	****
15	3.63	7.60E-03	36.2	4.36E-03	****
16	3.87	8.83E-03	30.3	8.42E-03	25.8
17	4.12	1.36E-02	****	5.03E-03	****
18	4.37	1.47E-02	****	5.59E-03	****
19	4.61	1.54E-02	****	1.31E-02	****
20	4.86	1.63E-02	****	1.37E-02	****
21	5.10	1.70E-02	****	1.52E-02	****
22	5.35	1.85E-02	****	1.66E-02	****
23	5.60	2.03E-02	****	1.86E-02	****
24	5.84	2.25E-02	****	2.20E-02	****
25	6.09	3.64E-02	****	3.59E-02	****
26	6.33	4.10E-02	****	3.61E-02	****
27	6.58	4.89E-02	****	3.69E-02	****
28	6.82	4.74E-02	****	3.54E-02	****
29	7.07	4.47E-02	****	3.59E-02	****
30	7.32	4.55E-02	****	3.62E-02	****
31	7.56	4.68E-02	****	3.55E-02	****
32	7.81	4.71E-02	****	3.59E-02	****
33	8.05	4.76E-02	****	3.60E-02	****
34	8.30	4.85E-02	****	3.68E-02	****
35	8.55	4.95E-02	****	4.18E-02	****
36	8.79	5.22E-02	****	4.19E-02	****
37	9.04	5.73E-02	****	3.80E-02	****
38	9.28	6.44E-02	****	3.80E-02	****
39	9.53	7.48E-02	****	3.90E-02	****
40	9.78	9.65E-02	****	4.01E-02	****
41	10.02	1.14E-01	****	4.09E-02	****
42	10.27	1.20E-01	****	4.32E-02	****
43	10.51	2.46E-01	****	4.56E-02	****
44	10.76	2.62E-01	****	4.90E-02	****
45	11.01	3.36E-01	37.7	5.78E-02	****
46	11.25	2.79E-01	****	7.31E-02	****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
47	11.50	3.09E-01	*****	9.50E-02	*****
48	11.74	3.25E-01	*****	2.36E-01	*****
49	11.99	3.51E-01	*****	2.41E-01	*****
50	12.23	3.72E-01	*****	2.54E-01	*****
51	12.48	4.32E-01	*****	2.64E-01	*****
52	12.73	4.17E-01	*****	2.77E-01	*****
53	12.97	3.52E-01	*****	2.91E-01	*****
54	13.22	3.51E-01	*****	2.95E-01	*****
55	13.46	3.66E-01	*****	3.00E-01	*****
56	13.71	3.92E-01	*****	3.13E-01	*****
57	13.96	3.97E-01	*****	3.42E-01	*****
58	14.20	3.99E-01	*****	3.39E-01	*****
59	14.45	4.17E-01	*****	3.85E-01	*****
60	14.69	4.26E-01	*****	4.01E-01	*****
61	14.94	4.27E-01	*****	3.60E-01	*****
62	15.19	4.34E-01	*****	3.72E-01	*****
63	15.43	4.53E-01	*****	3.87E-01	*****
64	15.68	5.20E-01	*****	4.09E-01	*****
65	15.92	4.63E-01	*****	4.26E-01	*****
66	16.17	3.95E-01	*****	4.19E-01	*****
67	16.41	4.17E-01	*****	4.39E-01	*****
68	16.66	4.46E-01	*****	4.49E-01	*****
69	16.91	4.69E-01	*****	4.61E-01	*****
70	17.15	5.09E-01	*****	4.61E-01	*****
71	17.40	5.42E-01	*****	4.92E-01	*****
72	17.64	5.48E-01	*****	5.44E-01	*****
73	17.89	5.59E-01	*****	5.27E-01	*****
74	18.14	5.75E-01	*****	5.09E-01	*****
75	18.38	5.85E-01	*****	4.99E-01	*****
76	18.63	6.10E-01	*****	5.16E-01	*****
77	18.87	6.93E-01	*****	5.30E-01	*****
78	19.12	6.47E-01	*****	5.56E-01	*****
79	19.37	5.99E-01	*****	5.89E-01	*****
80	19.61	5.97E-01	*****	5.95E-01	*****
81	19.86	6.08E-01	*****	6.24E-01	*****
82	20.10	6.27E-01	*****	6.40E-01	*****
83	20.35	6.25E-01	*****	8.57E-01	34.6
84	20.60	6.27E-01	*****	6.54E-01	*****
85	20.84	6.33E-01	*****	6.96E-01	*****
86	21.09	6.42E-01	*****	6.98E-01	*****
87	21.33	6.40E-01	*****	6.69E-01	*****
88	21.58	6.28E-01	*****	6.75E-01	*****
89	21.82	7.08E-01	*****	6.65E-01	*****
90	22.07	6.81E-01	*****	6.67E-01	*****
91	22.32	5.43E-01	*****	6.78E-01	*****
92	22.56	4.99E-01	*****	6.90E-01	*****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
93	22.81	5.03E-01	****	6.78E-01	****
94	23.05	5.63E-01	****	6.76E-01	****
95	23.30	6.29E-01	****	7.08E-01	****
96	23.55	6.31E-01	****	6.95E-01	****
97	23.79	6.39E-01	****	9.66E-01	37.9
98	24.04	6.36E-01	****	7.76E-01	****
99	24.28	7.01E-01	****	7.22E-01	****
100	24.53	8.21E-01	****	7.00E-01	****
101	24.78	9.89E-01	****	7.32E-01	****
102	25.02	1.03E+00	****	7.45E-01	****
103	25.27	8.53E-01	****	8.16E-01	****
104	25.51	8.25E-01	****	8.20E-01	****
105	25.76	8.09E-01	****	8.64E-01	****
106	26.00	7.94E-01	****	8.95E-01	****
107	26.25	7.99E-01	****	9.66E-01	****
108	26.50	7.16E-01	****	1.07E+00	****
109	26.74	7.47E-01	****	1.08E+00	****
110	26.99	7.53E-01	****	1.14E+00	****
111	27.23	7.47E-01	****	9.19E-01	****
112	27.48	7.77E-01	****	8.73E-01	****
113	27.73	8.07E-01	****	8.28E-01	****
114	27.97	8.22E-01	****	8.46E-01	****
115	28.22	7.59E-01	****	8.22E-01	****
116	28.46	7.67E-01	****	8.22E-01	****
117	28.71	7.27E-01	****	7.70E-01	****
118	28.96	7.49E-01	****	8.00E-01	****
119	29.20	7.10E-01	****	8.12E-01	****
120	29.45	7.13E-01	****	7.97E-01	****
121	29.69	7.04E-01	****	8.08E-01	****
122	29.94	6.86E-01	****	8.03E-01	****
123	30.25	2.29E-01	****	2.60E-01	****
124	30.49	3.38E-01	****	1.05E+00	****
125	30.74	9.42E-01	****	1.07E+00	****
126	30.99	9.48E-01	****	1.09E+00	****
127	31.23	9.08E-01	****	1.08E+00	****
128	31.48	9.19E-01	****	1.06E+00	****
129	31.72	9.53E-01	****	1.15E+00	****
130	31.97	9.25E-01	****	1.14E+00	****
131	32.21	9.79E-01	****	1.18E+00	****
132	32.46	9.67E-01	****	1.17E+00	****
133	32.71	9.91E-01	****	1.17E+00	****
134	32.95	1.00E+00	****	1.20E+00	****
135	33.20	1.03E+00	****	1.26E+00	****
136	33.44	1.09E+00	****	1.43E+00	****
137	33.69	1.20E+00	****	1.25E+00	****
138	33.94	1.00E+00	****	1.15E+00	****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
139	34.18	9.27E-01	*****	1.19E+00	*****
140	34.43	9.42E-01	*****	1.13E+00	*****
141	34.67	9.94E-01	*****	1.13E+00	*****
142	34.92	1.01E+00	*****	1.13E+00	*****
143	35.17	1.04E+00	*****	1.13E+00	*****
144	35.41	1.03E+00	*****	1.18E+00	*****
145	35.66	9.82E-01	*****	1.79E+00	31.2
146	35.90	1.01E+00	*****	1.25E+00	*****
147	36.15	1.02E+00	*****	1.27E+00	*****
148	36.40	1.27E+00	37.4	1.30E+00	*****
149	36.64	1.09E+00	*****	1.27E+00	*****
150	36.89	1.02E+00	*****	1.21E+00	*****
151	37.13	1.01E+00	*****	1.21E+00	*****
152	37.38	1.04E+00	*****	1.13E+00	*****
153	37.62	1.01E+00	*****	1.15E+00	*****
154	37.87	9.97E-01	*****	1.14E+00	*****
155	38.12	9.85E-01	*****	1.17E+00	*****
156	38.36	9.48E-01	*****	1.15E+00	*****
157	38.61	9.82E-01	*****	1.10E+00	*****
158	38.85	9.93E-01	*****	1.12E+00	*****
159	39.10	1.01E+00	*****	1.13E+00	*****
160	39.35	9.91E-01	*****	1.17E+00	*****
161	39.59	1.04E+00	*****	1.16E+00	*****
162	39.84	1.08E+00	*****	1.16E+00	*****
163	40.08	1.01E+00	*****	1.19E+00	*****
164	40.33	1.02E+00	*****	1.07E+00	*****
165	40.58	1.02E+00	*****	1.07E+00	*****
166	40.82	1.06E+00	*****	1.11E+00	*****
167	41.07	1.04E+00	*****	1.11E+00	*****
168	41.31	1.00E+00	*****	1.12E+00	*****
169	41.56	1.01E+00	*****	1.19E+00	*****
170	41.81	1.00E+00	*****	1.19E+00	*****
171	42.05	1.07E+00	*****	1.23E+00	*****
172	42.30	1.10E+00	*****	1.21E+00	*****
173	42.54	1.16E+00	*****	1.30E+00	*****
174	42.79	1.19E+00	*****	1.39E+00	*****
175	43.03	1.19E+00	*****	1.55E+00	*****
176	43.28	1.15E+00	*****	1.47E+00	*****
177	43.53	1.19E+00	*****	1.50E+00	*****
178	43.77	1.22E+00	*****	1.36E+00	*****
179	44.02	1.13E+00	*****	1.32E+00	*****
180	44.26	1.09E+00	*****	1.31E+00	*****
181	44.51	1.03E+00	*****	1.29E+00	*****
182	44.76	1.02E+00	*****	1.21E+00	*****
183	45.00	1.00E+00	*****	1.24E+00	*****
184	45.25	9.51E-01	*****	1.24E+00	*****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
185	45.49	9.02E-01	****	1.22E+00	****
186	45.74	9.49E-01	****	1.24E+00	****
187	45.99	9.02E-01	****	1.21E+00	****
188	46.23	8.23E-01	****	1.16E+00	****
189	46.48	8.22E-01	****	1.10E+00	****
190	46.72	8.14E-01	****	1.14E+00	****
191	46.97	7.93E-01	****	1.08E+00	****
192	47.21	7.66E-01	****	1.05E+00	****
193	47.46	7.39E-01	****	9.82E-01	****
194	47.71	7.39E-01	****	9.79E-01	****
195	47.95	7.52E-01	****	9.63E-01	****
196	48.20	7.43E-01	****	9.34E-01	****
197	48.44	7.39E-01	****	9.62E-01	****
198	48.69	7.77E-01	****	1.06E+00	****
199	48.94	8.12E-01	****	1.02E+00	****
200	49.18	8.22E-01	****	9.72E-01	****
201	49.43	8.52E-01	****	9.36E-01	****
202	49.67	8.39E-01	****	9.48E-01	****
203	49.92	8.12E-01	****	9.20E-01	****
204	50.17	8.05E-01	****	8.66E-01	****
205	50.41	8.09E-01	****	8.46E-01	****
206	50.66	7.71E-01	****	8.44E-01	****
207	50.90	7.58E-01	****	8.04E-01	****
208	51.15	7.38E-01	****	7.98E-01	****
209	51.40	7.24E-01	****	8.31E-01	****
210	51.64	7.16E-01	****	8.14E-01	****
211	51.89	7.23E-01	****	7.46E-01	****
212	52.13	6.77E-01	****	7.69E-01	****
213	52.38	7.09E-01	****	7.87E-01	****
214	52.62	7.00E-01	****	7.81E-01	****
215	52.87	7.02E-01	****	7.78E-01	****
216	53.12	6.83E-01	****	7.48E-01	****
217	53.36	6.80E-01	****	7.47E-01	****
218	53.61	6.73E-01	****	7.60E-01	****
219	53.85	6.53E-01	****	7.78E-01	****
220	54.10	6.63E-01	****	7.89E-01	****
221	54.35	6.60E-01	****	7.49E-01	****
222	54.59	6.79E-01	****	7.35E-01	****
223	54.84	7.11E-01	****	7.21E-01	****
224	55.08	7.09E-01	****	6.40E-01	****
225	55.33	6.40E-01	****	6.96E-01	****
226	55.58	7.04E-01	****	6.45E-01	****
227	55.82	6.80E-01	****	6.11E-01	****
228	56.07	6.50E-01	****	5.75E-01	****
229	56.31	6.30E-01	****	5.83E-01	****
230	56.56	6.32E-01	****	5.78E-01	****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
231	56.81	6.10E-01	*****	5.60E-01	*****
232	57.05	5.95E-01	*****	5.49E-01	*****
233	57.30	5.75E-01	*****	5.58E-01	*****
234	57.54	5.80E-01	*****	5.60E-01	*****
235	57.79	5.86E-01	*****	5.79E-01	*****
236	58.03	5.38E-01	*****	5.50E-01	*****
237	58.28	5.12E-01	*****	5.87E-01	*****
238	58.53	6.02E-01	*****	5.71E-01	*****
239	58.77	5.94E-01	*****	5.92E-01	*****
240	59.02	6.08E-01	*****	5.95E-01	*****
241	59.26	6.11E-01	*****	5.88E-01	*****
242	59.51	6.16E-01	*****	6.16E-01	*****
243	59.76	6.50E-01	*****	6.32E-01	*****
244	60.00	6.66E-01	*****	6.27E-01	*****
245	60.31	3.04E-01	*****	2.91E-01	*****
246	60.56	5.42E-01	*****	6.54E-01	*****
247	60.80	4.97E-01	*****	5.72E-01	*****
248	61.05	5.23E-01	*****	5.52E-01	*****
249	61.29	4.93E-01	*****	5.35E-01	*****
250	61.54	4.63E-01	*****	5.17E-01	*****
251	61.79	4.72E-01	*****	4.98E-01	*****
252	62.03	4.70E-01	*****	4.90E-01	*****
253	62.28	4.52E-01	*****	4.94E-01	*****
254	62.52	4.53E-01	*****	4.81E-01	*****
255	62.77	4.49E-01	*****	4.83E-01	*****
256	63.02	4.65E-01	*****	4.81E-01	*****
257	63.26	4.60E-01	*****	4.89E-01	*****
258	63.51	4.74E-01	*****	4.91E-01	*****
259	63.75	4.38E-01	*****	4.70E-01	*****
260	64.00	4.38E-01	*****	4.70E-01	*****
261	64.24	5.11E-01	*****	5.32E-01	*****
262	64.49	4.99E-01	*****	5.24E-01	*****
263	64.74	4.40E-01	*****	4.96E-01	*****
264	64.98	3.91E-01	*****	4.60E-01	*****
265	65.23	3.82E-01	*****	4.33E-01	*****
266	65.47	3.63E-01	*****	4.16E-01	*****
267	65.72	1.93E-01	*****	4.13E-01	*****
268	65.97	1.86E-01	*****	4.03E-01	*****
269	66.21	1.90E-01	*****	3.90E-01	*****
270	66.46	2.10E-01	*****	2.45E-01	*****
271	66.70	2.20E-01	*****	2.49E-01	*****
272	66.95	1.94E-01	*****	2.50E-01	*****
273	67.20	1.99E-01	*****	2.27E-01	*****
274	67.44	1.80E-01	*****	2.41E-01	*****
275	67.69	1.61E-01	*****	2.25E-01	*****
276	67.93	1.56E-01	*****	2.10E-01	*****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
277	68.18	1.51E-01	****	1.95E-01	****
278	68.42	1.51E-01	****	1.85E-01	****
279	68.67	1.55E-01	****	1.75E-01	****
280	68.92	1.50E-01	****	1.72E-01	****
281	69.16	1.53E-01	****	1.75E-01	****
282	69.41	1.51E-01	****	1.73E-01	****
283	69.65	1.56E-01	****	1.72E-01	****
284	69.90	1.59E-01	****	1.75E-01	****
285	70.15	1.51E-01	****	1.66E-01	****
286	70.39	1.53E-01	****	1.58E-01	****
287	70.64	1.57E-01	****	1.49E-01	****
288	70.88	1.59E-01	****	1.51E-01	****
289	71.13	1.52E-01	****	1.44E-01	****
290	71.38	1.45E-01	****	1.36E-01	****
291	71.62	1.32E-01	****	1.26E-01	****
292	71.87	1.24E-01	****	1.22E-01	****
293	72.11	1.16E-01	****	1.17E-01	****
294	72.36	1.08E-01	****	1.12E-01	****
295	72.61	9.98E-02	****	1.08E-01	****
296	72.85	9.68E-02	****	1.06E-01	****
297	73.10	8.93E-02	****	1.00E-01	****
298	73.34	9.01E-02	****	9.44E-02	****
299	73.59	9.59E-02	****	9.50E-02	****
300	73.83	1.07E-01	****	9.26E-02	****
301	74.08	1.14E-01	****	9.16E-02	****
302	74.33	1.19E-01	****	9.36E-02	****
303	74.57	1.09E-01	****	9.08E-02	****
304	74.82	1.04E-01	****	8.72E-02	****
305	75.06	9.75E-02	****	8.50E-02	****
306	75.31	9.34E-02	****	8.02E-02	****
307	75.56	8.63E-02	****	7.65E-02	****
308	75.80	7.65E-02	****	7.42E-02	****
309	76.05	7.02E-02	****	7.34E-02	****
310	76.29	6.53E-02	****	7.19E-02	****
311	76.54	6.68E-02	****	7.16E-02	****
312	76.79	6.21E-02	****	6.54E-02	****
313	77.03	5.88E-02	****	6.07E-02	****
314	77.28	5.68E-02	****	5.94E-02	****
315	77.52	5.24E-02	****	5.60E-02	****
316	77.77	5.54E-02	****	5.61E-02	****
317	78.01	5.30E-02	****	5.60E-02	****
318	78.26	5.12E-02	****	5.28E-02	****
319	78.51	4.89E-02	****	4.72E-02	****
320	78.75	4.76E-02	****	4.34E-02	****
321	79.00	4.37E-02	****	4.27E-02	****
322	79.24	3.90E-02	****	4.72E-02	****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
323	79.49	3.77E-02	*****	4.53E-02	*****
324	79.74	3.55E-02	*****	3.64E-02	*****
325	79.98	3.28E-02	*****	3.40E-02	*****
326	80.23	2.87E-02	*****	2.89E-02	*****
327	80.47	2.44E-02	*****	2.31E-02	*****
328	80.72	2.14E-02	*****	2.17E-02	*****
329	80.97	1.79E-02	*****	2.04E-02	*****
330	81.21	1.61E-02	*****	1.69E-02	*****
331	81.46	1.40E-02	*****	1.53E-02	*****
332	81.70	1.34E-02	*****	1.49E-02	*****
333	81.95	1.35E-02	*****	1.44E-02	*****
334	82.20	1.53E-02	*****	1.51E-02	*****
335	82.44	1.80E-02	*****	1.31E-02	*****
336	82.69	1.85E-02	*****	1.86E-02	*****
337	82.93	1.66E-02	*****	1.78E-02	*****
338	83.18	1.52E-02	*****	1.68E-02	*****
339	83.42	1.37E-02	*****	1.63E-02	*****
340	83.67	1.26E-02	*****	1.54E-02	*****
341	83.92	1.27E-02	*****	1.41E-02	*****
342	84.16	1.13E-02	*****	7.60E-03	*****
343	84.41	1.09E-02	*****	7.05E-03	*****
344	84.65	1.05E-02	*****	6.57E-03	*****
345	84.90	6.03E-03	*****	6.11E-03	*****
346	85.15	5.41E-03	*****	5.42E-03	*****
347	85.39	5.24E-03	*****	5.01E-03	*****
348	85.64	4.95E-03	*****	5.09E-03	*****
349	85.88	4.72E-03	*****	4.79E-03	*****
350	86.13	4.56E-03	*****	4.58E-03	*****
351	86.38	4.44E-03	*****	4.33E-03	*****
352	86.62	4.22E-03	*****	4.03E-03	*****
353	86.87	3.82E-03	*****	3.86E-03	*****
354	87.11	3.67E-03	*****	3.77E-03	*****
355	87.36	3.40E-03	*****	3.59E-03	*****
356	87.60	3.17E-03	*****	3.40E-03	*****
357	87.85	3.18E-03	*****	3.08E-03	*****
358	88.10	3.12E-03	*****	3.02E-03	*****
359	88.34	3.10E-03	*****	3.03E-03	*****
360	88.59	3.21E-03	*****	3.16E-03	*****
361	88.83	3.27E-03	*****	3.16E-03	*****
362	89.08	3.17E-03	*****	3.20E-03	*****
363	89.33	3.18E-03	*****	3.06E-03	*****
364	89.57	2.90E-03	*****	4.69E-03	23.7
365	89.82	2.75E-03	*****	3.95E-03	35.6
366	90.06	2.80E-03	*****	4.65E-03	27.4

Table A-14. Axial distribution of ^{144}Ce in the spine of element EOL-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	1.44E-02	27.8	9.18E-03	****
2	0.37	7.55E-02	****	3.70E-02	****
3	0.61	1.49E-02	****	1.71E-02	****
4	0.86	1.18E-02	32.6	1.10E-02	****
5	1.11	7.84E-03	****	1.17E-02	****
6	1.35	8.02E-03	****	1.27E-02	****
7	1.60	8.03E-03	****	1.32E-02	****
8	1.84	8.33E-03	****	1.36E-02	****
9	2.09	8.65E-03	****	1.43E-02	****
10	2.34	9.10E-03	****	1.49E-02	****
11	2.58	9.63E-03	****	1.58E-02	****
12	2.83	1.06E-02	****	1.66E-02	****
13	3.07	1.17E-02	****	1.79E-02	****
14	3.32	1.23E-02	****	1.93E-02	****
15	3.57	1.30E-02	****	2.06E-02	****
16	3.81	1.39E-02	****	2.19E-02	****
17	4.06	1.51E-02	****	2.33E-02	****
18	4.30	1.67E-02	****	2.52E-02	****
19	4.55	1.81E-02	****	2.67E-02	****
20	4.80	1.99E-02	****	2.87E-02	****
21	5.04	2.19E-02	****	3.14E-02	****
22	5.29	2.50E-02	****	3.45E-02	****
23	5.53	2.82E-02	****	3.69E-02	****
24	5.78	3.08E-02	****	3.92E-02	****
25	6.02	3.49E-02	****	4.24E-02	****
26	6.27	3.89E-02	****	4.98E-02	****
27	6.52	4.24E-02	****	5.19E-02	****
28	6.76	5.39E-02	38.9	5.74E-02	****
29	7.01	4.92E-02	****	6.30E-02	****
30	7.25	5.36E-02	****	6.78E-02	****
31	7.50	5.78E-02	****	7.25E-02	****
32	7.75	5.96E-02	****	7.56E-02	****
33	7.99	6.54E-02	****	8.05E-02	****
34	8.24	7.00E-02	****	8.55E-02	****
35	8.48	7.53E-02	****	8.98E-02	****
36	8.73	8.29E-02	****	1.20E-01	39.3
37	8.98	9.89E-02	****	1.17E-01	****
38	9.22	1.68E-01	****	1.99E-01	****
39	9.47	1.84E-01	****	2.25E-01	****
40	9.71	1.95E-01	****	2.28E-01	****
41	9.96	2.03E-01	****	2.41E-01	****
42	10.20	2.14E-01	****	2.57E-01	****
43	10.45	2.15E-01	****	2.66E-01	****
44	10.70	2.32E-01	****	2.75E-01	****
45	10.94	2.35E-01	****	2.74E-01	****
46	11.19	2.49E-01	****	2.83E-01	****
47	11.43	2.59E-01	****	2.88E-01	****
48	11.68	2.80E-01	****	3.09E-01	****
49	11.93	2.96E-01	****	3.35E-01	****
50	12.17	3.18E-01	****	3.47E-01	****
51	12.42	3.33E-01	****	3.67E-01	****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	3.27E-01	****	3.44E-01	****
53	12.91	3.31E-01	****	3.46E-01	****
54	13.16	3.26E-01	****	3.41E-01	****
55	13.40	3.20E-01	****	3.40E-01	****
56	13.65	3.25E-01	****	3.43E-01	****
57	13.89	3.42E-01	****	3.53E-01	****
58	14.14	3.35E-01	****	3.55E-01	****
59	14.39	3.36E-01	****	3.65E-01	****
60	14.63	3.47E-01	****	3.53E-01	****
61	14.88	3.53E-01	****	3.61E-01	****
62	15.12	3.53E-01	****	3.64E-01	****
63	15.37	3.56E-01	****	3.87E-01	****
64	15.61	3.36E-01	****	3.88E-01	****
65	15.86	3.35E-01	****	3.91E-01	****
66	16.11	3.37E-01	****	3.85E-01	****
67	16.35	3.25E-01	****	3.76E-01	****
68	16.60	3.23E-01	****	3.79E-01	****
69	16.84	3.17E-01	****	3.77E-01	****
70	17.09	3.20E-01	****	3.85E-01	****
71	17.34	3.15E-01	****	3.72E-01	****
72	17.58	3.25E-01	****	3.81E-01	****
73	17.83	3.29E-01	****	4.74E-01	38.4
74	18.07	3.23E-01	****	3.94E-01	****
75	18.32	3.42E-01	****	4.03E-01	****
76	18.57	3.36E-01	****	4.17E-01	****
77	18.81	3.32E-01	****	3.93E-01	****
78	19.06	3.34E-01	****	3.86E-01	****
79	19.30	3.34E-01	****	3.88E-01	****
80	19.55	3.34E-01	****	3.83E-01	****
81	19.79	3.36E-01	****	3.89E-01	****
82	20.04	3.42E-01	****	3.91E-01	****
83	20.29	3.47E-01	****	4.02E-01	****
84	20.53	3.49E-01	****	4.18E-01	****
85	20.78	3.70E-01	****	4.32E-01	****
86	21.02	3.87E-01	****	4.33E-01	****
87	21.27	3.99E-01	****	4.43E-01	****
88	21.52	4.12E-01	****	4.64E-01	****
89	21.76	4.23E-01	****	4.82E-01	****
90	22.01	4.29E-01	****	4.92E-01	****
91	22.25	4.56E-01	****	4.97E-01	****
92	22.50	4.65E-01	****	5.03E-01	****
93	22.75	4.67E-01	****	5.14E-01	****
94	22.99	4.79E-01	****	5.23E-01	****
95	23.24	4.84E-01	****	5.24E-01	****
96	23.48	4.81E-01	****	5.13E-01	****
97	23.73	4.82E-01	****	5.23E-01	****
98	23.98	4.74E-01	****	4.99E-01	****
99	24.22	4.65E-01	****	4.97E-01	****
100	24.47	4.55E-01	****	4.86E-01	****
101	24.71	4.55E-01	****	4.88E-01	****
102	24.96	4.49E-01	****	4.79E-01	****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	4.87E-01	****	5.03E-01	****
104	25.45	4.98E-01	****	5.16E-01	****
105	25.70	5.00E-01	****	5.17E-01	****
106	25.94	4.92E-01	****	5.09E-01	****
107	26.19	4.83E-01	****	5.08E-01	****
108	26.43	4.91E-01	****	5.17E-01	****
109	26.68	4.87E-01	****	5.24E-01	****
110	26.93	4.89E-01	****	5.19E-01	****
111	27.17	4.92E-01	****	5.13E-01	****
112	27.42	4.92E-01	****	5.01E-01	****
113	27.66	4.73E-01	****	4.71E-01	****
114	27.91	4.48E-01	****	4.42E-01	****
115	28.16	4.30E-01	****	4.37E-01	****
116	28.40	4.09E-01	****	4.11E-01	****
117	28.65	3.93E-01	****	3.91E-01	****
118	28.89	3.98E-01	****	3.78E-01	****
119	29.14	3.91E-01	****	3.82E-01	****
120	29.39	3.57E-01	****	4.00E-01	****
121	29.63	4.79E-01	****	5.16E-01	****
122	29.88	3.28E-01	****	3.52E-01	****
123	30.12	3.40E-01	****	3.43E-01	****
124	30.37	3.46E-01	****	3.57E-01	****
125	30.61	3.54E-01	****	3.57E-01	****
126	30.86	3.54E-01	****	3.63E-01	****
127	31.11	3.60E-01	****	3.63E-01	****
128	31.35	3.65E-01	****	3.63E-01	****
129	31.60	3.61E-01	****	3.64E-01	****
130	31.84	3.68E-01	****	3.68E-01	****
131	32.09	3.70E-01	****	3.70E-01	****
132	32.34	3.74E-01	****	3.67E-01	****
133	32.58	3.81E-01	****	3.71E-01	****
134	32.83	3.81E-01	****	3.82E-01	****
135	33.07	3.74E-01	****	3.90E-01	****
136	33.32	3.70E-01	****	3.75E-01	****
137	33.57	3.64E-01	****	3.80E-01	****
138	33.81	3.71E-01	****	3.78E-01	****
139	34.06	3.65E-01	****	3.75E-01	****
140	34.30	3.69E-01	****	3.72E-01	****
141	34.55	3.58E-01	****	3.70E-01	****
142	34.79	3.58E-01	****	3.66E-01	****
143	35.04	3.54E-01	****	3.61E-01	****
144	35.29	5.06E-01	31.9	3.52E-01	****
145	35.53	3.55E-01	****	3.46E-01	****
146	35.78	3.51E-01	****	3.45E-01	****
147	36.02	3.59E-01	****	3.51E-01	****
148	36.27	3.65E-01	****	3.59E-01	****
149	36.52	3.66E-01	****	3.61E-01	****
150	36.76	3.64E-01	****	3.63E-01	****
151	37.01	3.61E-01	****	3.51E-01	****
152	37.25	3.56E-01	****	3.52E-01	****
153	37.50	3.46E-01	****	3.45E-01	****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	3.40E-01	*****	3.38E-01	*****
155	37.99	3.45E-01	*****	3.35E-01	*****
156	38.24	3.41E-01	*****	3.40E-01	*****
157	38.48	3.41E-01	*****	3.40E-01	*****
158	38.73	3.26E-01	*****	3.40E-01	*****
159	38.98	3.32E-01	*****	3.42E-01	*****
160	39.22	3.42E-01	*****	3.42E-01	*****
161	39.47	3.54E-01	*****	3.43E-01	*****
162	39.71	3.53E-01	*****	3.45E-01	*****
163	39.96	3.51E-01	*****	3.39E-01	*****
164	40.20	3.55E-01	*****	3.41E-01	*****
165	40.45	3.53E-01	*****	3.45E-01	*****
166	40.70	3.52E-01	*****	3.45E-01	*****
167	40.94	3.42E-01	*****	3.38E-01	*****
168	41.19	3.46E-01	*****	3.31E-01	*****
169	41.43	3.36E-01	*****	3.34E-01	*****
170	41.68	3.36E-01	*****	3.35E-01	*****
171	41.93	3.37E-01	*****	3.25E-01	*****
172	42.17	3.40E-01	*****	3.27E-01	*****
173	42.42	3.46E-01	*****	3.36E-01	*****
174	42.66	3.52E-01	*****	3.35E-01	*****
175	42.91	3.45E-01	*****	3.32E-01	*****
176	43.16	3.47E-01	*****	3.35E-01	*****
177	43.40	3.33E-01	*****	3.32E-01	*****
178	43.65	3.23E-01	*****	3.20E-01	*****
179	43.89	3.19E-01	*****	3.15E-01	*****
180	44.14	3.06E-01	*****	3.05E-01	*****
181	44.39	3.08E-01	*****	3.03E-01	*****
182	44.63	3.01E-01	*****	2.99E-01	*****
183	44.88	2.97E-01	*****	2.98E-01	*****
184	45.12	3.01E-01	*****	2.92E-01	*****
185	45.37	3.11E-01	*****	3.10E-01	*****
186	45.61	3.11E-01	*****	3.16E-01	*****
187	45.86	3.20E-01	*****	3.16E-01	*****
188	46.11	3.12E-01	*****	2.99E-01	*****
189	46.35	3.03E-01	*****	2.92E-01	*****
190	46.60	2.91E-01	*****	2.86E-01	*****
191	46.84	2.82E-01	*****	2.77E-01	*****
192	47.09	2.81E-01	*****	2.73E-01	*****
193	47.34	2.86E-01	*****	2.72E-01	*****
194	47.58	2.79E-01	*****	2.73E-01	*****
195	47.83	2.77E-01	*****	2.75E-01	*****
196	48.07	2.83E-01	*****	2.81E-01	*****
197	48.32	2.90E-01	*****	2.80E-01	*****
198	48.57	2.98E-01	*****	2.87E-01	*****
199	48.81	2.93E-01	*****	2.90E-01	*****
200	49.06	3.00E-01	*****	2.88E-01	*****
201	49.30	2.90E-01	*****	2.80E-01	*****
202	49.55	2.88E-01	*****	2.75E-01	*****
203	49.79	2.80E-01	*****	2.72E-01	*****
204	50.04	2.74E-01	*****	2.63E-01	*****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	2.71E-01	****	2.59E-01	****
206	50.53	2.60E-01	****	2.57E-01	****
207	50.78	2.63E-01	****	2.51E-01	****
208	51.02	2.52E-01	****	2.46E-01	****
209	51.27	2.52E-01	****	2.47E-01	****
210	51.52	2.52E-01	****	2.47E-01	****
211	51.76	2.54E-01	****	2.44E-01	****
212	52.01	2.52E-01	****	2.48E-01	****
213	52.25	2.48E-01	****	2.33E-01	****
214	52.50	2.45E-01	****	2.30E-01	****
215	52.75	2.32E-01	****	2.19E-01	****
216	52.99	2.35E-01	****	2.16E-01	****
217	53.24	2.23E-01	****	2.18E-01	****
218	53.48	2.30E-01	****	2.15E-01	****
219	53.73	2.27E-01	****	2.14E-01	****
220	53.98	2.23E-01	****	2.13E-01	****
221	54.22	2.25E-01	****	2.09E-01	****
222	54.47	2.12E-01	****	2.08E-01	****
223	54.71	2.13E-01	****	1.99E-01	****
224	54.96	2.10E-01	****	1.99E-01	****
225	55.20	2.06E-01	****	1.98E-01	****
226	55.45	2.05E-01	****	1.92E-01	****
227	55.70	2.02E-01	****	1.89E-01	****
228	55.94	2.02E-01	****	1.90E-01	****
229	56.19	2.06E-01	****	1.97E-01	****
230	56.43	1.98E-01	****	1.91E-01	****
231	56.68	2.00E-01	****	1.86E-01	****
232	56.93	1.94E-01	****	1.86E-01	****
233	57.17	1.99E-01	****	1.85E-01	****
234	57.42	1.95E-01	****	1.85E-01	****
235	57.66	2.11E-01	****	1.98E-01	****
236	57.91	2.21E-01	****	2.20E-01	****
237	58.16	2.36E-01	****	2.16E-01	****
238	58.40	2.36E-01	****	2.33E-01	****
239	58.65	2.20E-01	****	1.92E-01	****
240	58.89	2.04E-01	****	2.04E-01	****
241	59.14	2.02E-01	****	1.94E-01	****
242	59.39	1.93E-01	****	1.88E-01	****
243	59.63	1.95E-01	****	1.82E-01	****
244	59.88	1.86E-01	****	1.80E-01	****
245	60.12	1.23E-01	****	1.77E-01	****
246	60.37	1.16E-01	****	1.13E-01	****
247	60.61	1.11E-01	****	1.05E-01	****
248	60.86	1.06E-01	****	9.87E-02	****
249	61.11	1.00E-01	****	9.22E-02	****
250	61.35	9.69E-02	****	9.00E-02	****
251	61.60	9.48E-02	****	8.70E-02	****
252	61.84	9.32E-02	****	8.53E-02	****
253	62.09	9.07E-02	****	8.22E-02	****
254	62.34	8.92E-02	****	8.05E-02	****
255	62.58	8.76E-02	****	8.10E-02	****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	8.46E-02	*****	7.92E-02	*****
257	63.07	8.36E-02	*****	7.82E-02	*****
258	63.32	7.86E-02	*****	7.54E-02	*****
259	63.57	7.44E-02	*****	7.04E-02	*****
260	63.81	6.83E-02	*****	6.77E-02	*****
261	64.06	6.38E-02	*****	6.14E-02	*****
262	64.30	5.91E-02	*****	5.65E-02	*****
263	64.55	5.48E-02	*****	5.10E-02	*****
264	64.79	5.27E-02	*****	4.81E-02	*****
265	65.04	5.05E-02	*****	1.92E-01	9.9
266	65.29	4.95E-02	*****	4.70E-02	*****
267	65.53	4.87E-02	*****	4.45E-02	*****
268	65.78	4.74E-02	*****	4.37E-02	*****
269	66.02	4.54E-02	*****	4.50E-02	*****
270	66.27	4.56E-02	*****	4.67E-02	*****
271	66.52	4.35E-02	*****	4.45E-02	*****
272	66.76	4.21E-02	*****	4.24E-02	*****
273	67.01	3.99E-02	*****	3.94E-02	*****
274	67.25	3.93E-02	*****	3.78E-02	*****
275	67.50	3.91E-02	*****	3.77E-02	*****
276	67.75	4.02E-02	*****	3.89E-02	*****
277	67.99	4.22E-02	*****	4.04E-02	*****
278	68.24	4.24E-02	*****	4.15E-02	*****
279	68.48	4.15E-02	*****	4.12E-02	*****
280	68.73	3.96E-02	*****	4.10E-02	*****
281	68.98	3.98E-02	*****	4.08E-02	*****
282	69.22	4.01E-02	*****	4.10E-02	*****
283	69.47	4.18E-02	*****	4.15E-02	*****
284	69.71	4.16E-02	*****	4.18E-02	*****
285	69.96	4.04E-02	*****	4.10E-02	*****
286	70.20	3.95E-02	*****	4.03E-02	*****
287	70.45	4.06E-02	*****	3.88E-02	*****
288	70.70	3.97E-02	*****	3.81E-02	*****
289	70.94	3.70E-02	*****	3.65E-02	*****
290	71.19	3.38E-02	*****	3.42E-02	*****
291	71.43	8.92E-03	*****	2.89E-02	*****
292	71.68	2.77E-02	*****	2.72E-02	*****
293	71.93	2.54E-02	*****	2.51E-02	*****
294	72.17	2.38E-02	*****	2.37E-02	*****
295	72.42	2.37E-02	*****	2.35E-02	*****
296	72.66	2.36E-02	*****	2.38E-02	*****
297	72.91	2.35E-02	*****	2.35E-02	*****
298	73.16	2.40E-02	*****	2.36E-02	*****
299	73.40	2.55E-02	*****	2.46E-02	*****
300	73.65	2.74E-02	*****	2.66E-02	*****
301	73.89	2.45E-02	*****	2.44E-02	*****
302	74.14	2.14E-02	*****	2.18E-02	*****
303	74.38	1.97E-02	*****	2.00E-02	*****
304	74.63	1.88E-02	*****	1.94E-02	*****
305	74.88	1.76E-02	*****	1.84E-02	*****
306	75.12	1.71E-02	*****	1.77E-02	*****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	1.70E-02	****	1.71E-02	****
308	75.61	1.71E-02	****	1.69E-02	****
309	75.86	1.66E-02	****	1.66E-02	****
310	76.11	1.59E-02	****	1.54E-02	****
311	76.35	1.54E-02	****	1.49E-02	****
312	76.60	1.51E-02	****	1.47E-02	****
313	76.84	1.44E-02	****	1.39E-02	****
314	77.09	1.38E-02	****	1.33E-02	****
315	77.34	1.30E-02	****	1.28E-02	****
316	77.58	3.48E-03	****	7.18E-03	****
317	77.83	7.18E-03	****	7.11E-03	****
318	78.07	7.31E-03	****	7.23E-03	****
319	78.32	7.57E-03	****	7.49E-03	****
320	78.57	7.62E-03	****	7.66E-03	****
321	78.81	7.55E-03	****	7.63E-03	****
322	79.06	7.26E-03	****	7.43E-03	****
323	79.30	6.97E-03	****	7.16E-03	****
324	79.55	6.57E-03	****	6.86E-03	****
325	79.79	6.10E-03	****	6.27E-03	****
326	80.04	5.52E-03	****	5.56E-03	****
327	80.29	4.96E-03	****	4.86E-03	****
328	80.53	4.48E-03	****	4.43E-03	****
329	80.78	4.30E-03	****	4.18E-03	****
330	81.02	4.14E-03	****	4.09E-03	****
331	81.27	4.25E-03	****	4.25E-03	****
332	81.52	4.39E-03	****	4.39E-03	****
333	81.76	4.60E-03	****	4.59E-03	****
334	82.01	4.65E-03	****	4.64E-03	****
335	82.25	1.18E-02	4.1	1.67E-02	3.5
336	82.50	2.18E-02	3.0	2.95E-02	2.6
337	82.75	4.69E-03	****	4.01E-03	6.9
338	82.99	4.23E-03	****	4.21E-03	****
339	83.24	3.82E-03	****	3.86E-03	****
340	83.48	3.49E-03	****	3.50E-03	****
341	83.73	3.15E-03	****	3.34E-03	****
342	83.97	2.88E-03	****	3.18E-03	****
343	84.22	2.75E-03	****	3.02E-03	****
344	84.47	2.53E-03	****	2.80E-03	****
345	84.71	2.56E-03	****	2.84E-03	****
346	84.96	2.51E-03	****	2.75E-03	****
347	85.20	2.47E-03	****	2.68E-03	****
348	85.45	2.38E-03	****	2.65E-03	****
349	85.70	2.30E-03	****	2.63E-03	****
350	85.94	2.25E-03	****	2.46E-03	****
351	86.19	2.18E-03	****	2.32E-03	****
352	86.43	2.11E-03	****	2.24E-03	****
353	86.68	1.97E-03	****	2.14E-03	****
354	86.93	1.89E-03	****	2.01E-03	****
355	87.17	1.84E-03	****	1.89E-03	****
356	87.42	1.65E-03	****	1.80E-03	****

Table A-15. Axial distribution of ^{154}Eu in the sleeve of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.19	3.70E-05	10.6	1.61E-04	5.0
2	0.43	3.96E-04	3.6	7.82E-04	3.8
3	0.68	1.28E-03	3.1	5.37E-04	3.5
4	0.92	8.74E-04	2.8	1.17E-04	7.3
5	1.17	1.67E-04	5.9	9.03E-05	8.7
6	1.41	1.57E-04	6.0	9.76E-05	7.9
7	1.66	1.43E-04	6.0	1.05E-04	7.6
8	1.91	1.20E-04	6.7	3.06E-05	9.8
9	2.15	1.08E-04	8.3	3.95E-05	8.9
10	2.40	1.07E-04	7.6	9.63E-05	3.3
11	2.64	1.37E-04	6.7	1.65E-04	7.0
12	2.89	1.04E-04	8.3	1.07E-04	7.4
13	3.14	1.06E-04	3.2	5.51E-05	15.2
14	3.38	1.18E-04	3.4	1.02E-04	8.7
15	3.63	1.24E-04	5.8	9.39E-05	10.0
16	3.87	1.33E-04	5.1	7.85E-05	11.7
17	4.12	1.51E-04	12.4	7.59E-05	12.3
18	4.37	1.20E-04	19.2	8.42E-05	13.4
19	4.61	1.33E-04	17.4	1.06E-04	19.9
20	4.86	9.15E-05	22.9	8.74E-05	23.6
21	5.10	8.78E-05	24.9	3.74E-05	26.2
22	5.35	8.00E-05	26.3	3.52E-05	24.6
23	5.60	6.67E-05	****	8.50E-05	30.5
24	5.84	1.18E-04	21.3	1.20E-04	24.3
25	6.09	1.49E-04	28.6	9.45E-05	****
26	6.33	1.28E-04	36.1	9.03E-05	****
27	6.58	1.40E-04	****	1.13E-04	37.2
28	6.82	1.68E-04	29.6	1.36E-04	30.8
29	7.07	1.21E-04	****	9.85E-05	****
30	7.32	1.46E-04	36.9	1.17E-04	33.6
31	7.56	1.19E-04	****	1.02E-04	****
32	7.81	1.60E-04	32.6	9.85E-05	****
33	8.05	1.27E-04	****	1.15E-04	35.4
34	8.30	1.17E-04	****	1.24E-04	33.3
35	8.55	2.23E-04	21.9	1.12E-04	****
36	8.79	1.49E-04	38.2	1.16E-04	****
37	9.04	1.41E-04	****	1.01E-04	****
38	9.28	1.44E-04	****	1.51E-04	30.4
39	9.53	1.86E-04	****	1.02E-04	****
40	9.78	3.13E-04	39.5	1.05E-04	****
41	10.02	3.15E-04	****	1.08E-04	****
42	10.27	3.48E-04	****	1.75E-04	26.8
43	10.51	5.58E-04	****	1.18E-04	****
44	10.76	5.27E-04	37.9	1.27E-04	****
45	11.01	4.75E-04	****	1.91E-04	31.5
46	11.25	5.93E-04	****	1.84E-04	****

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
47	11.50	6.12E-04	****	2.53E-04	****
48	11.74	7.25E-04	****	4.13E-04	****
49	11.99	7.05E-04	****	3.99E-04	****
50	12.23	7.97E-04	****	5.44E-04	****
51	12.48	9.98E-04	****	4.26E-04	****
52	12.73	8.58E-04	****	5.03E-04	****
53	12.97	6.11E-04	****	5.64E-04	****
54	13.22	8.73E-04	34.0	5.55E-04	****
55	13.46	7.88E-04	****	6.63E-04	****
56	13.71	7.58E-04	****	6.18E-04	****
57	13.96	7.62E-04	****	6.03E-04	****
58	14.20	8.36E-04	****	7.09E-04	****
59	14.45	8.33E-04	****	8.27E-04	****
60	14.69	9.52E-04	****	8.99E-04	****
61	14.94	9.10E-04	****	7.18E-04	****
62	15.19	9.11E-04	****	7.84E-04	****
63	15.43	9.43E-04	****	7.97E-04	****
64	15.68	1.24E-03	****	8.89E-04	****
65	15.92	9.28E-04	****	8.40E-04	****
66	16.17	8.57E-04	****	8.90E-04	****
67	16.41	8.74E-04	****	9.68E-04	****
68	16.66	9.56E-04	****	1.01E-03	****
69	16.91	1.26E-03	36.4	9.82E-04	****
70	17.15	1.16E-03	****	1.07E-03	****
71	17.40	1.16E-03	****	1.10E-03	****
72	17.64	1.23E-03	****	1.30E-03	****
73	17.89	1.33E-03	****	1.21E-03	****
74	18.14	1.25E-03	****	1.27E-03	****
75	18.38	1.25E-03	****	1.27E-03	36.2
76	18.63	1.46E-03	****	1.23E-03	****
77	18.87	1.67E-03	****	1.27E-03	****
78	19.12	1.59E-03	****	1.31E-03	****
79	19.37	1.53E-03	****	1.42E-03	****
80	19.61	1.39E-03	****	1.54E-03	****
81	19.86	1.44E-03	****	1.48E-03	****
82	20.10	1.43E-03	****	1.46E-03	****
83	20.35	1.51E-03	****	1.51E-03	****
84	20.60	1.56E-03	****	1.73E-03	****
85	20.84	1.51E-03	****	1.76E-03	****
86	21.09	1.57E-03	****	1.81E-03	****
87	21.33	1.59E-03	****	1.68E-03	****
88	21.58	1.50E-03	****	1.73E-03	****
89	21.82	1.76E-03	****	1.60E-03	****
90	22.07	1.66E-03	****	1.69E-03	****
91	22.32	1.14E-03	****	1.69E-03	****
92	22.56	1.14E-03	****	1.78E-03	****

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
93	22.81	1.15E-03	****	1.70E-03	****
94	23.05	1.36E-03	****	1.75E-03	****
95	23.30	1.49E-03	****	2.50E-03	32.5
96	23.55	1.52E-03	****	1.80E-03	****
97	23.79	1.49E-03	****	2.04E-03	****
98	24.04	1.58E-03	****	2.10E-03	****
99	24.28	1.78E-03	****	1.82E-03	****
100	24.53	2.06E-03	****	1.78E-03	****
101	24.78	2.76E-03	****	1.82E-03	****
102	25.02	3.02E-03	****	1.95E-03	****
103	25.27	2.88E-03	37.6	2.16E-03	****
104	25.51	2.81E-03	36.7	2.18E-03	****
105	25.76	3.41E-03	28.9	2.27E-03	****
106	26.00	3.89E-03	26.1	2.43E-03	****
107	26.25	2.40E-03	****	2.72E-03	****
108	26.50	5.08E-03	16.6	3.05E-03	****
109	26.74	6.22E-03	14.7	3.20E-03	****
110	26.99	5.07E-03	17.4	3.13E-03	****
111	27.23	5.77E-03	19.0	2.59E-03	****
112	27.48	4.06E-03	25.2	2.66E-03	****
113	27.73	3.08E-03	35.1	3.69E-03	30.8
114	27.97	4.99E-03	21.2	4.15E-03	29.2
115	28.22	2.92E-03	27.7	8.24E-03	13.1
116	28.46	7.85E-03	13.3	6.82E-03	15.9
117	28.71	5.39E-03	16.3	8.92E-03	11.2
118	28.96	3.98E-03	25.7	6.45E-03	15.3
119	29.20	2.99E-03	28.2	7.61E-03	14.5
120	29.45	4.80E-03	19.6	9.36E-03	12.2
121	29.69	4.68E-03	18.8	9.52E-03	11.0
122	29.94	3.83E-03	22.3	3.94E-03	27.9
123	30.25	5.18E-04	****	6.70E-04	****
124	30.49	1.22E-03	32.0	2.77E-03	****
125	30.74	2.49E-03	****	2.94E-03	****
126	30.99	4.25E-03	29.2	4.92E-03	26.9
127	31.23	4.33E-03	26.1	3.63E-03	37.9
128	31.48	5.02E-03	23.8	7.44E-03	19.3
129	31.72	6.33E-03	17.8	3.34E-03	****
130	31.97	6.58E-03	18.4	5.26E-03	30.2
131	32.21	4.61E-03	27.9	5.99E-03	25.5
132	32.46	8.50E-03	14.1	3.44E-03	****
133	32.71	4.08E-03	30.2	3.34E-03	****
134	32.95	2.84E-03	****	3.48E-03	****
135	33.20	2.83E-03	****	3.44E-03	****
136	33.44	3.06E-03	****	4.06E-03	****
137	33.69	3.27E-03	****	3.34E-03	****
138	33.94	2.57E-03	****	2.99E-03	****

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
139	34.18	2.40E-03	****	3.81E-03	38.6
140	34.43	2.33E-03	****	3.07E-03	****
141	34.67	2.66E-03	****	2.89E-03	****
142	34.92	2.83E-03	****	4.36E-03	31.5
143	35.17	2.77E-03	****	3.30E-03	****
144	35.41	2.75E-03	****	3.09E-03	****
145	35.66	5.13E-03	24.0	3.29E-03	****
146	35.90	2.73E-03	****	3.57E-03	****
147	36.15	2.81E-03	****	3.60E-03	****
148	36.40	5.40E-03	22.8	3.65E-03	****
149	36.64	2.97E-03	****	5.19E-03	32.0
150	36.89	3.78E-03	33.7	5.34E-03	29.4
151	37.13	4.57E-03	27.5	8.33E-03	19.0
152	37.38	6.68E-03	19.8	4.68E-03	28.0
153	37.62	4.23E-03	27.1	1.09E-02	13.0
154	37.87	9.52E-03	13.5	1.41E-02	11.8
155	38.12	5.92E-03	19.0	1.54E-02	9.9
156	38.36	1.06E-02	10.9	1.34E-02	12.2
157	38.61	9.64E-03	12.1	1.11E-02	12.6
158	38.85	4.97E-03	23.2	6.24E-03	20.7
159	39.10	8.13E-03	16.6	1.08E-02	13.5
160	39.35	8.05E-03	17.5	8.73E-03	15.9
161	39.59	1.24E-02	10.8	9.64E-03	14.4
162	39.84	1.10E-02	13.4	1.62E-02	9.4
163	40.03	1.68E-02	8.4	2.45E-02	7.1
164	40.33	2.57E-02	6.6	2.85E-02	5.9
165	40.58	3.41E-02	4.9	3.55E-02	5.2
166	40.82	4.15E-02	4.5	3.57E-02	5.1
167	41.07	4.79E-02	4.0	3.49E-02	5.1
168	41.31	5.71E-02	3.5	3.44E-02	5.2
169	41.56	4.80E-02	3.9	2.16E-02	7.9
170	41.81	4.10E-02	4.4	1.43E-02	10.9
171	42.05	4.12E-02	4.5	1.33E-02	12.7
172	42.30	8.53E-02	2.8	1.32E-02	12.2
173	42.54	3.53E-02	5.4	1.29E-02	15.4
174	42.79	2.08E-02	7.9	9.15E-03	22.1
175	43.03	9.79E-03	15.7	2.22E-02	10.5
176	43.28	7.34E-03	19.1	7.04E-02	4.0
177	43.53	1.35E-02	11.9	1.33E-01	2.6
178	43.77	1.94E-02	9.1	1.62E-01	2.1
179	44.02	4.58E-02	4.4	1.78E-01	1.9
180	44.26	9.07E-02	2.6	1.87E-01	1.9
181	44.51	1.31E-01	2.0	1.70E-01	1.9
182	44.76	1.25E-01	2.1	1.68E-01	1.9
183	45.00	1.04E-01	2.3	1.54E-01	2.0
184	45.25	5.50E-02	3.5	1.52E-01	2.0

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
185	45.49	5.57E-02	3.2	1.23E-01	2.3
186	45.74	6.60E-02	2.9	5.85E-02	3.9
187	45.99	5.66E-02	3.2	1.57E-01	2.0
188	46.23	1.08E-01	2.0	2.15E-01	1.6
189	46.48	1.13E-01	2.0	1.85E-01	1.7
190	46.72	1.21E-01	1.9	2.01E-01	1.6
191	46.97	1.33E-01	1.8	2.00E-01	1.6
192	47.21	1.25E-01	1.9	1.85E-01	1.7
193	47.46	1.10E-01	2.0	1.92E-01	1.6
194	47.71	1.02E-01	2.0	1.80E-01	1.6
195	47.95	1.03E-01	2.0	1.61E-01	1.8
196	48.20	9.94E-02	2.1	1.55E-01	1.5
197	48.44	8.44E-02	2.3	1.49E-01	1.3
198	48.69	7.12E-02	2.6	1.45E-01	1.2
199	48.94	3.28E-02	4.5	4.99E-02	3.3
200	49.18	3.08E-02	4.5	1.06E-01	2.3
201	49.43	6.58E-02	2.9	1.25E-01	2.0
202	49.67	9.23E-02	2.3	1.60E-01	1.7
203	49.92	1.30E-01	1.8	1.87E-01	1.6
204	50.17	1.64E-01	1.6	1.98E-01	1.5
205	50.41	1.90E-01	1.5	1.96E-01	1.5
206	50.66	1.91E-01	1.5	1.97E-01	1.5
207	50.90	2.05E-01	1.4	2.01E-01	1.4
208	51.15	2.17E-01	1.3	2.16E-01	1.4
209	51.40	1.98E-01	1.4	2.33E-01	1.3
210	51.64	1.88E-01	1.4	2.33E-01	1.3
211	51.89	1.46E-01	1.7	9.67E-02	2.1
212	52.13	4.08E-02	3.5	1.97E-01	1.4
213	52.38	1.29E-01	1.8	1.81E-01	1.5
214	52.62	1.44E-01	1.7	1.81E-01	1.5
215	52.87	1.54E-01	1.6	1.76E-01	1.5
216	53.12	1.70E-01	1.5	1.72E-01	1.5
217	53.36	1.61E-01	1.5	1.86E-01	1.4
218	53.61	1.25E-01	1.8	1.89E-01	1.5
219	53.85	1.10E-01	1.9	1.32E-01	1.5
220	54.10	1.06E-01	1.9	1.81E-01	1.5
221	54.35	1.19E-01	1.8	1.68E-01	1.5
222	54.59	1.44E-01	1.6	1.98E-01	1.4
223	54.84	2.13E-01	1.3	2.25E-01	1.3
224	55.08	2.16E-01	1.3	2.09E-01	1.3
225	55.33	1.85E-01	1.4	3.14E-01	1.1
226	55.58	3.21E-01	1.1	3.01E-01	1.1
227	55.82	3.30E-01	1.0	2.69E-01	1.1
228	56.07	3.24E-01	1.0	2.79E-01	1.1
229	56.31	3.15E-01	1.0	3.12E-01	1.0
230	56.56	3.16E-01	1.0	3.16E-01	1.0

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
231	56.81	3.18E-01	1.0	3.02E-01	1.0
232	57.05	3.18E-01	1.0	2.88E-01	1.1
233	57.30	3.11E-01	1.0	3.19E-01	1.0
234	57.54	3.30E-01	1.0	3.19E-01	1.0
235	57.79	3.39E-01	1.0	2.87E-01	1.1
236	58.03	2.44E-01	1.2	2.39E-01	1.2
237	58.28	1.71E-01	1.4	2.97E-01	1.0
238	58.53	2.84E-01	1.1	2.67E-01	1.1
239	58.77	2.61E-01	1.1	2.57E-01	1.1
240	59.02	2.33E-01	1.2	2.37E-01	1.2
241	59.26	2.18E-01	1.2	2.39E-01	1.2
242	59.51	2.33E-01	1.2	2.62E-01	1.1
243	59.76	2.61E-01	1.1	2.62E-01	1.1
244	60.00	3.13E-01	1.0	2.67E-01	1.1
245	60.31	8.21E-02	1.9	6.10E-02	2.1
246	60.56	3.26E-01	1.0	4.48E-01	0.8
247	60.80	2.83E-01	1.0	2.99E-01	1.0
248	61.05	3.20E-01	0.9	2.92E-01	1.0
249	61.29	2.91E-01	1.0	2.59E-01	1.1
250	61.54	2.45E-01	1.1	2.28E-01	1.2
251	61.79	2.30E-01	1.1	2.13E-01	1.2
252	62.03	2.17E-01	1.2	2.06E-01	1.2
253	62.28	2.19E-01	1.2	2.08E-01	1.2
254	62.52	2.35E-01	1.1	2.06E-01	1.2
255	62.77	2.32E-01	1.1	2.04E-01	1.2
256	63.02	2.28E-01	1.1	1.99E-01	1.2
257	63.26	2.33E-01	1.1	1.95E-01	1.3
258	63.51	2.37E-01	1.1	1.85E-01	1.3
259	63.75	1.78E-01	1.3	1.55E-01	1.4
260	64.00	1.96E-01	1.2	1.67E-01	1.3
261	64.24	3.33E-01	0.9	2.82E-01	1.0
262	64.49	3.21E-01	1.0	2.65E-01	1.1
263	64.74	2.44E-01	1.1	2.44E-01	1.1
264	64.98	1.82E-01	1.3	2.04E-01	1.2
265	65.23	1.45E-01	1.4	1.80E-01	1.3
266	65.47	1.25E-01	1.5	1.65E-01	1.3
267	65.72	1.19E-01	0.8	1.60E-01	1.3
268	65.97	1.15E-01	0.9	1.43E-01	1.4
269	66.21	1.27E-01	0.8	1.19E-01	1.6
270	66.46	1.56E-01	0.8	1.16E-01	0.9
271	66.70	1.93E-01	0.7	1.34E-01	0.9
272	66.95	1.54E-01	0.7	1.28E-01	0.9
273	67.20	1.75E-01	0.7	1.10E-01	0.9
274	67.44	1.53E-01	0.7	1.56E-01	0.8
275	67.69	1.21E-01	0.8	1.43E-01	0.8
276	67.93	1.05E-01	0.8	1.30E-01	0.8

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
277	68.18	1.05E-01	0.8	1.12E-01	0.9
278	68.42	1.04E-01	0.8	9.89E-02	0.9
279	68.67	1.05E-01	0.8	3.79E-02	1.0
280	68.92	1.00E-01	0.8	7.94E-02	1.0
281	69.16	9.12E-02	0.9	7.08E-02	1.1
282	69.41	8.11E-02	1.0	7.14E-02	1.1
283	69.65	6.73E-02	1.1	6.98E-02	1.1
284	69.90	4.48E-02	1.4	6.05E-02	1.2
285	70.15	3.62E-02	1.5	1.94E-02	2.3
286	70.39	7.36E-02	1.0	3.21E-02	1.6
287	70.64	9.72E-02	0.9	4.17E-02	1.4
288	70.88	1.16E-01	0.8	4.50E-02	1.3
289	71.13	1.20E-01	0.8	4.93E-02	1.2
290	71.38	1.09E-01	0.8	5.46E-02	1.1
291	71.62	9.19E-02	0.8	5.18E-02	1.1
292	71.87	8.02E-02	0.9	4.54E-02	1.2
293	72.11	7.28E-02	0.9	4.18E-02	1.3
294	72.36	5.89E-02	1.0	4.11E-02	1.2
295	72.61	4.61E-02	1.1	3.76E-02	1.3
296	72.85	3.91E-02	1.2	3.52E-02	1.3
297	73.10	2.34E-02	1.6	1.85E-02	1.9
298	73.34	4.01E-02	1.2	2.32E-02	1.6
299	73.59	5.77E-02	1.0	3.70E-02	1.2
300	73.83	8.34E-02	0.8	3.83E-02	1.2
301	74.08	1.06E-01	0.7	4.41E-02	1.1
302	74.33	1.15E-01	0.7	5.39E-02	1.0
303	74.57	1.08E-01	0.7	5.72E-02	1.0
304	74.82	9.59E-02	0.8	5.13E-02	1.0
305	75.06	8.40E-02	0.8	4.41E-02	1.1
306	75.31	6.87E-02	0.9	3.63E-02	1.2
307	75.56	5.21E-02	1.0	3.00E-02	1.3
308	75.80	3.52E-02	1.2	2.73E-02	1.4
309	76.05	2.12E-02	1.6	2.18E-02	1.5
310	76.29	1.04E-02	2.3	7.65E-03	2.8
311	76.54	1.38E-02	2.0	8.41E-03	2.7
312	76.79	1.08E-02	2.2	9.71E-03	2.3
313	77.03	1.07E-02	2.2	9.19E-03	2.4
314	77.28	1.14E-02	2.1	1.28E-02	2.0
315	77.52	1.24E-02	2.0	1.39E-02	1.9
316	77.77	1.24E-02	2.0	1.32E-02	1.9
317	78.01	1.24E-02	2.0	1.18E-02	2.0
318	78.26	1.24E-02	2.0	8.01E-03	2.5
319	78.51	1.08E-02	2.1	4.66E-03	3.3
320	78.75	8.89E-03	2.3	3.90E-03	3.7
321	79.00	7.71E-03	2.5	7.30E-03	1.8
322	79.24	5.71E-03	2.1	4.63E-03	2.8

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
323	79.49	6.73E-03	1.9	5.35E-03	2.3
324	79.74	1.03E-02	1.4	7.94E-03	1.6
325	79.93	1.13E-02	1.3	8.53E-03	1.5
326	80.23	1.14E-02	1.2	8.62E-03	1.4
327	80.47	9.84E-03	1.2	6.30E-03	1.6
328	80.72	6.59E-03	1.5	4.95E-03	1.7
329	80.97	3.96E-03	1.9	4.13E-03	1.9
330	81.21	2.88E-03	2.2	2.65E-03	2.4
331	81.46	2.63E-03	2.3	2.08E-03	2.6
332	81.70	2.56E-03	2.3	2.22E-03	2.5
333	81.95	2.92E-03	2.1	2.34E-03	2.4
334	82.20	4.61E-03	1.7	2.77E-03	2.2
335	82.44	9.08E-03	1.2	6.53E-03	1.4
336	82.69	1.13E-02	1.1	9.81E-03	1.1
337	82.93	9.26E-03	1.2	8.76E-03	1.2
338	83.18	7.80E-03	1.2	8.56E-03	1.2
339	83.42	5.82E-03	1.4	8.24E-03	1.2
340	83.67	5.34E-03	1.5	7.17E-03	1.3
341	83.92	5.21E-03	1.5	5.89E-03	1.4
342	84.16	4.16E-03	1.7	4.00E-03	1.0
343	84.41	3.47E-03	1.9	3.35E-03	1.1
344	84.65	3.15E-03	1.9	2.96E-03	1.1
345	84.90	2.50E-03	1.2	2.56E-03	1.2
346	85.15	1.72E-03	1.5	1.62E-03	1.5
347	85.39	1.05E-03	1.9	7.99E-04	2.3
348	85.64	1.23E-03	1.8	9.33E-04	2.1
349	85.88	1.16E-03	1.8	9.59E-04	2.0
350	86.13	1.07E-03	1.8	8.32E-04	2.1
351	86.38	9.74E-04	2.0	6.90E-04	2.3
352	86.62	9.08E-04	2.0	5.28E-04	2.8
353	86.87	7.60E-04	2.2	4.68E-04	2.9
354	87.11	6.16E-04	2.4	3.77E-04	3.3
355	87.36	4.38E-04	2.9	3.45E-04	3.3
356	87.60	3.54E-04	3.3	2.52E-04	4.1
357	87.85	3.25E-04	3.5	2.24E-04	4.4
358	88.10	3.10E-04	3.5	2.29E-04	4.1
359	88.34	2.31E-04	4.3	1.89E-04	4.9
360	88.59	2.14E-04	4.6	1.74E-04	5.0
361	88.83	2.68E-04	3.8	1.77E-04	5.1
362	89.08	2.56E-04	4.0	1.45E-04	6.0
363	89.33	2.40E-04	4.2	1.69E-04	5.2
364	89.57	2.04E-04	4.7	1.59E-04	5.3
365	89.82	2.03E-04	4.6	1.70E-04	5.0
366	90.06	3.02E-04	3.5	1.78E-04	4.7

Table A-16. Axial distribution of ^{154}Eu in the spine of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	1.64E-04	10.2	1.06E-04	13.4
2	0.37	9.25E-04	15.9	4.24E-04	13.4
3	0.61	2.47E-04	9.1	2.43E-04	10.5
4	0.86	1.65E-04	9.0	1.62E-04	10.0
5	1.11	2.28E-04	6.4	1.78E-04	9.4
6	1.35	1.74E-04	8.8	1.77E-04	10.2
7	1.60	2.07E-04	7.6	1.76E-04	11.1
8	1.84	2.33E-04	7.2	2.02E-04	10.3
9	2.09	2.50E-04	6.6	2.13E-04	9.6
10	2.34	2.28E-04	7.6	1.57E-04	13.4
11	2.58	2.01E-04	8.9	1.67E-04	14.6
12	2.83	2.15E-04	8.3	2.34E-04	10.0
13	3.07	1.52E-04	12.2	1.38E-04	16.1
14	3.32	2.54E-04	8.3	1.51E-04	16.3
15	3.57	1.76E-04	11.2	2.23E-04	12.7
16	3.81	2.24E-04	10.1	1.33E-04	23.3
17	4.06	1.53E-04	14.7	2.41E-04	12.5
18	4.30	1.90E-04	14.6	9.40E-05	29.2
19	4.55	1.98E-04	12.9	2.38E-04	15.5
20	4.80	1.37E-04	19.0	2.83E-04	13.7
21	5.04	9.97E-05	27.0	2.22E-04	19.4
22	5.29	2.15E-04	16.7	1.54E-04	26.7
23	5.53	2.02E-04	16.2	1.30E-04	33.9
24	5.78	1.84E-04	22.3	1.65E-04	27.4
25	6.02	1.00E-04	****	1.14E-04	****
26	6.27	2.35E-04	19.8	1.35E-04	****
27	6.52	1.18E-04	****	1.37E-04	****
28	6.76	1.62E-04	32.3	1.40E-04	****
29	7.01	1.90E-04	32.4	1.96E-04	33.7
30	7.25	1.37E-04	****	1.82E-04	****
31	7.50	1.50E-04	****	1.75E-04	****
32	7.75	1.55E-04	****	2.18E-04	39.8
33	7.99	2.38E-04	32.9	2.05E-04	****
34	8.24	1.76E-04	****	2.21E-04	****
35	8.48	2.02E-04	****	2.30E-04	****
36	8.73	2.21E-04	****	2.72E-04	****
37	8.98	2.67E-04	****	3.11E-04	****
38	9.22	4.05E-04	****	4.78E-04	****
39	9.47	6.81E-04	25.9	5.48E-04	37.8
40	9.71	5.70E-04	35.0	5.05E-04	****
41	9.96	4.96E-04	****	4.93E-04	****
42	10.20	4.56E-04	****	5.52E-04	****
43	10.45	4.85E-04	****	6.06E-04	****
44	10.70	5.07E-04	****	5.76E-04	****
45	10.94	5.41E-04	****	6.76E-04	****
46	11.19	5.70E-04	****	6.03E-04	****
47	11.43	6.24E-04	****	6.73E-04	****
48	11.68	6.00E-04	****	7.15E-04	****
49	11.93	7.52E-04	****	7.66E-04	****
50	12.17	7.44E-04	****	7.99E-04	****
51	12.42	8.19E-04	****	8.49E-04	****

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	7.86E-04	****	7.84E-04	****
53	12.91	1.53E-03	21.6	7.91E-04	****
54	13.16	7.55E-04	****	8.88E-04	35.3
55	13.40	7.54E-04	****	7.69E-04	****
56	13.65	7.42E-04	****	8.16E-04	****
57	13.89	7.97E-04	****	8.28E-04	****
58	14.14	7.84E-04	****	8.10E-04	****
59	14.39	8.06E-04	****	7.98E-04	****
60	14.63	1.06E-03	34.5	8.24E-04	****
61	14.88	8.77E-04	****	8.17E-04	****
62	15.12	8.98E-04	****	8.25E-04	****
63	15.37	1.27E-03	27.3	8.96E-04	****
64	15.61	8.49E-04	****	9.00E-04	****
65	15.86	8.06E-04	****	1.04E-03	39.3
66	16.11	7.63E-04	****	8.94E-04	****
67	16.35	7.86E-04	****	8.84E-04	****
68	16.60	6.93E-04	****	8.98E-04	****
69	16.84	7.06E-04	****	1.05E-03	36.9
70	17.09	7.80E-04	****	8.91E-04	****
71	17.34	7.60E-04	****	8.73E-04	****
72	17.58	7.84E-04	****	8.77E-04	****
73	17.83	8.37E-04	****	8.99E-04	****
74	18.07	8.40E-04	****	9.66E-04	****
75	18.32	8.00E-04	****	9.15E-04	****
76	18.57	8.29E-04	****	1.02E-03	****
77	18.81	7.66E-04	****	9.68E-04	****
78	19.06	8.66E-04	****	9.56E-04	****
79	19.30	7.85E-04	****	1.45E-03	27.9
80	19.55	1.71E-03	20.5	1.03E-03	****
81	19.79	1.23E-03	30.7	1.02E-03	****
82	20.04	1.31E-03	28.1	1.00E-03	****
83	20.29	8.90E-04	****	1.03E-03	****
84	20.53	8.60E-04	****	1.05E-03	****
85	20.78	1.43E-03	30.7	1.07E-03	****
86	21.02	9.91E-04	****	1.39E-03	33.7
87	21.27	1.06E-03	****	1.13E-03	****
88	21.52	1.02E-03	****	1.16E-03	****
89	21.76	1.00E-03	****	1.18E-03	****
90	22.01	1.05E-03	****	1.25E-03	****
91	22.25	1.07E-03	****	1.34E-03	****
92	22.50	1.13E-03	****	1.27E-03	****
93	22.75	1.13E-03	****	1.31E-03	****
94	22.99	1.22E-03	****	1.25E-03	****
95	23.24	1.18E-03	****	1.26E-03	****
96	23.48	1.22E-03	****	1.31E-03	****
97	23.73	1.20E-03	****	1.26E-03	****
98	23.98	1.21E-03	****	1.22E-03	****
99	24.22	1.23E-03	****	1.24E-03	****
100	24.47	1.16E-03	****	1.33E-03	****
101	24.71	2.03E-03	26.8	3.38E-03	19.0
102	24.96	1.75E-03	29.6	3.34E-03	19.0

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	2.84E-03	20.3	5.77E-03	11.4
104	25.45	5.06E-03	13.6	9.56E-03	8.1
105	25.70	6.69E-03	10.9	1.13E-02	7.4
106	25.94	9.75E-03	7.5	1.39E-02	6.3
107	26.19	9.84E-03	8.0	1.41E-02	6.2
108	26.43	1.09E-02	7.4	1.90E-02	4.9
109	26.68	1.19E-02	6.8	1.71E-02	5.4
110	26.93	1.16E-02	6.7	1.75E-02	5.3
111	27.17	9.89E-03	8.0	1.36E-02	7.1
112	27.42	7.84E-03	9.9	1.19E-02	6.9
113	27.66	4.91E-03	14.0	9.97E-03	7.7
114	27.91	5.12E-03	11.9	5.99E-03	10.2
115	28.16	5.02E-03	11.8	6.20E-03	9.9
116	28.40	4.83E-03	11.8	7.18E-03	8.5
117	28.65	7.42E-03	7.8	8.71E-03	6.9
118	28.89	8.15E-03	7.7	9.10E-03	6.6
119	29.14	7.78E-03	7.2	8.45E-03	6.9
120	29.39	8.62E-04	****	1.07E-03	****
121	29.63	2.83E-03	21.6	2.84E-03	23.8
122	29.88	3.20E-03	12.5	1.75E-03	26.0
123	30.12	2.71E-03	14.4	1.46E-03	28.1
124	30.37	3.54E-03	12.6	1.89E-03	23.6
125	30.61	3.04E-03	14.0	2.73E-03	17.3
126	30.86	5.42E-03	9.6	3.59E-03	12.3
127	31.11	6.11E-03	9.5	5.54E-03	9.4
128	31.35	9.29E-03	6.2	5.71E-03	9.5
129	31.60	7.58E-03	7.7	7.59E-03	7.2
130	31.84	7.81E-03	6.9	6.15E-03	8.7
131	32.09	7.25E-03	7.5	6.71E-03	8.1
132	32.34	7.71E-03	7.3	6.77E-03	7.7
133	32.58	8.24E-03	6.6	3.39E-03	14.7
134	32.83	6.36E-03	8.0	2.80E-03	15.8
135	33.07	2.47E-03	18.4	1.47E-03	30.9
136	33.32	9.05E-04	****	9.80E-04	****
137	33.57	8.63E-04	****	1.86E-03	21.7
138	33.81	1.01E-03	****	2.16E-03	20.4
139	34.06	3.68E-03	12.6	2.69E-03	20.0
140	34.30	3.19E-03	15.2	5.48E-03	9.1
141	34.55	3.31E-03	13.4	4.98E-03	10.8
142	34.79	3.30E-03	13.8	5.69E-03	9.1
143	35.04	2.67E-03	17.1	5.42E-03	10.1
144	35.29	1.83E-03	20.8	4.45E-03	9.9
145	35.53	2.85E-03	15.9	3.65E-03	12.5
146	35.78	2.11E-03	17.9	4.37E-03	10.8
147	36.02	3.71E-03	12.2	5.64E-03	8.9
148	36.27	7.94E-03	6.8	8.39E-03	6.9
149	36.52	1.02E-02	5.8	1.05E-02	5.9
150	36.76	1.34E-02	4.9	1.27E-02	5.2
151	37.01	1.33E-02	4.9	1.49E-02	4.6
152	37.25	1.39E-02	5.1	1.57E-02	4.4
153	37.50	1.56E-02	4.4	1.58E-02	4.4

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	1.31E-02	4.9	1.37E-02	4.8
155	37.99	1.25E-02	4.9	1.45E-02	4.4
156	38.24	1.06E-02	5.4	1.32E-02	4.6
157	38.48	7.18E-03	7.2	1.03E-02	5.8
158	38.73	6.07E-03	8.0	9.69E-03	5.7
159	38.98	4.92E-03	10.3	7.81E-03	7.3
160	39.22	7.84E-03	6.7	9.13E-03	6.3
161	39.47	8.47E-03	6.9	1.19E-02	5.3
162	39.71	1.29E-02	5.0	1.46E-02	4.6
163	39.96	1.61E-02	4.3	1.80E-02	4.0
164	40.20	2.00E-02	3.8	2.22E-02	3.5
165	40.45	2.04E-02	3.8	2.23E-02	3.6
166	40.70	2.22E-02	3.5	2.42E-02	3.3
167	40.94	2.03E-02	3.8	2.23E-02	3.5
168	41.19	1.99E-02	3.8	1.85E-02	4.0
169	41.43	1.86E-02	3.9	1.87E-02	3.9
170	41.68	1.68E-02	4.0	1.77E-02	4.1
171	41.93	1.46E-02	4.6	1.81E-02	3.9
172	42.17	1.10E-02	5.5	1.59E-02	4.2
173	42.42	9.50E-03	6.3	1.34E-02	4.7
174	42.66	1.08E-02	5.8	1.24E-02	5.0
175	42.91	1.33E-02	5.0	1.36E-02	4.8
176	43.16	1.35E-02	4.9	1.34E-02	4.9
177	43.40	1.52E-02	4.4	1.43E-02	4.7
178	43.65	1.73E-02	4.0	1.44E-02	4.5
179	43.89	1.63E-02	4.1	1.48E-02	4.5
180	44.14	1.40E-02	4.6	1.29E-02	4.9
181	44.39	1.40E-02	4.4	1.26E-02	4.9
182	44.63	1.20E-02	5.0	1.21E-02	4.8
183	44.88	1.17E-02	5.2	1.31E-02	4.7
184	45.12	1.47E-02	4.5	1.92E-02	3.7
185	45.37	2.20E-02	3.5	2.41E-02	3.4
186	45.61	2.17E-02	3.5	2.53E-02	3.2
187	45.86	2.41E-02	3.2	2.54E-02	3.1
188	46.11	2.40E-02	3.3	2.34E-02	3.3
189	46.35	2.26E-02	3.4	2.23E-02	3.3
190	46.60	2.20E-02	3.3	2.02E-02	3.6
191	46.84	2.03E-02	3.5	1.67E-02	4.0
192	47.09	1.85E-02	3.8	1.64E-02	4.0
193	47.34	1.98E-02	3.5	1.78E-02	3.8
194	47.58	1.77E-02	3.7	1.55E-02	4.1
195	47.83	1.65E-02	3.8	1.59E-02	4.0
196	48.07	1.50E-02	4.3	1.43E-02	4.3
197	48.32	1.44E-02	4.3	1.39E-02	4.4
198	48.57	1.62E-02	4.0	1.31E-02	4.7
199	48.81	1.78E-02	3.8	1.57E-02	4.0
200	49.06	1.96E-02	3.7	1.71E-02	3.9
201	49.30	2.10E-02	3.6	1.84E-02	3.7
202	49.55	2.08E-02	3.5	2.03E-02	3.6
203	49.79	2.24E-02	3.3	2.16E-02	3.4
204	50.04	2.17E-02	3.4	2.09E-02	3.4

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	2.14E-02	3.3	2.18E-02	3.3
206	50.53	1.97E-02	3.6	2.11E-02	3.4
207	50.78	2.12E-02	3.4	2.02E-02	3.4
208	51.02	2.27E-02	3.1	2.17E-02	3.3
209	51.27	2.11E-02	3.5	2.33E-02	3.1
210	51.52	2.27E-02	3.2	2.31E-02	3.2
211	51.76	2.22E-02	3.3	2.31E-02	3.2
212	52.01	2.39E-02	3.1	2.34E-02	3.2
213	52.25	2.14E-02	3.3	2.35E-02	3.1
214	52.50	2.28E-02	3.2	2.11E-02	3.2
215	52.75	2.23E-02	3.2	1.95E-02	3.4
216	52.99	2.20E-02	3.2	1.68E-02	3.7
217	53.24	1.91E-02	3.5	1.71E-02	3.5
218	53.48	1.92E-02	3.4	1.30E-02	4.4
219	53.73	1.89E-02	3.5	1.58E-02	3.8
220	53.98	1.88E-02	3.5	1.78E-02	3.5
221	54.22	1.99E-02	3.3	2.08E-02	3.2
222	54.47	2.26E-02	3.2	2.14E-02	3.2
223	54.71	2.15E-02	3.2	2.15E-02	3.2
224	54.96	2.29E-02	3.0	2.03E-02	3.3
225	55.20	2.21E-02	3.1	1.96E-02	3.4
226	55.45	2.03E-02	3.3	1.90E-02	3.4
227	55.70	1.95E-02	3.3	2.10E-02	3.2
228	55.94	2.18E-02	3.1	2.06E-02	3.2
229	56.19	2.06E-02	3.3	1.95E-02	3.3
230	56.43	2.20E-02	3.1	1.91E-02	3.4
231	56.68	1.94E-02	3.3	1.80E-02	3.6
232	56.93	2.00E-02	3.2	1.85E-02	3.3
233	57.17	2.15E-02	3.1	1.88E-02	3.4
234	57.42	2.15E-02	3.2	2.10E-02	3.2
235	57.66	2.36E-02	3.0	2.18E-02	3.1
236	57.91	2.32E-02	3.0	1.94E-02	3.4
237	58.16	1.93E-02	3.5	1.94E-02	3.4
238	58.40	1.81E-02	3.6	1.83E-02	3.5
239	58.65	1.60E-02	3.8	1.33E-02	4.0
240	58.89	1.57E-02	3.8	1.64E-02	3.7
241	59.14	1.72E-02	3.5	1.48E-02	4.0
242	59.39	1.67E-02	3.7	1.58E-02	3.8
243	59.63	1.86E-02	3.4	1.80E-02	3.4
244	59.88	1.89E-02	3.4	1.86E-02	3.3
245	60.12	1.61E-02	1.9	1.74E-02	3.5
246	60.37	1.49E-02	2.0	1.47E-02	2.0
247	60.61	1.40E-02	2.1	1.30E-02	2.1
248	60.86	1.33E-02	2.1	1.25E-02	2.0
249	61.11	1.46E-02	1.8	1.20E-02	2.0
250	61.35	1.28E-02	1.9	1.17E-02	2.0
251	61.60	1.33E-02	1.9	1.24E-02	1.9
252	61.84	1.32E-02	1.9	1.29E-02	1.8
253	62.09	1.40E-02	1.8	1.25E-02	1.9
254	62.34	1.34E-02	1.8	1.27E-02	1.8
255	62.58	1.35E-02	1.8	1.35E-02	1.7

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	1.40E-02	1.8	1.33E-02	1.8
257	63.07	1.35E-02	1.8	1.38E-02	1.7
258	63.32	1.32E-02	1.8	1.38E-02	1.7
259	63.57	1.23E-02	1.8	1.27E-02	1.7
260	63.81	1.14E-02	1.8	1.16E-02	1.8
261	64.06	9.86E-03	1.9	1.05E-02	1.8
262	64.30	9.31E-03	2.0	9.67E-03	1.9
263	64.55	9.11E-03	1.9	9.20E-03	1.9
264	64.79	8.97E-03	1.9	8.10E-03	2.0
265	65.04	9.08E-03	1.9	7.93E-03	2.0
266	65.29	8.95E-03	1.9	8.37E-03	1.9
267	65.53	9.64E-03	1.8	8.28E-03	1.9
268	65.78	1.08E-02	1.7	9.65E-03	1.8
269	66.02	1.24E-02	1.6	1.12E-02	1.6
270	66.27	1.36E-02	1.5	1.31E-02	1.5
271	66.52	1.37E-02	1.4	1.28E-02	1.5
272	66.76	1.27E-02	1.5	1.19E-02	1.6
273	67.01	1.21E-02	1.5	1.10E-02	1.6
274	67.25	1.20E-02	1.5	1.05E-02	1.6
275	67.50	1.20E-02	1.5	1.06E-02	1.6
276	67.75	1.16E-02	1.5	1.10E-02	1.6
277	67.99	1.14E-02	1.6	1.08E-02	1.6
278	68.24	1.13E-02	1.6	1.08E-02	1.6
279	68.48	1.06E-02	1.7	1.03E-02	1.7
280	68.73	9.90E-03	1.7	1.00E-02	1.7
281	68.98	9.44E-03	1.7	9.78E-03	1.7
282	69.22	8.29E-03	1.9	9.12E-03	1.8
283	69.47	8.21E-03	1.9	8.82E-03	1.8
284	69.71	7.84E-03	2.0	8.46E-03	1.9
285	69.96	7.81E-03	2.0	7.91E-03	1.9
286	70.20	7.61E-03	2.0	7.76E-03	1.9
287	70.45	7.93E-03	1.9	7.54E-03	2.0
288	70.70	7.54E-03	2.0	7.13E-03	2.0
289	70.94	7.37E-03	2.0	7.30E-03	2.0
290	71.19	6.87E-03	2.0	6.88E-03	2.0
291	71.43	1.92E-03	2.0	9.07E-03	1.2
292	71.68	8.71E-03	1.2	8.85E-03	1.2
293	71.93	8.47E-03	1.2	8.66E-03	1.1
294	72.17	8.69E-03	1.1	8.90E-03	1.1
295	72.42	9.17E-03	1.1	9.41E-03	1.1
296	72.66	9.91E-03	1.0	1.02E-02	1.0
297	72.91	1.08E-02	1.0	1.11E-02	1.0
298	73.16	1.11E-02	1.0	1.13E-02	1.0
299	73.40	1.13E-02	1.0	1.11E-02	1.0
300	73.65	1.15E-02	1.0	1.07E-02	1.0
301	73.89	1.04E-02	1.0	1.04E-02	1.0
302	74.14	1.02E-02	1.0	1.01E-02	1.0
303	74.38	9.32E-03	1.0	9.73E-03	1.0
304	74.63	8.36E-03	1.1	8.95E-03	1.0
305	74.88	7.46E-03	1.1	8.89E-03	1.0
306	75.12	7.13E-03	1.1	8.21E-03	1.1

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	6.53E-03	1.2	7.24E-03	1.1
308	75.61	6.51E-03	1.2	6.55E-03	1.2
309	75.86	6.59E-03	1.2	6.37E-03	1.2
310	76.11	6.70E-03	1.1	6.33E-03	1.2
311	76.35	6.93E-03	1.1	6.69E-03	1.1
312	76.60	7.30E-03	1.1	7.21E-03	1.1
313	76.84	7.25E-03	1.1	7.16E-03	1.1
314	77.09	6.74E-03	1.1	6.72E-03	1.1
315	77.34	6.02E-03	1.2	6.23E-03	1.1
316	77.58	1.38E-03	1.2	5.01E-03	0.8
317	77.83	4.03E-03	0.9	4.27E-03	0.8
318	78.07	3.62E-03	0.9	3.90E-03	0.9
319	78.32	3.70E-03	0.9	4.09E-03	0.9
320	78.57	4.12E-03	0.9	4.67E-03	0.8
321	78.81	4.66E-03	0.8	5.50E-03	0.7
322	79.06	4.84E-03	0.8	5.81E-03	0.7
323	79.30	4.71E-03	0.8	5.80E-03	0.7
324	79.55	4.48E-03	0.8	5.45E-03	0.7
325	79.79	3.82E-03	0.8	4.71E-03	0.7
326	80.04	3.21E-03	0.9	3.72E-03	0.8
327	80.29	2.80E-03	0.9	2.90E-03	0.9
328	80.53	2.43E-03	1.0	2.42E-03	1.0
329	80.78	2.28E-03	1.0	2.24E-03	1.0
330	81.02	2.40E-03	1.0	2.30E-03	1.0
331	81.27	2.61E-03	0.9	2.51E-03	0.9
332	81.52	3.03E-03	0.9	2.90E-03	0.9
333	81.76	3.38E-03	0.8	3.25E-03	0.8
334	82.01	3.49E-03	0.8	3.30E-03	0.8
335	82.25	3.70E-03	0.8	3.36E-03	0.8
336	82.50	3.79E-03	0.8	3.37E-03	0.8
337	82.75	3.46E-03	0.8	3.12E-03	0.8
338	82.99	2.99E-03	0.9	2.72E-03	0.9
339	83.24	2.42E-03	0.9	2.21E-03	1.0
340	83.48	1.90E-03	1.0	1.86E-03	1.1
341	83.73	1.52E-03	1.2	1.53E-03	1.2
342	83.97	1.23E-03	1.3	1.33E-03	1.2
343	84.22	1.00E-03	1.4	1.18E-03	1.3
344	84.47	8.49E-04	1.5	1.05E-03	1.4
345	84.71	8.02E-04	1.6	1.00E-03	1.4
346	84.96	7.85E-04	1.6	9.36E-04	1.5
347	85.20	7.55E-04	1.6	9.39E-04	1.5
348	85.45	6.99E-04	1.7	9.57E-04	1.5
349	85.70	6.27E-04	1.8	8.71E-04	1.5
350	85.94	5.51E-04	1.9	7.47E-04	1.6
351	86.19	4.73E-04	2.1	6.22E-04	1.8
352	86.43	3.86E-04	2.3	4.78E-04	2.1
353	86.68	3.39E-04	2.5	4.38E-04	2.2
354	86.93	3.33E-04	2.5	3.96E-04	2.2
355	87.17	3.16E-04	2.5	3.54E-04	2.4
356	87.42	3.21E-04	2.5	3.42E-04	2.4

Table A-17. Axial distribution of ^{60}Co in the bottom connector
of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.22E-02	0.5	6.53E-02	0.3
2	0.37	6.71E-02	0.3	7.76E-02	0.3
3	0.61	7.96E-02	0.3	7.97E-02	0.3
4	0.86	8.07E-02	0.3	8.41E-02	0.3
5	1.11	8.56E-02	0.3	9.16E-02	0.3
6	1.35	9.34E-02	0.3	9.59E-02	0.3
7	1.60	9.54E-02	0.3	9.84E-02	0.3
8	1.84	9.88E-02	0.3	1.06E-01	0.3
9	2.09	1.00E-01	0.3	4.02E-02	0.4
10	2.34	2.53E-02	0.4	1.41E-03	1.9
11	2.58	1.30E-03	5.9	2.14E-03	0.8
12	2.83	1.36E-03	2.6	2.22E-03	0.8
13	3.07	1.29E-03	2.7	2.34E-03	0.8
14	3.32	1.32E-03	1.6	2.35E-03	0.8
15	3.57	7.57E-04	1.4	2.49E-03	0.7
16	3.81	5.87E-04	1.6	2.61E-03	0.7
17	4.06	5.21E-04	1.7	2.76E-03	0.7
18	4.30	4.66E-04	1.7	2.90E-03	0.7
19	4.55	4.17E-04	1.8	3.13E-03	0.7
20	4.80	3.87E-04	1.8	3.36E-03	0.6
21	5.04	3.64E-04	1.9	3.64E-03	0.6
22	5.29	3.46E-04	1.9	3.90E-03	0.6
23	5.53	3.22E-04	2.1	4.13E-03	0.6
24	5.78	3.29E-04	2.0	4.43E-03	0.6
25	6.02	3.24E-04	3.7	4.71E-03	0.5
26	6.27	3.24E-04	2.0	5.02E-03	0.5
27	6.52	3.55E-04	1.9	5.20E-03	0.5
28	6.76	3.50E-04	1.9	5.47E-03	0.5
29	7.01	3.63E-04	1.9	5.91E-03	0.5
30	7.25	3.63E-04	1.9	6.25E-03	0.5
31	7.50	3.84E-04	1.8	6.71E-03	0.5
32	7.75	3.95E-04	1.8	7.24E-03	0.5
33	7.99	4.43E-04	1.7	7.69E-03	0.5
34	8.24	4.73E-04	1.7	7.89E-03	0.5
35	8.48	5.17E-04	1.6	8.30E-03	0.5
36	8.73	5.81E-04	1.5	8.72E-03	0.5
37	8.98	6.89E-04	1.4	9.06E-03	0.5
38	9.22	7.57E-04	1.4	9.40E-03	0.5
39	9.47	7.87E-04	1.4	1.33E-02	0.6
40	9.71	8.68E-04	1.4	1.37E-02	0.6
41	9.96	9.64E-04	1.3	1.39E-02	0.6
42	10.20	1.10E-03	1.3	1.46E-02	0.7
43	10.45	1.26E-03	1.3	1.52E-02	0.7
44	10.70	1.63E-03	1.2	1.26E-02	1.2
45	10.94	4.98E-04	3.4	1.62E-01	0.4
46	11.19	8.84E-04	2.5	2.57E+00	0.2
47	11.43	8.36E-04	2.9	1.20E-02	3.8
48	11.68	7.65E-04	3.7	2.03E-02	0.6
49	11.93	1.01E-03	4.8	2.11E-02	0.5

Table A-17 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	3.39E-01	0.3	2.24E-02	0.5
51	12.42	2.22E+00	0.3	2.23E-02	0.5
52	12.66	2.22E-03	2.2	2.18E-02	0.5
53	12.91	1.97E-03	1.8	2.19E-02	0.5
54	13.16	2.55E-03	1.5	2.23E-02	0.5
55	13.40	3.08E-03	1.3	2.25E-02	0.5
56	13.65	2.30E-03	1.5	2.31E-02	0.5
57	13.89	3.21E-03	0.8	2.36E-02	0.5
58	14.14	2.91E-03	0.8	2.41E-02	0.5
59	14.39	2.79E-03	0.8	2.47E-02	0.5
60	14.63	2.70E-03	0.8	2.52E-02	0.4
61	14.88	2.70E-03	0.8	2.56E-02	0.4
62	15.12	2.67E-03	0.8	2.65E-02	0.4
63	15.37	2.64E-03	0.8	2.70E-02	0.4
64	15.61	2.72E-03	0.8	2.75E-02	0.4
65	15.86	2.83E-03	0.7	2.81E-02	0.4
66	16.11	3.05E-03	0.7	2.85E-02	0.4
67	16.35	3.11E-03	0.7	2.90E-02	0.4
68	16.60	3.04E-03	0.7	2.99E-02	0.4
69	16.84	3.17E-03	0.7	3.05E-02	0.4
70	17.09	3.92E-03	0.6	3.06E-02	0.4
71	17.34	4.38E-03	0.6	3.18E-02	0.4
72	17.58	4.63E-03	0.6	3.19E-02	0.4
73	17.83	4.80E-03	0.6	3.28E-02	0.4
74	18.07	4.60E-03	0.6	3.33E-02	0.4
75	18.32	4.52E-03	0.6	3.42E-02	0.4
76	18.57	6.07E-03	0.5	3.49E-02	0.4
77	18.81	2.24E-02	0.5	3.56E-02	0.4
78	19.06	2.38E-02	0.5	3.59E-02	0.4
79	19.30	2.39E-02	0.5	3.64E-02	0.4
80	19.55	2.52E-02	0.5	3.74E-02	0.4
81	19.79	2.50E-02	0.5	3.82E-02	0.4
82	20.04	2.55E-02	0.5	3.80E-02	0.4
83	20.29	2.53E-02	0.5	3.86E-02	0.4
84	20.53	2.68E-02	0.5	3.91E-02	0.4
85	20.78	1.08E-01	0.5	3.91E-02	0.4
86	21.02	8.35E-03	6.3	3.90E-02	0.4
87	21.27	6.65E-04	3.3	3.96E-02	0.4
88	21.52	6.46E-04	31.6	4.01E-02	0.4
89	21.76	1.42E-03	****	4.03E-02	0.4
90	22.01	6.04E-04	4.5	4.11E-02	0.4
91	22.25	2.30E-03	1.6	4.11E-02	0.4
92	22.50	2.34E-03	1.7	4.18E-02	0.4
93	22.75	2.58E-03	1.8	4.20E-02	0.4
94	22.99	4.52E-04	3.4	3.34E-02	0.7
95	23.24	3.92E-04	3.5	3.43E-02	0.7
96	23.48	1.95E-02	0.6	3.54E-02	0.9
97	23.73	7.20E-02	0.6	3.58E-02	0.8
98	23.98	7.74E-02	0.6	3.63E-02	0.7

Table A-18. Axial distribution of ^{106}Ru in the bottom connector
of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.50E-03	****	3.80E-03	****
2	0.37	3.80E-03	****	4.16E-03	****
3	0.61	4.20E-03	****	4.37E-03	****
4	0.86	4.49E-03	****	4.61E-03	****
5	1.11	4.66E-03	****	5.06E-03	****
6	1.35	4.98E-03	****	5.41E-03	****
7	1.60	5.14E-03	****	5.69E-03	****
8	1.84	5.36E-03	****	5.83E-03	****
9	2.09	5.28E-03	****	3.82E-03	****
10	2.34	2.94E-03	****	2.36E-03	****
11	2.58	5.98E-03	****	1.08E-03	****
12	2.83	2.58E-03	****	1.01E-03	****
13	3.07	4.41E-03	26.9	9.61E-04	****
14	3.32	1.53E-03	****	9.20E-04	****
15	3.57	9.23E-04	****	8.90E-04	****
16	3.81	8.51E-04	****	8.65E-04	****
17	4.06	7.88E-04	****	8.57E-04	****
18	4.30	7.33E-04	****	8.51E-04	****
19	4.55	7.03E-04	****	8.47E-04	****
20	4.80	6.70E-04	****	8.47E-04	****
21	5.04	6.43E-04	****	8.56E-04	****
22	5.29	6.19E-04	****	8.56E-04	****
23	5.53	6.01E-04	****	8.74E-04	****
24	5.78	5.88E-04	****	8.74E-04	****
25	6.02	1.05E-03	****	8.88E-04	****
26	6.27	5.65E-04	****	8.94E-04	****
27	6.52	5.57E-04	****	9.06E-04	****
28	6.76	5.67E-04	****	9.28E-04	****
29	7.01	5.47E-04	****	9.55E-04	****
30	7.25	5.63E-04	****	1.00E-03	****
31	7.50	5.81E-04	****	1.04E-03	****
32	7.75	5.85E-04	****	1.09E-03	****
33	7.99	6.07E-04	****	1.16E-03	****
34	8.24	6.33E-04	****	1.23E-03	****
35	8.48	6.64E-04	****	1.32E-03	****
36	8.73	7.20E-04	****	1.42E-03	****
37	8.98	7.57E-04	****	1.56E-03	****
38	9.22	8.29E-04	****	1.72E-03	****
39	9.47	9.06E-04	****	3.08E-03	****
40	9.71	9.90E-04	****	3.37E-03	****
41	9.96	1.11E-03	****	3.92E-03	****
42	10.20	1.27E-03	****	4.60E-03	****
43	10.45	1.46E-03	****	5.69E-03	****
44	10.70	1.72E-03	****	8.85E-03	****
45	10.94	2.49E-03	****	2.21E-02	****
46	11.19	3.03E-03	****	1.47E-01	****
47	11.43	3.72E-03	****	2.62E-02	****
48	11.68	4.89E-03	****	5.40E-03	****
49	11.93	8.07E-03	****	4.57E-03	****

Table A-18 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	2.81E-02	****	4.13E-03	****
51	12.42	1.31E-01	****	3.75E-03	****
52	12.66	5.77E-03	****	3.54E-03	****
53	12.91	4.14E-03	****	3.36E-03	****
54	13.16	3.31E-03	****	3.23E-03	****
55	13.40	2.83E-03	****	3.12E-03	****
56	13.65	2.44E-03	****	3.06E-03	****
57	13.89	1.70E-03	****	3.02E-03	****
58	14.14	1.50E-03	****	2.95E-03	****
59	14.39	1.37E-03	****	2.94E-03	****
60	14.63	1.30E-03	****	2.93E-03	****
61	14.88	1.21E-03	****	2.98E-03	****
62	15.12	1.13E-03	****	2.96E-03	****
63	15.37	1.07E-03	****	3.02E-03	****
64	15.61	1.03E-03	****	3.00E-03	****
65	15.86	1.00E-03	****	3.02E-03	****
66	16.11	9.69E-04	****	3.06E-03	****
67	16.35	9.54E-04	****	3.07E-03	****
68	16.60	9.22E-04	****	3.12E-03	****
69	16.84	9.19E-04	****	3.13E-03	****
70	17.09	9.40E-04	****	3.14E-03	****
71	17.34	9.48E-04	****	3.20E-03	****
72	17.58	9.48E-04	****	3.24E-03	****
73	17.83	9.58E-04	****	3.24E-03	****
74	18.07	9.51E-04	****	3.29E-03	****
75	18.32	9.56E-04	****	3.33E-03	****
76	18.57	1.02E-03	****	3.42E-03	****
77	18.81	3.58E-03	****	3.46E-03	****
78	19.06	3.66E-03	****	3.55E-03	****
79	19.30	3.78E-03	****	3.60E-03	****
80	19.55	3.79E-03	****	3.79E-03	****
81	19.79	3.86E-03	****	4.18E-03	****
82	20.04	4.01E-03	****	4.55E-03	****
83	20.29	4.35E-03	****	5.17E-03	****
84	20.53	4.71E-03	****	5.53E-03	****
85	20.78	1.94E-02	****	4.46E-03	****
86	21.02	3.68E-02	****	3.68E-03	****
87	21.27	1.66E-03	****	3.69E-03	****
88	21.52	1.34E-02	****	3.77E-03	****
89	21.76	5.85E-02	****	3.94E-03	****
90	22.01	2.16E-03	****	4.17E-03	****
91	22.25	2.78E-03	****	4.61E-03	****
92	22.50	3.74E-03	****	5.13E-03	****
93	22.75	5.17E-03	****	5.59E-03	****
94	22.99	1.78E-03	****	7.25E-03	****
95	23.24	1.35E-03	****	7.33E-03	****
96	23.48	4.24E-03	****	1.93E-02	****
97	23.73	1.50E-02	****	1.50E-02	****
98	23.98	1.70E-02	****	1.00E-02	39.9

Table A-19. Axial distribution of ^{110m}Ag in the bottom connector
of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	8.85E-04	****	1.52E-03	****
2	0.37	1.55E-03	****	1.70E-03	****
3	0.61	1.74E-03	****	1.78E-03	****
4	0.86	1.80E-03	****	1.86E-03	****
5	1.11	1.91E-03	****	2.00E-03	****
6	1.35	2.01E-03	****	2.11E-03	****
7	1.60	2.07E-03	****	2.18E-03	****
8	1.84	2.14E-03	****	2.26E-03	****
9	2.09	2.12E-03	****	1.31E-03	****
10	2.34	1.02E-03	****	4.85E-04	****
11	2.58	1.54E-03	****	2.72E-04	****
12	2.83	6.94E-04	****	2.48E-04	****
13	3.07	7.10E-04	****	2.30E-04	****
14	3.32	4.14E-04	****	2.16E-04	****
15	3.57	2.39E-04	****	2.06E-04	****
16	3.81	2.08E-04	****	2.01E-04	****
17	4.06	1.83E-04	****	1.99E-04	****
18	4.30	1.64E-04	****	2.00E-04	****
19	4.55	1.47E-04	****	2.00E-04	****
20	4.80	1.35E-04	****	2.04E-04	****
21	5.04	1.26E-04	****	2.08E-04	****
22	5.29	1.17E-04	****	2.17E-04	****
23	5.53	1.09E-04	****	2.19E-04	****
24	5.78	1.07E-04	****	2.26E-04	****
25	6.02	2.23E-04	39.4	2.33E-04	****
26	6.27	1.03E-04	****	2.37E-04	****
27	6.52	1.04E-04	****	2.46E-04	****
28	6.76	1.03E-04	****	2.53E-04	****
29	7.01	1.02E-04	****	2.66E-04	****
30	7.25	1.03E-04	****	2.80E-04	****
31	7.50	1.09E-04	****	2.93E-04	****
32	7.75	1.12E-04	****	3.10E-04	****
33	7.99	1.16E-04	****	3.26E-04	****
34	8.24	1.23E-04	****	3.45E-04	****
35	8.48	1.34E-04	****	3.68E-04	****
36	8.73	1.41E-04	****	3.97E-04	****
37	8.98	1.59E-04	****	4.33E-04	****
38	9.22	1.73E-04	****	4.79E-04	****
39	9.47	1.94E-04	****	8.33E-04	****
40	9.71	2.17E-04	****	9.11E-04	****
41	9.96	2.48E-04	****	1.03E-03	****
42	10.20	2.89E-04	****	1.25E-03	****
43	10.45	3.39E-04	****	1.60E-03	****
44	10.70	4.16E-04	****	2.54E-03	****
45	10.94	5.38E-04	****	7.53E-03	****
46	11.19	6.92E-04	****	5.71E-02	****
47	11.43	1.25E-03	33.5	7.18E-03	****
48	11.68	1.29E-03	****	1.59E-03	****
49	11.93	2.25E-03	****	1.32E-03	****

Table A-19 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	1.04E-02	****	1.21E-03	****
51	12.42	5.14E-02	****	1.11E-03	****
52	12.66	1.68E-03	****	1.03E-03	****
53	12.91	1.13E-03	****	1.00E-03	****
54	13.16	8.57E-04	****	9.83E-04	****
55	13.40	7.08E-04	****	9.64E-04	****
56	13.65	5.90E-04	****	9.69E-04	****
57	13.89	4.39E-04	****	9.69E-04	****
58	14.14	3.80E-04	****	9.69E-04	****
59	14.39	3.43E-04	****	9.79E-04	****
60	14.63	3.21E-04	****	9.88E-04	****
61	14.88	2.98E-04	****	9.88E-04	****
62	15.12	2.82E-04	****	1.01E-03	****
63	15.37	2.72E-04	****	1.01E-03	****
64	15.61	2.63E-04	****	1.02E-03	****
65	15.86	2.58E-04	****	1.02E-03	****
66	16.11	2.58E-04	****	1.04E-03	****
67	16.35	2.55E-04	****	1.05E-03	****
68	16.60	2.49E-04	****	1.06E-03	****
69	16.84	2.54E-04	****	1.08E-03	****
70	17.09	2.68E-04	****	1.09E-03	****
71	17.34	2.79E-04	****	1.10E-03	****
72	17.58	2.82E-04	****	1.11E-03	****
73	17.83	2.88E-04	****	1.14E-03	****
74	18.07	2.82E-04	****	1.14E-03	****
75	18.32	2.83E-04	****	1.15E-03	****
76	18.57	3.17E-04	****	1.18E-03	****
77	18.81	1.15E-03	****	1.20E-03	****
78	19.06	1.19E-03	****	1.22E-03	****
79	19.30	1.22E-03	****	1.23E-03	****
80	19.55	1.23E-03	****	1.26E-03	****
81	19.79	1.25E-03	****	1.32E-03	****
82	20.04	1.28E-03	****	1.39E-03	****
83	20.29	1.32E-03	****	1.50E-03	****
84	20.53	1.41E-03	****	1.56E-03	****
85	20.78	5.86E-03	****	1.39E-03	****
86	21.02	6.97E-03	****	1.28E-03	****
87	21.27	3.17E-04	****	1.28E-03	****
88	21.52	3.44E-03	****	1.30E-03	****
89	21.76	0.00E-01	****	1.33E-03	****
90	22.01	4.14E-04	****	1.38E-03	****
91	22.25	5.37E-04	****	1.45E-03	****
92	22.50	6.88E-04	****	1.53E-03	****
93	22.75	9.55E-04	****	1.61E-03	****
94	22.99	2.54E-04	****	2.07E-03	****
95	23.24	2.08E-04	****	2.12E-03	****
96	23.48	1.21E-03	****	4.06E-03	****
97	23.73	4.53E-03	****	3.18E-03	****
98	23.98	4.92E-03	****	2.29E-03	****

Table A-20. Axial distribution of ^{125}Sb in the bottom connector
of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.77E-04	****	3.88E-04	****
2	0.37	3.94E-04	****	4.18E-04	****
3	0.61	4.25E-04	****	4.51E-04	****
4	0.86	4.56E-04	****	6.57E-04	34.3
5	1.11	4.89E-04	****	5.21E-04	****
6	1.35	5.13E-04	****	5.62E-04	****
7	1.60	5.31E-04	****	5.86E-04	****
8	1.84	5.50E-04	****	5.96E-04	****
9	2.09	5.44E-04	****	4.16E-04	****
10	2.34	3.38E-04	****	2.99E-04	****
11	2.58	6.81E-04	****	1.29E-04	****
12	2.83	3.13E-04	****	1.21E-04	****
13	3.07	3.10E-04	****	1.16E-04	****
14	3.32	1.85E-04	****	1.11E-04	****
15	3.57	1.13E-04	****	1.08E-04	****
16	3.81	1.05E-04	****	1.05E-04	****
17	4.06	9.93E-05	****	1.04E-04	****
18	4.30	9.43E-05	****	1.03E-04	****
19	4.55	9.08E-05	****	1.03E-04	****
20	4.80	8.67E-05	****	1.03E-04	****
21	5.04	8.33E-05	****	1.04E-04	****
22	5.29	8.21E-05	****	1.03E-04	****
23	5.53	7.93E-05	****	1.07E-04	****
24	5.78	7.80E-05	****	1.06E-04	****
25	6.02	1.69E-04	39.4	1.08E-04	****
26	6.27	7.69E-05	****	1.10E-04	****
27	6.52	7.65E-05	****	1.81E-04	29.3
28	6.76	9.32E-05	39.2	1.16E-04	****
29	7.01	7.80E-05	****	1.21E-04	****
30	7.25	8.12E-05	****	1.25E-04	****
31	7.50	8.48E-05	****	1.31E-04	****
32	7.75	8.80E-05	****	1.37E-04	****
33	7.99	9.09E-05	****	1.45E-04	****
34	8.24	9.47E-05	****	1.54E-04	****
35	8.48	9.90E-05	****	1.64E-04	****
36	8.73	1.04E-04	****	1.77E-04	****
37	8.98	1.11E-04	****	1.94E-04	****
38	9.22	1.18E-04	****	2.13E-04	****
39	9.47	1.27E-04	****	3.78E-04	****
40	9.71	1.38E-04	****	4.11E-04	****
41	9.96	2.15E-04	33.1	4.65E-04	****
42	10.20	1.71E-04	****	5.35E-04	****
43	10.45	1.93E-04	****	6.48E-04	****
44	10.70	2.20E-04	****	9.72E-04	****
45	10.94	3.32E-04	****	2.33E-03	****
46	11.19	3.91E-04	****	1.53E-02	****
47	11.43	4.59E-04	****	3.12E-03	****
48	11.68	5.72E-04	****	6.03E-04	****
49	11.93	8.91E-04	****	5.14E-04	****

Table A-20 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	2.82E-03	****	4.68E-04	****
51	12.42	1.36E-02	****	4.30E-04	****
52	12.66	6.49E-04	****	4.09E-04	****
53	12.91	4.76E-04	****	3.88E-04	****
54	13.16	3.92E-04	****	3.76E-04	****
55	13.40	3.46E-04	****	3.68E-04	****
56	13.65	3.08E-04	****	3.57E-04	****
57	13.89	2.05E-04	****	3.52E-04	****
58	14.14	1.85E-04	****	3.47E-04	****
59	14.39	1.74E-04	****	3.43E-04	****
60	14.63	1.69E-04	****	3.39E-04	****
61	14.88	1.60E-04	****	3.42E-04	****
62	15.12	1.51E-04	****	3.39E-04	****
63	15.37	1.44E-04	****	3.38E-04	****
64	15.61	1.40E-04	****	3.35E-04	****
65	15.86	1.35E-04	****	3.37E-04	****
66	16.11	1.30E-04	****	3.40E-04	****
67	16.35	1.28E-04	****	3.41E-04	****
68	16.60	1.25E-04	****	3.46E-04	****
69	16.84	1.25E-04	****	3.53E-04	****
70	17.09	1.24E-04	****	3.49E-04	****
71	17.34	1.24E-04	****	3.53E-04	****
72	17.58	1.24E-04	****	3.62E-04	****
73	17.83	1.24E-04	****	3.60E-04	****
74	18.07	1.24E-04	****	3.71E-04	****
75	18.32	1.24E-04	****	3.74E-04	****
76	18.57	1.30E-04	****	3.87E-04	****
77	18.81	4.39E-04	****	3.92E-04	****
78	19.06	4.55E-04	****	4.09E-04	****
79	19.30	4.66E-04	****	4.19E-04	****
80	19.55	4.66E-04	****	4.53E-04	****
81	19.79	4.81E-04	****	6.74E-04	36.5
82	20.04	5.07E-04	****	1.13E-03	19.0
83	20.29	5.72E-04	****	2.66E-03	10.1
84	20.53	8.05E-04	36.5	3.85E-03	8.0
85	20.78	3.73E-03	32.1	2.28E-03	9.8
86	21.02	5.90E-03	****	4.29E-04	****
87	21.27	2.99E-04	****	4.30E-04	****
88	21.52	2.65E-03	****	4.44E-04	****
89	21.76	7.13E-03	****	4.81E-04	****
90	22.01	5.72E-04	22.9	5.23E-04	****
91	22.25	1.04E-03	16.1	5.97E-04	****
92	22.50	1.63E-03	13.7	6.82E-04	****
93	22.75	2.32E-03	12.4	7.65E-04	****
94	22.99	1.11E-03	11.8	9.96E-04	****
95	23.24	5.76E-04	15.7	1.02E-03	****
96	23.48	5.81E-04	****	3.79E-03	37.6
97	23.73	1.99E-03	****	2.33E-03	****
98	23.98	2.28E-03	****	1.29E-03	****

Table A-21. Axial distribution of ^{134}Cs in the bottom connector
of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	1.19E-03	4.4	6.07E-04	11.3
2	0.37	1.08E-03	6.6	1.92E-04	****
3	0.61	1.96E-04	****	2.05E-04	****
4	0.86	2.07E-04	****	2.16E-04	****
5	1.11	2.17E-04	****	2.34E-04	****
6	1.35	2.29E-04	****	2.51E-04	****
7	1.60	2.39E-04	****	2.64E-04	****
8	1.84	2.48E-04	****	3.58E-04	35.0
9	2.09	2.44E-04	****	1.78E-04	****
10	2.34	1.39E-04	****	1.16E-04	32.4
11	2.58	2.72E-04	****	5.09E-05	****
12	2.83	1.23E-04	****	3.80E-05	38.8
13	3.07	1.22E-04	****	4.52E-05	****
14	3.32	7.32E-05	****	4.34E-05	****
15	3.57	4.43E-05	****	7.71E-05	25.5
16	3.81	4.02E-05	****	4.08E-05	****
17	4.06	3.73E-05	****	4.07E-05	****
18	4.30	4.39E-05	37.6	4.00E-05	****
19	4.55	3.35E-05	****	9.45E-05	19.7
20	4.80	3.20E-05	****	9.74E-05	19.0
21	5.04	4.06E-05	35.5	4.03E-05	****
22	5.29	3.16E-05	31.4	9.10E-05	20.9
23	5.53	2.87E-05	****	4.17E-05	****
24	5.78	3.72E-05	35.0	1.01E-04	19.0
25	6.02	5.12E-05	****	4.14E-05	****
26	6.27	5.52E-05	22.7	4.18E-05	****
27	6.52	2.68E-05	****	4.25E-05	****
28	6.76	2.74E-05	****	4.42E-05	****
29	7.01	3.82E-05	32.8	6.07E-05	34.8
30	7.25	2.48E-05	34.2	4.70E-05	****
31	7.50	2.76E-05	****	9.29E-05	24.7
32	7.75	2.84E-05	****	7.00E-05	34.6
33	7.99	3.79E-05	36.2	5.45E-05	****
34	8.24	4.33E-05	32.8	5.81E-05	****
35	8.48	3.24E-05	****	9.01E-05	32.3
36	8.73	3.46E-05	****	8.86E-05	35.4
37	8.98	3.67E-05	****	7.38E-05	****
38	9.22	3.97E-05	****	8.19E-05	****
39	9.47	4.31E-05	****	1.46E-04	****
40	9.71	4.73E-05	****	1.60E-04	****
41	9.96	5.28E-05	****	1.84E-04	****
42	10.20	6.05E-05	****	2.15E-04	****
43	10.45	6.99E-05	****	2.69E-04	****
44	10.70	1.00E-04	38.2	4.09E-04	****
45	10.94	1.46E-04	37.8	8.36E-04	39.8
46	11.19	2.15E-04	31.9	9.63E-03	33.8
47	11.43	2.95E-04	28.6	1.23E-03	****
48	11.68	2.29E-04	****	7.41E-04	13.2
49	11.93	3.78E-04	****	1.11E-03	7.6

Table A-21 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	3.20E-03	15.1	9.13E-04	8.4
51	12.42	8.01E-03	35.6	1.20E-03	6.0
52	12.66	2.74E-04	****	1.13E-03	6.2
53	12.91	9.05E-04	8.5	1.22E-03	5.5
54	13.16	1.06E-03	6.0	1.17E-03	5.3
55	13.40	1.12E-03	5.0	1.24E-03	4.9
56	13.65	1.11E-03	4.6	1.48E-03	4.5
57	13.89	1.09E-03	3.3	1.47E-03	4.0
58	14.14	9.16E-04	3.4	1.48E-03	4.1
59	14.39	1.10E-03	2.8	1.39E-03	4.2
60	14.63	1.25E-03	2.4	1.69E-03	3.7
61	14.88	1.38E-03	2.1	1.90E-03	3.3
62	15.12	1.44E-03	1.9	1.77E-03	3.5
63	15.37	1.33E-03	1.9	1.99E-03	3.0
64	15.61	1.48E-03	1.7	1.82E-03	3.5
65	15.86	1.44E-03	1.7	1.96E-03	3.2
66	16.11	1.52E-03	1.6	2.18E-03	3.0
67	16.35	1.66E-03	1.5	2.19E-03	3.0
68	16.60	1.72E-03	1.4	2.56E-03	2.6
69	16.84	1.66E-03	1.5	3.37E-03	2.1
70	17.09	1.85E-03	1.4	2.54E-03	2.7
71	17.34	1.91E-03	1.3	2.87E-03	2.5
72	17.58	1.95E-03	1.3	3.56E-03	2.1
73	17.83	2.04E-03	1.3	3.10E-03	2.3
74	18.07	2.07E-03	1.3	3.34E-03	2.2
75	18.32	2.19E-03	1.2	3.81E-03	2.0
76	18.57	2.47E-03	1.2	5.19E-03	1.6
77	18.81	8.72E-03	1.1	5.40E-03	1.6
78	19.06	1.05E-02	1.0	7.12E-03	1.3
79	19.30	1.14E-02	1.0	7.24E-03	1.3
80	19.55	1.01E-02	1.1	1.07E-02	1.0
81	19.79	1.15E-02	1.0	2.05E-02	0.7
82	20.04	1.31E-02	0.9	3.12E-02	0.5
83	20.29	2.20E-02	0.7	5.00E-02	0.4
84	20.53	2.68E-02	0.6	6.03E-02	0.4
85	20.78	1.52E-01	0.5	2.57E-02	0.6
86	21.02	1.04E-01	1.8	2.53E-03	3.1
87	21.27	8.24E-03	1.0	2.82E-03	2.9
88	21.52	8.92E-03	10.2	3.90E-03	2.2
89	21.76	1.54E-02	15.3	7.34E-03	1.4
90	22.01	8.64E-03	1.3	1.29E-02	1.0
91	22.25	3.60E-02	0.4	2.23E-02	0.7
92	22.50	6.26E-02	0.3	3.38E-02	0.6
93	22.75	1.08E-01	0.3	4.20E-02	0.5
94	22.99	2.36E-02	0.5	3.17E-02	0.9
95	23.24	1.34E-02	0.6	2.42E-02	1.0
96	23.48	3.72E-03	2.6	3.84E-01	0.3
97	23.73	2.07E-02	1.8	2.49E-01	0.3
98	23.98	6.85E-02	0.8	7.02E-02	0.5

Table A-22. Axial distribution of ^{137}Cs in the bottom connector
of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	9.32E-04	3.5	4.26E-04	9.5
2	0.37	8.02E-04	6.0	9.81E-05	37.9
3	0.61	1.82E-04	31.3	1.26E-04	****
4	0.86	1.28E-04	****	1.34E-04	****
5	1.11	1.34E-04	****	1.44E-04	****
6	1.35	1.42E-04	****	1.56E-04	****
7	1.60	1.48E-04	****	1.62E-04	****
8	1.84	1.52E-04	****	1.68E-04	****
9	2.09	1.51E-04	****	1.10E-04	****
10	2.34	6.71E-05	38.9	6.91E-05	****
11	2.58	1.58E-04	****	4.32E-05	33.6
12	2.83	9.15E-05	36.9	2.91E-05	****
13	3.07	7.33E-05	****	5.91E-05	21.9
14	3.32	4.34E-05	****	6.46E-05	19.1
15	3.57	2.62E-05	****	5.72E-05	21.0
16	3.81	3.98E-05	21.3	3.41E-05	25.0
17	4.06	2.24E-05	****	1.99E-05	38.7
18	4.30	3.50E-05	21.2	3.80E-05	30.1
19	4.55	2.02E-05	****	3.67E-05	31.7
20	4.80	3.66E-05	24.5	3.97E-05	28.8
21	5.04	2.60E-05	27.9	2.50E-05	****
22	5.29	4.15E-05	19.8	2.52E-05	****
23	5.53	2.92E-05	27.1	3.13E-05	38.1
24	5.78	3.20E-05	18.5	2.54E-05	****
25	6.02	2.50E-05	39.6	4.71E-05	25.5
26	6.27	2.08E-05	26.1	4.25E-05	28.5
27	6.52	1.83E-05	29.3	2.61E-05	****
28	6.76	2.02E-05	26.7	2.67E-05	****
29	7.01	1.90E-05	27.7	3.27E-05	39.5
30	7.25	1.31E-05	38.3	2.85E-05	****
31	7.50	1.63E-05	****	2.97E-05	****
32	7.75	1.93E-05	39.9	5.50E-05	26.5
33	7.99	3.57E-05	22.3	7.07E-05	21.6
34	8.24	2.07E-05	28.4	4.53E-05	36.1
35	8.48	1.85E-05	****	3.72E-05	****
36	8.73	1.96E-05	****	3.97E-05	****
37	8.98	2.10E-05	****	4.35E-05	****
38	9.22	2.95E-05	36.0	4.81E-05	****
39	9.47	3.86E-05	29.8	8.69E-05	****
40	9.71	3.48E-05	36.5	9.54E-05	****
41	9.96	3.02E-05	****	1.09E-04	****
42	10.20	3.46E-05	****	1.27E-04	****
43	10.45	4.01E-05	****	1.58E-04	****
44	10.70	4.67E-05	****	2.48E-04	****
45	10.94	9.29E-05	33.7	1.61E-03	14.3
46	11.19	2.22E-04	13.6	5.39E-03	36.9
47	11.43	2.36E-04	16.0	9.89E-04	35.9
48	11.68	1.34E-04	****	4.44E-04	16.2
49	11.93	3.25E-04	32.2	3.25E-04	14.5

Table A-22 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	3.82E-03	8.7	2.61E-04	16.5
51	12.42	3.77E-03	****	3.54E-04	11.4
52	12.66	3.11E-04	24.5	3.11E-04	12.1
53	12.91	3.94E-04	10.7	3.21E-04	11.3
54	13.16	3.63E-04	9.4	4.58E-04	8.0
55	13.40	3.77E-04	7.9	3.80E-04	9.2
56	13.65	3.09E-04	8.2	3.58E-04	9.6
57	13.89	2.74E-04	7.8	5.19E-04	6.9
58	14.14	3.20E-04	5.6	3.18E-04	10.2
59	14.39	3.39E-04	5.1	2.84E-04	11.3
60	14.63	3.53E-04	4.4	4.45E-04	7.6
61	14.88	3.78E-04	4.3	7.10E-04	5.0
62	15.12	4.56E-04	3.2	5.06E-04	6.8
63	15.37	2.90E-04	4.3	5.39E-04	6.5
64	15.61	3.39E-04	3.6	4.01E-04	8.5
65	15.86	3.28E-04	3.7	5.59E-04	6.3
66	16.11	3.53E-04	3.4	7.81E-04	5.7
67	16.35	4.49E-04	2.8	7.21E-04	5.0
68	16.60	4.37E-04	2.9	8.31E-04	4.5
69	16.84	3.45E-04	3.4	1.47E-03	2.9
70	17.09	4.71E-04	2.6	6.55E-04	5.5
71	17.34	4.37E-04	2.8	8.94E-04	4.8
72	17.58	4.11E-04	3.0	1.27E-03	3.3
73	17.83	4.43E-04	2.8	1.08E-03	3.8
74	18.07	4.46E-04	2.8	1.26E-03	3.4
75	18.32	5.45E-04	2.5	1.48E-03	3.0
76	18.57	5.96E-04	2.3	2.50E-03	2.0
77	18.81	2.12E-03	2.3	2.62E-03	1.9
78	19.06	3.19E-03	1.9	4.00E-03	1.5
79	19.30	4.18E-03	1.4	3.82E-03	1.4
80	19.55	2.79E-03	1.9	6.39E-03	1.0
81	19.79	3.56E-03	1.8	1.36E-02	0.6
82	20.04	4.77E-03	1.3	2.15E-02	0.5
83	20.29	1.14E-02	0.7	3.55E-02	0.4
84	20.53	1.52E-02	0.6	4.31E-02	0.3
85	20.78	9.43E-02	0.5	1.81E-02	0.5
86	21.02	7.07E-02	1.6	1.74E-03	2.9
87	21.27	5.73E-03	0.9	1.74E-03	3.0
88	21.52	6.04E-03	8.3	2.71E-03	2.0
89	21.76	1.05E-02	16.3	5.29E-03	1.2
90	22.01	5.51E-03	1.2	9.13E-03	0.9
91	22.25	2.44E-02	0.4	1.62E-02	0.6
92	22.50	4.33E-02	0.3	2.51E-02	0.5
93	22.75	7.69E-02	0.2	3.08E-02	0.4
94	22.99	1.72E-02	0.4	2.33E-02	0.7
95	23.24	9.87E-03	0.5	1.83E-02	0.9
96	23.48	2.37E-03	2.4	2.84E-01	0.2
97	23.73	1.43E-02	1.8	1.78E-01	0.3
98	23.98	5.02E-02	0.7	4.92E-02	0.5

Table A-23. Axial distribution of ^{144}Ce in the bottom connector
of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.76E-02	****	4.40E-02	****
2	0.37	4.45E-02	****	4.86E-02	****
3	0.61	4.89E-02	****	5.13E-02	****
4	0.86	5.14E-02	****	5.38E-02	****
5	1.11	5.44E-02	****	5.91E-02	****
6	1.35	5.71E-02	****	6.47E-02	****
7	1.60	5.95E-02	****	6.87E-02	****
8	1.84	6.18E-02	****	7.06E-02	****
9	2.09	6.06E-02	****	4.27E-02	****
10	2.34	3.24E-02	****	2.42E-02	****
11	2.58	6.33E-02	****	1.18E-02	****
12	2.83	2.79E-02	****	1.10E-02	****
13	3.07	2.80E-02	****	1.04E-02	****
14	3.32	1.67E-02	****	9.92E-03	****
15	3.57	9.99E-03	****	9.51E-03	****
16	3.81	9.01E-03	****	9.26E-03	****
17	4.06	8.23E-03	****	9.05E-03	****
18	4.30	7.68E-03	****	8.95E-03	****
19	4.55	7.31E-03	****	9.03E-03	****
20	4.80	6.87E-03	****	9.12E-03	****
21	5.04	6.56E-03	****	9.12E-03	****
22	5.29	6.22E-03	****	9.27E-03	****
23	5.53	6.01E-03	****	9.42E-03	****
24	5.78	5.87E-03	****	9.45E-03	****
25	6.02	1.04E-02	****	9.56E-03	****
26	6.27	5.52E-03	****	9.79E-03	****
27	6.52	5.42E-03	****	9.85E-03	****
28	6.76	5.60E-03	****	1.02E-02	****
29	7.01	5.57E-03	****	1.06E-02	****
30	7.25	5.51E-03	****	1.10E-02	****
31	7.50	5.67E-03	****	1.15E-02	****
32	7.75	5.81E-03	****	1.22E-02	****
33	7.99	6.03E-03	****	1.30E-02	****
34	8.24	6.33E-03	****	1.40E-02	****
35	8.48	6.69E-03	****	1.49E-02	****
36	8.73	7.14E-03	****	1.64E-02	****
37	8.98	7.58E-03	****	1.84E-02	****
38	9.22	8.36E-03	****	2.07E-02	****
39	9.47	9.17E-03	****	3.28E-02	****
40	9.71	1.01E-02	****	3.61E-02	****
41	9.96	1.15E-02	****	4.21E-02	****
42	10.20	1.34E-02	****	5.05E-02	****
43	10.45	1.57E-02	****	6.40E-02	****
44	10.70	1.88E-02	****	9.76E-02	****
45	10.94	2.49E-02	****	2.49E-01	****
46	11.19	3.17E-02	****	1.69E+00	****
47	11.43	3.94E-02	****	3.61E-01	36.1
48	11.68	5.22E-02	****	6.23E-02	****
49	11.93	8.73E-02	****	5.11E-02	****

Table A-23 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	3.19E-01	****	4.58E-02	****
51	12.42	1.50E+00	****	4.42E-02	****
52	12.66	6.35E-02	****	3.87E-02	****
53	12.91	4.45E-02	****	3.86E-02	****
54	13.16	3.51E-02	****	3.70E-02	****
55	13.40	2.96E-02	****	3.48E-02	****
56	13.65	2.55E-02	****	3.41E-02	****
57	13.89	1.86E-02	****	3.38E-02	****
58	14.14	1.60E-02	****	3.35E-02	****
59	14.39	1.47E-02	****	3.35E-02	****
60	14.63	1.36E-02	****	3.40E-02	****
61	14.88	1.25E-02	****	3.40E-02	****
62	15.12	1.22E-02	****	3.40E-02	****
63	15.37	1.16E-02	****	3.41E-02	****
64	15.61	1.12E-02	****	3.49E-02	****
65	15.86	1.07E-02	****	3.50E-02	****
66	16.11	1.03E-02	****	3.51E-02	****
67	16.35	1.01E-02	****	3.54E-02	****
68	16.60	9.99E-03	****	3.60E-02	****
69	16.84	9.94E-03	****	3.66E-02	****
70	17.09	1.00E-02	****	3.67E-02	****
71	17.34	1.02E-02	****	3.71E-02	****
72	17.58	1.02E-02	****	3.78E-02	****
73	17.83	1.03E-02	****	3.81E-02	****
74	18.07	1.02E-02	****	3.91E-02	****
75	18.32	1.03E-02	****	3.93E-02	****
76	18.57	1.09E-02	****	4.04E-02	****
77	18.81	3.93E-02	****	4.06E-02	****
78	19.06	4.03E-02	****	4.16E-02	****
79	19.30	4.08E-02	****	4.26E-02	****
80	19.55	4.13E-02	****	4.17E-02	****
81	19.79	4.24E-02	****	4.51E-02	****
82	20.04	4.32E-02	****	4.89E-02	****
83	20.29	4.63E-02	****	5.54E-02	****
84	20.53	4.90E-02	****	5.90E-02	****
85	20.78	2.03E-01	****	4.83E-02	****
86	21.02	3.12E-01	****	4.26E-02	****
87	21.27	1.47E-02	****	4.20E-02	****
88	21.52	1.47E-01	****	4.29E-02	****
89	21.76	4.85E-01	****	4.45E-02	****
90	22.01	1.86E-02	****	4.67E-02	****
91	22.25	2.34E-02	****	5.10E-02	****
92	22.50	3.12E-02	****	5.67E-02	****
93	22.75	4.33E-02	****	5.82E-02	****
94	22.99	1.30E-02	****	7.20E-02	****
95	23.24	9.99E-03	****	7.26E-02	****
96	23.48	4.41E-02	****	1.68E-01	****
97	23.73	1.61E-01	****	1.31E-01	****
98	23.98	1.79E-01	****	8.05E-02	****

Table A-24. Axial distribution of ^{154}Eu in the bottom connector
of element E01-01
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	9.65E-05	****	1.73E-04	****
2	0.37	1.75E-04	****	1.96E-04	****
3	0.61	1.99E-04	****	2.12E-04	****
4	0.86	2.16E-04	****	2.29E-04	****
5	1.11	2.35E-04	****	2.54E-04	****
6	1.35	2.56E-04	****	2.69E-04	****
7	1.60	2.63E-04	****	2.91E-04	****
8	1.84	2.78E-04	****	3.01E-04	****
9	2.09	2.71E-04	****	1.56E-04	****
10	2.34	1.19E-04	****	6.42E-05	****
11	2.58	2.15E-04	****	3.66E-05	****
12	2.83	1.04E-04	****	3.13E-05	****
13	3.07	1.04E-04	****	2.87E-05	****
14	3.32	5.97E-05	****	2.57E-05	****
15	3.57	3.20E-05	****	2.44E-05	****
16	3.81	2.49E-05	****	2.49E-05	****
17	4.06	2.11E-05	****	2.41E-05	****
18	4.30	1.76E-05	****	2.46E-05	****
19	4.55	1.69E-05	****	2.53E-05	****
20	4.80	1.47E-05	****	2.55E-05	****
21	5.04	1.46E-05	****	2.60E-05	****
22	5.29	1.44E-05	****	2.57E-05	****
23	5.53	1.39E-05	****	2.75E-05	****
24	5.78	1.36E-05	****	2.95E-05	****
25	6.02	2.51E-05	****	2.94E-05	****
26	6.27	1.56E-05	39.7	3.00E-05	****
27	6.52	1.28E-05	****	3.08E-05	****
28	6.76	1.24E-05	****	3.21E-05	****
29	7.01	1.33E-05	****	3.45E-05	****
30	7.25	1.33E-05	****	3.60E-05	****
31	7.50	1.29E-05	****	3.82E-05	****
32	7.75	1.36E-05	****	4.01E-05	****
33	7.99	1.99E-05	31.8	7.26E-05	27.5
34	8.24	1.51E-05	****	4.62E-05	****
35	8.48	1.64E-05	****	4.97E-05	****
36	8.73	1.74E-05	****	5.43E-05	****
37	8.98	2.31E-05	38.1	6.09E-05	****
38	9.22	2.13E-05	****	6.64E-05	****
39	9.47	2.28E-05	****	9.49E-05	****
40	9.71	2.62E-05	****	9.84E-05	****
41	9.96	2.87E-05	****	1.20E-04	****
42	10.20	3.55E-05	****	1.52E-04	****
43	10.45	4.11E-05	****	2.14E-04	****
44	10.70	5.40E-05	****	3.39E-04	****
45	10.94	4.99E-05	****	1.08E-03	****
46	11.19	6.91E-05	****	6.17E-03	****
47	11.43	1.00E-04	****	9.51E-04	****
48	11.68	1.73E-04	****	3.97E-04	26.8
49	11.93	3.23E-04	****	3.65E-04	22.3

Table A-24 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	1.53E-03	****	1.59E-04	****
51	12.42	5.34E-03	****	2.43E-04	26.6
52	12.66	2.79E-04	****	2.67E-04	22.9
53	12.91	3.58E-04	20.1	2.90E-04	20.4
54	13.16	2.66E-04	17.9	2.65E-04	21.9
55	13.40	2.54E-04	15.6	1.37E-04	33.5
56	13.65	1.49E-04	19.1	1.71E-04	33.4
57	13.89	1.93E-04	13.4	3.20E-04	17.5
58	14.14	1.63E-04	13.5	3.28E-04	14.5
59	14.39	1.74E-04	11.7	1.59E-04	28.9
60	14.63	2.22E-04	9.6	2.53E-04	18.8
61	14.88	1.38E-04	13.0	2.67E-04	20.0
62	15.12	2.07E-04	8.8	2.34E-04	20.9
63	15.37	2.20E-04	7.7	2.54E-04	19.1
64	15.61	2.67E-04	7.1	2.67E-04	22.0
65	15.86	1.90E-04	9.0	3.89E-04	15.3
66	16.11	2.66E-04	6.8	2.74E-04	22.8
67	16.35	2.23E-04	7.8	3.29E-04	15.5
68	16.60	2.63E-04	6.7	2.29E-04	24.6
69	16.84	2.95E-04	5.9	3.63E-04	17.4
70	17.09	3.02E-04	5.9	2.63E-04	20.5
71	17.34	2.68E-04	6.7	3.86E-04	16.7
72	17.58	2.85E-04	6.7	4.58E-04	14.3
73	17.83	2.82E-04	6.8	5.01E-04	12.9
74	18.07	2.84E-04	6.7	2.37E-04	22.3
75	18.32	3.25E-04	6.0	3.12E-04	18.0
76	18.57	3.23E-04	6.3	2.76E-04	21.0
77	18.81	1.36E-03	5.9	4.12E-04	14.7
78	19.06	1.28E-03	6.3	4.05E-04	17.7
79	19.30	1.16E-03	7.1	4.61E-04	14.2
80	19.55	1.18E-03	7.0	2.81E-04	21.7
81	19.79	1.30E-03	6.7	4.96E-04	17.2
82	20.04	1.48E-03	6.3	4.85E-04	19.4
83	20.29	1.27E-03	7.2	5.38E-04	19.3
84	20.53	1.47E-03	7.3	4.41E-04	20.5
85	20.78	5.74E-03	7.6	1.97E-04	36.1
86	21.02	2.14E-03	29.6	4.17E-04	16.5
87	21.27	1.36E-04	17.0	5.98E-04	13.5
88	21.52	5.01E-04	****	4.40E-04	16.0
89	21.76	0.00E-01	****	4.43E-04	16.4
90	22.01	1.37E-04	23.5	4.28E-04	18.6
91	22.25	4.06E-04	9.3	3.58E-04	22.5
92	22.50	5.79E-04	8.2	5.28E-04	20.3
93	22.75	5.04E-04	12.6	6.29E-04	18.0
94	22.99	8.52E-05	22.5	4.70E-04	25.9
95	23.24	1.22E-04	12.9	5.22E-04	23.2
96	23.48	1.68E-03	5.5	1.12E-03	25.3
97	23.73	6.67E-03	5.5	5.37E-04	39.6
98	23.98	6.30E-03	6.2	2.98E-04	****

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