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PDR

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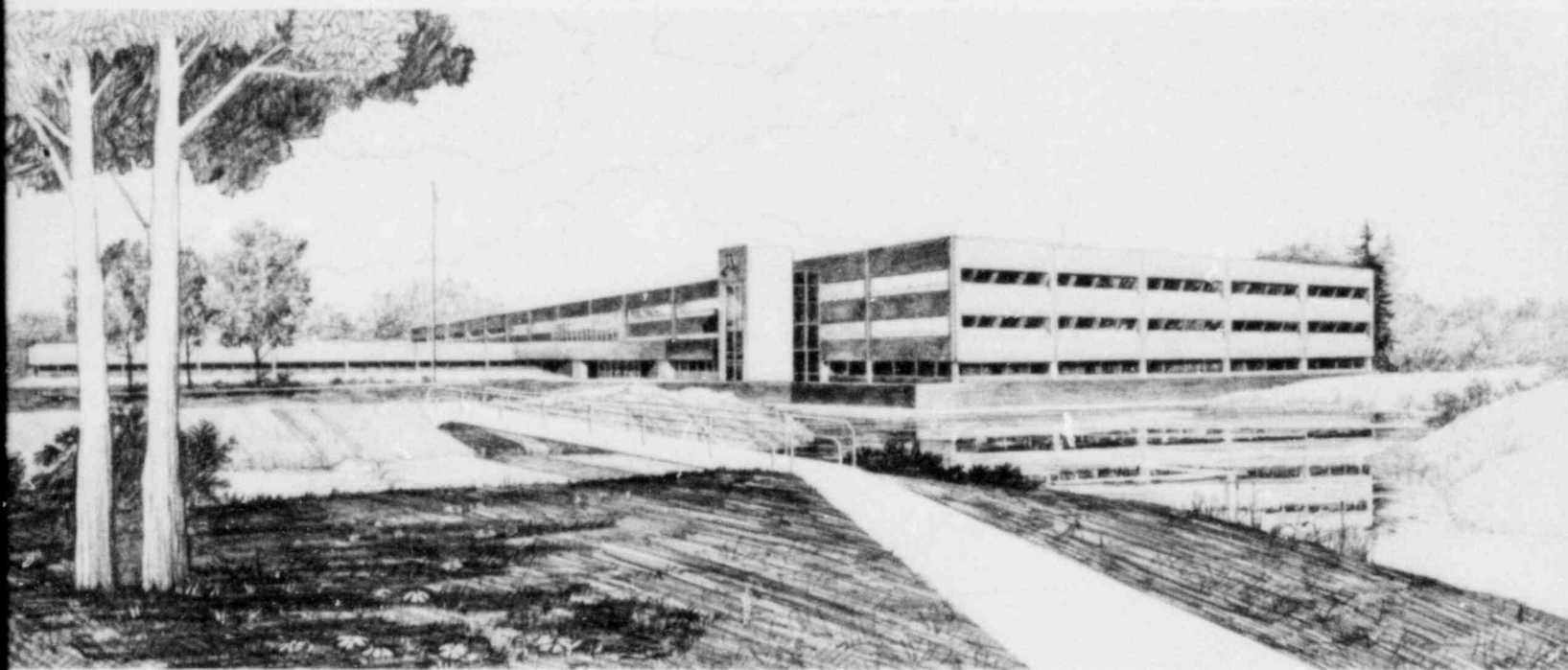
LOFT MONTHLY PROGRESS REPORT

FOR JUNE 1982

L. P. Leach

U.S. Department of Energy

Idaho Operations Office • Idaho National Engineering Laboratory



This is an informal report intended for use as a preliminary or working document

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This document was prepared primarily for preliminary or internal use. It has not received full review and approval. Since there may be substantive changes, this document should not be considered final.

EG&G Idaho, Inc.
Idaho Falls, Idaho 83415

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INTERIM REPORT

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LOFT MONTHLY PROGRESS REPORT FOR JUNE 1982

LOFT MANAGER'S MONTHLY SUMMARY

Experiment L2-5 was completed on the target date of June 16, 1982, in the Loss-of-Fluid Test (LOFT) facility. The principal work effort now in progress in the LOFT Experimental Program is the preparation for LOFT Experiment L6-8 (series) to be conducted during the target period of August 15 through September 1, 1982. Preparation is also in progress for LOFT Experiment L9-4 to be conducted on the target date of September 22, 1982.

Experiment L2-5 was the third experiment in the LOFT Power Ascension Experiment Series L2. Experiment L2-5 simulated a guillotine (offset shear) break in the inlet pipe of a commercial pressurized water reactor simultaneous with a loss of site power. In addition, an atypical primary coolant pump coastdown was imposed in an attempt to avoid the early bottom-up core-wide rewet which occurred in the earlier two Series L2 experiments, L2-2 and L2-3.

The early primary coolant pump trip and atypical coastdown were sufficient to avoid the early bottom-up rewet. A peak temperature of 1077 K (1479°F) was reached and data were collected on core reflood and quench on fuel rods which did not experience early return to nucleate boiling. These are the first such data collected in LOFT from conditions which are specified in 10 CFR 50 Appendix K for loss-of-coolant accident analysis. With the exception of early bottom-up rewet, the thermal and hydraulic responses during Experiment L2-5 were qualitatively similar to those that occurred during Experiment L2-3.

The financial status of the LOFT Program through June 1982 indicates a continued close tracking of the actual cost to the LOFT 2-year baseline budget. The configuration used for this month's report is Q82-2-3. This includes all approved changes to the LOFT 2-year baseline through June 1982. A detailed review of the year-to-date budget versus actual cost variance comments is included in this report following the "Accomplishments" section.

ACCOMPLISHMENTS

LOFT Technical Support Division

1. Drawings for the flow skirt removal cask were released for fabrication.
2. Bids for the design and fabrication of the fuel handling underwater viewing system were received. The order was placed with the low bidder.
3. Modification and checkout of the control console for the fuel module insertion and removal cask were completed.
4. The design for the adaptor-liner for the new spent resin containers in the subsurface disposal area vaults at the Waste Management Facility was completed.
5. The checkout of the waste gas processing system (WGPS) recombiner was completed. The lead check was also completed, and the system was operational for Experiment L2-5.
6. Experiment L2-5 was successfully completed without damage to any reactor cooling system equipment.
7. The programmatic risk assessment document (PRAD) was issued for the conduct of Experiment L2-5.
8. The Experiment L2-5 Mode 8 safety analysis documentation was issued.
9. The following supporting documents for the safety analysis associated with the conduct of Experiment L2-5 were issued:
 - a. LO-08-82-196, "L2-5 Mode 9 Experiment Safety Analysis (ESA)"
 - b. LO-08-82-198, "LOFT L2-5 Pre-Loss-of-Coolant Experiment (LOCE) Maneuver Core Safety Analysis"

- c. LO-08-82-199, "Failure Mode Effects and Consequence Analysis (FMECA) for Large Break Test L2-5."
10. The ESA for Experiment L2-5 was approved and issued.
11. The following document revision requests (DRRs) authorizing changes to LOFT technical specifications were issued:
 - a. DRR L-3856, WGPS operation
 - b. DRR L-5342, L2-5 Mode 8 operations
 - c. DRR L-5343, L2-5 Mode 9 operations.
12. DRRs L-5446 and L-5524 were issued authorizing changes to the LOFT Final Safety Analysis Report (FSAR) that had been identified in recent facility change forms (FCFs).
13. LOFT Report LO-04-82-028, "Setpoints for WGPS Radiation Monitors," which establishes the LOFT technical specification setpoints, was issued.
14. The Three Mile Island (TMI) status reports for the second quarter of 1982 and for June 1982 were issued.
15. Exxon Nuclear Company completed the F2 fuel bundle design drawings, standard fuel rod depressurization or repressurization to 600 psi, fuel bundle skeleton assembly, and the initial instrumented fuel rods.
16. Battelle Pacific Northwest Laboratories completed attachment of 26 of 64 F2 fuel rod cladding thermocouples.
17. Presentations discussing the thermocouple problem analysis and the F2 fuel bundle cladding thermocouple life cycle testing were made to the Nuclear Regulatory Commission (NRC); Department of Energy, Idaho Office (DOE-ID); and the Light Water Reactor Fuel Research Division.

18. An abstract, entitled "Loss of Fluid Test Findings in Pressurized Water Reactor Loss-of-Coolant Accident Core Cooling," was accepted for presentation at the Thermal Engineering Joint Conference Session on Two-Phase Flow and Boiling Heat Transfer to be held at Honolulu, Hawaii.
19. The LOFT Fuel Requalification Working Group recommendation that the core be qualified for Experiment L2-5 was accepted by the Fuel Requalification Review Committee with (a) the condition that power escalations are restricted until fuel preconditioning is reestablished and (b) a precaution to prepare for core instrument failures.
20. Delivery of all required F2 fuel bundle pressure sensors was completed to Exxon Nuclear Company.

LOFT Facility Division

1. Inservice inspection and waste gas processing system, isotope detection system, and surveillance testing were completed in preparation for Experiment L2-5.
2. Experiment Operating Procedure (EOP) L2-5, "Power Ascension Test Series L2," was successfully completed.
3. Experiment L2-5 requalification testing, including pump operations and cold rod drops, was performed.

LOFT Program Division

1. The following papers were completed and submitted to the Second International Topical Meeting on Nuclear Reactor Thermal-Hydraulics to be held at Santa Barbara, California, on January 11-14, 1983:
 - a. "Primary Pump Power as a Measure of Fluid Density During Bubbly Two-Phase Flow"

- b. "Natural Circulation Cooling Characteristics During PWR Accident Simulations"
 - c. "Effects of Cladding Surface Thermocouples and Electrical Heater Rod Design on Quench Behavior"
 - d. "Application of an Assessed Analytical Capability to Predict Rapid Cladding Quench During the Blowdown Phase of a Large Break Loss-of-Coolant Accident."
2. The Quick-Look Report for LOFT Experiment L2-5 (EGG-LOFT-5921) was completed.
3. Two LOFT personnel were members of the NRC-LOFT team which visited most of the European laboratories participating in the current LOFT program. Technical information was exchanged, and several presentations on LOFT results were given at each laboratory. Preparations are continuing for a similar information exchange with Japan, Taiwan, and South Korea, scheduled for late July 1982.
4. The following LOFT topical reports were completed and issued:
 - a. EGG-LOFT-5555, "Evaluation of Analytical Capability to Predict Blowdown Cladding Quench During a PWR Large Break Accident"
 - b. EGG-LOFT-5865, "A Comparison of Thermal Hydraulic Response of Three Large Break Test Facilities."
5. A paper, entitled "The LOFT Pulsed Neutron Activation System of Fluid Flow Measurement," was presented at the American Institute of Aeronautics and Astronautics/American Society of Mechanical Engineers Symposium in St. Louis, Missouri. A paper, entitled "Automated Data Qualification (ADQ)," was presented at the 1982 Symposium on Instrumentation and Control for Fossil Energy Processes in Houston, Texas.

6. The Experiment Data Report for LOFT Experiment L6-6 was published on schedule.
7. The posttest analysis documents for Experiments L5-1/L8-2 and L9-1/L3-3 are in final review and editing.
8. A presentation discussing the past LOFT Experimental Program was made to DOE-Washington personnel at the request of DOE-ID.

Foreign-Funded Task Summaries

Foreign funded projects are summarized in this section.

Summary of Tasks Funded by Japan (JAERI)

Numerous checkout tests for the postcritical heat flux (post-CHF) test section were conducted, and numerous data acquisition system, instrumentation, and hardware problems had to be resolved before acceptable data could be recorded. Orifice flow measurements were added to complement the turbine meter measurements.

Summary of Tasks Funded by Germany (FRG)

Results from the calculation for Experiment L3-7 were documented.

Work was performed for the F2 fuel rod pressure transducer temperature compensation. The algorithm derivation for all 31 Kaman pressure sensors was completed. All of the pressure sensors were delivered to Exxon Nuclear Company, and the end caps were welded to the transducers.

Summary of Tasks Funded by France (CEA)

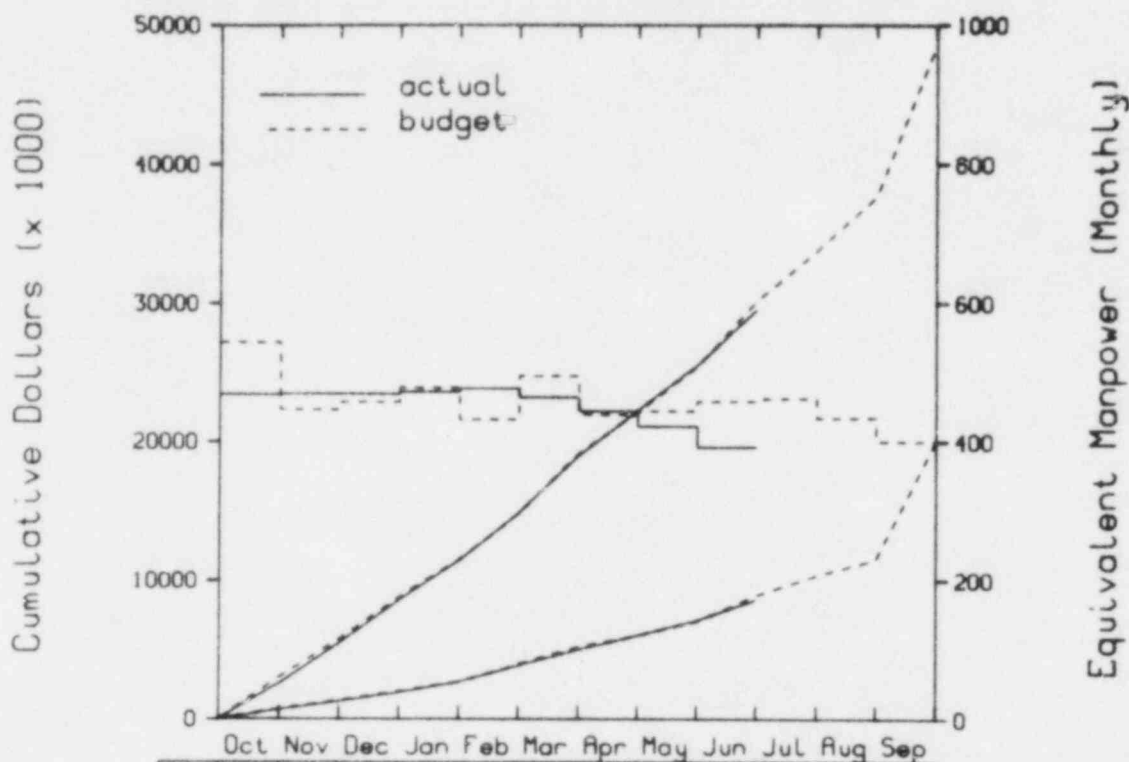
The Kaman pressure sensors and electronics were delivered to Westinghouse at the Hanford Engineering Development Laboratory for algorithm derivation. Plans for testing pressure transducers at Westinghouse and Exxon Nuclear Company were completed.

LOFT Overall Funding

5xxxxx

9xxxxx

LOFT Program Cost/Budget Summary
LOFT OVERALL FUNDING



		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total	Bud	3006	5760	8791	11500	14789	19141	22181	25438	30177	33807	37662	48614
	Act	2577	5480	8570	11432	14872	18996	22286	25558	29565			
Material	Bud	742	1318	2008	2649	3955	5204	6016	7030	8924	10355	11506	20072
	Act	659	1261	1902	2676	3858	4996	6013	7120	8604			
Manpower	Bud	543	446	457	478	432	495	439	444	458	462	434	400
	Act	468	469	459	472	477	464	444	422	392			

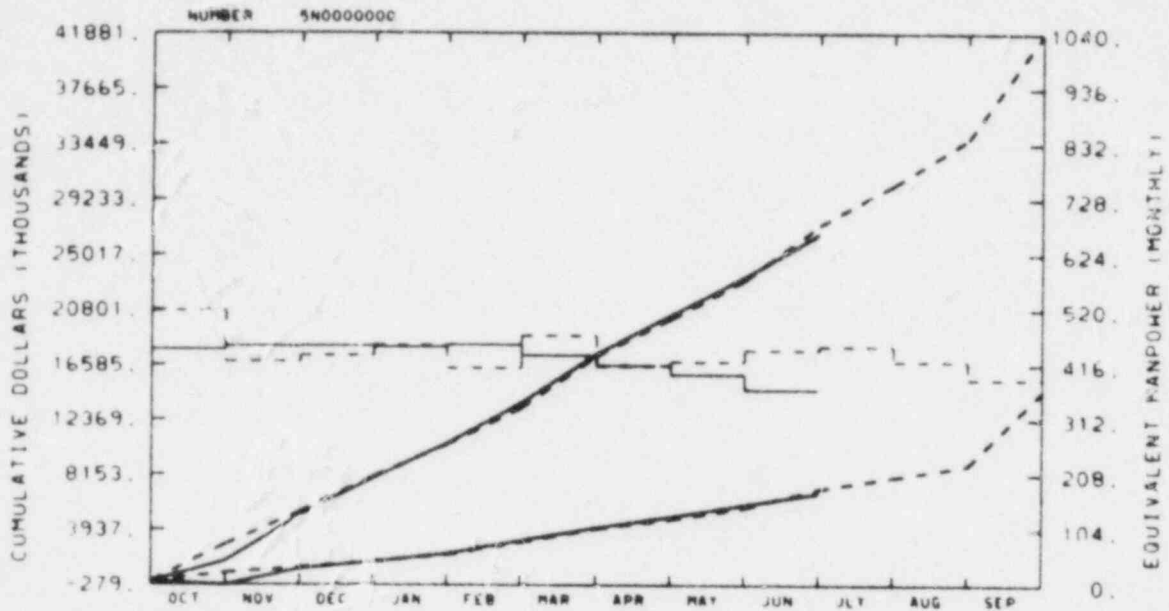
The NRC operating, foreign funded, and capital equipment budgets reflect the LOFT Q82-2, Rev. 3 baseline with approved changes through June 1982. The year-to-date underrun is within 2% of the budgeted costs of work scheduled. Refer to the Manager's Monthly Summary for comments. The above figures and other cost graphs exclude LTSF, A6108, A6308, A6363, A6384, and DOE Improved Licensing Criteria (categorized as RES-Other).

5N--NRC Operating Funding

5F--Foreign Funding

9R--Capital Equipment Funding

EG&G IDAHO INC.
LOFT-NPC OPERATING FUNDS



TOTAL PROGRAM												
BUDGET	2796	5295	8009	10454	13260	17289	20098	23094	27291	30336	33852	41873
ACTUAL	1543	5005	7895	10514	13665	17433	20393	23344	26634			

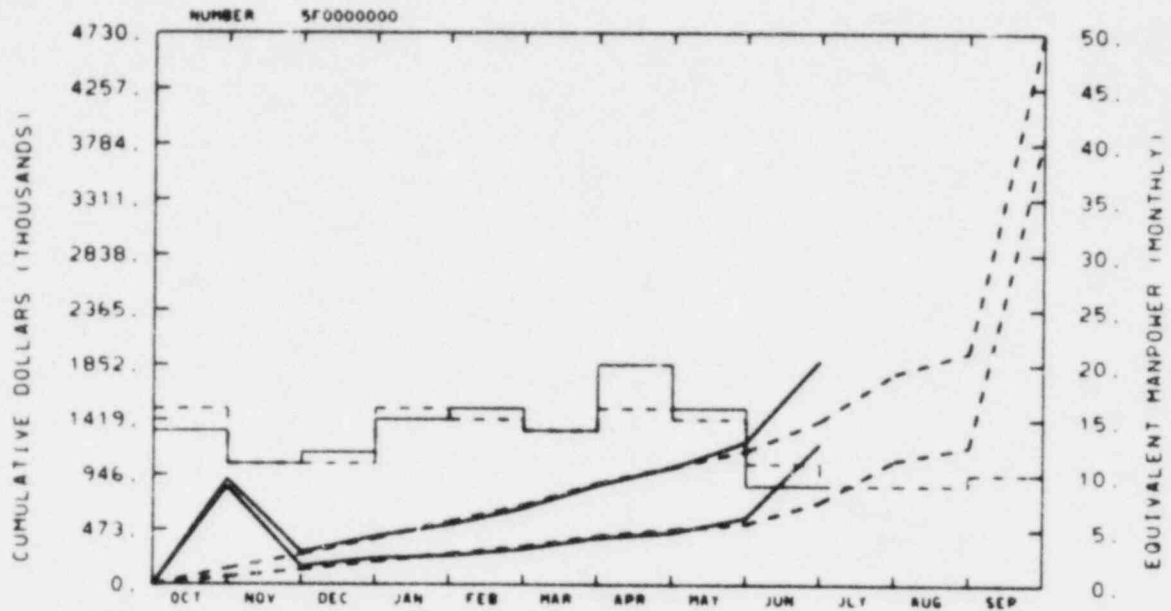
MATERIAL												
BUDGET	638	1073	1566	2056	2987	4057	4767	5630	7075	7980	8869	14575
ACTUAL	278	973	1503	2138	3141	4113	4947	5861	6769			

FANPOWER												
BUDGET	518	422	434	453	410	471	414	422	444	451	423	389
ACTUAL	445	451	452	450	454	434	415	398	365			

BUDGET
- - - - -
ACTUAL

The year-to-date underrun is within 2% of the budgeted cost of work scheduled. Refer to the lower graphs for a more detailed variance of cost versus budget comments and review. No significant variances are anticipated at year end.

EG&G IDAHO INC.
LOFT-FOREIGN FUNDING



TOTAL PROGRAM		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		138	259	396	541	681	870	1014	1149	1411	1815	1999	4722
ACTUAL		907	275	414	515	658	856	1008	1228	1930			

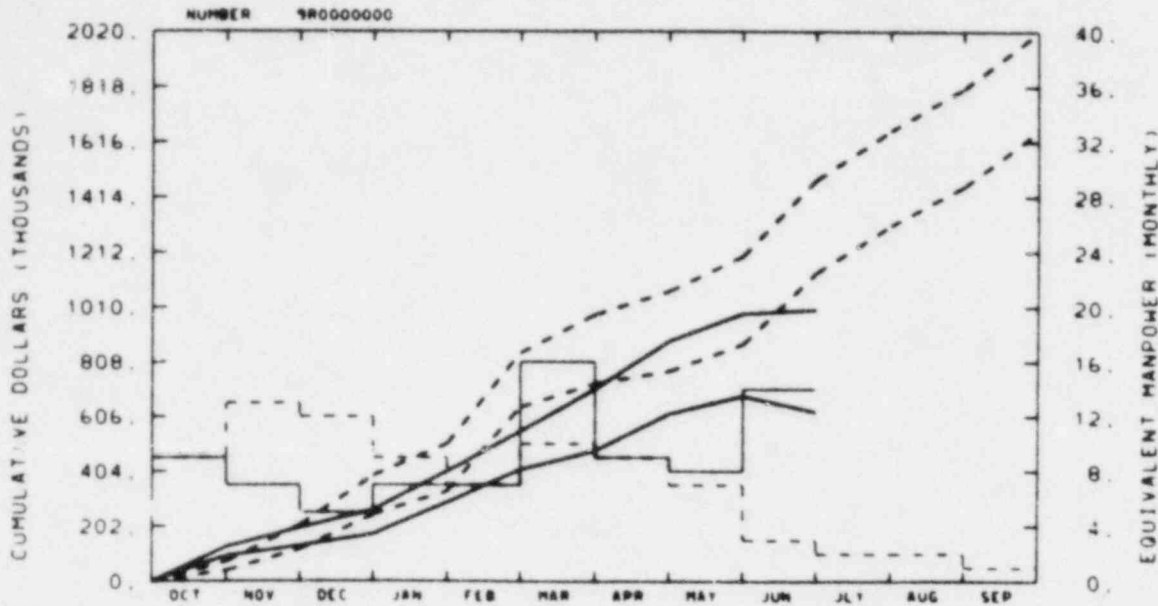
MATERIAL		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		65	127	198	263	328	420	476	527	714	1067	1185	3841
ACTUAL		843	157	226	248	307	404	450	577	1213			

MANPOWER		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		16	11	11	16	15	14	16	15	11	9	9	10
ACTUAL		14	11	12	15	16	14	20	16	9			

BUDGET
- - - - -
ACTUAL

The overrun of <\$519K> was primarily due to the use of inappropriate charge numbers relating to the F2 fuel bundle task. A cost transfer will be made to correct this situation. Refer to the lower level graphs for a more detailed variance review.

EG&G IDAHO INC.
LOFT-CAPITAL EQUIPMENT



TOTAL PROGRAM												
BUDGET	72	206	387	505	840	982	1069	1195	1475	1656	1811	2019
ACTUAL	127	156	261	403	551	707	885	986	1001			

MATERIAL												
BUDGET	39	118	244	330	640	727	773	873	1135	1308	1452	1656
ACTUAL	94	131	173	290	410	479	616	682	622			

MANPOWER												
BUDGET	9	13	12	9	7	10	9	7	3	2	2	1
ACTUAL	9	7	5	7	7	16	9	8	14			

BUDGET

ACTUAL

There is a year-to-date underrun of \$474K due to actual work performed being behind schedule and costs being incurred (~\$200K) in inappropriate charge numbers. A recovery plan is still in progress to correct this problem. The capital equipment budget will be realigned to reflect current spending performance and criteria.

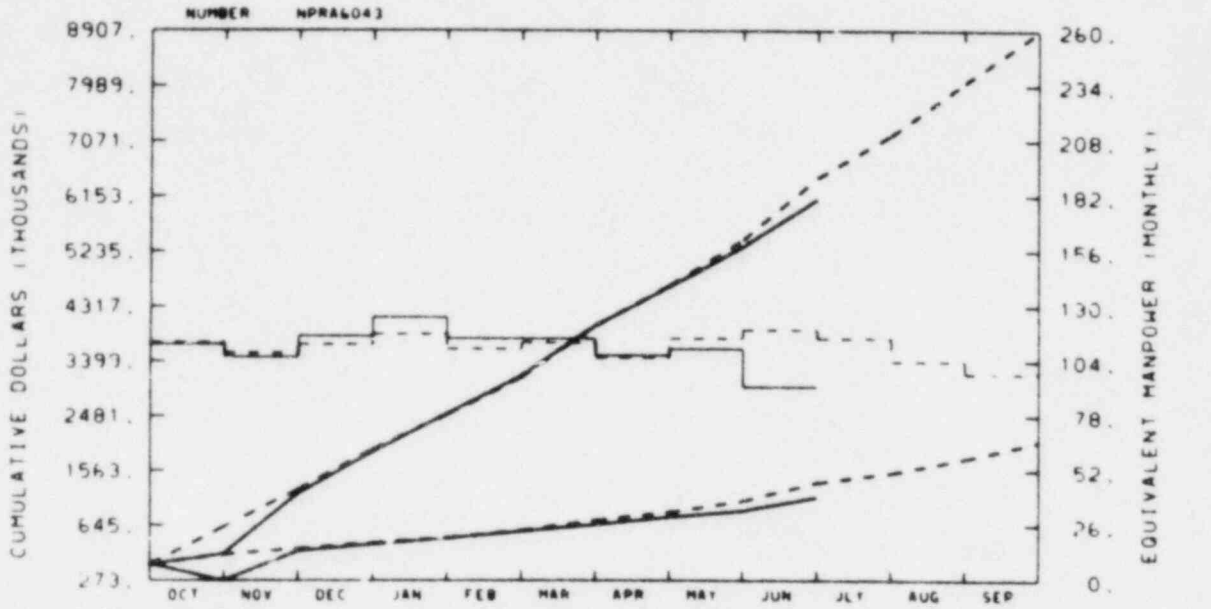
LOFT 189a Summary

5NX--NRC 189a

5FXX--Foreign 189a

9RX--Capital Equipment 189a

EG&G IDAHO INC.
MEASUREMENTS - 53



TOTAL PROGRAM

BUDGET	619	1245	1917	2505	3136	4006	4675	5433	6465	7171	8046	8906
ACTUAL	74	1177	1880	2521	3168	4007	4656	5218	6108			

MATERIAL

BUDGET	160	259	355	438	562	729	870	1055	1364	1528	1766	2049
ACTUAL	272	221	332	436	549	663	786	894	1121			

MANPOWER

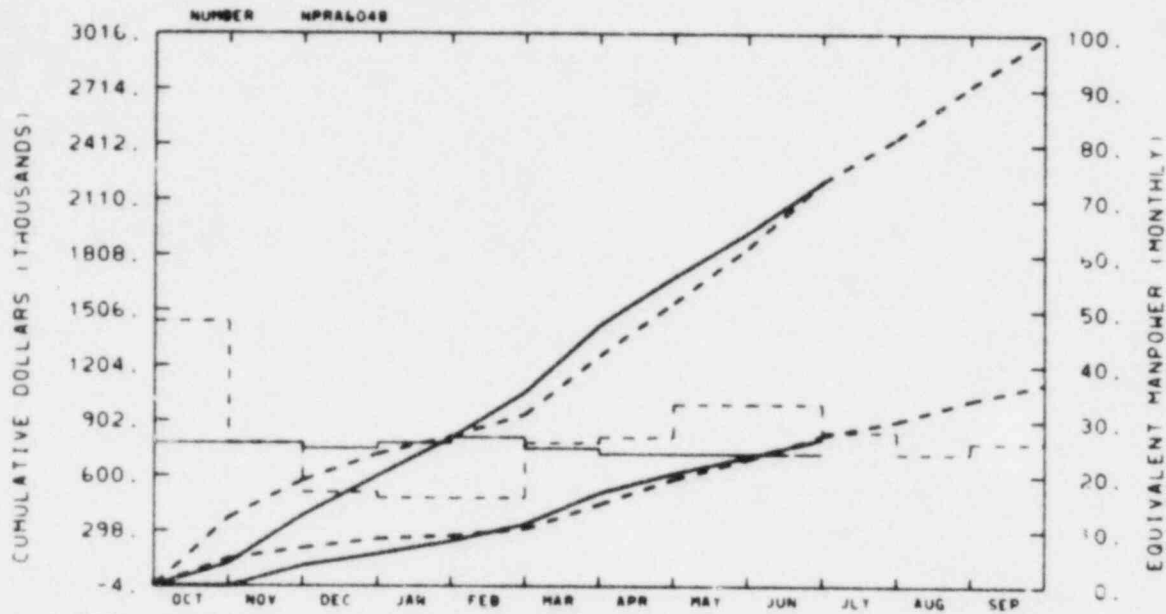
BUDGET	113	108	112	117	110	113	106	115	119	115	104	98
ACTUAL	112	106	116	125	115	115	107	110	92			

BUDGET

ACTUAL

The underrun is due to (a) changes in programmatic requirements eliminating the need for the pulse neutron analyzer (PNA) for Experiment L9-4, (b) manpower being spent on the F2 fuel bundle task delaying activity on some non-F2 fuel bundle tasks, and (c) increased software efficiencies in automated data qualification (ADQ) resulting in lower expenditures than originally anticipated. Change Control Board (CCB) forms are being prepared to reflect the adjustment of these items.

EG&G IDAHO INC.
EXPERIMENTAL PROGRAM - 51



TOTAL PROGRAM		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		369	575	719	817	936	1258	1549	1848	2210	2446	2734	3006
ACTUAL		120	383	600	808	1057	1425	1688	1930	2208			

MATERIAL		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		117	203	255	272	309	413	581	691	822	903	1017	1108
ACTUAL		3	108	173	242	335	406	614	703	803			

MANPOWER		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		48	26	17	16	16	26	27	33	33	28	24	26
ACTUAL		26	26	25	26	27	25	24	24	24			

BUDGET

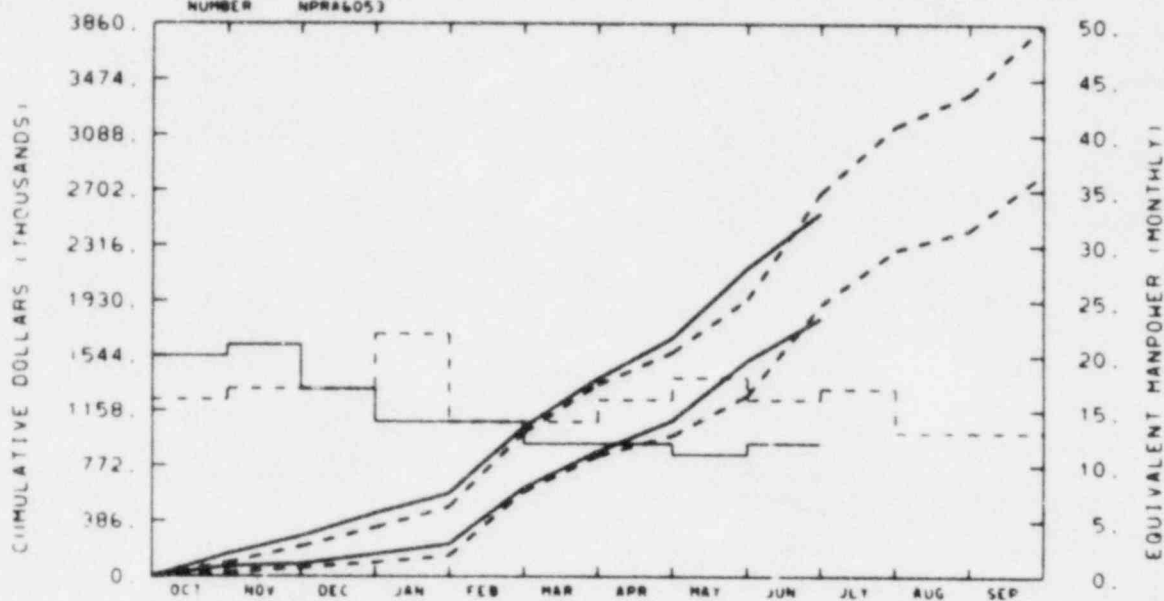
ACTUAL

There is no significant variance at this level of control. Lower level summary cost account (SCA) variations indicate a current and potential small year-end underrun in SCA 5114, a current overrun in SCA 5115 which is being effectively managed and will be on budget at year end, and a current overrun on SCA 5116 which is being worked with the intent of returning to budget at year end. SCA 5117 is on budget, when recent CCB adjustments are accounted for, and year-end budget and cost are expected to agree. Present expectations are that the A6048 year-end costs will be at or slightly below budget.

EG&G IDAHO INC.

FUEL - 52

NUMBER NPR46053



TOTAL PROGRAM

BUDGET	15	209	340	484	1001	1244	1570	1944	2684	3151	3377	3856
ACTUAL	156	280	440	578	1045	1388	1672	2161	2546			

MATERIAL

BUDGET	28	59	100	144	590	841	982	1264	1904	2288	2428	2825
ACTUAL	71	88	157	228	618	873	1088	1513	1812			

MANPOWER

BUDGET	16	17	17	22	14	14	16	18	16	17	13	13
ACTUAL	20	21	17	14	14	12	12	11	12			

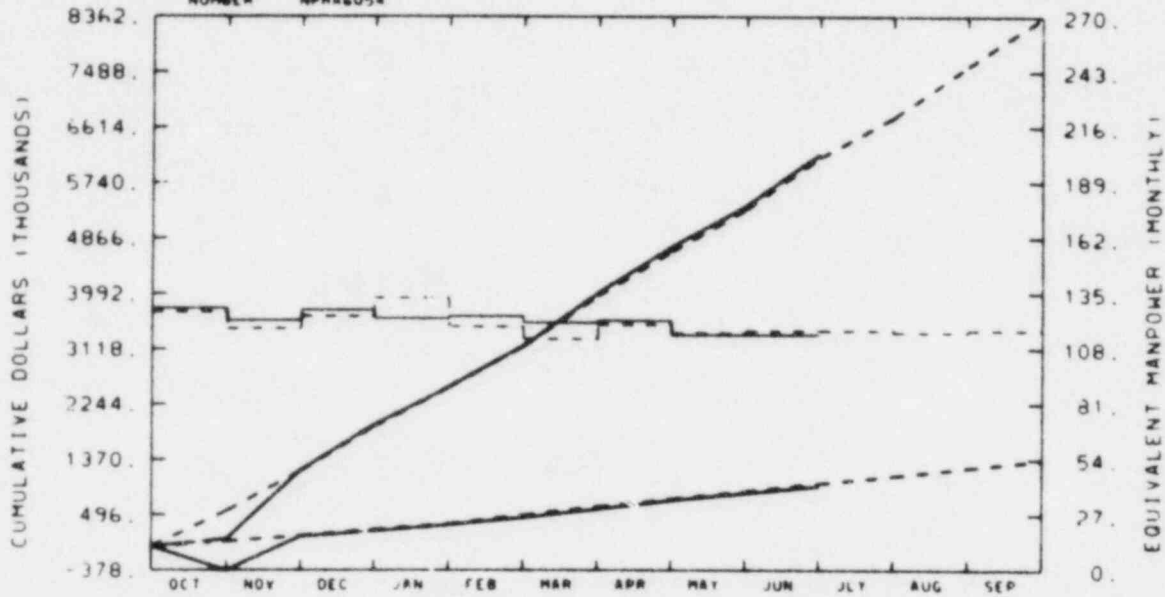
BUDGET

ACTUAL

The underrun is due to (a) unavailability of key manpower for fuel rod laser profilometry conceptual design; (b) less-than-planned manpower support for fuel requalifications; and (c) reluctance to incur costs for fuel rod defect scanner decontamination, repair, and upgrade until decisions on the location of fuel examination are made. A CCB has been prepared to revise the cost and schedule estimates appropriately.

EG&G IDAHO INC.
OPERATIONS - 57

NUMBER NPR46054



TOTAL PROGRAM		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		561	1189	1884	2513	3164	3964	4660	5330	6138	6773	7579	8353
ACTUAL		118	1222	1918	2510	3165	4012	4736	5381	6195			

MATERIAL		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		80	169	267	356	493	632	750	868	996	1110	1237	1360
ACTUAL		377	56	243	339	457	591	731	845	952			

MANPOWER		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		126	118	124	133	119	113	120	116	117	117	116	117
ACTUAL		128	122	127	123	124	121	122	115	115			

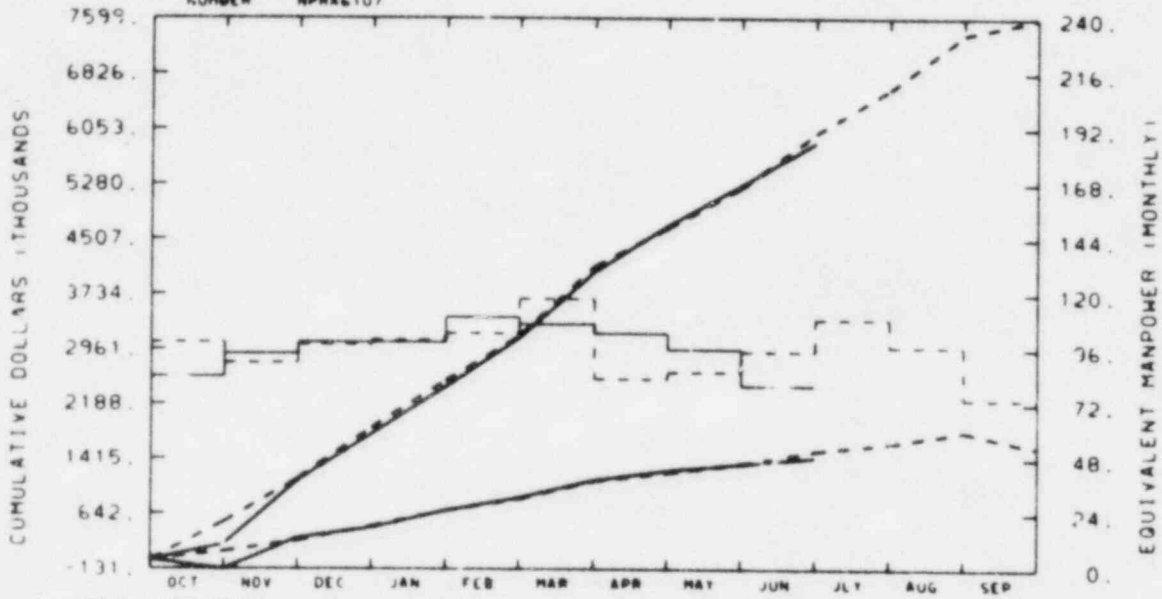
BUDGET

ACTUAL

No significant variance is anticipated by fiscal year end. Refer to the lower level cost graphs for further detailed variance comments.

EG&G IDAHO INC.
TECH SUPPORT - 54

NUMBER NPR6107



TOTAL PROGRAM												
BUDGET	524	1129	1850	2519	3150	4121	4664	5231	5995	6605	7374	7593
ACTUAL	214	1105	1760	2429	3123	4047	4702	5272	5866			

MATERIAL												
BUDGET	113	263	468	688	849	1134	1216	1349	1528	1631	1801	1574
ACTUAL	130	301	448	666	870	1116	1251	1344	1436			

MANPOWER												
BUDGET	99	90	98	100	103	118	93	86	95	109	97	74
ACTUAL	84	94	99	99	110	107	103	96	70			

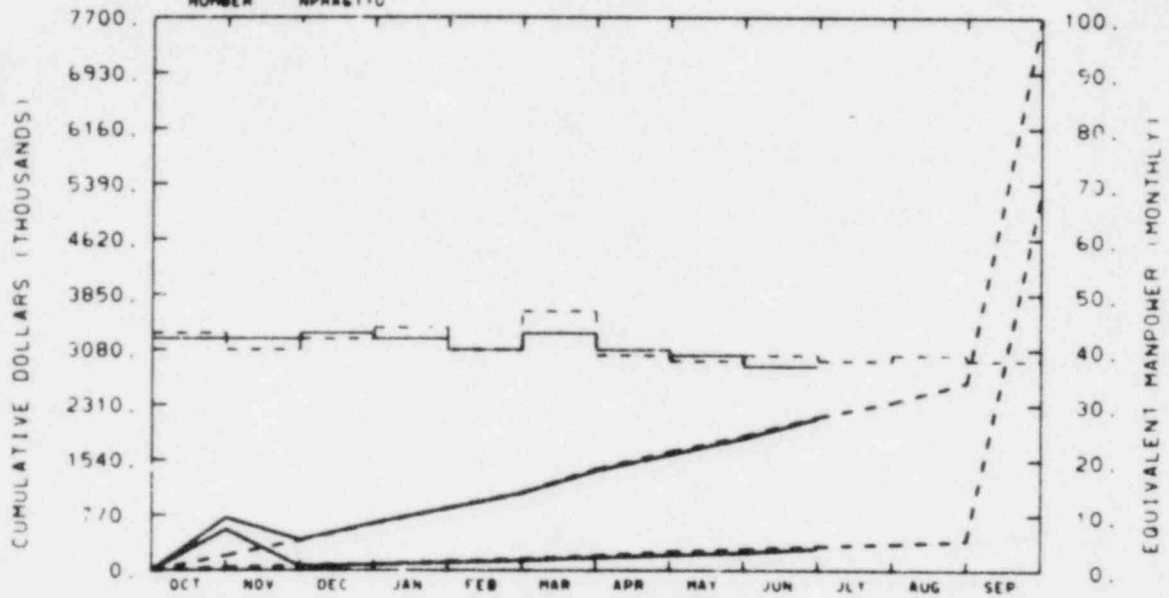
BUDGET

ACTUAL

No significant variance. Refer to the lower level cost graphs for a more detailed variance review.

EG&G IDAHO INC.
COMMON SUPPORT - 56

NUMBER NPRA6110



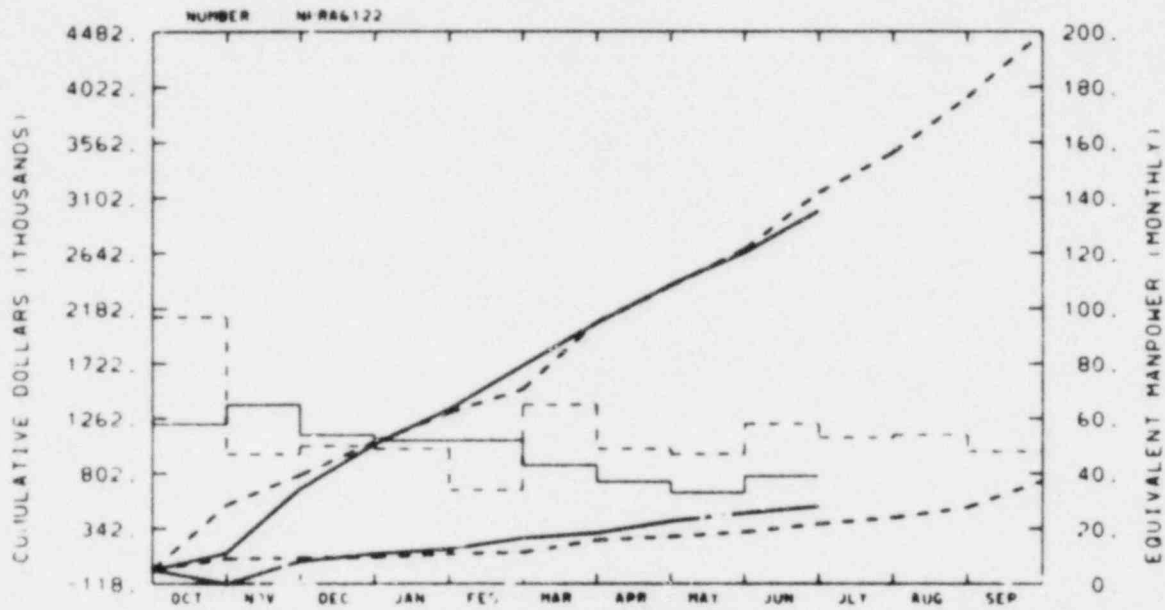
TOTAL PROGRAM												
BUDGET	208	421	654	871	1085	1416	1659	1872	2149	2355	2625	7691
ACTUAL	733	428	663	868	1083	1395	1622	1848	2132			

MATERIAL												
BUDGET	41	67	92	126	163	210	265	311	344	377	420	5276
ACTUAL	570	64	85	112	142	185	219	252	310			

MANPOWER												
BUDGET	43	40	42	44	40	47	39	38	39	38	39	38
ACTUAL	42	42	43	42	40	43	40	39	37			

No significant variance.

CS&G IDAHO INC.
CORE & SAFETY SUPPORT - 55



TOTAL PROGRAM

BUDGET	540	789	1065	1313	1501	2069	2371	2671	3142	3476	3938	4472
ACTUAL	141	674	1048	1342	1705	2063	2380	2647	2990			

MATERIAL

BUDGET	92	99	105	133	146	247	277	313	381	433	519	740
ACTUAL	-117	71	135	173	263	307	406	471	526			

MANPOWER

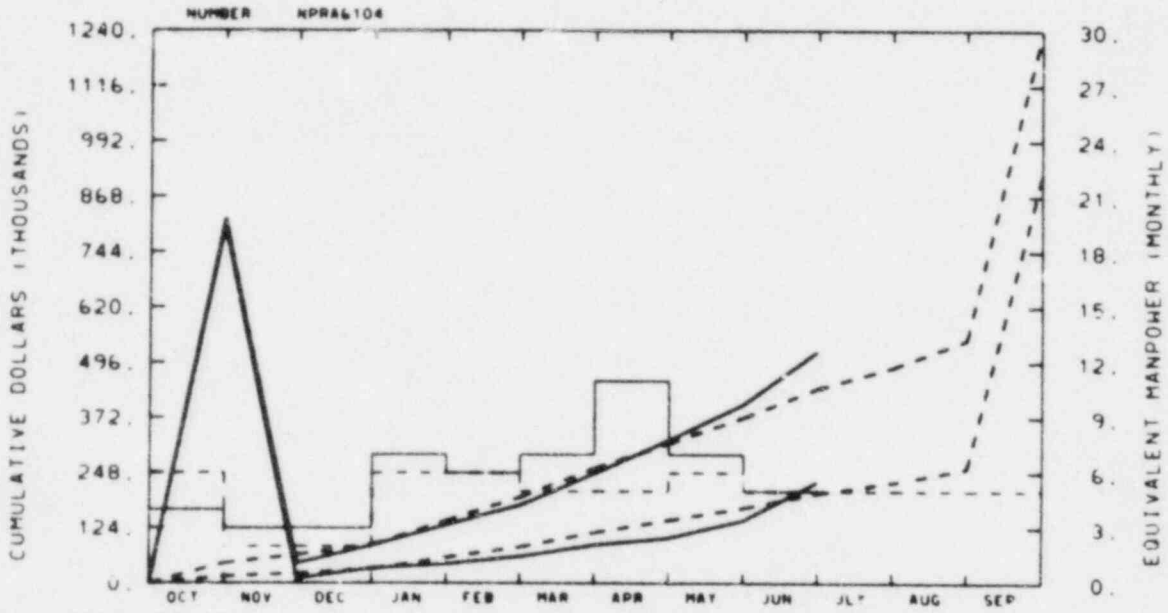
BUDGET	97	47	50	49	34	65	49	47	50	53	58	48
ACTUAL	58	65	54	52	52	43	37	33	39			

BUDGET

ACTUAL

Manpower budget for computer code configuration management system will not be expended in FY-1982. CCB action is in progress to return \$120K to Management Reserve.

EG&G IDAHO INC.
 GERMAN FUNDS - 5G



TOTAL PROGRAM

BUDGET	45	64	86	141	193	258	314	373	438	485	547	1237
ACTUAL	818	45	86	131	175	247	322	403	521			

MATERIAL

BUDGET	15	23	32	58	81	114	170	203	226	258	518
ACTUAL	802	11	34	44	60	86	102	142	228		

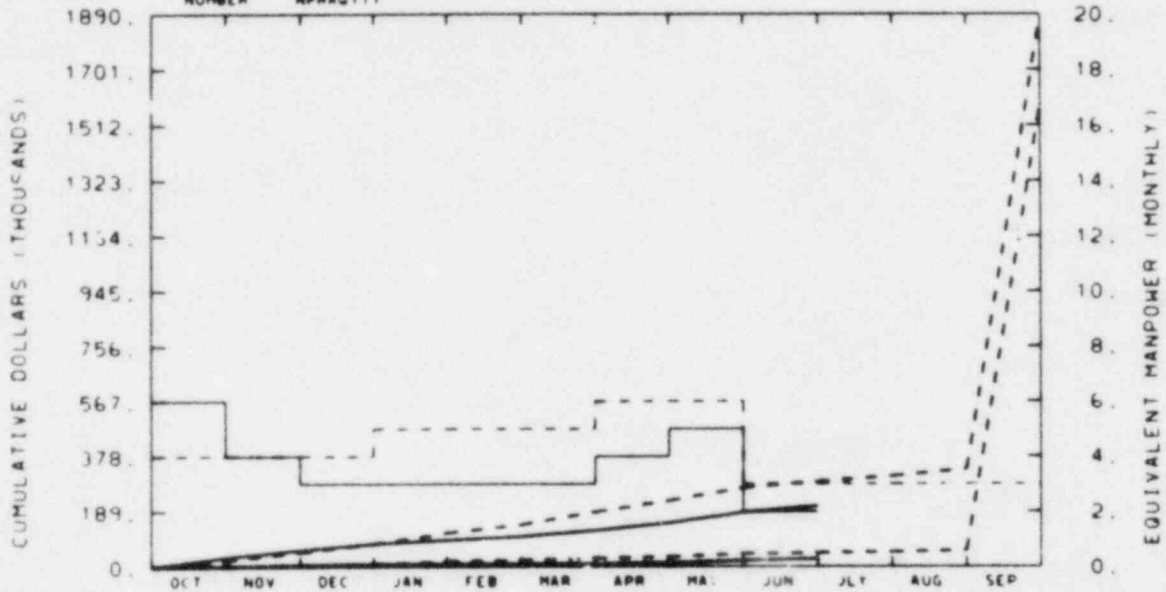
MANPOWER

BUDGET	6	2	2	6	6	5	5	6	5	5	5	5
ACTUAL	4	3	3	7	6	7	11	7	5			

The overrun is from early completion of work scope in the areas of labor and materials in the F2 fuel bundle instrument temperature compensation account. The budget and schedule will be modified to reflect the early accomplishment of this work scope.

EG&G IDAHO INC.
 JAPANESE FUNDS - 5J

NUMBER NPRA4111



TOTAL PROGRAM

BUDGET	23	50	79	117	145	188	227	269	292	310	334	1892
ACTUAL	33	58	79	92	104	125	151	186	208			

MATERIAL

BUDGET	3	6	9	20	24	30	35	45	48	52	56	1584
ACTUAL	3	7	11	11	11	11	15	22	28			

MANPOWER

BUDGET	4	4	4	5	5	5	6	6	3	3	3	3
ACTUAL	6	4	3	3	3	3	4	5	2			

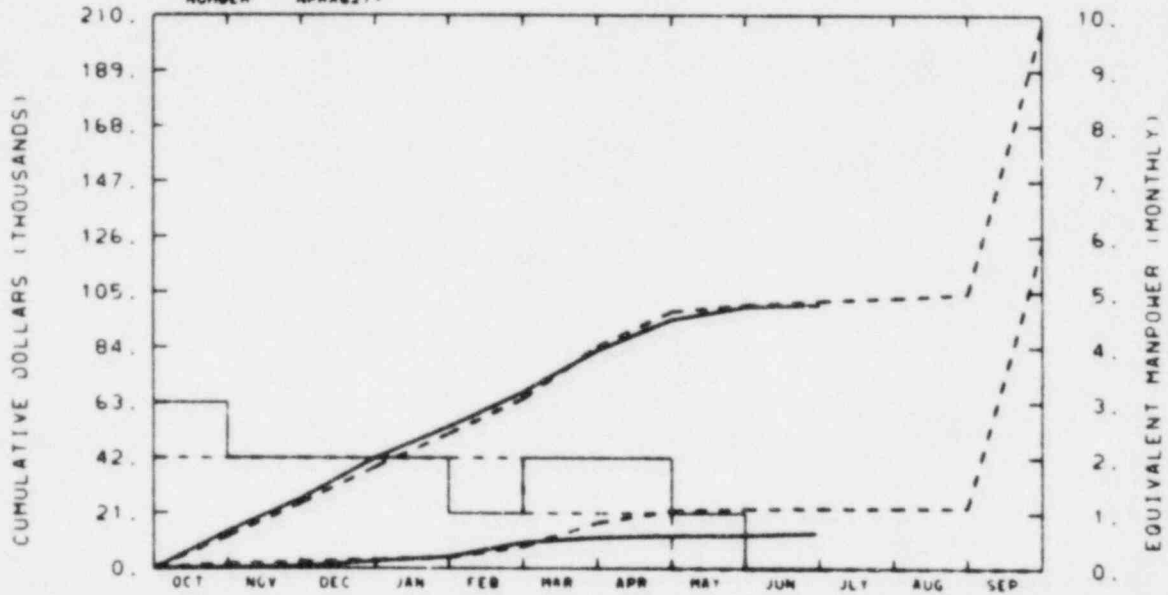
BUDGET

ACTUAL

The testing portion of the postcritical heat flux (post-CHF) task was delayed (which consequently delayed the analysis work that was budgeted) due to higher priority work at the LOFT Test Support Facility (LTSF). A management review of the post-CHF task has indicated budget and schedule adjustment requirements which will be submitted for CCB action.

EG&G IDAHO INC.
 NETHERLANDS FUNDS - 5N

NUMBER NPR&L271



TOTAL PROGRAM

BUDGET	12	25	39	51	64	84	98	100	102	103	104	205
ACTUAL	18	27	42	54	67	83	95	99	100			

MATERIAL

BUDGET	2	3	3	4	8	17	22	23	23	23	23	123
ACTUAL	0	1	3	4	10	12	12	13	14			

MANPOWER

BUDGET	2	2	2	2	2	1	1	0	0	0	0	0
ACTUAL	3	2	2	2	1	2	2	1	0			

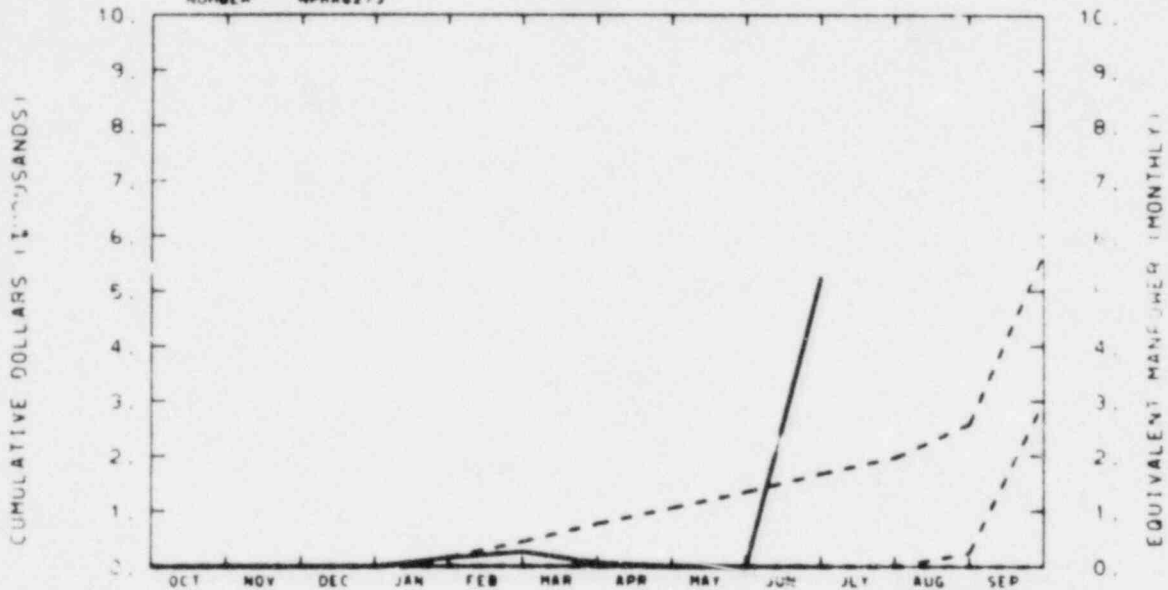
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
AUSTRIAN FUNDS - 5A

NUMBER NPRA6273



TOTAL PROGRAM

BUDGET	0	0	0	0	0	1	1	1	2	2	3	6
ACTUAL	0	0	0	0	0	0	0	0	5	0	0	0

MATERIAL

BUDGET	0	0	0	0	0	0	0	0	0	0	0	3
ACTUAL	0	0	0	0	0	0	0	0	5	0	0	0

MANPOWER

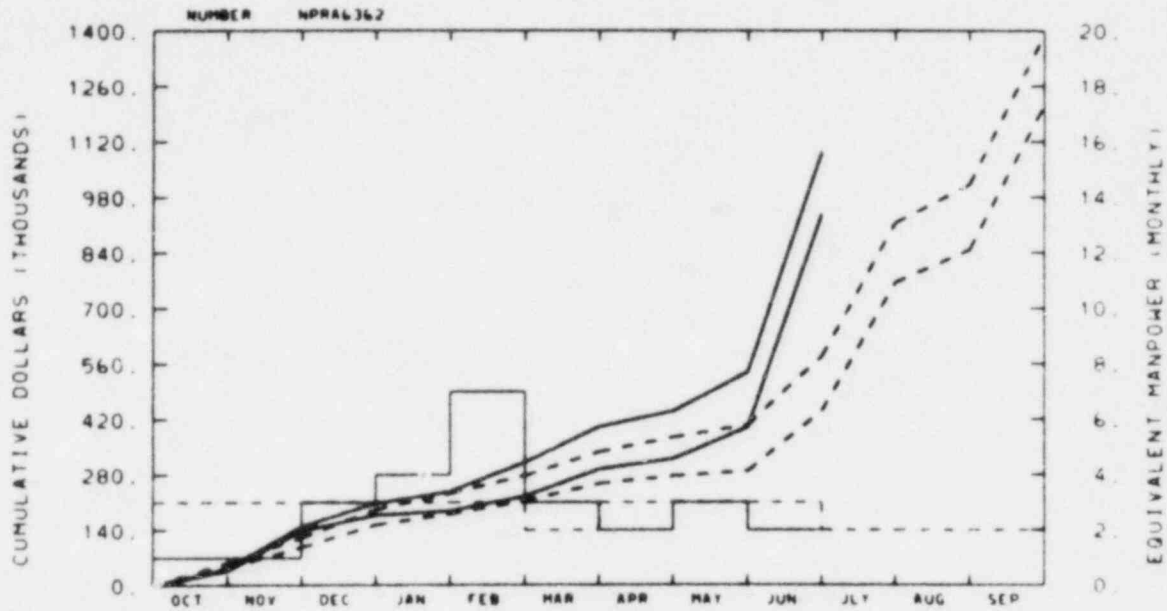
BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0

BUDGET

ACTUAL

This account was used in June for Nuclear Regulatory Commission (NRC) travel to Europe, including Austria, in support of the NRC-LOFT team annual information exchange. No overrun is anticipated, as these funds were being held for this trip.

EG&G IDAHO INC.
FRENCH FUNDS - 5F



TOTAL PROGRAM		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		17	121	192	233	278	338	375	406	578	916	1012	1191
ACTUAL		42	150	208	237	312	401	441	540	1095			

MATERIAL		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		16	97	153	181	214	258	276	289	440	766	847	1213
ACTUAL		37	138	178	188	226	294	321	400	938			

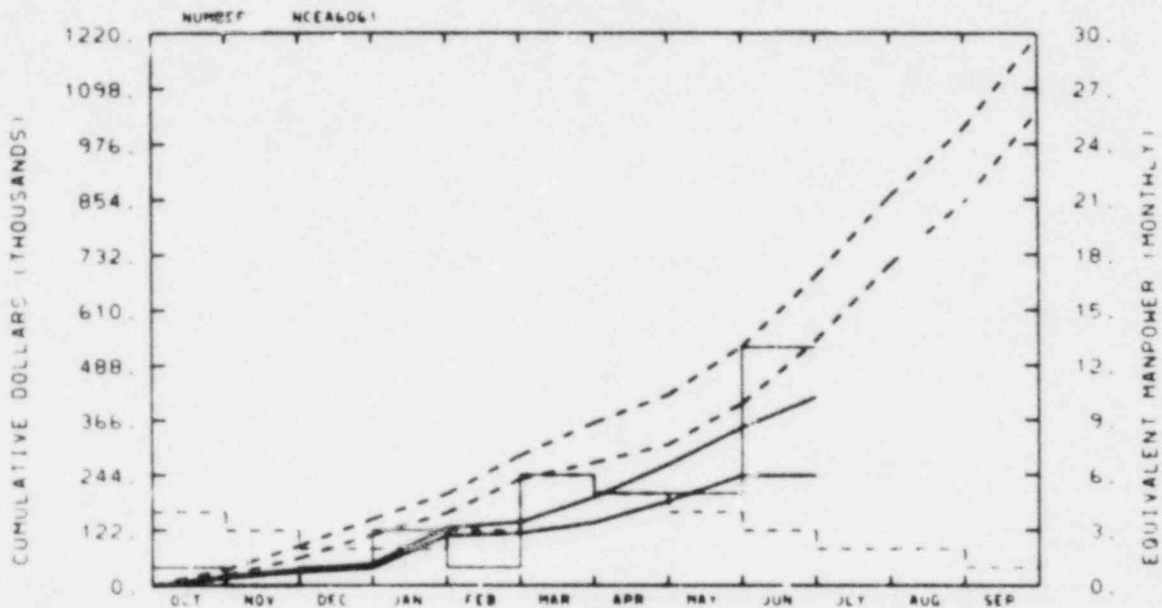
MANPOWER		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET		3	3	3	3	3	2	3	3	3	2	2	2
ACTUAL		1	1	3	4	7	3	2	3	2			

BUDGET

ACTUAL

The variance is due primarily to (a) early payments or accruals of the F2 fuel bundle instrumentation subcontract to Kaman Services (K6364), (b) delayed payments or accruals of the F2 fuel bundle design and assembly subcontract to Exxon Nuclear Company (K106), and (c) the Kaman subcontract contains components that are both operating (French funds) and LOFT capital equipment funds. The Kaman estimates were spread through June and July, while the payments and/or accruals were costed in June. The contract must be costed before the cost transfer can be prepared (scheduled for July business). The Exxon contracts have fluctuated slightly on a monthly basis, but are tracking with annual estimates and no problems are anticipated.

EG&G IDAHO INC.
MEASUREMENTS CAP EQUIPMENT - 9RL



TOTAL PROGRAM												
BUDGET	36	87	147	202	287	360	422	530	686	862	1011	1211
ACTUAL	21	36	49	128	140	195	268	350	418			

MATERIAL												
BUDGET	22	61	111	160	235	272	312	403	543	711	849	1048
ACTUAL	17	30	39	110	116	139	186	243	243			

MANPOWER												
BUDGET	4	3	2	2	3	6	5	4	3	2	2	1
ACTUAL	1	0	1	3	1	6	5	5	13			

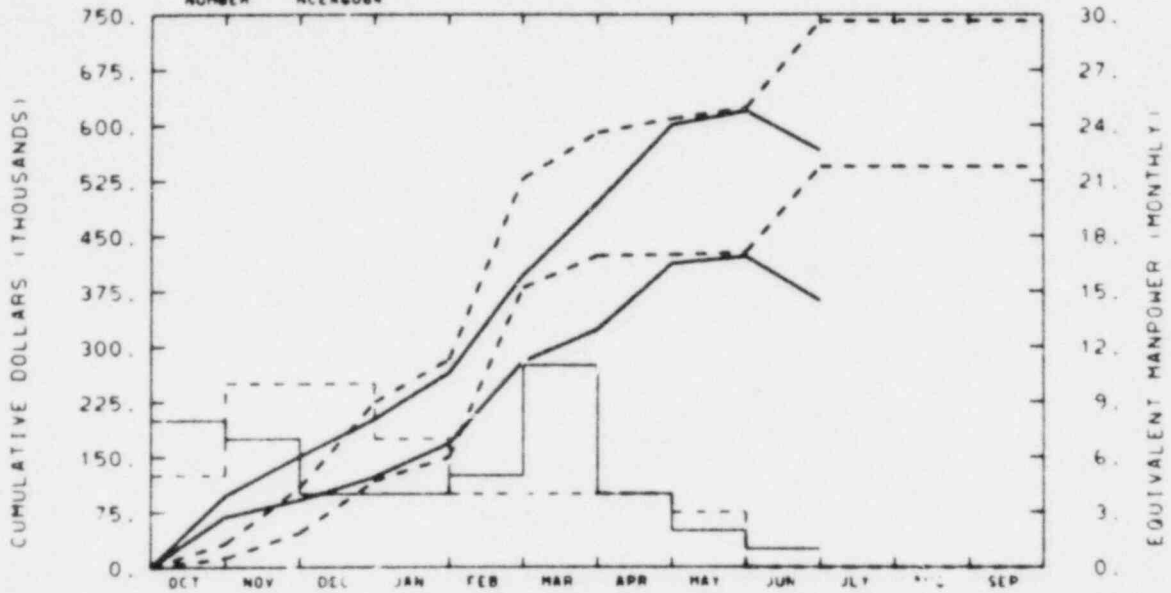
BUDGET

ACTUAL

The underrun is due to rescheduling receipt of F2 fuel bundle equipment to July, August, and September. A change control document has been prepared to realign the F2 fuel bundle task scope and the timing of the arrival of the equipment.

EG&G IDAHO INC.
TECH SUPPORT CAP EQUIPMENT - 9RT

NUMBER NCEA6084



TOTAL PROGRAM

BUDGET	32	109	125	283	528	590	609	623	741	742	742	742
ACTUAL	97	151	202	265	397	495	601	619	566			

MATERIAL

BUDGET	12	47	117	150	380	424	425	428	544	544	544	544
ACTUAL	69	72	173	169	280	324	413	422	362			

MANPOWER

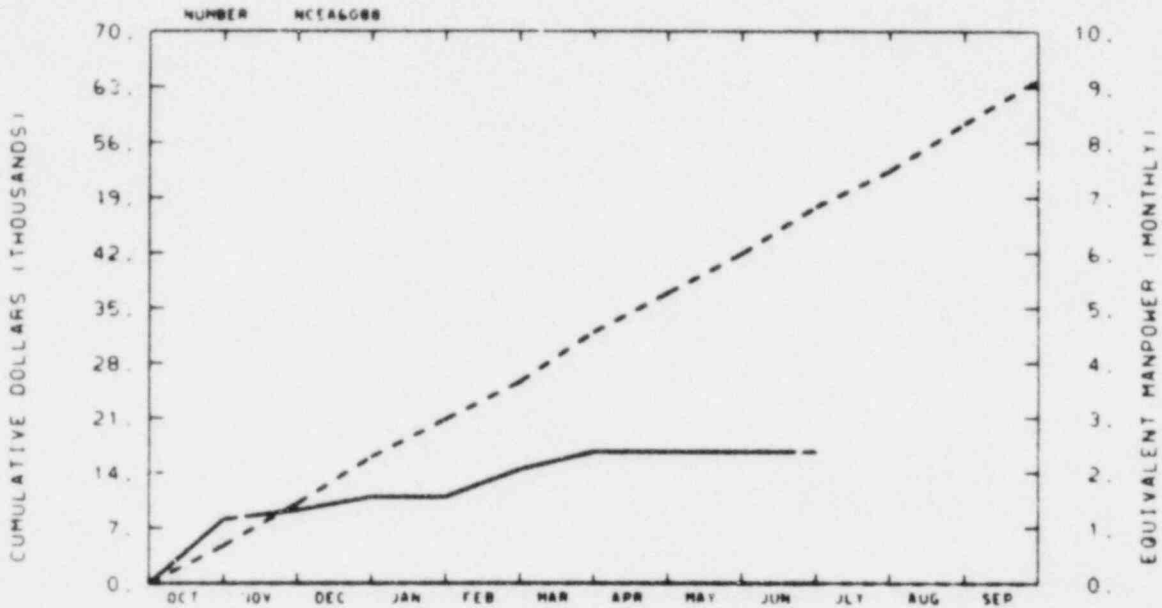
BUDGET	5	10	10	7	4	4	4	3	0	0	0	0
ACTUAL	8	7	4	4	5	11	4	2	1			

BUDGET

ACTUAL

The underrun is due to (a) reversing an accrual for materials received, but rejected by Quality, and (b) the current test schedule does not facilitate the starting and completion of some items. A change control document will be prepared to reflect the material delays and redirection of certain tasks.

EG&G IDAHO INC.
 OPERATIONS CAP EQUIPMENT - 9RF



TOTAL PROGRAM

BUDGET	5	10	16	21	26	32	37	42	48	52	58	64
ACTUAL	8	9	11	11	14	17	17	17	17			

MATERIAL

BUDGET	5	10	16	21	26	32	37	42	48	52	58	64
ACTUAL	8	9	11	11	14	17	17	17	17			

MANPOWER

BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0	3	0	0	0	0	0	0	0

BUDGET

ACTUAL

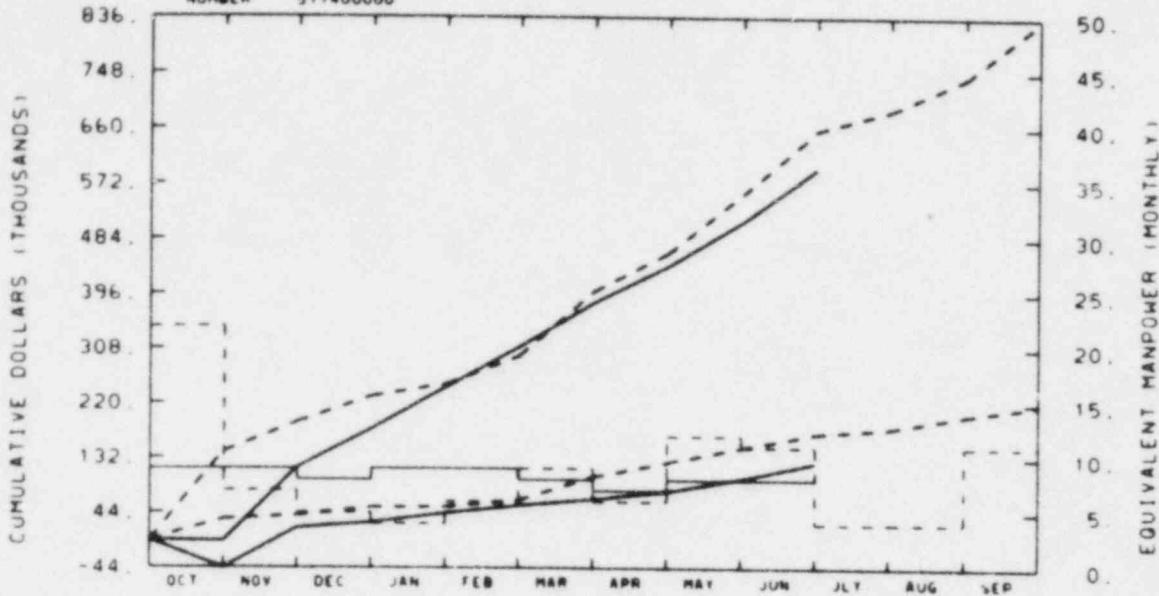
Capital equipment is being used on an "as required" basis. To date the requirements are lower than expected. The unused dollars will be carried over into FY-1983 to cover any capital equipment purchased during FY-1983.

Summary Cost Accounts

5NXX--NRC Summary Cost Accounts

EG&G IDAHO INC.
CODE APPLICATIONS

NUMBER 511400000



TOTAL PROGRAM

BUDGET	142	190	231	250	296	400	461	555	656	688	740	833
ACTUAL	0	116	178	245	310	381	441	511	596			

MATERIAL

BUDGET	33	39	53	53	64	102	125	149	172	180	201	218
ACTUAL	43	20	29	43	56	66	78	100	125			

MANPOWER

BUDGET	22	7	5	4	6	9	6	12	11	4	4	11
ACTUAL	9	9	8	9	9	8	7	8	8			

BUDGET

ACTUAL

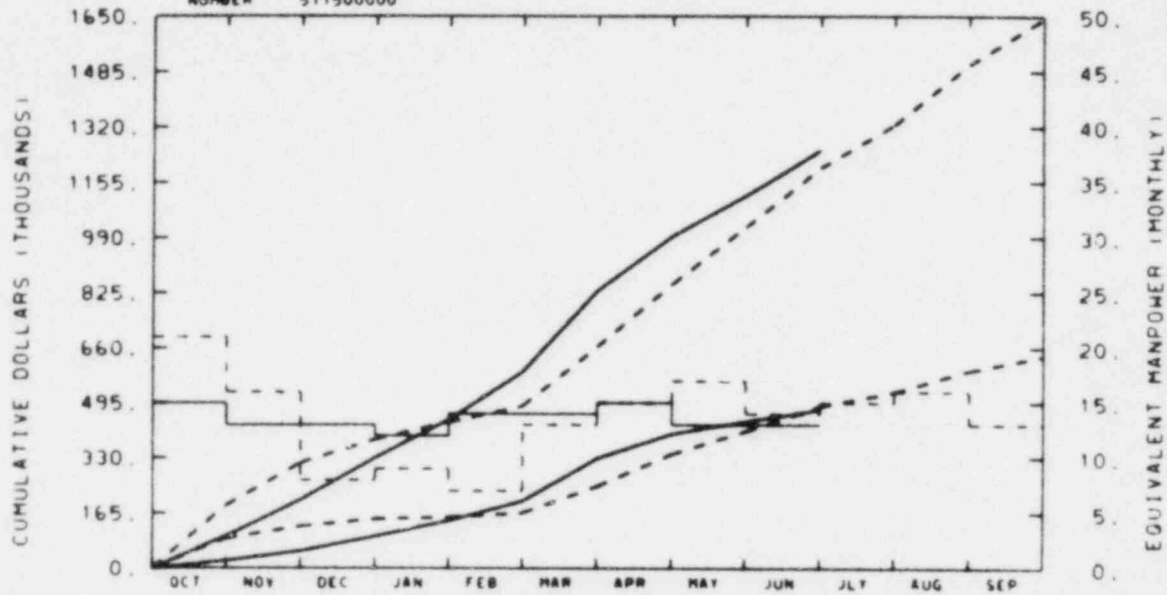
1. Variance:

	Budget	Actual	Variance	%
Monthly manpower (on graph)	78	60	18	23
Material dollars YTD (in thousands)	172	125	47	27
Total dollars YTD (in thousands)	656	596	60	9

2. Description of Problem/Cause: The total year-to-date (YTD) manpower budget is slightly below projected (3%). The difference between actual and budgeted manpower is primarily due to the manpower loading in the last 4 months of the fiscal year. (This loading sequence will be investigated.) Material dollars are currently underspent by 27%. the material dollar spending rate (computer), however, has increased and should be close to the projected value by year end.

3. Description of Solution: Year-end projections are expected to be very close to budget. Therefore, no action is required at this time.

EG&C IDAHO INC.
 EXPERIMENTAL EVALUATION
 NUMBER 511500000



TOTAL PROGRAM												
BUDGET	188	315	385	437	485	662	851	1021	1199	1327	1507	1642
ACTUAL	96	205	330	444	589	831	995	1115	1252			

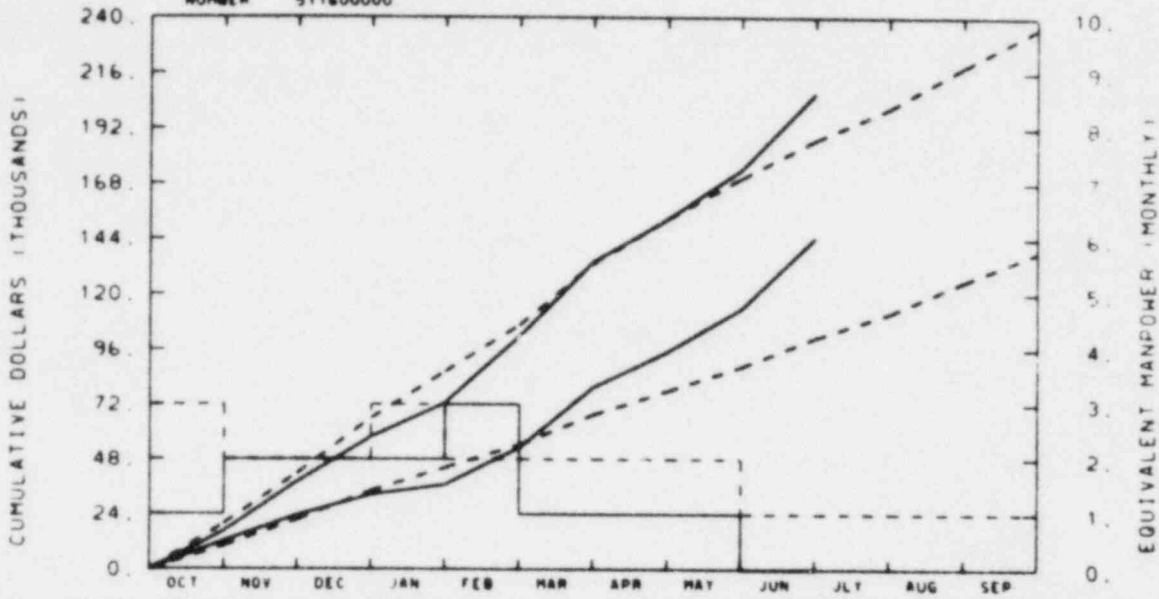
MATERIAL												
BUDGET	89	126	148	153	166	245	341	410	485	528	592	636
ACTUAL	23	52	96	143	201	328	402	439	475			

MANPOWER												
BUDGET	21	16	8	9	7	13	15	17	14	15	16	13
ACTUAL	15	13	13	12	14	14	15	13	13			

\$41K of the \$94K deficit at the end of May was recovered in June. The budget recovery procedures continue to be effective and have reduced the deficit from \$168K at the end of March to \$53K at the end of June. These recovery procedures will continue for the remainder of FY-1982. The expectation is that the deficit will be eliminated by mid-August.

EG&G IDAHO INC.
EXPERIMENTAL PROGRAM SUPPORT

NUMBER 511600000



TOTAL PROGRAM

BUDGET	20	42	66	86	107	133	153	170	187	201	219	235
ACTUAL	16	38	58	73	102	134	153	174	207			

MATERIAL

BUDGET	10	21	34	44	54	68	78	89	101	112	126	138
ACTUAL	12	23	32	37	53	80	95	114	145			

MANPOWER

BUDGET	3	2	2	3	2	2	2	2	1	1	1	1
ACTUAL	1	2	2	2	3	1	1	1	0			

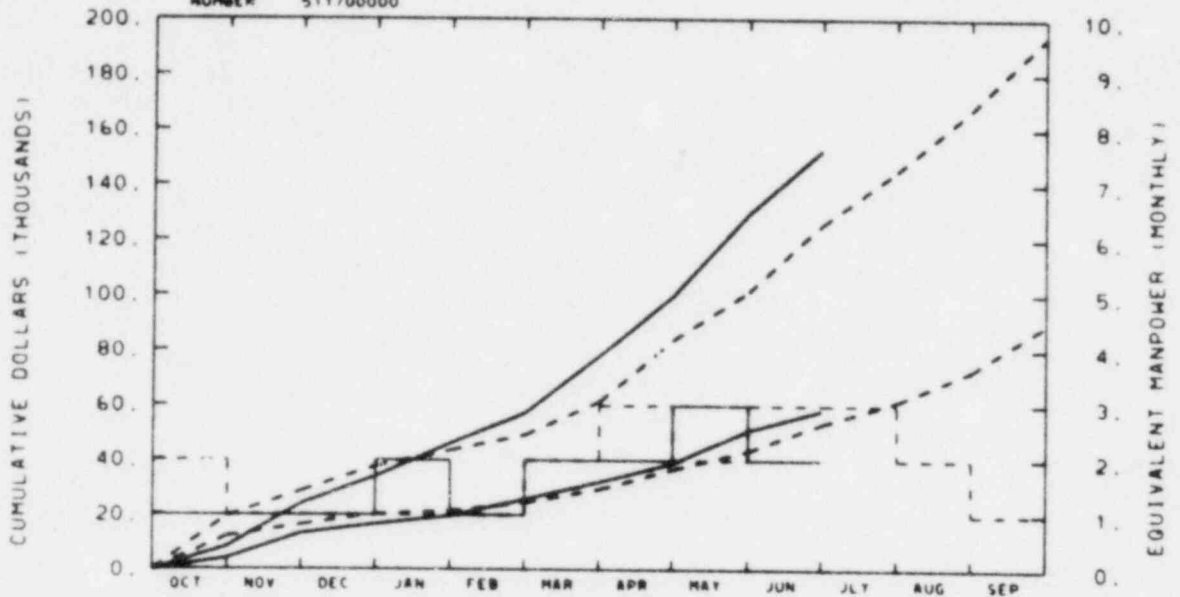
BUDGET

ACTUAL

Expenditures exceeded budget during June due primarily to (a) extra costs incurred for graphic arts and photo services associated with preparation of presentations for the annual LOFT team visits to Europe and Asia (\$9.9K), and (b) an accrual payment of \$7K to the University of Central Florida for support to the LOFT heat transfer work. The year-to-date monthly average cost has been \$23K, and with only \$28K remaining in the annual budget, stringent measures will be instituted to minimize remaining FY-1982 costs.

EG&G IDAHO INC.
RELATED PROGRAMS

NUMBER 511700000



TOTAL PROGRAM		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET		19	29	38	43	49	61	84	101	126	145	167	194
ACTUAL		8	24	34	46	57	78	100	130	153			

MATERIAL		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET		12	16	20	21	24	29	37	43	53	62	73	90
ACTUAL		4	13	17	20	26	32	39	51	58			

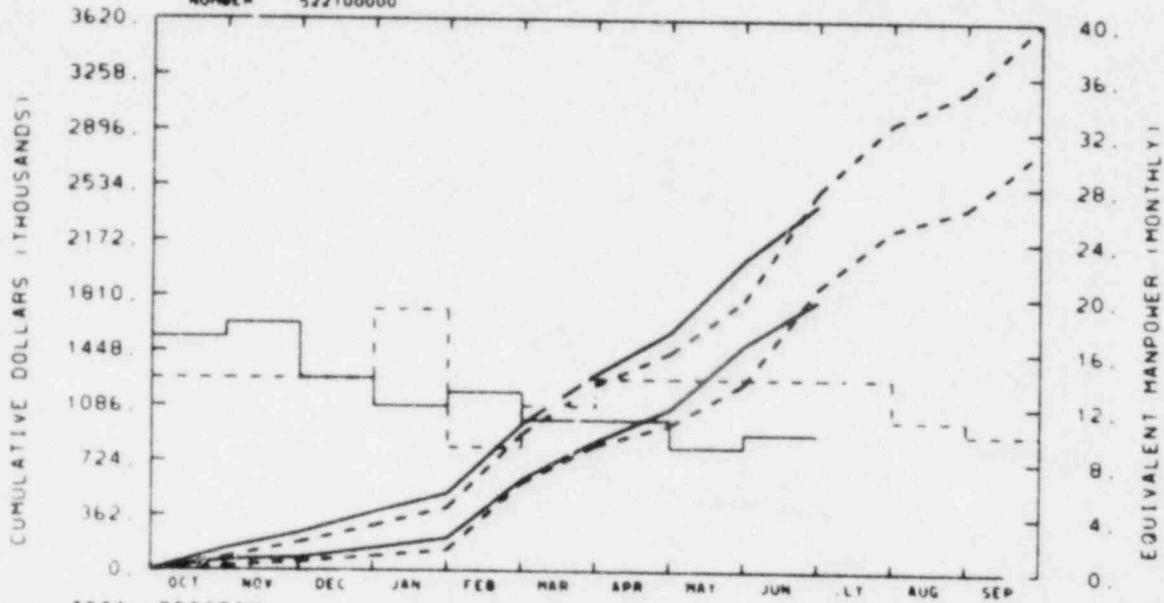
MANPOWER		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET		2	1	1	1	1	2	3	2	3	3	2	1
ACTUAL		1	1	1	2	1	2	2	3	2			

BUDGET - - - - -
ACTUAL - - - - -

\$24K was taken out of the budget in preparation for the IFA-511 nuclear/electric rod comparison task to be transferred by CCB from the LOFT Program to the LWR Fuels Research Division. The transfer was not approved at the CCB meeting. Due to this late decision, the \$24K had not been put back in the budget shown here, which is why the task is shown over budget. Adjustments should be in the July budget plots.

EG&G IDAHO INC.
FUEL DESIGN, FAB & ASSY

NUMBER 522100000



TOTAL PROGRAM												
BUDGET	85	184	294	416	502	1228	1439	1786	2504	2952	3163	3620
ACTUAL	142	247	384	509	966	1297	1575	2050	2419			

MATERIAL												
BUDGET	26	56	95	135	578	828	966	1239	1873	2255	2393	2787
ACTUAL	68	84	147	214	601	855	1070	1492	1790			

MANPOWER												
BUDGET	14	14	14	19	9	12	14	14	14	14	11	10
ACTUAL	17	18	14	12	13	11	11	9	10			

BUDGET

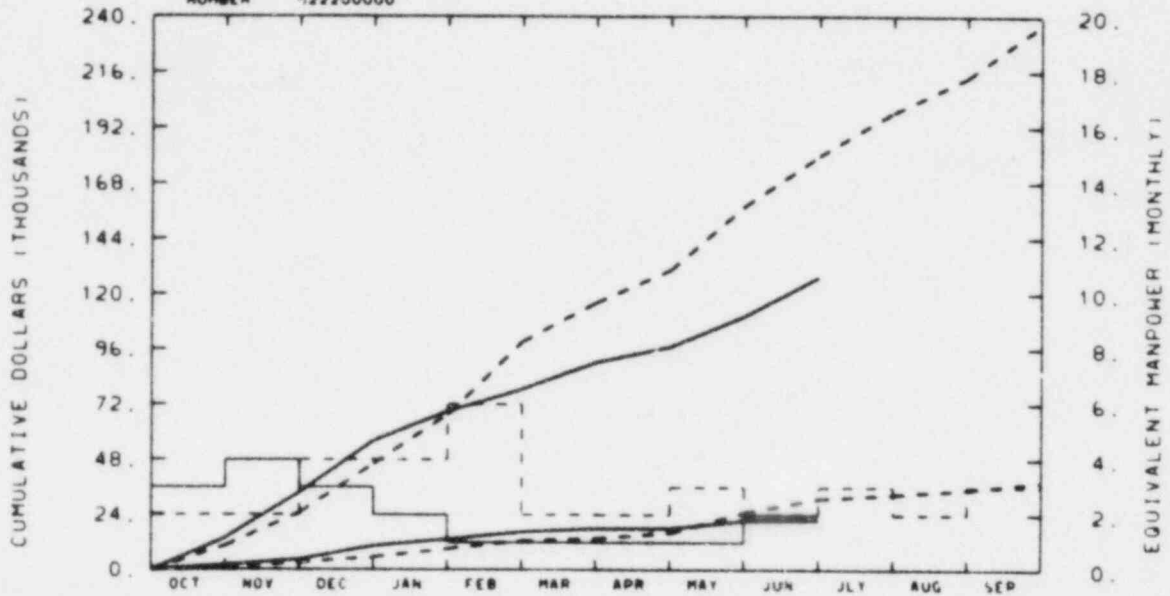
ACTUAL

No significant variance. There is no anticipated significant variance by year end.

EG&G IDAHO INC.

FUEL EXAM

NUMBER 522200000



TOTAL PROGRAM

BUDGET	11	25	46	68	95	116	130	158	180	199	214	237
ACTUAL	14	34	56	69	79	90	97	110	128			

MATERIAL

BUDGET	1	3	6	9	13	14	16	25	31	33	35	38
ACTUAL	2	5	10	13	17	18	18	22	22			

MANPOWER

BUDGET	2	2	4	4	6	2	2	1	2	3	2	3
ACTUAL	3	4	3	2	1	1	1	1	2			

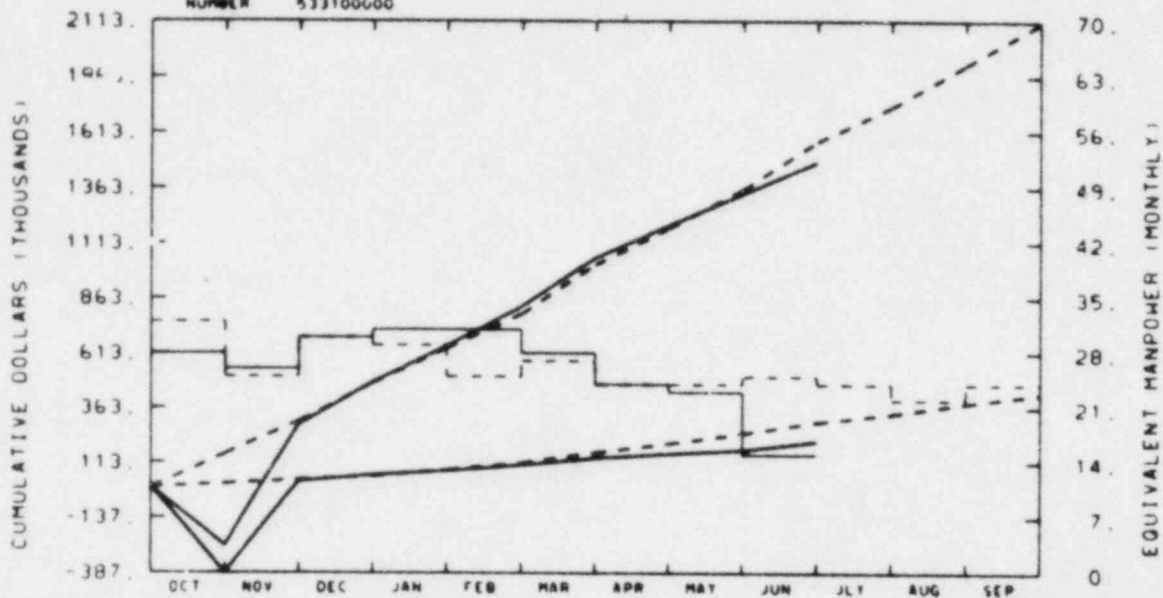
BUDGET

ACTUAL

Cost underrun is due to (a) unavailability of key manpower for fuel rod laser profilometry conceptual design, (b) less-than-planned manpower support for fuel requalifications, and (c) reluctance to incur costs for fuel rod defect scanner decontamination, repair, and upgrade until decisions on location of fuel examination are made. A CCB has been prepared to revise the cost and schedule estimates appropriately.

EG&G IDAHO INC.
EXPER MEAS ANALYSIS

NUMBER 533100600



TOTAL PROGRAM

BUDGET	152	301	476	635	790	1015	1181	1356	1572	1728	1918	2108
ACTUAL	-263	286	480	645	824	1047	1195	1337	1480			

MATERIAL

BUDGET	17	35	51	80	111	160	200	246	299	336	385	428
ACTUAL	-386	28	56	76	102	134	154	170	210			

MANPOWER

BUDGET	32	25	30	29	25	27	24	24	25	24	22	24
ACTUAL	28	26	30	31	31	28	24	23	15			

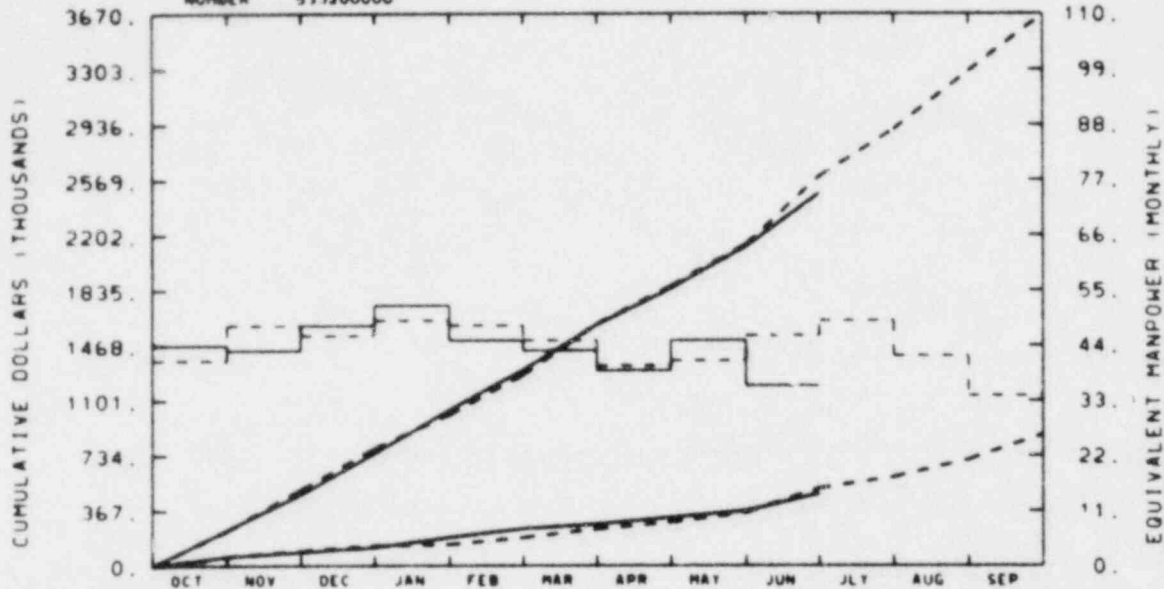
BUDGET

ACTUAL

Underrun will be returned to Management Reserve in budget scrub.

EG&G IDAHO INC.
EXPER MEAS APPLICATIONS

NUMBER 533200000



TOTAL PROGRAM

BUDGET	233	508	785	1006	1271	1612	1865	2142	2593	2904	3290	3666
ACTUAL	238	477	751	1039	1304	1607	1848	2130	2481			

MATERIAL

BUDGET	61	101	136	143	189	246	290	355	518	591	708	875
ACTUAL	63	92	124	191	248	278	323	368	482			

MANPOWER

BUDGET	41	48	46	49	48	45	40	41	46	49	42	34
ACTUAL	44	43	48	52	45	43	39	45	36			

BUDGET

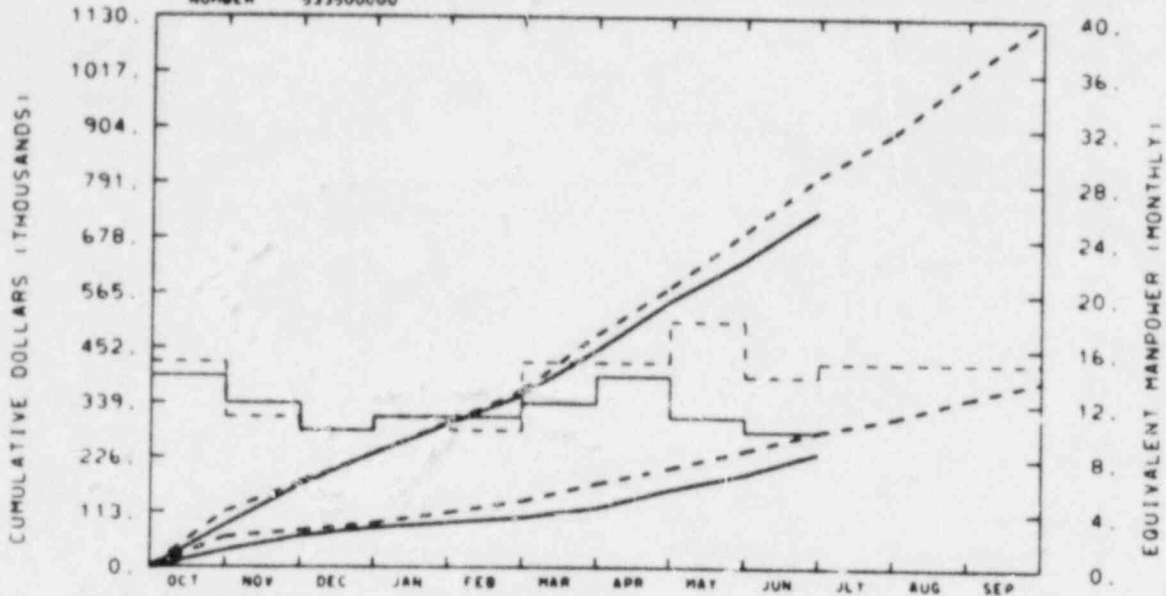
ACTUAL

Underrun is due to (a) changes in programmatic requirements have eliminated the need for the pulse neutron analyzer for Experiment L9-4, and (b) manpower is being spent on the F2 fuel bundle task and is delaying activity on some other work. CCBs have been input to reallocate and return funds to the Management Reserve and to reduce scope.

EG&G IDAHO INC.

EXPER DATA

NUMBER 533500000



TOTAL PROGRAM

BUDGET	114	174	236	298	364	481	575	694	808	897	1015	1129
ACTUAL	87	169	235	295	356	445	551	637	736			

MATERIAL

BUDGET	63	76	92	113	137	174	206	243	283	311	353	389
ACTUAL	36	65	82	93	103	123	162	194	239			

MANPOWER

BUDGET	15	11	10	11	10	15	15	18	14	15	15	15
ACTUAL	14	12	10	11	11	12	14	11	10			

BUDGET

ACTUAL

1. Variance:

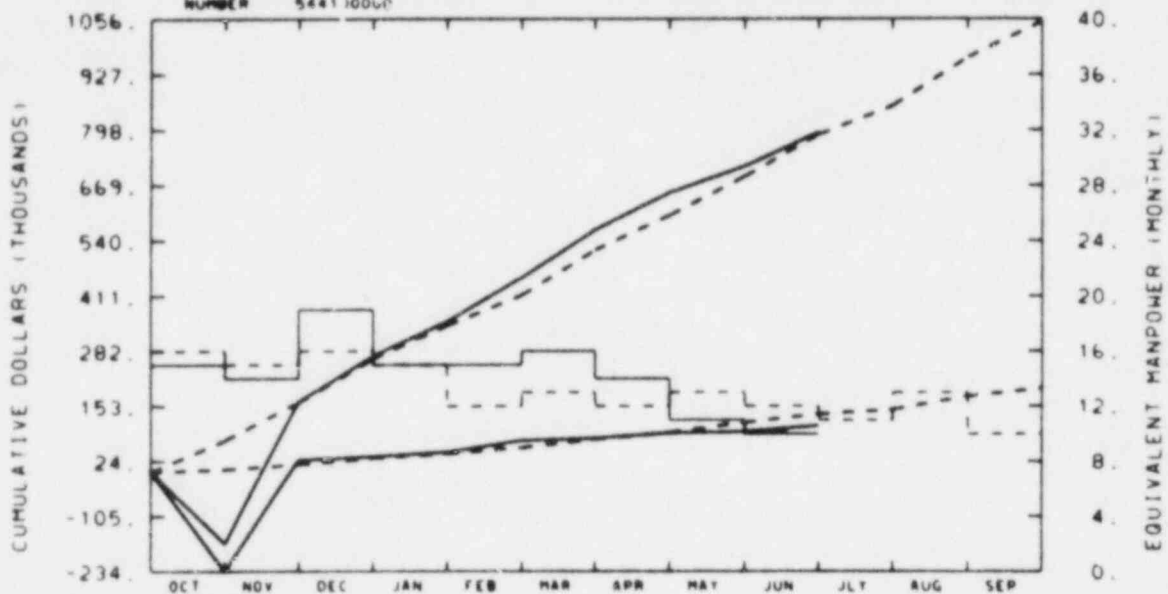
	<u>Budget</u>	<u>Actual</u>	<u>Variance</u>	<u>%</u>
Monthly manpower (on graph)	14	10	4	29
Material dollars YTD (in thousands)	283	239	44	16
Total dollars YTD (in thousands)	808	736	72	9

2. Description of Problem/Cause: The data processing effort was less than expected due to increased software efficiencies, especially in the automated data qualification processing, which resulted in underruns in manpower and computer budgets.

3. Description of Solution: A CCB is in process to return the underrun to the Management Reserve.

EG&G IDAHO INC.
PROTECTION & CONTROL

NUMBER 5441 10000



TOTAL PROGRAM

BUDGET	73	162	264	342	413	518	599	690	788	854	967	1050
ACTUAL	167	164	271	352	454	566	652	714	793			

MATERIAL

BUDGET	5	17	31	42	57	76	92	115	135	145	177	195
ACTUAL	-233	28	35	46	73	79	91	94	108			

MANPOWER

BUDGET	16	15	16	15	12	13	12	13	12	11	13	10
ACTUAL	15	14	19	15	15	16	14	11	10			

BUDGET

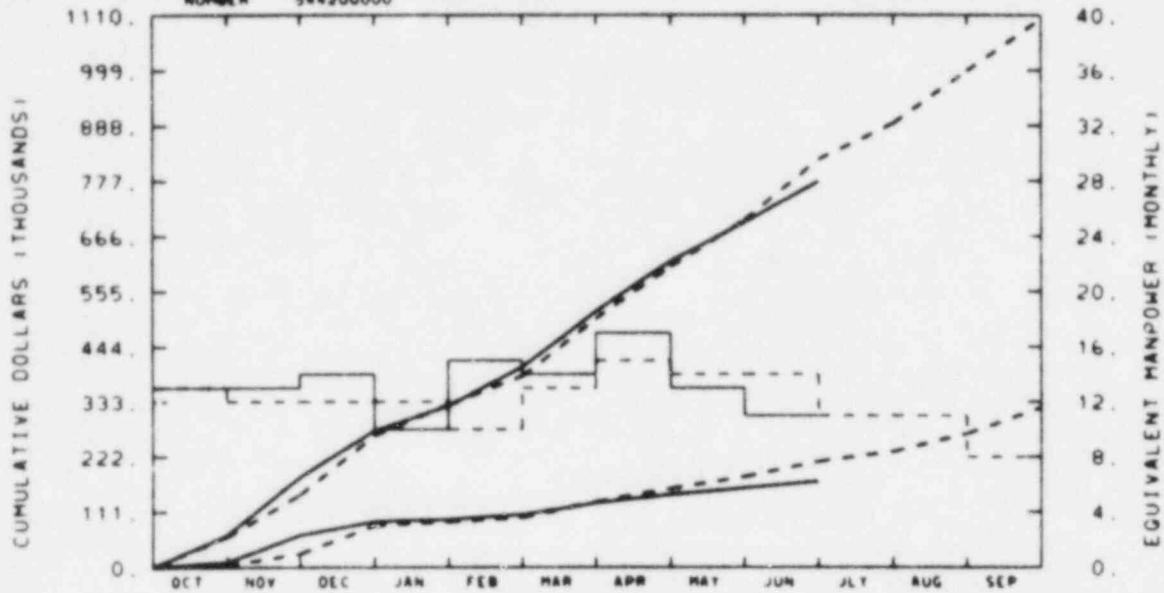
ACTUAL

No significant variance.

EG&G IDAHO INC.

I & E

NUMBER 544200000



TOTAL PROGRAM

BUDGET	61	145	264	327	384	500	605	698	820	892	998	1103
ACTUAL	64	181	275	324	403	515	616	694	776			

MATERIAL

BUDGET	5	27	84	91	100	132	158	182	213	233	269	321
ACTUAL	10	65	92	96	106	129	146	159	173			

MANPOWER

BUDGET	13	12	12	12	10	13	15	14	14	11	11	8
ACTUAL	13	13	14	10	15	14	17	13	11			

BUDGET

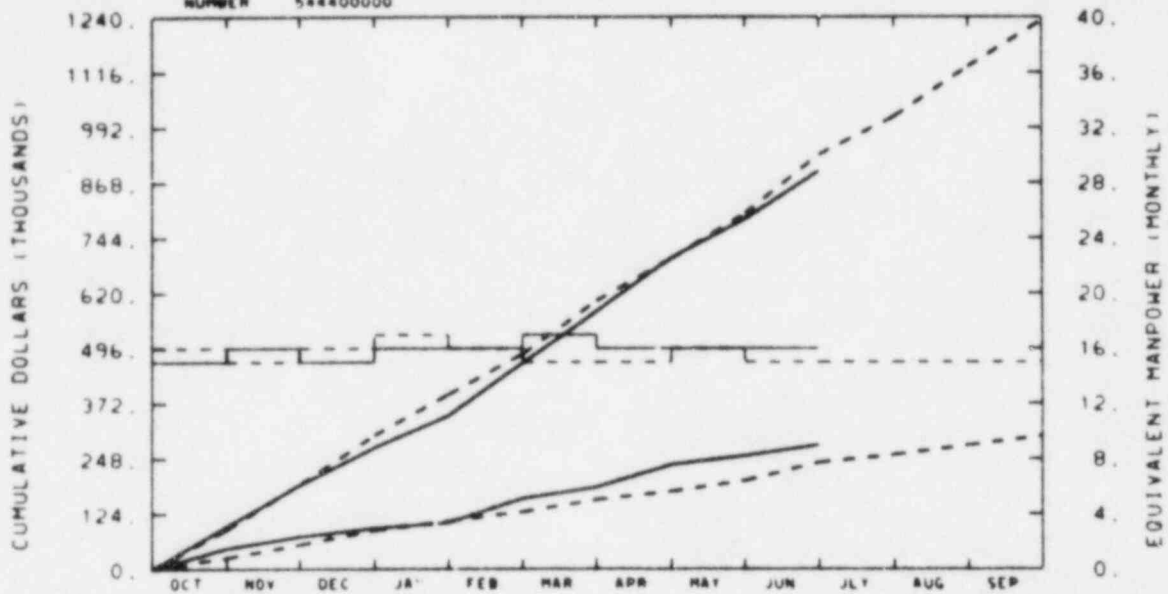
ACTUAL

Underrun is due to \$40K in outstanding requisitions which have not yet been costed. Adjustment in material accruals is in process.

EG&G IDAHO INC.

COCS

NUMBER 544400000



TOTAL PROGRAM												
BUDGET	89	190	301	392	483	603	698	798	931	1016	1129	1233
ACTUAL	96	189	274	345	463	579	700	786	894			

MATERIAL												
BUDGET	26	55	88	109	129	156	175	199	240	257	279	299
ACTUAL	47	73	92	105	159	184	235	255	279			

MANPOWER												
BUDGET	16	15	16	17	16	15	15	16	15	15	15	15
ACTUAL	15	16	15	16	16	17	16	16	16			

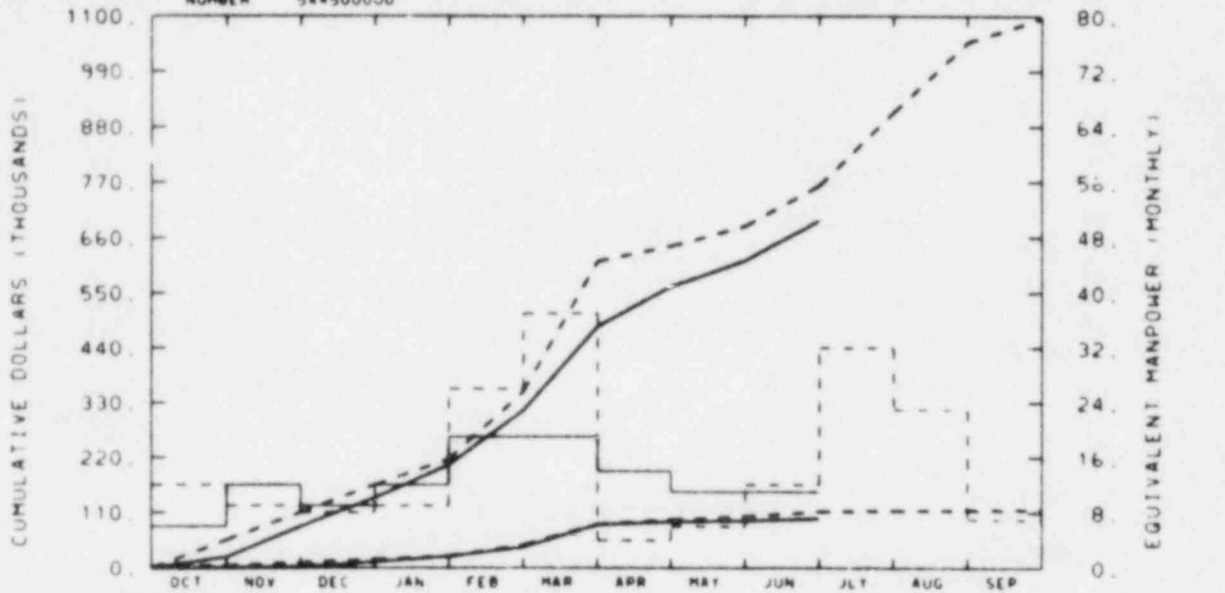
BUDGET

ACTUAL

No significant variance. No significant problems are anticipated by fiscal year end.

EG&G IDAHO INC.
 PRIMARY SYS - TEST SUPPORT

NUMBER 544500000



TOTAL PROGRAM

BUDGET	56	111	165	216	352	613	643	683	763	909	1048	1096
ACTUAL	22	82	139	205	314	482	563	615	693			

MATERIAL

BUDGET	4	10	18	23	46	87	96	103	112	114	115	116
ACTUAL	0	2	12	23	42	86	92	94	98			

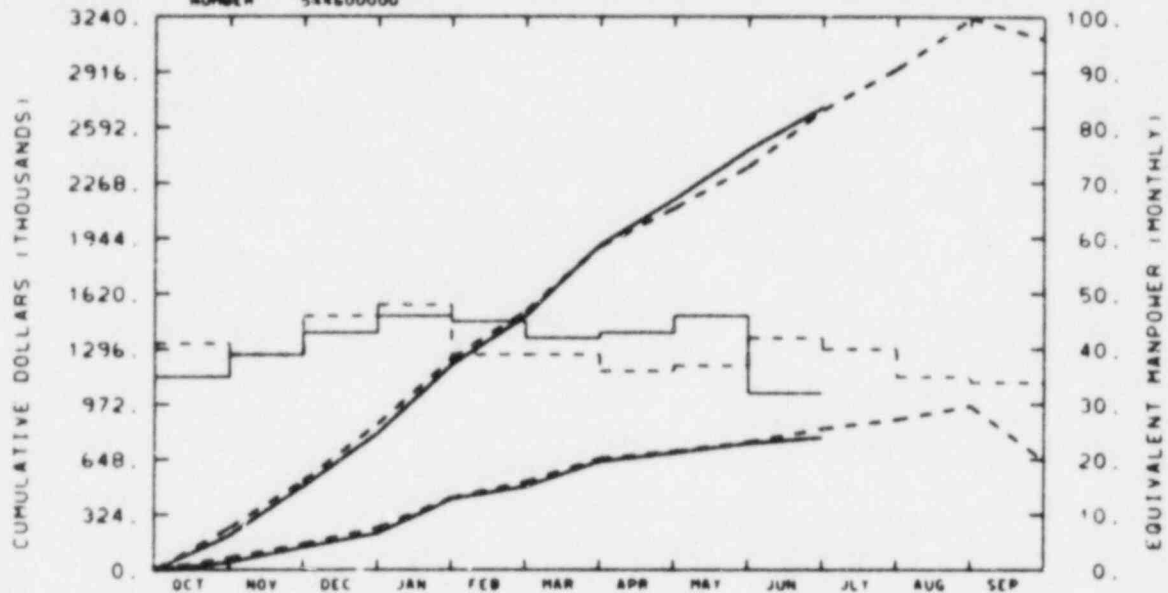
MANPOWER

BUDGET	12	9	8	9	26	37	4	6	12	32	23	7
ACTUAL	6	12	9	12	19	19	14	11	11			

The underrun is a result of outstanding material commitments and schedule changes. A CCB is in process to adjust the cost underrun.

EG&G IDAHO INC.
 PRIMARY SYS - PLANT SUPPORT

NUMBER 544600000



TOTAL PROGRAM												
BUDGET	245	522	856	1242	1517	1897	2119	2362	2694	2935	3232	3111
ACTUAL	200	489	802	1203	1489	1905	2172	2464	2710			

MATERIAL												
BUDGET	73	154	248	423	518	653	694	750	828	882	962	643
ACTUAL	45	133	216	416	490	638	686	742	777			

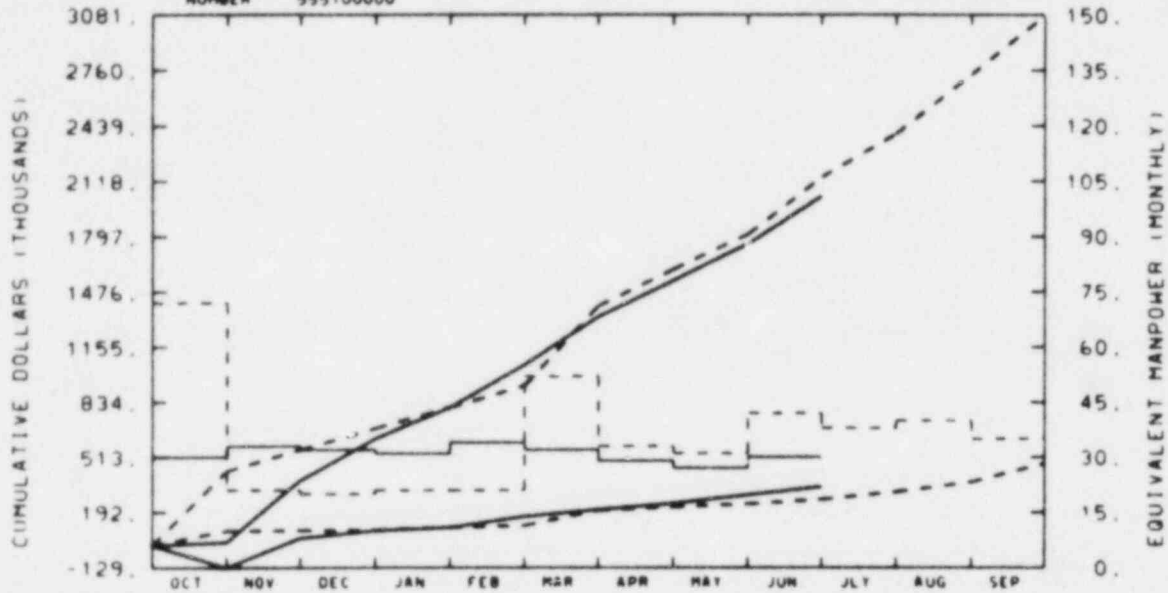
MANPOWER												
BUDGET	41	39	46	48	39	39	36	37	42	40	35	34
ACTUAL	35	39	43	46	45	42	43	46	32			

BUDGET
 - - - - -
 ACTUAL

The cost graph indicates no significant variance; however, the graph includes the isotope detection system budget rescoping which is in process, but not approved.

EG&G IDAHO INC.
SAFETY & REACTOR SYS

NUMBER 555100000



TOTAL PROGRAM

BUDGET	431	556	680	803	928	1393	1606	1810	2142	2392	2735	3078
ACTUAL	19	377	620	802	1051	1330	1541	1755	2031			

MATERIAL

BUDGET	85	87	90	106	115	202	223	240	267	310	369	475
ACTUAL	-128	42	86	105	168	207	243	292	341			

MANPOWER

BUDGET	72	21	20	21	21	52	33	31	42	38	40	35
ACTUAL	30	33	32	31	34	32	29	27	30			

BUDGET

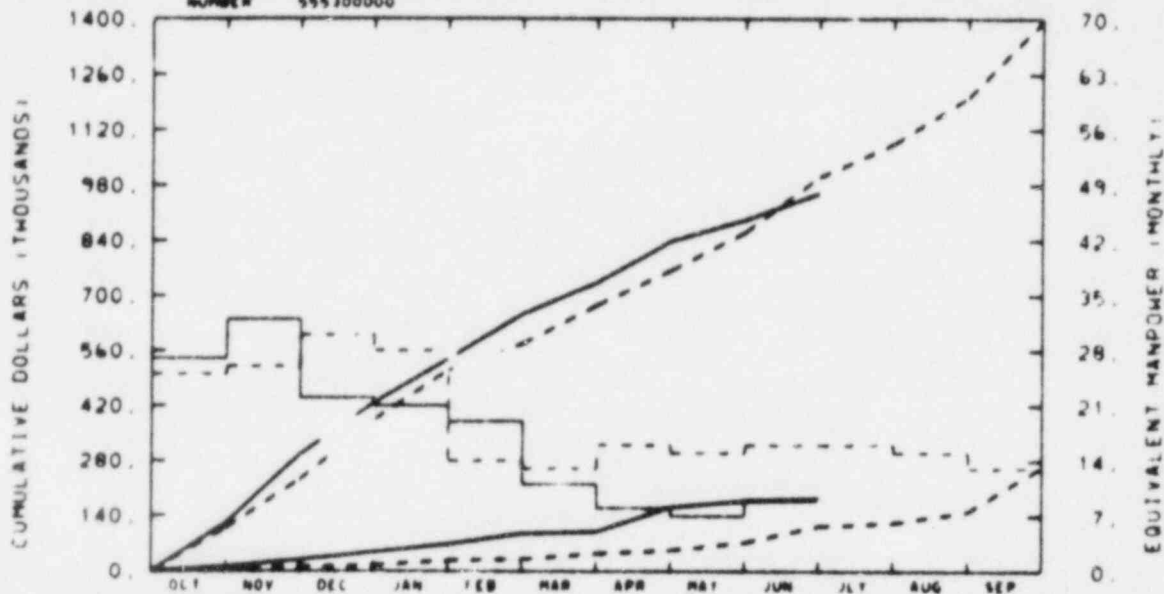
ACTUAL

Manpower budget for computer code configuration management system will not be expended in FY-1982. A CCB is in process to return \$120K to the Management Reserve.

EG&G IDAHO INC.

FUEL HANDLING

NUMBER 555300000



TOTAL PROGRAM

BUDGET	109	232	285	510	577	676	764	861	1000	1084	1203	1395
ACTUAL	22	297	478	539	653	733	839	842	959			

MATERIAL

BUDGET	8	12	15	28	31	49	94	73	115	123	151	265
ACTUAL	12	30	49	68	95	100	163	179	185			

MANPOWER

BUDGET	25	26	30	28	14	13	16	15	16	16	15	13
ACTUAL	27	32	22	21	19	11	8	7	9			

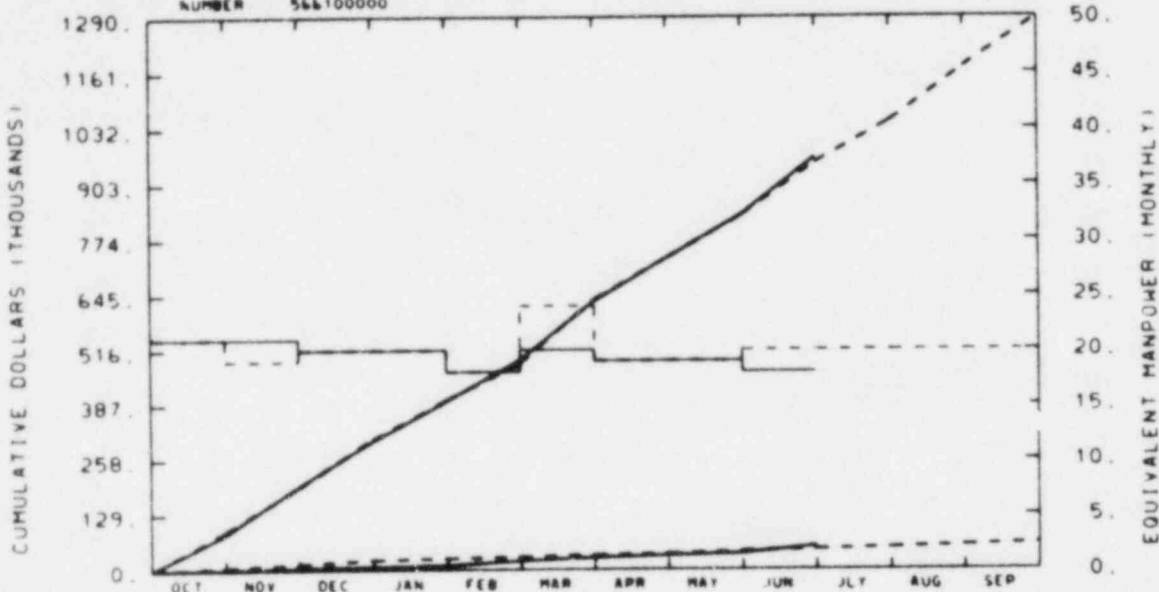
BUDGET

ACTUAL

Adjustment of material and manpower costs is in progress. Resources will be realigned in current budget scrub.

EG&G IDAHO INC.
 QUALITY SUPPORT

NUMBER 566100000



TOTAL PROGRAM

BUDGET	92	194	308	399	483	635	731	830	952	1048	1172	1289
ACTUAL	85	197	302	396	492	631	731	831	964			

MATERIAL

BUDGET	7	15	24	27	30	35	37	43	47	51	56	62
ACTUAL	1	6	8	12	21	28	34	38	55			

MANPOWER

BUDGET	21	19	20	20	18	24	19	19	20	20	20	20
ACTUAL	21	21	20	20	18	20	19	19	18			

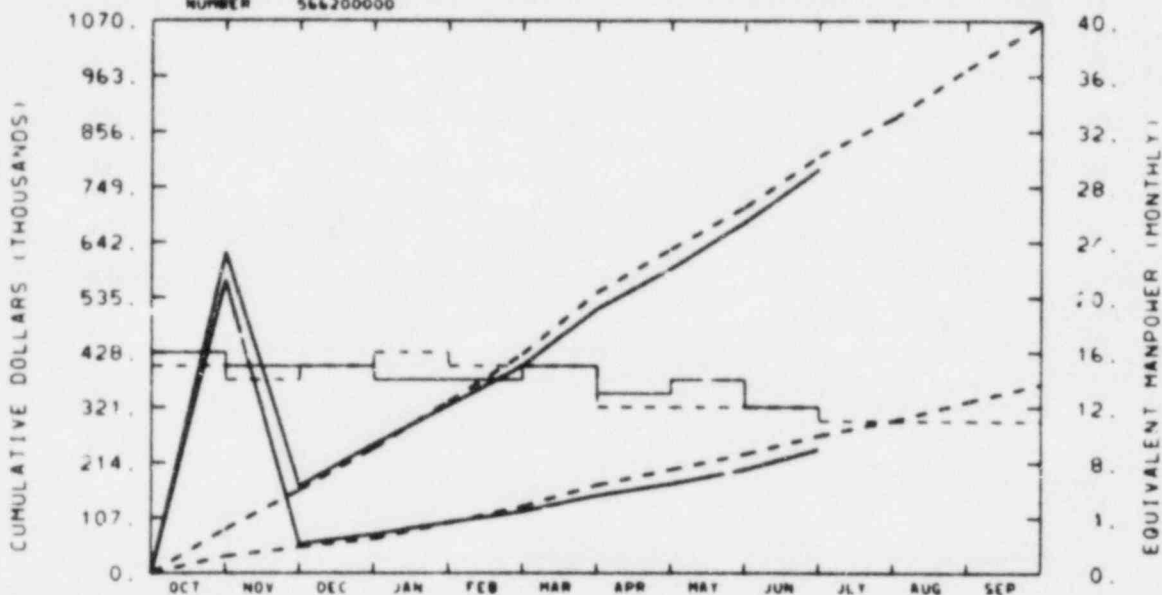
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
PLANNING SUPPORT

NUMBER 566200000



TOTAL PROGRAM

BUDGET	85	161	241	332	424	540	628	710	808	881	977	1065
ACTUAL	622	169	249	324	402	512	590	680	76			

MATERIAL

BUDGET	33	51	66	97	128	170	200	230	266	294	332	366
ACTUAL	568	56	75	98	119	150	172	200	239			

MANPOWER

BUDGET	15	14	15	16	15	15	12	12	12	11	11	11
ACTUAL	16	15	15	14	14	15	13	14	12			

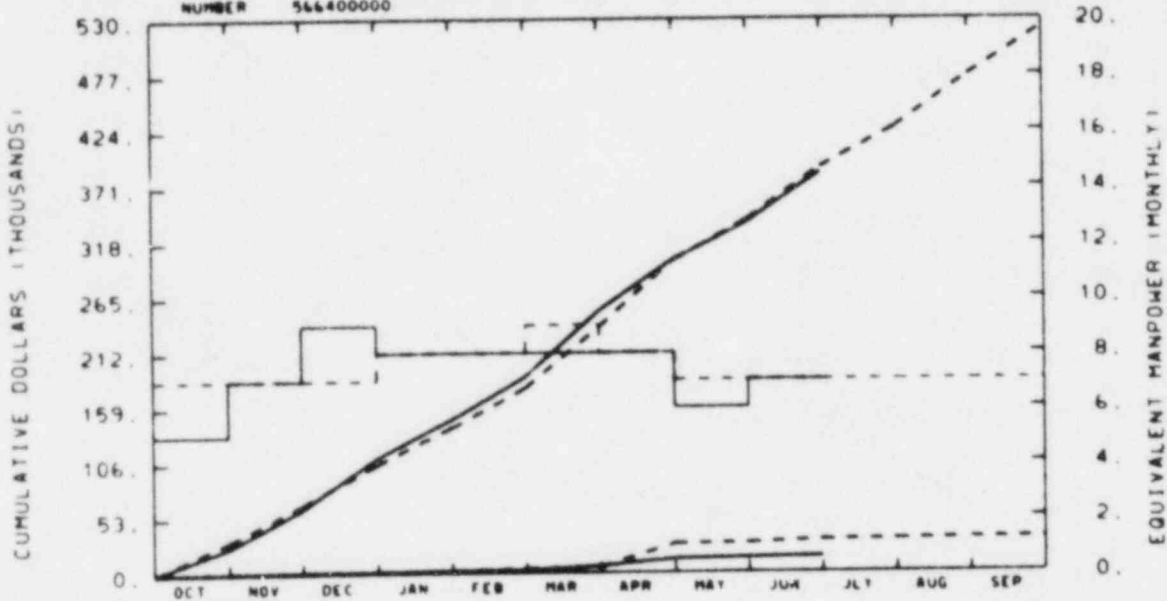
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
SAFETY SUPPORT

NUMBER 566400000



TOTAL PROGRAM

BUDGET	31	66	105	140	178	236	301	339	389	426	476	522
ACTUAL	26	62	111	148	189	252	301	337	384			

MATERIAL

BUDGET	1	1	2	2	4	5	20	20	31	31	32	33
ACTUAL	1	1	2	2	3	6	13	14	15			

MANPOWER

BUDGET	7	7	7	8	8	9	8	7	7	7	7	7
ACTUAL	5	7	9	8	8	8	8	5	7			

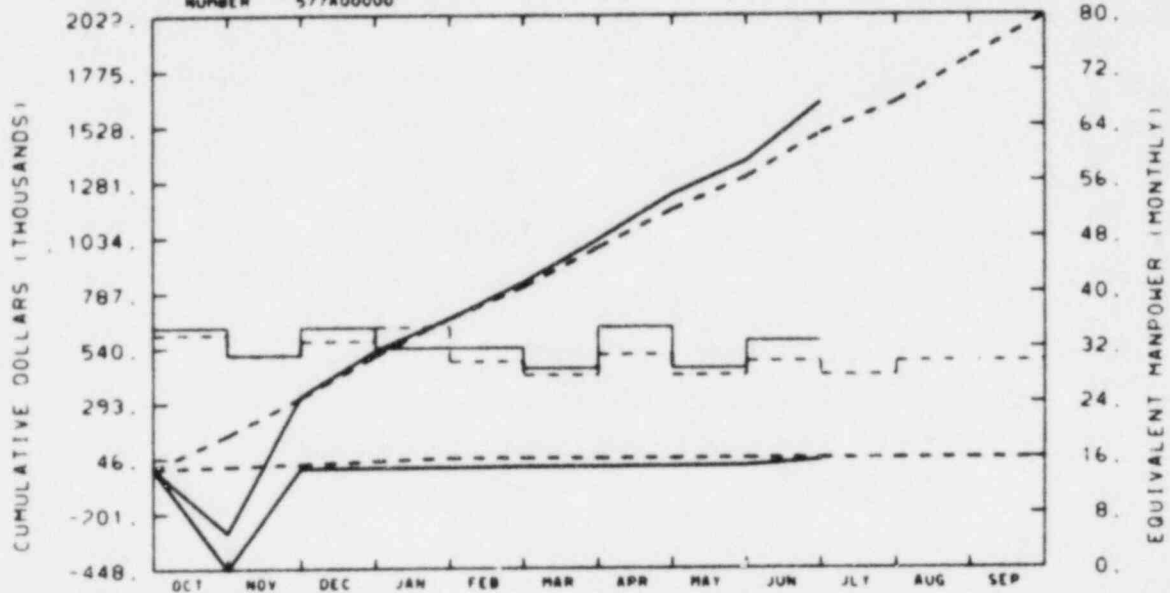
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
LOFT OPERATIONS

NUMBER 577A00000



TOTAL PROGRAM												
BUDGET	150	318	504	672	812	987	1155	1300	1496	1633	1830	2019
ACTUAL	-285	324	527	672	833	1024	1224	1372	1634			

MATERIAL												
BUDGET	10	21	34	45	45	45	45	45	45	45	45	45
ACTUAL	-447	2	4	4	7	7	9	11	36			

MANPOWER												
BUDGET	34	31	33	35	30	28	31	28	30	28	30	30
ACTUAL	35	31	35	32	32	29	35	29	33			

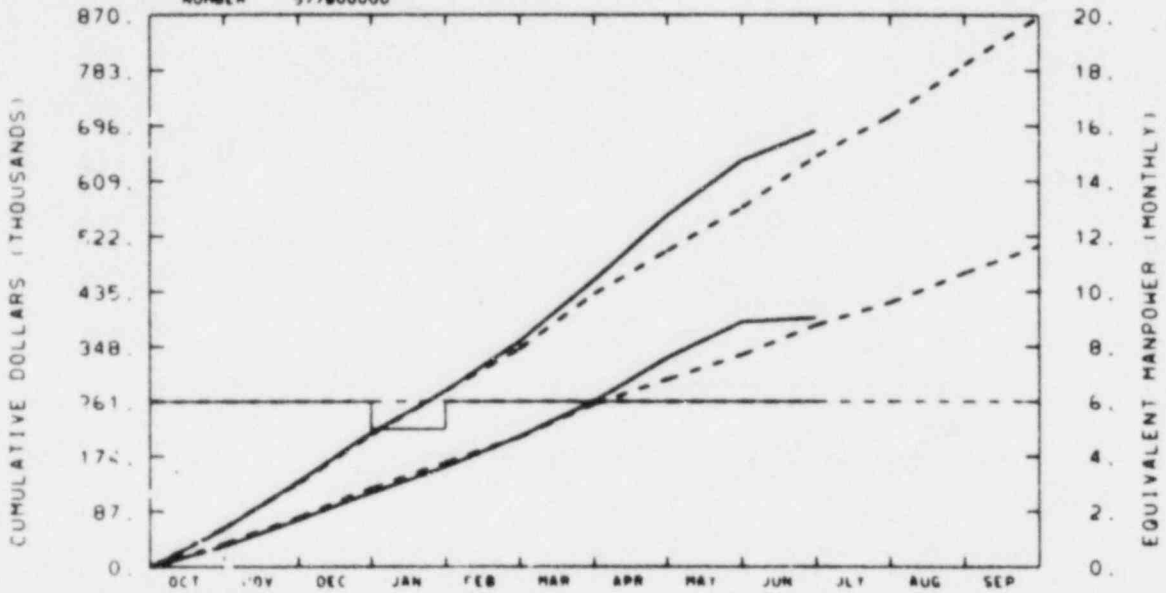
BUDGET

ACTUAL

No significant variance. No problem is anticipated by year end.

EG&G IDAHO INC.
LOFT OPERATIONS SUPPORT GROUP

NUMBER 577800000



TOTAL PROGRAM

BUDGET	62	131	208	278	344	431	499	567	648	711	792	868
ACTUAL	59	134	211	278	356	453	555	641	688			

MATERIAL

BUDGET	37	78	124	165	205	257	296	335	382	417	464	507
ACTUAL	33	74	117	158	205	261	330	387	454			

MANPOWER

BUDGET	6	6	6	6	6	6	6	6	6	6	6	6
ACTUAL	6	6	6	5	6	6	6	6	6			

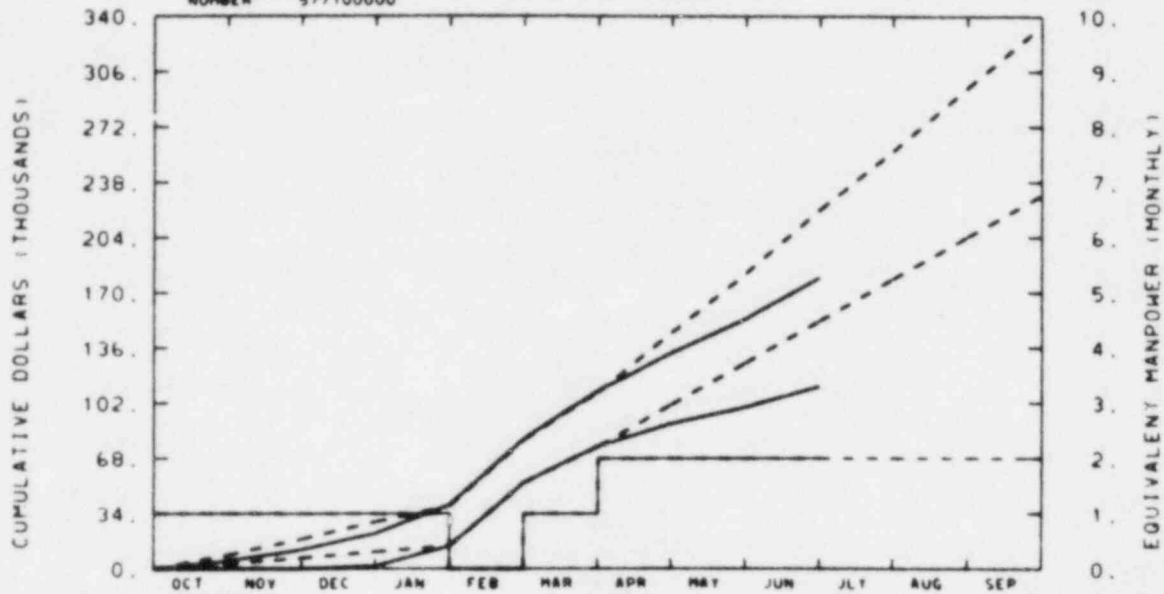
BUDGET

ACTUAL

No significant variance. No problem is anticipated by year end.

EG&G IDAHO INC.
LOFT OPERATIONS SUPPORT TRAINING

NUMBER 577100000



TOTAL PROGRAM

BUDGET	9	18	27	39	79	109	145	182	221	257	296	336
ACTUAL	5	12	22	39	80	110	133	154	180			

MATERIAL

BUDGET	3	7	11	14	53	75	101	127	153	179	204	230
ACTUAL	0	0	2	14	53	75	89	100	112			

MANPOWER

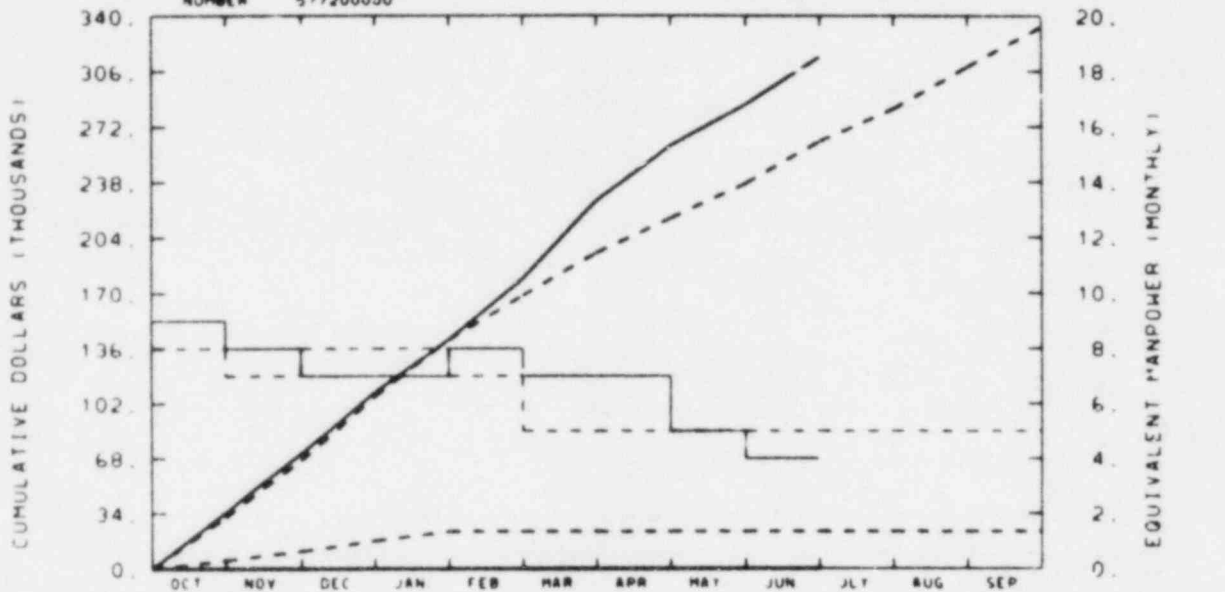
BUDGET	1	1	1	1	0	1	2	2	2	2	2	2
ACTUAL	1	1	1	1	0	1	2	2	2			

BUDGET

ACTUAL

Underrun was caused by a delay in the ordering and receiving of material for the special training project (Plato). A portion of the material dollars will be carried over into FY-1983 to complete the project.

EG&G IDAHO INC.
 LOFT TEST SECTION
 NUMBER 577200000



TOTAL PROGRAM

BUDGET	32	67	106	141	169	195	216	237	263	283	309	333
ACTUAL	35	71	109	141	179	227	260	284	315			

MATERIAL

BUDGET	5	11	17	23	23	23	23	23	23	23	23	23
ACTUAL	0	0	0	0	0	0	0	0	0			

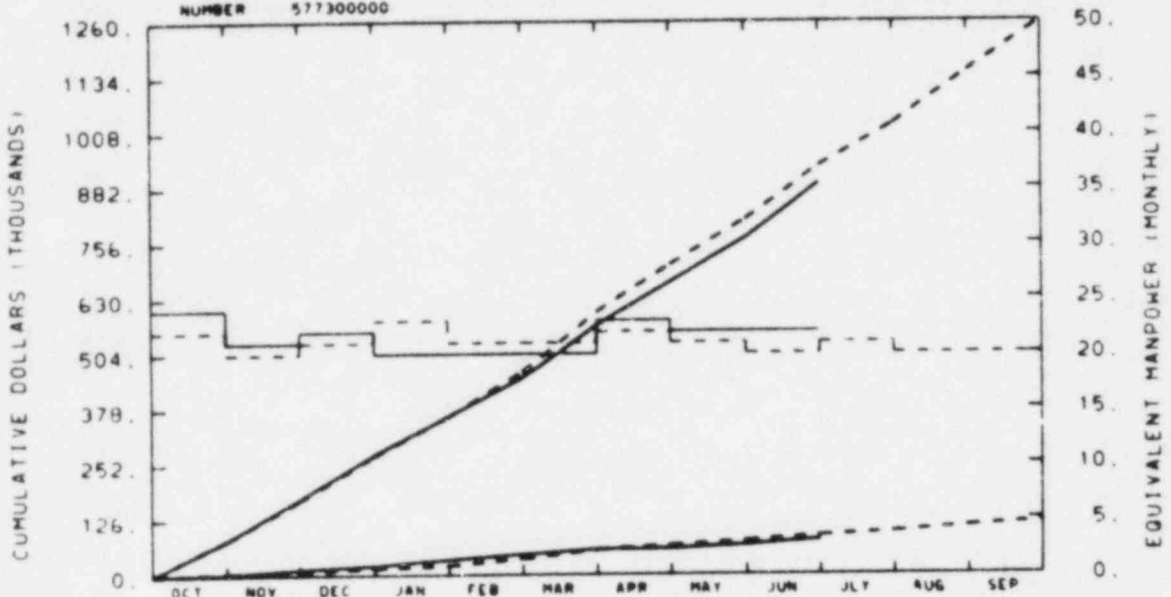
MANPOWER

BUDGET	8	7	8	8	7	5	5	5	5	5	5	5
ACTUAL	9	8	7	1	8	7	7	5	4			

Overrun is still caused by high labor costs, and corrective action is in process to alleviate the problem.

EG&G IDAHO INC.
LOFT DATA SECTION

NUMBER 577300000



TOTAL PROGRAM

BUDGET	81	171	271	361	453	598	706	809	931	1026	1146	1260
ACTUAL	81	175	275	361	448	568	666	766	892			

MATERIAL

BUDGET	5	10	16	22	37	57	67	76	88	97	108	119
ACTUAL	4	14	22	35	47	58	59	67	79			

MANPOWER

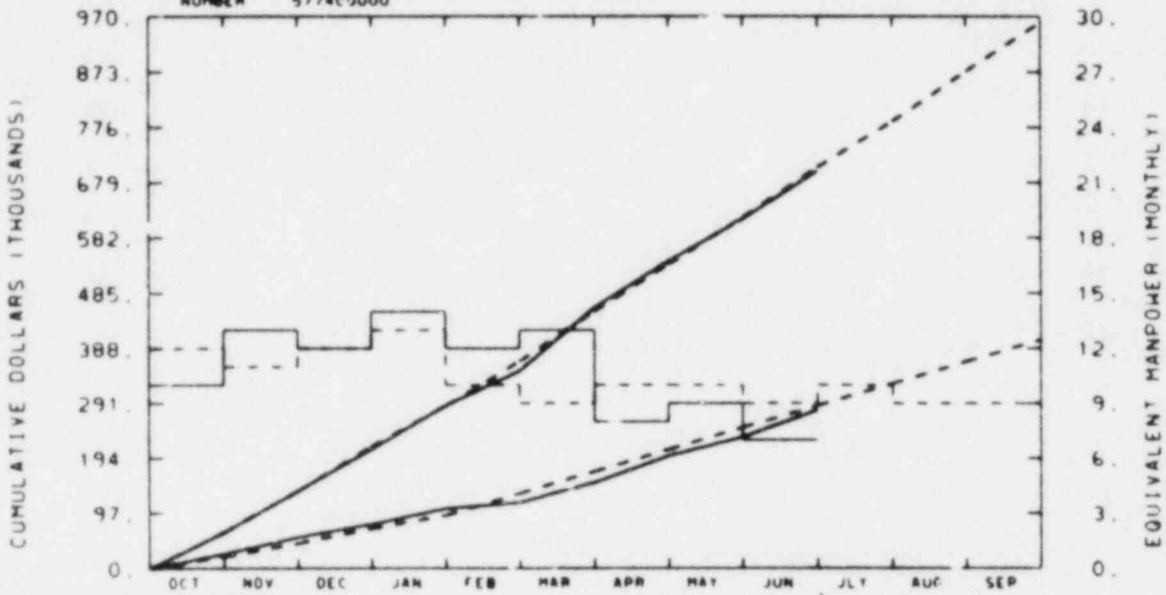
BUDGET	22	20	21	23	21	21	22	21	20	21	20	20
ACTUAL	24	21	22	20	20	20	23	22	22			

BUDGET

ACTUAL

No significant variance. The year-to-date underrun is within 4% of the budgeted cost of work scheduled. No problems are anticipated by year end.

EG&G IDAHO INC.
 LOFT MAINT ENGR & COORD
 NUMBER 5774C0000



TOTAL PROGRAM

BUDGET	64	136	215	287	365	453	535	617	705	786	874	960
ACTUAL	63	136	210	287	348	460	541	614	699			

MATERIAL

BUDGET	21	41	70	93	132	170	209	248	287	326	365	404
ACTUAL	26	55	78	105	116	151	198	231	279			

MANPOWER

BUDGET	12	11	12	13	10	9	10	10	9	10	9	9
ACTUAL	10	13	12	14	12	13	8	9	7			

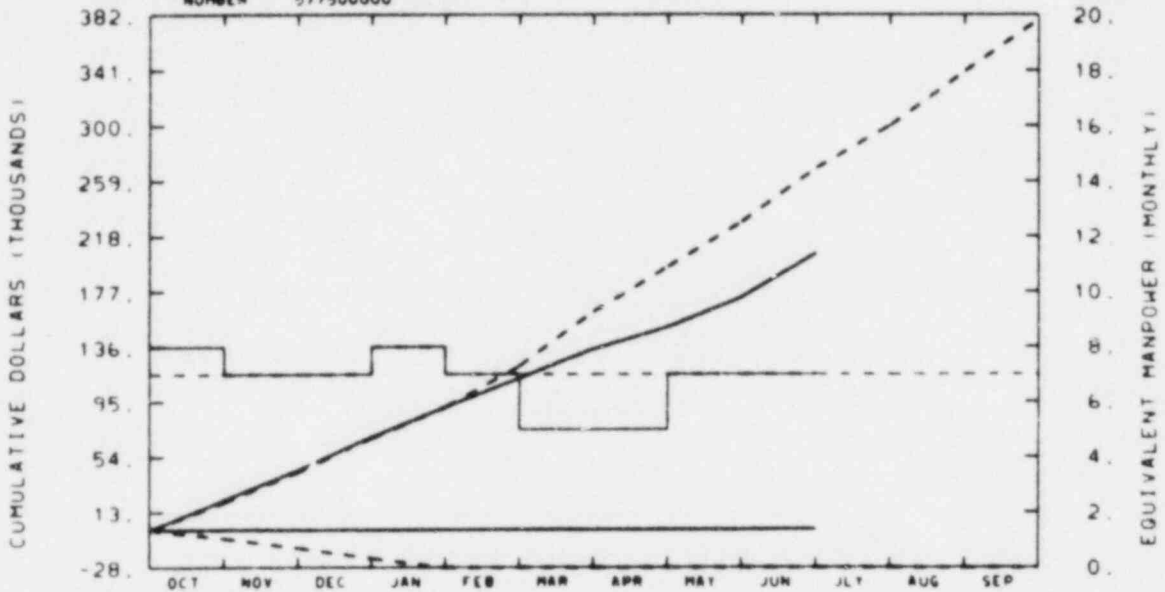
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
LOFT FACILITY MAINT

NUMBER 577500000



TOTAL PROGRAM

BUDGET	20	43	68	91	121	162	195	228	269	300	340	379
ACTUAL	22	4	69	91	113	134	150	173	205			

MATERIAL

BUDGET	-5	-12	-20	-27	-27	-27	-27	-27	-27	-27	-27	-27
ACTUAL	0	0	0	0	0	0	0	0	1			

MANPOWER

BUDGET	7	7	7	8	7	7	7	7	7	7	7	7
ACTUAL	8	7	7	8	7	5	5	7	7			

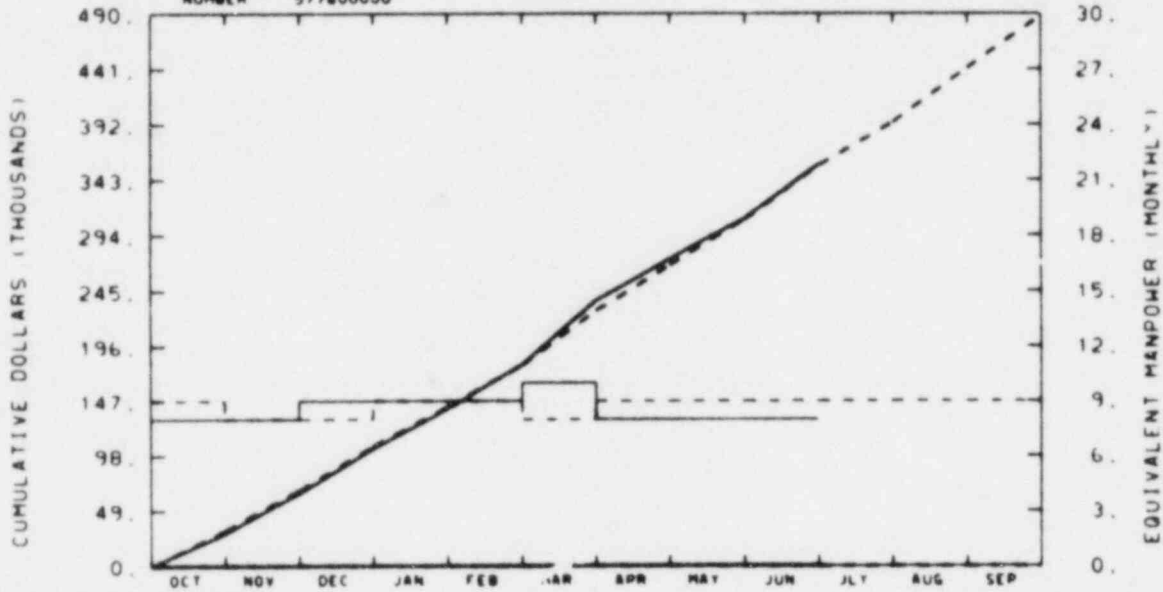
BUDGET

ACTUAL

Lower than budgeted actual cost and an unusual amount of leave time continues to cause this underrun.

EG&G IDAHO INC.
LOFT MECHANICAL MAINT

NUMBER 577600000



TOTAL PROGRAM

BUDGET	32	67	107	142	179	228	268	308	356	394	442	488
ACTUAL	29	65	104	140	180	237	273	309	357			

MATERIAL

BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0	0	0	0	0	0			

MANPOWER

BUDGET	9	8	8	9	9	8	9	9	9	9	9	9
ACTUAL	8	8	9	9	9	10	8	8	8			

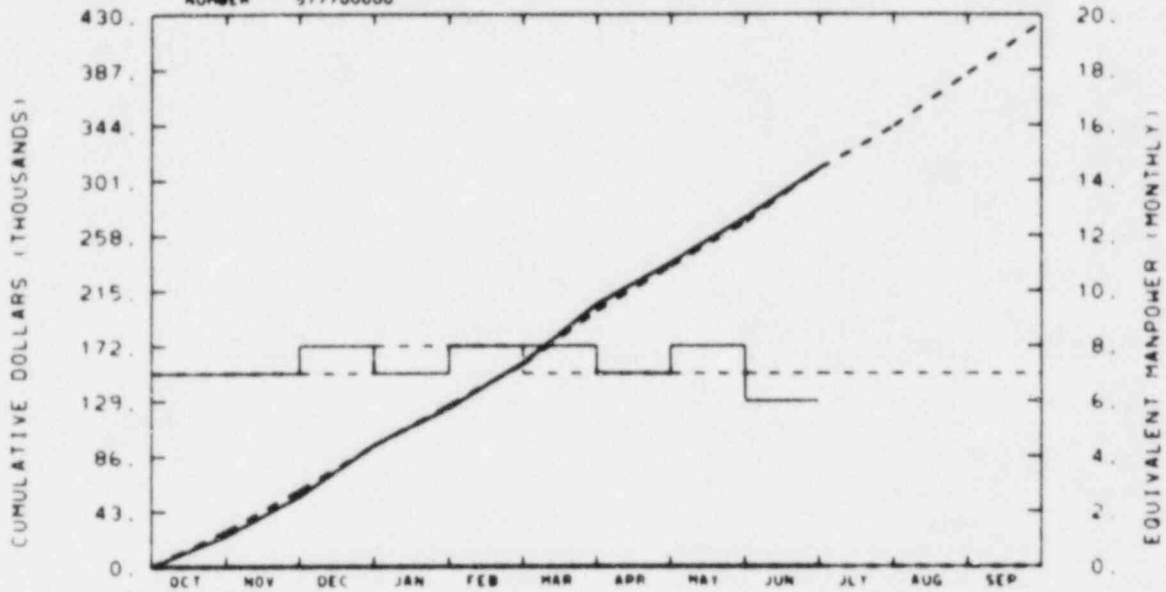
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
LOFT ELECTRICAL MAINT

NUMBER 577700000



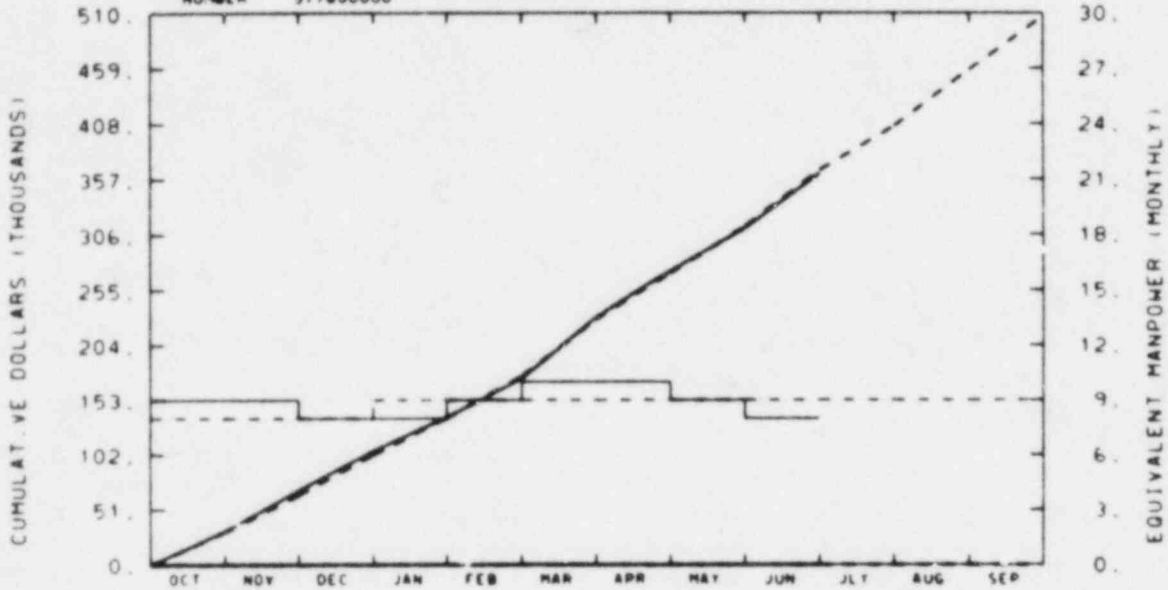
TOTAL PROGRAM												
BUDGET	28	59	94	126	157	199	234	268	310	343	384	424
ACTUAL	24	55	95	124	158	204	237	272	310			

MATERIAL												
BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0

MANPOWER												
BUDGET	7	7	7	8	8	7	7	7	7	7	7	7
ACTUAL	7	7	8	7	8	8	7	8	6			

No significant variance.

EG&G IDAHO INC.
 LOFT INSTRUMENT MAINT
 NUMBER 577800000



TOTAL PROGRAM

BUDGET	30	64	102	136	176	228	271	314	365	406	458	507
ACTUAL	31	69	106	137	173	230	273	312	362			

MATERIAL

BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0

MANPOWER

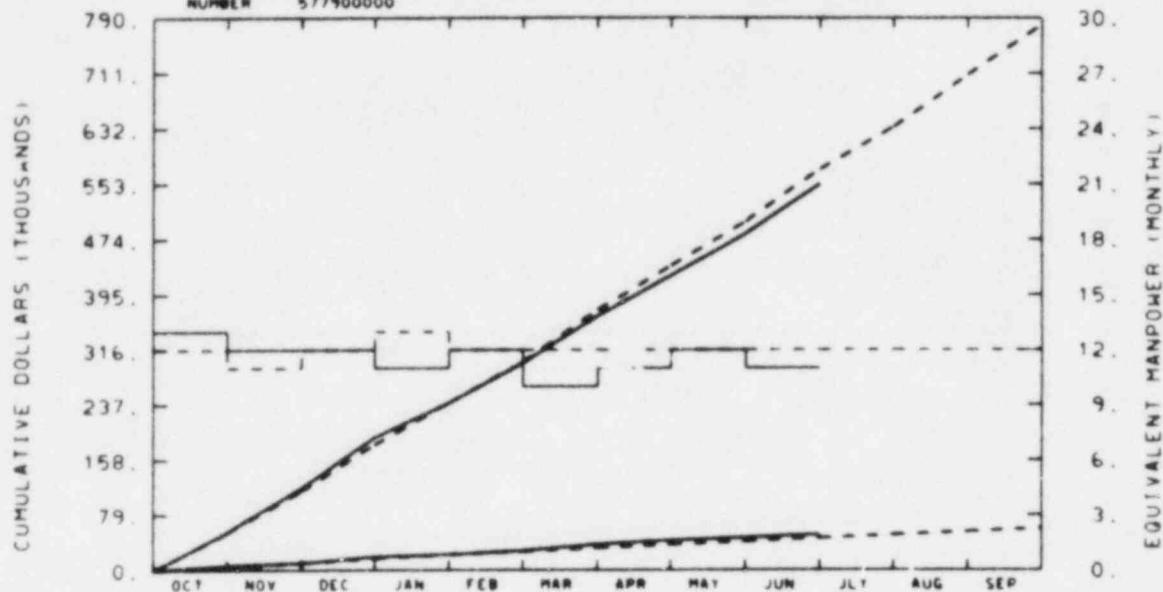
BUDGET	8	8	8	9	9	9	9	9	9	9	9	9
ACTUAL	9	9	8	8	9	10	10	9	8			

BUDGET
 - - - - -
 ACTUAL

No significant variance.

EG&G IDAHO INC.
LOFT SAFETY & ADMIN SUPPORT

NUMBER 577900000



TOTAL PROGRAM

BUDGET	54	113	180	240	298	374	437	500	574	634	709	781
ACTUAL	55	118	190	239	297	365	423	482	553			

MATERIAL

BUDGET	5	11	17	22	27	32	37	41	46	51	55	60
ACTUAL	7	10	20	23	28	37	43	47	51			

MANPOWER

BUDGET	12	11	12	13	12	12	12	12	12	12	12	12
ACTUAL	13	12	12	11	12	10	11	12	11			

BUDGET

ACTUAL

No significant variance. The year-to-date underrun is within 4% of the budgeted cost of work scheduled. No problems are anticipated by year end.

TABLE 1. PLANNED LOFT EXPERIMENT SEQUENCE

Test ID	Commitment Date	Description
CV leak test	07/09/81 ^a	Required test of containment leak integrity.
L6-7/L9-2	07/31/81 ^a	Simulated turbine trip multiple failure continuation of L6-7.
L5-1	10/26/81 ^a	Intermediate size break (accumulator line).
L8-2	11/16/81 ^a	Core uncover at high decay heat level.
Replace A2 with F1	11/19/81 through 01/29/82 ^a	F1 center fuel pressurized to 350 psig.
L9-3	04/07/82 ^a	Anticipated transient without scram (ATWS) loss of feedwater.
L6-6	04/21/82 ^a	Boron dilution from cold shutdown.
L2-5	06/16/82 ^a	200% cold leg break at 50 MW to produce the worst probable core thermal-hydraulic conditions, without fuel damage.
L6-8	10/21/82	Three anticipated transients.
L9-4	11/18/82	ATWS.
Replace F1 with F2	02/23/83	F2 fuel bundle pressurized.
L2-6	03/24/83	200% cold leg break double-ended at 50 MW.
Initiate cold shutdown	09/29/83	In standby--cold without core.

a. Completed.

TABLE 2. LOFT FY-1982 SUMMARY STATUS REPORT--NUCLEAR REGULATORY COMMISSION
(In Thousands of Dollars)

<u>WBS No.</u>	<u>189 No.</u>	<u>Q82-2-2</u>	<u>Approved CCBs</u>	<u>Q82-2-3 Current PMB^a</u>	<u>Current BAC^b</u>
RES-NRC:					
51XX	A6048	3,035	<20>	3,015	3,094
52XX	A6053	3,851	6	3,857	3,718
53XX	A6043	7,208	<305>	6,903	6,673
54XX	A6107	7,596	150	7,746	7,464
55XX	A6122	4,479	<6>	4,473	4,320
56XX	A6110	2,847	29	2,876	2,859
57XX	A6054	8,354	0	8,354	8,410
5XXX		37,370	<146>	37,224	36,538
	Supplementary programs (LTSF)			2,003	1,922
	Estimated carryover			4,913	<u>5,680</u>
	Total RES-NRC funding (FY-1982)				44,140
RES Other:					
5H	A6384	100	0	100	100
5T	A6363	218	300	518	180
5K	6GE402	200	0	200	200
58	A6108	316	105	421	339
59	A6308	<u>516</u>	<u>220</u>	<u>736</u>	<u>486</u>
	Total RES Other	1,350	625	1,975	1,305
	Estimated carryover				<u>670</u>
	Total funding				46,115

a. PMB--performance measurement baseline.

b. BAC--budget at completion.

TABLE 3. LOFT FUNDING SUMMARY FOR FY-1982
(In Thousands of Dollars)

<u>Funds</u>	<u>Current FIN Plan 8</u>	<u>Current Budget File (Q82-2-3)</u>
LOFT foreign funds	4,959	4,959 ^a
NRC RES-Operating funds	44,140	42,012
LTSF	--	<u>2,003</u>
Total	<u>--</u>	<u>44,015</u>
Total LOFT funding ^b	49,099 ^c	48,974

a. \$237K budgeted for FY-1983.

b. Excludes RES-Other, Capital Equipment, and Improved Licensing Criteria.

c. Includes GSO.

TABLE 4. LOFT FY-1982 SUMMARY BUDGET STATUS REPORT OF LOFT FOREIGN FUNDS
(In Thousands of Dollars)

LOFT WBS	Form 189	Q82-2-2	Approved CL.I CCBs Through 05/14/82	Current PBM No. Q82-2-3 ^a	Actual Reserve	Total FY-82 Budget	Total Authorized Spending Limit
5AXX	A6273	6	0	6	0	6	147
5FXX	A6362	1,085	0	1,085	347	1,044	2,000
5NXX	A6271	121	0	121	99	107	640
5GXX	A6104	650	0	650	629	609	6,260
5JXX	A6111	<u>512</u>	<u>0</u>	<u>512</u>	<u>1,511</u>	<u>371</u>	<u>7,000</u>
Total		2,374	0	2,374	2,586	2,137	16,047
Foreign management reserves							<u>2,586</u>
Total FY-1982 LOFT foreign fund work packages							2,137
Foreign funds spent through FY-1981							11,086
Foreign funds budgeted in FY-1983							<u>237</u>
Total foreign funds received to date							16,046

a. The current baseline covers FY-1982 and FY-1983. The FY-1983 portion of the designated work scope has been deducted from the Reserve.

TABLE 5. LOFT CAPITAL EQUIPMENT STATUS REPORT THROUGH JUNE 1982

Form 189	Title	Total Authorized ^a	Costs ^b			PO/WR Commitments	Uncommitted Uncosted Authorizations
			Prior Years	Current Month	Current Year		
A-6061 9RL	Experimental Measurements	1,970,121	508,739	68,329	418,209	89,146	954,027
A-6084 9RT	Integral System Design & Fabrication	1,543,341	801,678	<53,601>	565,825	71,589	104,249
2 A-6088 9RF	LOFT Operations	<u>67,227</u>	<u>3,375</u>	<u>-0-</u>	<u>16,673</u>	<u>9,295</u>	<u>37,884</u>
	Total NRC/LOFT	3,580,689	1,313,792	14,728	1,000,707	170,030	1,096,160

a. This amount will increase as closing costs are expected against items not presently included as FY-1982 authorized items.

b. Figures represent active items carried over from previous years plus new funded items for FY-1982.