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NUCLEAR DIVISION

REPORT NO. RN-FR-0072

To AEC-NASA Space Nuclear Propulsion Office

PROPOSED MONTHLY FISCAL REPORT

COVERING PERIOD OF DECEMBER 1969

NERVA Program

Contract SNP-1

MASTER

TECHNICAL DOCUMENT CENTER
Nuclear Rocket Operations

DOC. NO. N-2009

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REPORT NO. RN-FR-0072

PROPOSED MONTHLY FISCAL REPORT
COVERING PERIOD OF DECEMBER 1969

NERVA Program

Contract SNP-1

NUCLEAR ROCKET OPERATIONS

CLASSIFICATION CATEGORY

UNCLASSIFIED

Alfred R. ...
CLASSIFYING OFFICER

1-22-70
DATE

AEROJET - GENERAL CORPORATION
A SUBSIDIARY OF THE GENERAL TIRE & RUBBER COMPANY

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CONTRACTOR FINANCIAL MANAGEMENT REPORT		1. CONTRACT DESCRIPTION: NECESSARY RESEARCH AND DEVELOPMENT TO PRODUCE A NUCLEAR POWERED ROCKET ENGINE		(RESERVED)
2. TO: SPACE NUCLEAR PROPULSION OFFICE - CLEVELAND EXTENSION NATIONAL AERONAUTICS AND SPACE ADMINISTRATION 21000 BROOKPARK ROAD CLEVELAND 35, OHIO		NUMBER: SNP-1, MODIFICATION	4c. INVOICE AMOUNTS BILLED \$508,689,580	
		TYPE: CPFF & CPIF	4d. TOTAL PAYMENTS RECEIVED \$507,368,185	
3. FROM: AEROJET-GENERAL CORPORATION P.O. BOX 15847 SACRAMENTO, CALIF.		4a. CONTRACT VALUE \$515,506,841	5. REPORT FOR MONTH DECEMBER 1969	6.
		4b. CONTRACT CEILING \$515,506,841		SHEET 1 OF 2 SHEETS

REMARKS

1. The amounts shown above as billed represent the total from inception of the contract through Public Voucher No. 637. The amount shown as received is through Public Voucher No. 635 with the following adjustments:

- a. Voucher No. 636 for \$423,167 is in process.
- b. Voucher No. 637 for \$898,228 is in process.
- c. The incremental amounts billed and paid during CY 1970 are as follows:

Invoice Amounts Billed	\$13,170,319
Total Payments Received	\$13,252,435

2. The contract value and the contract ceiling shown in lines 4a. and 4b. reflect funding through Modification 38 and October, November, and December incremental funding to Contract SNP-1.

3. Table of Contents

<u>Section</u>	<u>Description</u>
I	Narrative Discussion
II	Graphic Display of Costs
III	Aerojet-General Corporation Indirect Rates
IV	Reconciliation of Budget Category Incurred Costs

I. DISCUSSION

A. Introduction

This informal report is the third for Contract Year 1970. Costs contained herein are as of the end of December 1969.

B. Budget

The budget used in the graphic display consists of the NRO-001.

C. Miscellaneous

1. In response to SNPO-C Letter FMB:BJR, dated 19 September 1969, subject: "Utilization of NTO Personnel in Support of the Construction Management Contractor at NRDS," the incurred costs are as follows:

<u>CATCO Purchase Order</u>	<u>Incurred Costs</u>
40500-3184-2	\$8,860

2. In response to SNPO-C Letter FMB:BJR, dated 2 October 1965, subject: "AEC Manual Changes," the AEC costs by location are as follows:

	<u>FY 1970 thru December 1969</u>			
	<u>Calif.</u>	<u>Nevada</u>	<u>Pa.</u>	<u>Total</u>
<u>AGC</u>				
A-2	\$135,156	\$ -0-	\$ -0-	\$ 135,156
A-3	456,893	-0-	-0-	456,893
A-5	59,667	33,451	-0-	93,118
A-7	-0-	8,919	-0-	8,919
A-8	-0-	128,433	-0-	128,433
TOTAL	\$651,716	\$170,803	-0-	\$ 822,519
<u>WANL</u>				
A-3	\$ -0-	\$ -0-	\$8,667,292	\$8,667,292
A-5	-0-	-0-	160,843	160,843
A-6	-0-	-0-	911,605	911,605
A-7	-0-	38,825	749,063	787,888
A-8	-0-	259,954	-0-	259,954
TOTAL	\$ -0-	\$298,779	\$10,488,803	\$10,787,582
GRAND TOTAL	<u>\$651,716</u>	<u>\$469,582</u>	<u>\$10,488,803</u>	<u>\$11,610,101</u>

AGC SNP -- 1 GRAND TOTAL

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	2027	2133	2056	2021	1981	1982	2078	2239	2093	2530	2984	2290
	CUM	2027	4220	6276	8297	10278	12160	14233	16527	18620	21200	24184	26473
MONTH END ACTUALS	INC	1679	2157	1713									
	CUM	1679	3836	5549									
VARIANCE (NRO-001 - ACTUALS)	INC	348	36	343									
	CUM	348	304	727									
CONTACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C =

A = ACTUALS

AGC SNP -- 1 GRAND TOTAL

CUMULATIVE
INCURRED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	1969	2133	1969	2030	2105	1950	2009	2308	1860	1726	2189	2043
	CUM	1969	4056	6054	8064	10163	12116	14129	16436	18296	20022	22211	24254
MONTH END ACTUALS	INC	1969	2317	1490									
	CUM	1969	3957	5447									
VARIANCE (NRO-001 - ACTUALS)	INC		322	-123	470								
	CUM		322	139	617								
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

AGENCY 1 AEC OPERATING EXPENSE

CUMULATIVE

INCURRED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	107	116	104	106	103	100	106	120	95	97	120	266
	CUM	107	223	326	432	535	635	741	861	956	1053	1101	1467
MONTH END ACTUALS	INC	130	143	100									
	CUM	130	273	373									
VARIANCE (NRO-001 - ACTUALS)	INC	-23	-27	4									
	CUM	-23	-50	-46									
CONTRACT YEAR 1970	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
	1969			1970									

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

AGENCY 4 NASA <W/OUT SRT> TOTAL

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (INRO-001)	INC	1831	1990	1859	1820	1796	1700	1885	2072	1921	2399	2748	2090
	CUM	1831	3830	5660	7500	9305	11005	12830	14362	16003	19202	22030	24121
MONTH END ACTUALS	INC	1504	1989	1519									
	CUM	1504	3473	4993									
VARIANCE (INRO-001 - ACTUALS)	INC	328	29	339									
	CUM	328	357	696									
CONTRACT YEAR 1970	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
		1969						1970					

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

NUCLEAR ROCKET OPERATIONS - FISCAL CONTROL

AGENCY 5 NASA (S.R.T.) TOTAL

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (INRO-001)	INC	91	79	94	94	82	83	86	98	59	70	73	60
	CUM	91	170	265	359	441	524	610	707	786	836	908	960
MONTH END ACTUALS	INC	45	45	84									
	CUM	45	90	174									
VARIANCE (INRO-001 - ACTUALS)	INC	47	34	10									
	CUM	47	81	91									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 101 MISSION STUDIES AND ANALYSIS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	12	13	12	12	12	12	12	14	11	11	14	12
	CLM	12	25	27	50	62	73	85	99	110	121	135	148
MONTH END ACTUALS	INC	13	11	9									
	CLM	13	24	33									
VARIANCE (NRO-001 - ACTUALS)	INC	-1	3	3									
	CLM	-1	2	4									
CONTACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 102

ENGINE/STAGE/BOOSTER INTEGRATION STUDIES

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)

INC	6	7	6	12	11	11	12	14	10	10	14	11
CUM	6	13	19	31	42	53	65	79	89	99	113	124

MONTH END ACTUALS

INC	3	4	5									
CUM	3	7	12									

VARIANCE (NRO-001 - ACTUALS)

INC	3	3	1									
CUM	3	6	7									

CONTRACT YEAR 1970

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1969						1970					

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

PROJECT
GENERAL

PROJECT 103 CLUSTERING STUDIES

NRO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	1	2	1	1	1	1	1	2	1	1	2	1
	CUM	1	3	4	6	7	9	10	12	13	14	16	17
MONTH END ACTUALS	INC												
	CUM												
VARIANCE (NRO-001 - ACTUALS)	INC	1	2	1									
	CUM	1	3	4									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969				1970							

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 111 ENGINE SYSTEMS ANALYSIS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	111	121	111	113	110	120	113	124	106	104	123	109
	CUM	111	233	343	459	566	674	707	911	1017	1121	1244	1353
MONTH END ACTUALS	INC	93	213	136									
	CUM	93	306	442									
VARIANCE (NRO-001 - ACTUALS)	INC	10	-91	-26									
	CUM	18	-73	-99									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 112 ENGINE SYSTEM DESIGN AND INTEGRATION

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (INRO-001)	INC	62	71	81	64	64	81	65	76	58	57	74	61
	CUM	62	132	194	258	322	382	447	522	580	637	711	771
MONTH END ACTUALS	INC	56	60	66									
	CUM	56	116	182									
VARIANCE (INRO-001 - ACTUALS)	INC	6	10	-5									
	CUM	6	16	11									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969				1970							

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 113 ENGINE SYSTEM TEST ENGINEERING

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	48	56	45	26	25	24	26	30	23	22	30	24
	CUM	48	104	149	175	200	224	250	280	303	326	355	380
MONTH END ACTUALS	INC	33	33	28									
	CUM	33	66	94									
VARIANCE (NRO-001) - ACTUALS	INC	15	23	17									
	CUM	15	39	55									
CONTACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 114

ENGINE INTEGRATION AIDS, ADAPTERS AND GAUGES

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	7	8	9	13	13	15	15	21	15	291	16	13	
	CLM	7	14	24	37	49	63	78	95	114	405	421	434	
MONTH END ACTUALS	INC			1										
	CLM		1	2										
VARIANCE (NRO-001 - ACTUALS)	INC	6	7	8										
	CLM	6	14	22										
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
		1969					1970							

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 116 ENGINE SYSTEMS ENGINEERING

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	83	101	88	91	87	85	99	105	80	78	105	86
	CUM	88	189	277	369	456	541	631	738	810	896	1001	1086
MONTH END ACTUALS	INC	62	77	62									
	CUM	62	139	201									
VARIANCE (NRO-001 - ACTUALS)	INC	25	25	26									
	CUM	25	50	76									
CONTRACT YEAR 1970	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
	1969			1970									

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 117

NUCLEAR SUBSYSTEM TEST AND INTERFACE CONTROL

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	9	11	9	10	9	9	9	11	8	8	11	9
	CUM	9	20	29	39	48	57	66	77	86	94	105	114
MONTH END ACTUALS	INC	9	15	9									
	CUM	9	24	33									
VARIANCE (NRO-001 - ACTUALS)	INC		-4										
	CUM		-4	-4									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 118 SYSTEM SHIELDING ANALYSIS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	36	38	35	38	38	37	40	43	38	42	47	43
	CUM	36	74	109	147	185	222	262	305	344	385	433	475
MONTH END ACTUALS	INC	40	86	75									
	CUM	40	120	195									
VARIANCE (NRO-001 - ACTUALS)	INC	-4	-48	-40									
	CUM	-4	-47	-86									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 121 TURBOPUMP ASSEMBLY

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	172	212	209	153	155	153	149	130	98	281	129	193
	CUM	172	304	584	737	893	1045	1194	1325	1423	1704	1833	2026
MONTH END ACTUALS	INC	105	119	68									
	CUM	105	224	311									
VARIANCE (NRO-00) - ACTUALS	INC	67	93	113									
	CUM	67	160	273									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 122 ENGINE VALVE (BINARY) + ACTUATOR

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	12	15	11	15	13	13	14	13	12	29	41	21
	CUM	12	27	33	52	65	79	92	105	115	143	184	205
MONTH END ACTUALS	INC	16	28	26									
	CUM	16	46	72									
VARIANCE (NRO-001 - ACTUALS)	INC	-6	-14	-15									
	CUM	-6	-20	-36									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 123 ENGINE VALVE <CONTROL> + ACTUATOR

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (INRO-001)	INC	6	14	20	27	34	40	47	55	62	67	75	81
	CUM	6	14	20	27	34	40	47	55	62	67	75	81
MONTH END ACTUALS	INC	35	47	37									
	CUM	35	82	119									
VARIANCE (INRO-001 - ACTUALS)	INC	-28	-40	-30									
	CUM	-28	-68	-99									
CONTRACT YEAR 1970		CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 124 ENGINE CHECK VALVES

PROJECT 125

TURBINE POWER CONTROL VALVE AND ACTUATORS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	27	32	27	29	27	27	28	32	27	27	35	73
	CUM	27	60	87	116	143	170	197	229	256	283	318	391
MONTH END ACTUALS	INC												
	CUM												
VARIANCE (NRO-001 - ACTUALS)	INC	27	32	27									
	CUM	27	60	87									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 126 TURBINE INLET LINE

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	13	15	13	14	14	13	14	16	13	12	16	13
	CUM	13	28	41	56	69	83	97	113	126	139	155	168
MONTH END ACTUALS	INC												
	CUM												
VARIANCE (NRO-001 - ACTUALS)	INC	13	15	13									
	CUM	13	28	41									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 127 MAJOR LINES

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)

INC	45	52	44	46	44	43	53	131	59	83	400	49
CUM	45	97	141	187	231	273	326	453	516	599	999	1048

MONTH END ACTUALS

INC	27	39	28									
CUM	27	66	94									

VARIANCE (NRO-001 - ACTUALS)

INC	17	13	16									
CUM	17	30	47									

CONTRACT YEAR 1970

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1969			1970								

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

PROJECT 131 PNEUMATIC PRESSURIZATION S/SYSTEM

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	17	20	19	19	19	20	21	26	249	184	232	36
	CUM	17	33	56	78	95	115	137	162	411	536	820	864
MONTH END ACTUALS	INC	9	7	8									
	CUM	9	15	23									
VARIANCE (NRO-001 - ACTUALS)	INC	9	13	11									
	CUM	9	22	33									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 141 NOZZLE

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)

INC	51	57	51	52	52	51	53	61	49	130	62	102
CUM	51	108	159	211	263	313	367	428	476	607	668	770

MONTH END ACTUALS

INC	42	62	60									
CUM	42	103	163									

VARIANCE (NRO-001 - ACTUALS)

INC	9	-4	-9									
CUM	9	4	-5									

CONTRACT YEAR 1970

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1969						1970					

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

PROJECT 142 NOZZLE SKIRT

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	19	21	19	19	19	18	19	22	17	16	22	18
	CUM	19	40	59	78	97	115	134	155	172	188	210	228
MONTH END ACTUALS	INC	13	11	13									
	CUM	13	24	37									
VARIANCE (NRO-001 - ACTUALS)	INC	6	10	6									
	CUM	6	16	22									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 143 NOZZLE SKIRT EXTENSION

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (INRC-001)	INC	36	50	84	35	80	31	32	37	29	28	36	30
	CUM	33	88	172	237	286	313	350	386	415	443	479	509
MONTH END ACTUALS	INC	32	37	34									
	CUM	32	69	102									
VARIANCE (INRC-001 - ACTUALS)	INC	6	13	50									
	CUM	6	19	69									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 144 POISON WIRE WITHDRAWAL ASSEMBLY

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	10	12	10	10	10	15	9	11	13	8	16	9
	CUM	10	22	32	42	52	67	76	87	100	108	123	132
MONTH END ACTUALS	INC	5	4	2									
	CUM	5	9	11									
VARIANCE (NRO-001 - ACTUALS)	INC	5	7	8									
	CUM	5	13	21									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 151 INSTRUMENTATION + CONTROL SYST. INTEGRATION

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	136	148	133	143	139	148	147	167	142	150	185	162
	CUM	136	285	417	560	700	848	997	1153	1296	1446	1631	1793
MONTH END ACTUALS	INC	116	150	93									
	CUM	116	266	359									
VARIANCE (INFO-001 - ACTUALS)	INC	20	-2	40									
	CUM	20	18	58									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

PROJECT 152 ENGINE WIRING HARNESS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	13	18	16	17	24	24	25	23	24	21	26	23
	CUM	13	31	48	65	89	112	135	167	191	212	238	261
MONTH END ACTUALS	INC	12	13	12									
	CUM	12	25	38									
VARIANCE (NRO-001 - ACTUALS)	INC	1	5	4									
	CUM	1	6	10									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

LEGEND
P = PROP. COSTS

C =

A = ACTUALS

PROJECT 153 NON-NUCLEAR INSTRUMENTATION

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	36	39	34	39	40	39	31	37	29	42	51	45
	CUM	36	75	109	148	187	226	257	294	323	365	417	462
MONTH END ACTUALS	INC	26	23	27									
	CUM	26	54	81									
VARIANCE (NRO-001 - ACTUALS)	INC	10	11	7									
	CUM	10	21	28									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 154 MEASUREMENT SYSTEM ENGR

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	7	8	7	8	8	7	8	9	7	7	9	7
	CLM	7	16	23	31	38	45	52	62	69	76	85	93
MONTH END ACTUALS	INC	6	11	8									
	CLM	8	19	27									
VARIANCE (NRO-001 - ACTUALS)	INC	-1	-2	-1									
	CLM	-1	-3	-4									
CONTACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 155 ENGINE CONTROL SYST. DESIGN + DEVELOPMENT

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC												
	CLM												
MONTH END ACTUALS	INC	3	1	1									
	CLM	3	4	4									
VARIANCE (NRO-001 - ACTUALS)	INC	-3	-1	-1									
	CLM	-3	-4	-4									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 157

EPIC CONTROLS ELECTRONIC CIRCUITRY + PKG.

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)

INC
CUM

MONTH END ACTUALS

INC
CUM

VARIANCE (NRO-001 - ACTUALS)

INC
CUM

CONTRACT YEAR 1970

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1969			1970								

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

NUCLEAR ROCKET OPERATIONS - FISCAL CONTROL

PROJECT 161 THRUST STRUCTURE

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	11	12	11	11	11	11	11	13	10	10	12	74
	CUM	11	23	34	45	56	66	77	90	100	110	122	197
MONTH END ACTUALS	INC	19	22	17									
	CUM	19	41	58									
VARIANCE (NRO-001 - ACTUALS)	INC	-8	-10	-6									
	CUM	-8	-10	-24									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 162 EXTERNAL SHIELD SUBSYSTEM

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	7	7	7	7	7	6	7	8	6	6	7	6
	CUM	7	14	21	27	34	41	48	55	61	67	75	81
MONTH END ACTUALS	INC	11	14	2									
	CUM	11	25	34									
VARIANCE (NRO-001 - ACTUALS)	INC	-4	-7	-2									
	CUM	-4	-11	-13									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C =

A = ACTUALS

PROJECT 163 GIMBAL ASSEMBLY SUBSYSTEM

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	19	21	13	16	16	15	16	19	126	36	50	103
	CUM	19	40	59	75	91	108	122	142	267	303	353	456
MONTH END ACTUALS	INC	13	25	17									
	CUM	13	38	55									
VARIANCE (NRO-001 - ACTUALS)	INC	6	-4	1									
	CUM	6	2	3									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 164 THRUST NULLING CHECK VALVE

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	6	7	6	6	6	6	6	7	5	5	7	6
	CUM	6	12	18	24	30	36	42	49	54	60	67	72
MONTH END ACTUALS	INC												
	CUM												
VARIANCE (NRO-001 - ACTUALS)	INC	6	7	6									
	CUM	6	12	18									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 165 NULLING SHUT OFF VALVE

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROPOSED COSTS (NRO-001) INC
CLM
MONTH END ACTUALS INC
CLM
VARIANCE (NRO-001 - ACTUALS) INC
CLM
CONTRACT YEAR 1970

PROJECT 166 THRUST NULLING VALVE AND ACTUATOR

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	8	18	26	33	45	53	63	73	82	89	99	108
	CUM	8	18	26	33	45	53	63	73	82	89	99	108
MONTH END ACTUALS	INC												
	CUM												
VARIANCE (NRO-001 - ACTUALS)	INC	8	18	26									
	CUM	8	18	26									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 171 DESTRUCT SUBSYSTEM

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	5	7	13	15	15	15	15	17	14	13	17	14
	CUM	5	13	25	40	55	70	85	101	116	123	145	159
MONTH END ACTUALS	INC	4	13	11									
	CUM	4	17	28									
VARIANCE (NRO-001 - ACTUALS)	INC	1	-6	2									
	CUM	1	-4	-3									
CONTACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 181

RADIATION EFFECTS INTEGRATION, ANALYSES, AND DOC.

NRO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	20	20	17	16	17	14	13	16	13	12	14	12
	CUM	20	40	55	70	91	104	117	134	147	153	173	185
MONTH END ACTUALS	INC	16	22	19									
	CUM	16	38	57									
VARIANCE (NRO-001 - ACTUALS)	INC	4	-2	-2									
	CUM	4	2										
CONTRACT YEAR 1970	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
	1969			1970									

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

PROJECT 182

RADIATION EFFECTS INSTRUMENTS AND COMPONENTS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	6	8	6	28	31	32	33	32	21	36	56	16
	CUM	6	14	19	28	31	32	33	32	185	221	276	292
MONTH END ACTUALS	INC		1	2									
	CUM		1	3									
VARIANCE (NRO-001 - ACTUALS)	INC	5	7	4									
	CUM	5	12	16									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 183 RADIATION EFFECTS MATERIALS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (INRO-001)	INC	7	12	26	33	38	43	51	58	62	70	85	91
	CLM	7	12	26	33	38	43	51	58	62	70	85	91
MONTH END ACTUALS	INC	9	8	6									
	CLM	9	17	23									
VARIANCE (INRO-001 - ACTUALS)	INC	-2	3	2									
	CLM	-2	1	3									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 187 NON-FUEL MATERIALS DEVELOPMENT

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	35	36	71	73	36	24	131	34	24	47	32	27
	CUM	35	71	142	212	240	272	403	437	462	500	540	560
MONTH END ACTUALS	INC	56	56	82									
	CUM	56	116	198									
VARIANCE (NRO-001 - ACTUALS)	INC	-21	-22	-11									
	CUM	-21	-43	-54									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C =

A = ACTUALS

PROJECT 189 ENGINE VIBRATION TESTS AND ANALYSIS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

LEGEND
P = PROP. COSTS
.....
C = .

A = ACTUALS

PROJECT 201

ENGINE ASSEMBLY AND DISASSEMBLY, TOOLS+FIX. <NRDS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	3	3	3	3	3	3	3	3	3	2	3	3
	CUM	3	6	9	12	14	17	20	23	26	28	31	34
MONTH END ACTUALS	INC												
	CUM												
VARIANCE (NRO-001 - ACTUALS)	INC	3	3	3									
	CUM	3	6	9									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 202 ENGINE SYSTEM SHIPPING CONTAINERS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	1	2	1	1	1	1	1	2	1	1	2	1
	CLM	1	3	4	5	7	8	10	12	13	14	16	17
MONTH END ACTUALS	INC												
	CLM												
VARIANCE (NRO-001 - ACTUALS)	INC	1	2	1									
	CLM	1	3	4									
CONTACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 205

TRANSPORT N. ROUTING + SHIPP G EQUIPMENT

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)

INC
CLM

MONTH END ACTUALS

INC
CLM1 1
1 2 3

VARIANCE (NRO-001 - ACTUALS)

INC
CLM-1 -1
-1 -2 -3

CONTRACT YEAR 1970

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
1970 1971

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

NUCLEAR ROCKET OPERATIONS - FISCAL CONTROL

PROJECT 206 TEST SUPPORT EQUIPMENT -

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS INRO-0011	INC												
	CUM												
	.												
	.												
MONTH END ACTUALS	INC	1	4	2									
	CUM	1	5	7									
VARIANCE INRO-001 - ACTUALS	INC	-1	-4	-2									
	CUM	-1	-5	-7									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969					1970						

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 207 AEROSPACE GROUND EQUIPMENT

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRC-001)	INC												
	CUM												
	.												
	.												
MONTH END ACTUALS	INC	3	3										
	CUM	3	6	5									
VARIANCE (NRC-001 - ACTUALS)	INC	-2	-2										
	CUM	-2	-4	-5									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 211 ENGINE CHECKOUT AND TEST (NRDS)

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	3	2	3	3	3	3	3	3	2	3	3	
	CUM	3	5	8	12	14	17	20	23	25	28	31	
MONTH END ACTUALS	INC												
	CUM												
VARIANCE (NRO-001) - ACTUALS	INC	3	3	3									
	CUM	3	6	9									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 212 TEST STAND CONTROL SYSTEM <NRDS>

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	22	25	21	24	23	22	25	30	23	22	30	24
	CLM	22	47	66	92	116	133	153	173	193	216	238	267
MONTH END ACTUALS	INC												
	CLM												
VARIANCE (NRO-001 - ACTUALS)	INC	22	25	21									
	CLM	22	47	66									
COMPT CT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

LEGEND
P = PROP. COSTS

C =

A = ACTUALS

PROJECT 221 E/STS-2 ENGINEERING SUPPORT-NRO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	13	15	13	19	17	16	17	20	17	19	22	18
	CUM	13	28	42	57	74	90	117	129	145	161	183	201
MONTH END ACTUALS	INC	6	9	9									
	CUM	6	14	23									
VARIANCE (NRO-001 - ACTUALS)	INC	7	7	5									
	CUM	7	14	18									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 222 E-MAD SUPPORT NRO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	1	1	1	1	1	1	1	1	1	1	1
	CUM	1	2	3	4	5	6	7	8	9	10	11
MONTH END ACTUALS	INC		1	1								
	CUM		1	2								
VARIANCE (NRO-001 - ACTUALS)	INC	1										
	CUM	1	1	1								
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
												SEP

LEGEND
P = PROP. COSTS
.....
C = .

A = ACTUALS

PROJECT 223

NRDS FACILITY CRITERIA + REQMT S + SUPPORT - NRO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	12	13	11	11	11	11	14	17	11	9	13	10
	CUM	12	25	36	47	58	69	82	99	110	119	132	142
MONTH END ACTUALS	INC	19	16	8									
	CUM	19	30	43									
VARIANCE (NRO-001 - ACTUALS)	INC	-7	-3	3									
	CUM	-7	-10	-7									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 224 ETS-1 NASS ENGINEERING - NRO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (INRC-001)	INC	64	74	65	67	51	47	48	38	27	26	35	29
	CLN	64	139	203	270	322	382	419	452	479	505	540	569
MONTH END ACTUALS	INC	76	76	63									
	CLN	76	152	215									
VARIANCE (INRC-001 - ACTUALS)	INC	-11	-2	2									
	CLN	-11	-13	-11									
CONTACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 225

ETS-1 - MODIFICATIONS SUPPORT NRO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	25	29	25	29	28	27	30	36	27	22	30	24
	CUM	25	54	73	100	130	163	194	230	256	279	309	333
MONTH END ACTUALS	INC	15	17	16									
	CUM	15	31	42									
VARIANCE (NRO-001 - ACTUALS)	INC	11	12	14									
	CUM	11	23	30									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 227

ETS-1 TEST STAND CONTROL SYSTEM - NRO

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRC-001)

INC
CLM

MONTH END ACTUALS

INC
CLM

	23	22	15
INC	23	45	60

VARIANCE (NRC-001 - ACTUALS)

INC
CLM

	-23	-22	-15
INC	-23	-45	-60

CONTRACT YEAR 1970

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1969												
1970												

LEGEND

P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 231 PROGRAM PLANNING AND CONTROL

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	22	25	21	22	21	23	26	29	23	20	26	22
	CUM	22	46	63	87	111	133	159	183	210	231	257	279
MONTH END ACTUALS	INC	23	30	22									
	CUM	23	50	62									
VARIANCE (NRO-001 - ACTUALS)	INC	-6	-5	-1									
	CUM	-6	-13	-14									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

LEGEND
P = PROP. COSTS

C =

A = ACTUALS

PROJECT 232 FISCAL CONTROL

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROPOSED COSTS (NRO-001)	INC	31	35	37	32	30	30	36	46	25	22	40	30
	CUM	31	66	103	134	165	194	230	276	305	335	377	407
MONTH END ACTUALS	INC	20	10	43									
	CUM	30	40	81									
VARIANCE (NRO-001 - ACTUALS)	INC	1	17	-6									
	CUM	1	18	12									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

NUCLEAR ROCKET OPERATIONS - FISCAL CONTROL

AEROJET
GENERAL

PROJECT 233 MATERIAL INVENTORY

NRO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	80											
	CLM	80	60	80	90	90	90	90	90	90	90	90	90
MONTH END ACTUALS	INC		20	-15									
	CLM		20	5									
VARIANCE (NRO-001 - ACTUALS)	INC	80	-20	15									
	CLM	80	61	75									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C =

A = ACTUALS

PROJECT 234 TECHNICAL REPORTS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	30	23	30	29	30	23	30	33	20	23	33	29
	CUM	30	63	93	123	153	182	212	245	273	301	334	363
MONTH END ACTUALS	INC	25	24	22									
	CUM	25	49	71									
VARIANCE (NRO-001 - ACTUALS)	INC	6	9	7									
	CUM	6	15	22									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 235 CONFIGURATION AND DATA MANAGEMENT

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (INRO-001)	INC	55	63	57	59	57	55	53	63	50	49	62	53
	CUM	55	113	176	235	291	347	402	465	515	565	627	680
MONTH END ACTUALS	INC	41	59	47									
	CUM	41	100	147									
VARIANCE (INRO-001 - ACTUALS)	INC	15	4	10									
	CUM	15	18	29									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 236 NEW TECHNOLOGY REPORTING

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (INRO-001)	INC	5	6	5	5	5	5	5	6	5	5	6	5
	CUM	5	11	16	21	26	31	36	42	47	51	57	62
MONTH END ACTUALS	INC	5	5	4									
	CUM	5	10	14									
VARIANCE (INRO-001 - ACTUALS)	INC		1	1									
	CUM		1	2									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969			1970							

LEGEND
P = PROP. COSTS
.....
C = .

A = ACTUALS

PROJECT 238 PROJECT MANAGEMENT

NUCLEAR ROCKET OPERATIONS - FISCAL CONTROL

PROJECT 241 GROUND OPER. SAFETY GENRL

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	16	16	15	16	15	15	16	19	14	14	18	15
	CUM	16	32	47	63	78	93	111	130	144	157	176	190
MONTH END ACTUALS	INC	14	16	14									
	CUM	14	30	44									
VARIANCE (NRO-001 - ACTUALS)	INC	2	2	2									
	CUM	2	4	6									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969			1970							

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

NUCLEAR ROCKET OPERATIONS - FISCAL CONTROL

PROJECT 242 GROUND OPERATIONAL SAFETY-NRDS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NR0-001)	INC	3	3	3	3	3	3	3	3	3	3	3
	CUM	3	6	9	12	14	17	20	24	26	29	32
.	.											
MONTH END ACTUALS	INC	2	3	2								
	CUM	2	5	7								
VARIANCE (NR0-001 - ACTUALS)	INC	1		1								
	CUM	1	1	2								
CONTRACT YEAR 1979	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	1979						1978					

LEGEND
P = PROP. COSTS

C =

A = ACTUALS

PROJECT 251 FLIGHT SFTY MALFUNCTIONS

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	22	25	10	22	21	20	22	25	19	13	25	21
	CUM	22	46	65	87	108	128	140	175	194	213	238	250
MONTH END ACTUALS	INC	25	23	23									
	CUM	25	54	77									
VARIANCE (NRO-001 - ACTUALS)	INC	-4	-4	-5									
	CUM	-4	-8	-13									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 261 O.A. CONTR S PLANT

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	31	60	101	136	162	201	237	279	318	340	380	413
	CUM	31	60	101	136	162	201	237	279	318	340	380	413
MONTH END ACTUALS	INC	37	46	32									
	CUM	37	84	114									
VARIANCE (NRO-001 - ACTUALS)	INC	-7	-8	2									
	CUM	-7	-15	-13									
CONTACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969			1970							

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 262 QUALITY ASSURANCE - NTO

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	10	11	18	11	13	19	17	22	3	9	12	10
	CUM	10	21	31	42	52	62	72	85	94	103	115	125
MONTH END ACTUALS	INC	13	14	11									
	CUM	12	26	32									
VARIANCE (NRO-001 - ACTUALS)	INC	-3	-3	-1									
	CUM	-2	-6	-7									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 263 RELIABILITY

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS INRO-0011	INC	57	65	53	50	54	52	55	64	49	48	62	50
	CLM	57	122	175	221	285	337	392	457	505	553	616	666
MONTH END ACTUALS	INC	48	55	46									
	CLM	48	101	150									
MONTH END (INRO-001 - ACTUALS)	INC	7	10	7									
	CLM	7	11	25									
CONTRACT YEAR 1970	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
		1959						1970					

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 271

NRDS GENERAL SUPPORT

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRD-001)	INC	54	103	159	204	250	297	321	360	390	420	471	502
	CUM	54	103	159	204	250	297	321	360	390	420	471	502
MONTH END ACTUALS	INC	56	53	25									
	CUM	56	110	135									
VARIANCE (NRD-001 - ACTUALS)	INC	-2	-5	34									
	CUM	-2	-7	25									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

AEROJET
GENERAL

PROJECT 272 TEST CELL C TPA OPRNS

NRO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (INRO-0011)	INC	7	8	7	15	18	19	12	12	9	11	14	12
	CUM	7	15	23	33	42	52	67	74	83	94	109	121
MONTH END ACTUALS	INC	1	3	5									
	CUM	1	4	9									
ACTUALS (INRO-001 - ACTUALS)	INC	6	5	2									
	CUM	6	11	14									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 274 MAD BLDG. OPERATIONS-ENGINE

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	34	38	17	12	12	11	10	11	9	9	11	9
	CUM	34	72	89	103	113	124	134	145	154	163	174	183
MONTH END ACTUALS	INC	37	41	19									
	CUM	37	78	97									
VARIANCE (NRO-001 - ACTUALS)	INC	-3	-3	-2									
	CUM	-3	-6	-8									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 275 ETS-1 OPERATIONS

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)

INC	23	26	23	27	25	25	25	31	24	23	30	25
CLM	23	49	72	90	124	140	175	207	233	253	283	308

MONTH END ACTUALS

INC	36	31	23									
CLM	36	67	97									

VARIANCE (NRO-001 - ACTUALS)

INC	-13	-5	-3									
CLM	-13	-18	-24									

CONTRACT YEAR 1970

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1969						1970					

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

PROJECT 281 E/STS-2 ENGR SUPPORT NTO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	2	3	4	5	6	7	8	9	10	11	12	13
	CUM	2	5	9	14	20	27	35	44	54	65	77	90
MONTH END ACTUALS	INC		1										
	CUM		1	2									
VARIANCE (NRO-001 - ACTUALS)	INC	2	2	2									
	CUM	2	4	6									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C =

A = ACTUALS

PROJECT 282 ETS-1 MODS ENGR NTO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRC-001)	INC CLC						7	12	14	11	11	14	12	
							7	12	34	45	56	70	82	
MONTH END ACTUALS	INC CLC													
ARRANGE (NRC-001 - ACTUALS)	INC CLC													
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
		1969						1970						

LEGEND
P = PROP. COSTS
.....
C =

A = ACTUALS

PROJECT 284 FACILITY SUPPORT ENGR NTO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	25	56	73	107	124	139	152	165	176	183	193	202
	CLM	25	56	73	107	124	139	152	165	176	183	193	202
MONTH END ACTUALS	INC	21	41	55									
	CLM	21	41	55									
VARIANCE (NRO-001 - ACTUALS)	INC	5	15	18									
	CLM	5	15	18									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 233 INSPECTION SUPPORT TO SNPO-N-NTD

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC CUR												
.	.												
MONTH END ACTUALS	INC CUR		4 6	5 3									
VARIANCE (NRO-001 - ACTUALS)	INC CUR		-4 -6	-5 -3									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1970						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 351 STE-OTHER TEST ZONES + LABS-SACTO

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	5	6	13	12	13	12	13	23	10	10	20	10
	CUM	5	11	23	36	42	51	76	81	112	130	149	163
MONTH END ACTUALS	INC	15	23	23									
	CUM	15	23	51									
VARIANCE (NRO-001 - ACTUALS)	INC	-10	-17	-25									
	CUM	-10	-27	-51									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 332 STE-TEST ZONE H - SACTO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-3011)	INC	27	31	40	42	43	42	45	52	49	39	57	51
	CLM	27	55	103	145	188	230	275	322	371	410	467	518
MONTH END ACTUALS	INC	0	0	13									
	CLM	0	13	26									
VARIANCE (NRO-301 - ACTUALS)	INC	19	23	31									
	CLM	19	42	73									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 363 STE-NRO LABS. SACTO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-2011)	INC	1	1	1	2	2	2	3	4	5	13	19	19
	CUM	1	2	3	6	7	10	13	17	23	42	61	80
MONTH END ACTUALS	INC												
	CUM												
VARIANCE (NRO-201 - ACTUALS)	INC	1	1	1									
	CUM	1	2	3									
CONTACT YEAR 1973		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1972			1973								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 374 PLANT EQUIPMENT (SACTO)

CUMULATIVE
COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)

INC
CUM

MONTH END ACTUALS

INC
CUM

VARIANCE (NRO-001 - ACTUALS)

INC
CUM

GO PROJECT YEAR 1970

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1969			1970								

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

PROJECT 391 FLUIDIC CONTROLS-SRT-122

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)

INC	39	49	73	45	41	45	44	69	53	53	94	52
CUM	30	30	161	277	243	202	336	423	455	505	563	622

MONTH END ACTUALS

INC	23	26	43									
CUM	23	55	158									

VARIANCE (NRO-001) - ACTUALS

INC	10	23	23									
CUM	10	32	62									

PROJECT START 1973

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1972			1973								

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

NUCLEAR ROCKET OPERATIONS - FISCAL CONTROL

PROJECT 392 PROPELLANT HEATING TEST GD/FV - SRT-121

CUMULATIVE

COMMITTED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-C311)

INC
CUM

				23	43	77	98	113	122	127	130	134
				23	43	77	98	113	122	127	130	134

MONTH END ACTUALS

INC
CUM

VARIANCE (NRO-C311 - ACTUALS)

INC
CUM

OCT 1968 YEAR 1970

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1968						1970					

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

ENCLOSURE 1: 100 PAGES - FISCAL CONTROL

PROJECT 393 SHIELDING CODE IMPROVEMENTS-SRT-122

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROJECTED COSTS (NRO-001)	INC	4	5	4	4	4	4	4	4	4	4	4	4
	CLM	7	3	33	27	21	20	37	24	20	12	45	50
COMMITTED ACTUALS	INC	2	2	3									
	CLM	2	2	2									
DIFFERENCE (NRO-001 - ACTUALS)	INC	2	1	1									
	CLM	2	3	6									
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1970							1971				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 394 PROPELLANT PROCUREMENT - SRT-122

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

LEGEND
P = PROP. COSTS
.....
C =
A = ACTUALS

10/01/71 - 10/01/76

U.S. AIR FORCE - FISCAL CONTROL

PROJECT 395

PROP/ELECT POWER GENERATION MSFC-SRT-121

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-2011)	INC	39	13	10	10	7	5						
	CLM	39	52	62	72	79	84	84	84	84	84	84	84
MONTH END ACTUALS	INC	7	7	5									
	CLM	7	14	19									
VARIANCE (NRO-201 - ACTUALS)	INC	32	6	5									
	CLM	32	30	64									
END OF YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS
.....
C = .

A = ACTUALS

PROJECT 395 CARBON COMP/LIQUID HYD FUELS-SRT-122

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	6	7	7	7	7	6	4					
	COM	6	15	22	27	33	39	45	45	45	45	45	45
MONTH END ACTUALS	INC	4	4	2									
	COM	4	8	16									
VARIANCE (NRO-001 - ACTUALS)	INC	5	3	-2									
	COM	5	8	8									
FISCAL YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1970			1971								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 397 HYDROSTATIC BEARING DEMO-SRT-122

NRO

CUMULATIVE
COMMITTED
DOLLARS IN THOUSANDS

PROPOSED COSTS (1970-001)

INC
COM

MONTH END ACTUALS

INC
COM

VARIANCE (1970-001 - ACTUALS)

INC
COM

CONTACT YEAR 1970

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
1969 1970

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

W **NRO**

PROJECT 611

SYS. ANAL. ENGR. + INTEGR. GENERAL SURVEILLANCE

CUMULATIVE
INCURRED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	13	21	30	37	75	93	111	120	151	157	183	223
	CUM	13	30	57	75	93	111	120	151	167	183	205	223
MONTH END ACTUALS	INC	16	19	12									
	CUM	16	35	47									
VARIANCE (NRO-001 - ACTUALS)	INC	2	2	6									
	CUM	2	4	10									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 621 PRESSURE VESSEL + CLOSURE S/SYST.

CUMULATIVE
INCURRED
DOLLARS IN THOUSANDS

PROPOSED COSTS (INFO-001)	INC	16	19	17	17	17	18	17	20	15	17	20	191
	CUM	16	36	52	69	86	104	121	141	156	173	193	392
MONTH END ACTUALS	INC	13	25	17									
	CUM	13	40	57									
VARIANCE (INFO-001 - ACTUALS)	INC	-3	-6	4									
	CUM	-3	-6	-5									
CONTACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 613 REACTOR SYSTEMS ANALYSIS

CUMULATIVE
INCURRED
DOLLARS IN THOUSANDS

PROPOSED COSTS INRO-0011	INC	31	33	31	31	31	30	31	34	29	29	33	30
	CUM	31	64	94	126	151	180	213	251	287	303	343	373
MONTH END ACTUALS	INC	46	20	21									
	CUM	46	74	95									
VARIANCE INRO-001 - ACTUALS	INC	-15	5	18									
	CUM	-15	-11										
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1969					1970						

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 632 QUALITY ASSURANCE <NRDS>

CUMULATIVE

INCURRED

DOLLARS IN THOUSANDS

PROPOSED COSTS (NRD-001)

INC
CUM

Month	INC	CUM
OCT	2	2
NOV	2	4
DEC	2	5
JAN	2	7
FEB	2	8
MAR	2	10
APR	2	12
MAY	2	14
JUN	2	16
JUL	2	17
AUG	2	19
SEP	2	21

MONTH END ACTUALS

INC
CUM

VARIANCE (NRD-001 - ACTUALS)

INC
CUM

Month	INC	CUM
OCT	2	2
NOV	2	4
DEC	2	5
JAN		
FEB		
MAR		
APR		
MAY		
JUN		
JUL		
AUG		
SEP		

CONTRACT YEAR 1970

Month	INC	CUM
OCT	2	2
NOV	2	4
DEC	2	5
JAN		
FEB		
MAR		
APR		
MAY		
JUN		
JUL		
AUG		
SEP		

LEGEND

P = PROP. COSTS

C =

A = ACTUALS

PROJECT 641 SSC VALVE

CUMULATIVE
INCURRED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	17	15	13	13	13	13	14	16	11	12	24	22
	CUM	17	32	45	59	72	89	99	114	124	136	163	182
MONTH END ACTUALS	INC	13	13	7									
	CUM	13	26	33									
VARIANCE (NRO-001 - ACTUALS)	INC	4	2	6									
	CUM	4	6	12									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 643 SS BLOCK VALVE (SSBV)

CUMULATIVE
INCURRED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	6	7	6	7	7	6	7	8	6	6	8	7
	CUM	6	12	18	24	30	36	42	48	54	60	66	74
MONTH END ACTUALS	INC	1	1	1									
	CUM	1	2	3									
VARIANCE (NRO-001 - ACTUALS)	INC	5	6	5									
	CUM	5	12	17									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 663 ENGINEERING ETS-1 SEISMIC MODS-NRO

CUMULATIVE
INCURRED
DOLLARS IN THOUSANDS

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 664

FACILITY MGT + CONST SURV ETS-1 SEISMIC MODS-NTD

CUMULATIVE
INCURRED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC
	CLM
	:
	:
MONTH END ACTUALS	INC
	CLM
VARIANCE (NRO-001 - ACTUALS)	INC
	CLM
CONTRACT YEAR 1970	

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 665

CONFIG MGT + FLD CHG ENG ETS-1 SEISMIC MODS-NTD

CUMULATIVE
INCURRED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)

INC
CUM

MONTH END ACTUALS

INC
CUM

VARIANCE (NRO-001 - ACTUALS)

INC
CUM

CONTRACT YEAR 1970

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1969			1970								

LEGEND

P = PROCP. COSTS

C = .

A = ACTUALS

PROJECT 672 TC C OPERATIONS

INCURRED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	2	3	2	3	3	2	3	3	2	2	3	2
	CUR	2	5	1	10	13	15	17	20	23	25	28	30
MONTH END ACTUALS	INC	7	7	3									
	CUR	7	14	17									
VARIANCE (ACTO-001 - ACTUALS)	INC	-4	-4	1									
	CUR	-4	-3	-2									
FISCAL YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 673 MAD BLDG OPER - N/SUBSYSTEM

CUMULATIVE
INCURRED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-001)	INC	10	32	11	21	21	27	31	33	10	20	12	10
	CUM	10	22	33	44	55	65	76	88	99	110	120	131
MONTH END ACTUALS	INC	8	8	4									
	CUM	8	17	21									
VARIANCE (ACTUALS)	INC	2	3	6									
	CUM	2	6	12									
OPERATING YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		1966			1970								

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

PROJECT 685 ASSISTANCE TO LASL

CUMULATIVE
INCURRED
DOLLARS IN THOUSANDS

PROPOSED COSTS (NRO-201)	INC	2	2	2	2	2	2	2	3	2	2	3	2
	CUM	3	6	9	12	13	15	17	20	22	24	26	29
MONTHS END ACTUALS	INC	2	7	2									
	CUM	2	9	11									
VARIANCE NRO-201 - ACTUALS	INC	1	-1	1									
	CUM	1	-2	-1									
CONTRACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			1969						1970				

LEGEND
P = PROP. COSTS
.....
C = .

A = ACTUALS

PROJECT 687

NUCLEAR SUBSYSTEM RADIATION EFFECTS SUPPORT

PROPOSED COSTS (NRO-001)	INC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	CUM	1	3	6	10	15	21	28	36	45	55	66	78	91	105	120	136
MONTH END ACTUALS	INC	1	1	1													
	CUM	1	2	3													
VARIANCE (NRO-001 - ACTUALS)	INC		1	1													
	CUM		1	2													
CONTACT YEAR 1970		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
			1969										1970				

LEGEND
P = PROP. COSTS

C = .

A = ACTUALS

CONTRACT SNP-1
AEROJET-GENERAL INDIRECT RATES
FOR
CONTRACT YEAR 1970
IN USE DURING DECEMBER 1969

	<u>AGC FY THRU DECEMBER 1969</u>		<u>CONTRACT SNP-1 COMMITMENT RATES</u>		<u>BOOKED AS OF 1/04/70</u>	
	<u>IR&D</u>	<u>B&P</u>	<u>DLO</u>	<u>G&A</u>	<u>DLO</u>	<u>G&A</u>
<u>Electronic Division</u>						
Engineering			137.0%	15.0%	135.0%	13.5%
Material			11.0%	15.0%	10.0%	13.5%
<u>Environmental Systems Division</u>						
Engineering			107.0%	29.5%	160.0%	29.5%
<u>Propulsion Division</u>						
SRD Engineering			150.2%	11.26%	181.2%	13.8%
LRD Engineering			122.6%	16.05%	153.5%	22.2%
Manufacturing Operations			253.1%	16.05%	288.1%	22.2%
<u>Nuclear Division</u>						
NRO Engineering			110.0%	12.50%	132.4%	9.2%
Out Plant			50.0%	12.50%	104.9%	9.2%
<u>SNP-1</u>	28,162	17,983				

RECONCILIATION OF BUDGET CATEGORY INCURRED COSTS
DECEMBER 1969

<u>BUDGET CATEGORY</u>	<u>(1)</u> WANL COSTS PER REPORT CR(J)-123	<u>(2)</u> WANL FEE NOTE (1)	<u>(3)</u> WANL ACCT'G ADJMT*	<u>(4)</u> TOTAL WANL	<u>(5)</u> ACC COSTS SECTION II	<u>(6)</u> ACC FEE NOTE (2)	<u>(7)</u> CAPITAL EQUIPMENT ADJUSTMENT	<u>(8)</u> TOTAL ACC	<u>(9)</u> TOTAL RPTD CY 70 (4) + (8)	<u>(10)</u> PREVIOUS MONTH TOTAL	<u>(11)</u> CURRENT MONTH ADJ. INCREMENT (9) - (10)
A-2	-0-	-0-	-0-	-0-	57,522	4,858	-0-	62,380	62,380	48,126	14,254
A-3	4,242,939	280,901	(3,414)	4,520,426	101,656	16,187	-0-	207,843	4,728,269	3,233,524	1,494,745
A-5	115,925	7,675	(1,243)	122,357	85,866	7,252	-0-	93,118	215,475	123,087	92,388
A-6	418,876	27,731	-0-	446,607	-0-	-0-	-0-	-0-	446,607	317,698	128,909
A-7	382,016	25,291	(4,122)	403,185	-0-	-0-	-0-	-0-	403,185	275,173	128,012
A-8	91,277	6,043	(34,681)	62,639	37,474	3,165	-0-	40,639	103,278	111,862	(8,584)
ABC OPER. TOTAL	5,251,033	347,641	(43,460)	5,555,214	372,518	31,462	-0-	403,980	5,959,194	4,109,470	1,849,724
ABC EQUIP. A-35	218,167	-0-	(123)	218,044	18	-0-	-0-	18	218,062	122,605	95,457
ABC TOTAL	5,469,200	347,641	(43,583)	5,773,258	372,536	31,462	-0-	403,998	6,177,256	4,232,075	1,945,181
B-15	-0-	-0-	-0-	-0-	43,163	3,632	-0-	46,795	46,795	33,352	13,443
B-21	177,086	11,582	(2,126)	186,542	3,085,430	259,638	-0-	3,345,068	3,531,610	2,566,360	965,250
B-40	80,858	5,288	(1,564)	84,582	445,104	37,455	-0-	482,559	567,141	396,417	170,724
B-60	-0-	-0-	-0-	-0-	398,313	33,518	-0-	431,831	431,831	348,293	83,538
B-70	-0-	-0-	-0-	-0-	416,505	35,049	-0-	451,554	451,554	326,055	125,499
B-80	109,140	7,138	(53,442)	62,836	343,236	28,883	-0-	372,119	434,955	381,236	53,719
B-90	-0-	-0-	-0-	-0-	102,234	14,031	(4,711)	111,554	111,554	73,766	37,788
NASA CAP. EQUIP.	-0-	-0-	-0-	-0-	64,508	-0-	4,711	69,219	69,219	67,694	1,525
NASA R&D TOTAL	367,084	24,008	(57,132)	333,960	4,898,493	412,206	-0-	5,310,699	5,644,659	4,193,173	1,451,486
SRT (ACC)	-0-	-0-	-0-	-0-	176,055	15,253	-0-	191,308	191,308	105,479	85,829
SRT (WANL)	3,715	158	-0-	3,873	-0-	-0-	-0-	-0-	3,873	1,829	2,044
SRT TOTAL	3,715	158	-0-	3,873	176,055	15,253	-0-	191,308	195,181	107,308	87,873
SNP-1 CY 1970	5,839,999	372,807	(100,715)	6,111,091	5,447,084	458,921	-0-	5,906,005	12,017,096	8,532,556	3,484,540
CUM THROUGH 9/30/69									499,659,197		
GRAND TOTAL									511,676,293		

*Calendar Year 1969 Overhead Adjustment.

NOTE 1

Section IV, Page 1, Col. (2)
Calculations of WANL Fee Factor

	<u>AEC</u>	<u>NASA R&D</u>	<u>SRT</u>	<u>TOTAL</u>
TOTAL FEE (Negotiated)	\$ 1,324,333	\$ 122,514	\$ 3,703	\$ 1,450,550
BR(J)069-07	\$21,840,628	\$1,892,193	\$88,462	\$23,821,283
Less Equipment	1,832,705	X	X	1,832,705
TOTAL BASE	\$20,007,923	\$1,892,193	\$88,462	\$21,988,578

METHOD USED

AEC Fee Calculation

$$\frac{1,324,333}{20,003,748} = 6.62042433\% \text{ AEC Fee Percentage}$$

NASA Fee Calculation

$$\frac{122,514}{1,873,275} = 6.54009688\% \text{ NASA Fee Percentage}$$

SRT Calculation

$$\frac{3,703}{87,321} = 4.24067520\% \text{ SRT Fee Percentage}$$

NOTE 2

Section IV, Page 1, Col. (6)
Calculation of AGC Fee Factor

	<u>AEC OPER.</u>	<u>NASA R&D</u>	<u>SRT</u>	<u>TOTAL</u>
Total CY 69 Fee (Negotiated)	\$ 148,000	\$ 1,698,000	\$ 51,000	\$ 1,897,000
NRO 905 As Negotiated	\$1,780,071	\$20,489,084	\$620,025	\$22,889,180
Less Equipment	17,463	X	X	17,463
TOTAL BASE	\$1,762,608	\$20,489,084	\$620,025	\$22,871,717

METHOD USED

AEC Fee Calculation

$$\frac{148,000}{1,752,358} = 8.44576279\% \text{ AEC Fee Percentage}$$

NASA Fee Calculation

$$\frac{1,698,000}{20,178,373} = 8.41495000\% \text{ NASA Fee Percentage}$$

SRT Fee Calculation

$$\frac{51,000}{588,649} = 8.66390667\% \text{ SRT Fee Percentage}$$

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