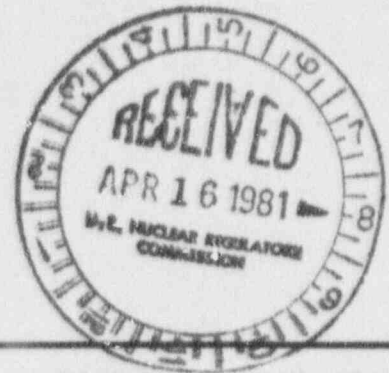


LOFT MONTHLY PROGRESS REPORT
FOR FEBRUARY 1981

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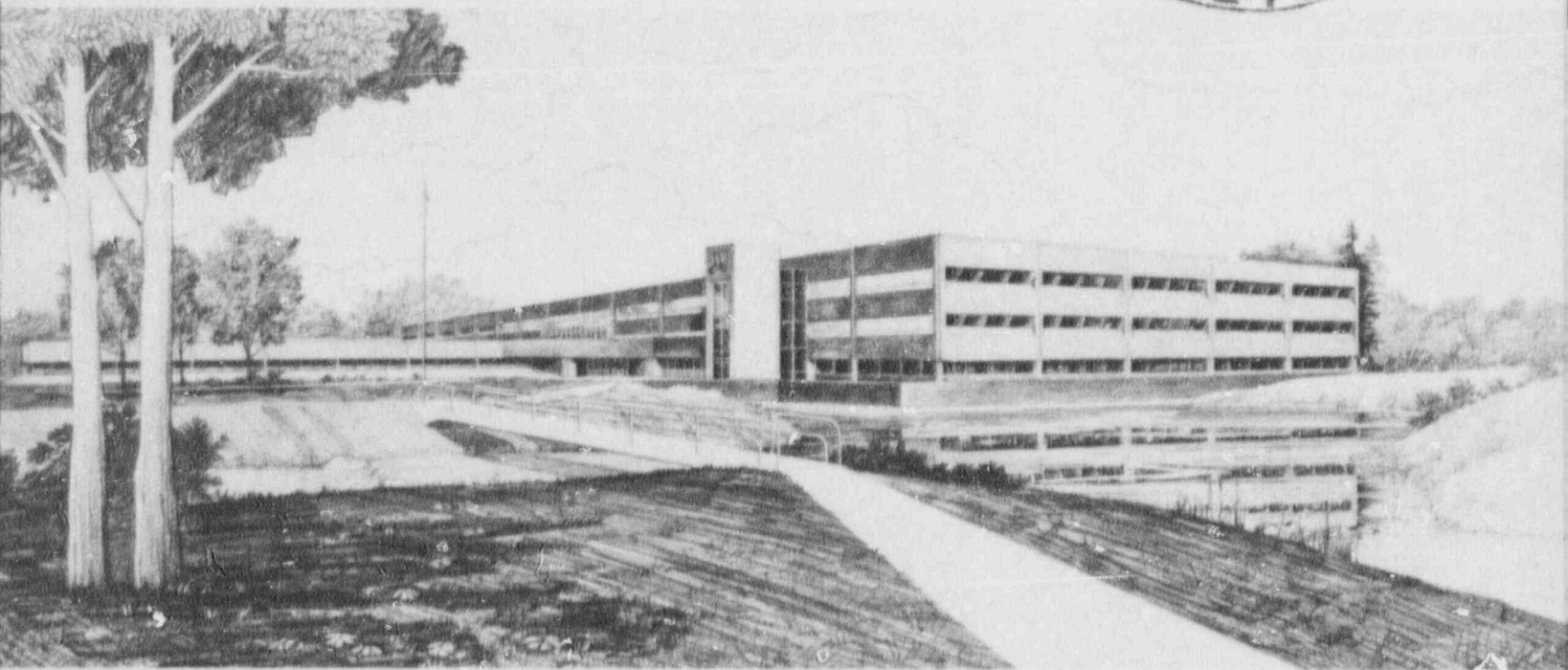
NRC Research and Technical Assistance Report

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

Prepared for the
Nuclear Regulatory Commission
Under DOE Contract No. DE-AC07-76ID01570
FIN No. A6048

NRC Research and Technical Assistance Report

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 **EG&G** Idaho

INTERIM REPORT

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Contract Program or Project Title:

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Subject of this Document:

LOFT Monthly Progress Report
for February 1981

Type of Document:

Interim Report

Author(s):

L. P. Leach

NRC Research and Technical Assistance Report

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Responsible NRC Individual and NRC Office or Division:

G. D. McPherson, LOFT

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

Prepared for the
U.S. Nuclear Regulatory Commission
Washington, D.C.
Under DOE Contract No. DE-AC07-76ID01570
NRC FIN No. A6048

INTERIM REPORT

NRC Research and Technical Assistance Report

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NRC Research and Technical Assistance Report

MANAGER'S MONTHLY SUMMARY

During February LOFT project efforts continued to prepare the facility for Experiment L3-3/L9-1/L8-1A scheduled to be conducted in mid-April 1981. The three part test, Small break, hot leg (L3-3); Loss of all feedwater L9-1; and core uncover (L8-1A); has required major plant modifications as well as installation of new measurement devices to gather data during the experiment.

Some of the major efforts underway and/or completed during the month include the following:

- Testing of the experimental power operating relief valve (PORV) at the LOFT Technical Support Facility was begun
- Fabrication of all instrumentation for the PORV line, which would provide experimental data during testing, was completed
- Piping support designs were completed, and fabrications commenced for the new piping configuration for the test.
- The Experiment Operating Specifications (EOS) for L3-3/L9-1/L8-1A was completed and distributed for review.
- The Experiment Design Document (EDD) for the test was also completed and transmitted to DOE for approval.

During the month eight Research Informative Letters (RIL's) were completed and transmitted to NRC. They were:

1. "LOFT Reactor Safety Program Research Results from Anticipated Transient Experiments L6-1, L6-2, L6-3, and L6-5"
2. "LOFT Reactor Safety Program Research Results from Loss-of-Coolant Experiments L3-0, L3-1, L3-1, and L3-7"

- NRC Research and Technical
Assessment Report
3. "Research Results from the Development and use of a Technical Support Center at the LOSS-OF-FLUID TEST FACILITY"
 4. "LOFT Reactor Safety Program Research: Small Break Prediction Capability"
 5. "Results of the LOFT Augmented Capability Program"
 6. "Comparison of Nuclear and Electrical Rod Response for Large Break PWR LOCA conditions"
 7. "LOFT LOCE L3-7 and ZION Relationship with relap4/MOD7"
 8. "LOFT Instrument Evaluation."

An evaluation of the current LOFT Budget status indicates the year-to-date budget versus actual costs reflects an underrun. This underrun is the result of not achieving the planned manpower levels and associated nonlabor costs. A management recovery plan to correct the underrun and replan the balance of FY-81 is underway and should be completed in April 1981.

ACCOMPLISHMENTS

LOFT TECHNICAL SUPPORT DIVISION

1. The Three Mile Island (TMI) Response Status Report was modified to incorporate the LOFT responses to post-TMI audits conducted at other Idaho National Engineering Laboratory (INEL) facilities. This was done to provide a uniform corporate position on the TMI concerns.
2. A computer model to analytically determine gamma dose rate in containment during and following normal power operation has been developed. The primary use of this model is for determining in-containment shielding requirements; however, it can be used in an accident situation on a limited basis. Two letters have been issued on this project: ECA-6-81, "Analytical Determination of Gamma Dose Rates," and RTMc-3-81, "Status Report of Work Done Under 55LPH02GM."
3. Documentation for the LOFT statistical safety analysis model has been completed and review has been initiated.
4. The following primary coolant system engineering tasks have been completed, and the following work packages have been prepared to effect these tasks:
 - Install new pressurizer pressure transmitters
 - Install pressurizer level computer
 - Install controls for L9-1 test power operated relief valve (PORV) and relocate acoustic valve monitoring system accelerometer (AE-P139-86) on the L9-1 test PORV.
5. The following Facility Change Forms (FCFs) have been prepared and have been submitted for approval:
 - FCF L-8872, "Installation of Signal Cable from the Acoustic Valve Monitoring System to DAVDS"

- FCF L-8868, "Install a Steam Generator Differential Pressure Indicator."

6. The condensate sump level probe installation has been completed and checked out.
7. The installation of an ac-dc power supply and modification to the starting air system for diesel generator "A" have been completed. This power supply and alternate start capability will enable personnel to start and operate the diesel in the event of a loss of normal starting power from the vital battery bank.
8. Engineering was completed and an installation package was prepared to install additional emergency lighting at LOFT.
9. Installation and testing of the new equipment for the LOFT electrical power bus A1 was completed.
10. Final assembly of the control rod assemblies (CRAs) is continuing on a low priority basis. Six assemblies are complete.
11. Repair of the electrical cable for the channel spacing probe was completed. Work is continuing on the procurement of replacement probes and a calibration fixture.
12. Assembly of the LOFT fuel storage rack was completed and the unit was transferred to the Hot Shop for installation. Installation is pending final documentation approval.
13. Fabrication of the irradiated fuel storage facility (IFSF) pool work platform is complete pending installation in the Hot Shop.
14. Fabrication and assembly of the fuel module lifting heads are approximately 95% complete.
15. The requirements document for the purge and clean up system for the Hot Shop shielded windows was completed and is being reviewed.

16. Installation of larger air cylinders on the airlock door locking rings was completed to increase compression on the door seals.
17. Specification T-20 for ASME Section III, Class 2 and 3 Valves was revised to align it with the current code revision.
18. Unit ventilators were removed from the east wall of the hangar. These heater-ventilators were installed for the Aircraft Nuclear Propulsion (ANP) Program. They were not used for LOFT and presented a potential hazard to the vital power system during a seismic event.
19. Heating and Ventilation System No. 9 heater controls for F-15 were modified to operate in either a manual or automatic (from humidistat) mode. The heater controls were moved outside the filter vault.
20. Tungsten carbide valve trim for the L9-1 experimental PORV has been satisfactorily tested by the vendor and was delivered to LTSF for installation into the valve. Final sizing is expected to be completed in March 1981. Installation of the PORV and drag screen-turbine spoolpieces at LOFT is expected to start in March 1981.
21. Piping support designs, drawings, and SWRs were completed for the L9-1/L3-3 piping loop. The supports are currently being fabricated. Schedule consideration required that these supports be designed using preliminary stress analysis loads. The analysis is progressing and the preliminary information still appears to be valid; no major changes are expected.
22. The L9-1/L3-3 secondary coolant system work is running a week behind schedule due to design manpower problems. Procurement of hardware is on schedule.
23. LOFT Technical Report (LTR) LO-12-80-006, "LOFT Spent Resin Cask Thermal Analysis," was released.
24. The final design review of the electrical portion of the decontamination system was completed and approved.

25. A radiological assessment of the isotope detection system was performed to establish design requirements for the system. All isotope detection system design and procurement has been stopped pending reevaluation of program requirements.

LOFT FACILITY DIVISION

1. The work window is continuing for the L9-1/L3-3 test on April 15.
2. Pressurizer level, power-operated relief valve, and secondary coolant system modifications continue to be the critical path items.
3. In-service inspection and surveillance testing are continuing to comply with the Technical Specifications requirements for Experiment L3-3.

LOFT MEASUREMENTS DIVISION

1. The advanced design bearing, drag-disc turbine transducer (DTT) for the life test was assembled, calibrated, and scheduled to begin the hot loop life test the first week in March.
2. The drag screen turbine (DST) modules for Experiment L9-1 were completed. Full flow calibrations of the DST modules at ARA III were completed. The instruments were mounted into the L9-1 DST spoolpiece. The spoolpiece was delivered to the LOFT Test Support Facility (LTSF), and calibration testing has begun.
3. The pressure transducer panel has been fabricated for Experiment L9-1, and installation has been started.
4. Fabrication of the L9-1 Power Operated Relief Valve (PORV) spoolpiece has been completed. The spoolpiece has been delivered to the LTSF; calibration began at LTSF.
5. Seven self-powered neutron detectors (SPNDs), which are being fabricated at Idaho Labs, successfully passed autoclave testing and were sent to General Electric for calibration.
6. Kaman Sciences completed fabrication of ten pellet surface thermocouples (TCs). These TCs passed source inspection and were shipped to Exxon Nuclear for assembly into the F1 bundle.
7. The RIL, "LOFT Instrument Evaluation," was completed and transmitted to DOE-ID.
8. The primary coolant system liquid level calculation (real time) on the HP 41C has been preprogrammed in preparation for the L9-1 test.
9. A letter on the subcooled meter response was prepared and distributed. Key results indicate that the meter performed as designed by indicating system saturation but had difficulty following the core thermal behavior.

10. An analysis was done on the megacount stabilized densitometer (MSD). There appears to be no reasonable method to correct for coincidence events which occur with the currently available MSD electronics. For the small pipe densitometers, these effects are negligible; it is recommended to use the MSD electronics with the small pipe densitometers. The existing pulse height analyzer (PHA) electronics will continue to be used for the 14-inch pipe.
11. Low, intermediate, and high frequency power spectral density and cross spectral density curves have been produced and closely examined for two SPND transducers for the L3-6 test. In addition, auto-correlation and cross-correlation have also been produced from the data. The data selected were chosen from pre-LOCE, pre-quench, quench, and post-quench time frames. A casual relationship has been identified for some of the frequency content, but a relationship between core voiding and SPND signature has not been established. We are currently applying digital filtering techniques to massage and improve the output data.
12. The cabling spares data base has been reviewed and the output has been accepted for use by LOFT. Reports defining the analog signal-transducer-patch panel cabling spares have been run. The digital signal data base designs and preliminary report formats have been completed. A data base design for the analog signal patch panel to recorder data base is complete.
13. A Research Information Letter (RIL) was transmitted to DOE describing a LOFT staff assessment of the ability of scaled thermal-hydraulic experiments using electrical heater rods to simulate conditions in a commercial power reactor during a loss-of-coolant accident (LOCA). The preliminary conclusion is that significant but conservative errors have probably been introduced into LOCA evaluation models and assumptions because of the inherent inability of electric heater rods in sealed thermal-hydraulic test facility environments to duplicate real nuclear fuel rod behavior.

LOFT PROGRAM DIVISION

1. Five Research Information Letter (RIL) drafts were completed and transmitted to DOE-ID for ultimate transmittal to the NRC. The titles of the drafts are as follows:
 - "LOFT Reactor Safety Program Research Results from Anticipated Transient Experiments L6-1, L6-2, L6-3, and L6-5"
 - "LOFT Reactor Safety Program Research Results from Loss-of-Coolant Experiments L3-0, L3-1, L3-2, and L3-7"
 - "LOFT Reactor Safety Program Research: Small Break Prediction Capability"
 - "LOFT LOCE L3-7 and ZION Relationship with RELAP4/MOD7"
 - "Results of the LOFT Augmented Capability Program."
2. An analysis of the possible effects of noncondensable gas on natural circulation and steam generator heat transfer in the LOFT reactor system was completed.
3. An analysis of the LOFT primary coolant gamma spectroscopy at nominal power conditions was completed and documented in a LOFT Data Reference (LDR).
4. A model of phase separation in a tee was inserted in RELAP5 and was made operational. However, initial results showed excessive running times and instabilities. Most of those problems have been solved. The major remaining problem being worked is in the accounting of donor mass storage in the continuity equation solution for junction void fraction downstream of the side port.

5. A RELAP4/MOD7 analysis was completed for a large pressurized water reactor (LPWR) large-break transient with nominal and limiting initial conditions. The calculated results were compared with LOFT LOCE L2-3 data. A report is in progress.
6. Progress was made in determining the worst case large break accident in the ZION plant. Five RELAP5 calculations were made involving variations in primary coolant pump operation. The results gave a clear indication of the worst case with respect to pump operation. Refinements to the ZION calculations are underway in the area of pump modeling to ensure correctness of the results.
7. Two summaries were completed and transmitted to the American Nuclear Society (ANS) committee for consideration for the specialist's meeting in August 1981, in Monterey, CA. The titles are as follows:
 - (a) "RELAP5 Calculations of LOFT Small Break Experiments L3-1 and L3-7"
 - (b) "Traceability of PWR Transient Calculations to LOFT Experimental Data: A Methodology and Specific Small Break Example."
8. Improvements were made to the RELAP5 heat transfer surface plotting program to plot both positive and negative heat fluxes on the same surface. This improvement allows study of negative heat transfer (condensation in particular) and how it couples with the other parts of the heat transfer surface.
9. A new series of liquid fraction probes were received for testing at Lehigh Design. The probes are based on the design of a micro-thermocouple on the boiling surface. The probes are part of an agreement between EG&G and Lehigh to study post-critical heat flux heat transfer.
10. Two L9-1/L3-3/L8-1a subcommittee meetings were held this month. Most major problem areas have been identified and resolved satisfactorily. Final test termination criteria are being developed for the Experiment Operating Specification (EOS).

11. The EOS for L9-1/L3-3/L8-1a was distributed for review.
12. The experiment definition document (EDD) for L9-1/L3-3/L8-1a has been transmitted to DOE for approval.
13. The EDDs for L6-7/L9-2 and L5-1/L8-2 were distributed for review.
14. The preliminary definition and instrument requirements for L2-5 and L2-6 were prepared and distributed for comment prior to writing the EDD in March.

FOREIGN-FUNDED TASK SUMMARIES

Foreign-funded and in-kind LOFT support projects are summarized in this section.

SUMMARY OF JAPANESE-FUNDED (JAERI) TASKS

1. Task 5F8C2 -- Program Development and Analysis

Final changes were incorporated into the two-year master plan for use of LOFT foreign funds. A final version of the plan has been reviewed. A presentation was prepared for an overview of the JAERI participation in LOFT.

2. Task 5F8C4 -- Post-CHF Heat Transfer

Test section and installation drawings are 90% complete. Requisitions for all hardware and power supplies have been placed. Specifications and procedures for fabrication and assembly of thermocouples on the Inconel test tube have been completed, and the thermocouple wire is on hand. A preliminary measurement uncertainty analysis has been completed. The schedule for the post-CHF testing in LOFT Test Support Facility (LTSF) has been shifted due to delays in the nine-rod bundle test schedule. The current best estimate for test initiation is June 1981, with completion in August 1981.

SUMMARY OF GERMAN-FUNDED (FRG) TASKS

1. Task 5F7C2 -- Program Development and Analysis

The request for termination of the LOFT state vector task was approved by the LOFT Change Control Board, and the remaining funds for this task were transferred back to the FRG reserve account.

Analysis to upgrade the operating limits of the LTSF two-phase loop steam supply vessels was completed and transmitted to LOFT Configuration and Documentation Control Services (CDCS) for distribution.

2. Task 5F7EVAL -- Test Prediction and Evaluation

Post-test analyses for Experiments L3-5/L3-5A, and L3-6/L8-1 are being performed on schedule. Documentation will be completed by late April 1981.

3. Task 5F7C5 -- Program Planning

Calculations for the LOFT L9-4 transient (an anticipated transient without scram resulting from loss of ac power) were completed. Modeling of the LOFT and ZION models for tests L5-1 and L9-4 were initiated.

The review of the Augmented Operator Capability (AOC) Program is continuing. Evaluations for the LOFT Experiment L6-7/L9-2 indicate a saturation pressure-temperature map will be the most useful display in differentiating between a small break and a cooldown transient.

4. Task 5F7PROG -- Long-Range Planning

Intermountain Technology Inc. (ITI) has been subcontracted to provide code assistance with RELAP5 runs to scope Series 8 tests L8-3 and L8-4. ITI work will begin in March 1981.

A draft of the LOFT Experimental Program Document (LEPD) has been distributed for comment.

SUMMARY OF NETHERLANDS-FUNDED (ECN) TASKS

Task 5FNC2 -- Program Development and Analysis

The work for the critical flow scaling studies is actively progressing. Data runs were completed for an additional nozzle size (0.213-inch diameter).

A proposal was prepared for work to be performed in FY-81 to make comparison studies between a large commercial pressurized water reactor and LOFT for low power transients. The proposal will not be processed until a need for continued work in this area can be justified.

SUMMARY OF FRENCH-FUNDED (CEA) TASKS

1. Task 5FFC2 -- Program Development and Analysis

Preparations were completed for LOFT technical presentations which will be made at Grenoble, France in early March 1981.

2. Task 5FFFUEL -- F2 Fuel Bundle Fabrication

Significant activities for the fabrication and assembly of the F2 center fuel bundle are scheduled for March 1981.

3. Task 5FFINST -- Reload Core II Test Instrumentation

Qualification units for the cladding thermocouples have been completed by Idaho Labs. The thermocouples are at ARA III for qualification testing.

Ten external fuel pellet thermocouple units were source inspected and shipped to Exxon Nuclear. Fabrication of the second lot has commenced.

SUMMARY OF AUSTRIAN-FUNDED (FZS) TASKS

1. Task 5FAC2 -- Program Development and Analysis

A draft report that discussed establishing a limited extension of the present LOFT agreement was prepared by the FZS staff. EG&G reviewed the report and provided comments to FZS.

2. FZS In-Kind Support to LOFT

The FZS staff completed a second review of the LOFT Standard Problem Description Document.

Autoclave tests have been completed on several optical materials (spinel, titanium dioxide, and strontium titanate), insulation materials (Cermet and Durock), and DAVCO material (DM-3, DM-4, DM-5, and DM-6). A test report is being prepared.

SUMMARY OF SWITZERLAND IN-KIND (EIR) SUPPORT

1. NEPTUN Reflood Test Program

Pre-test preparations in the NEPTUN test facility are continuing.

PERFORMANCE ANALYSIS

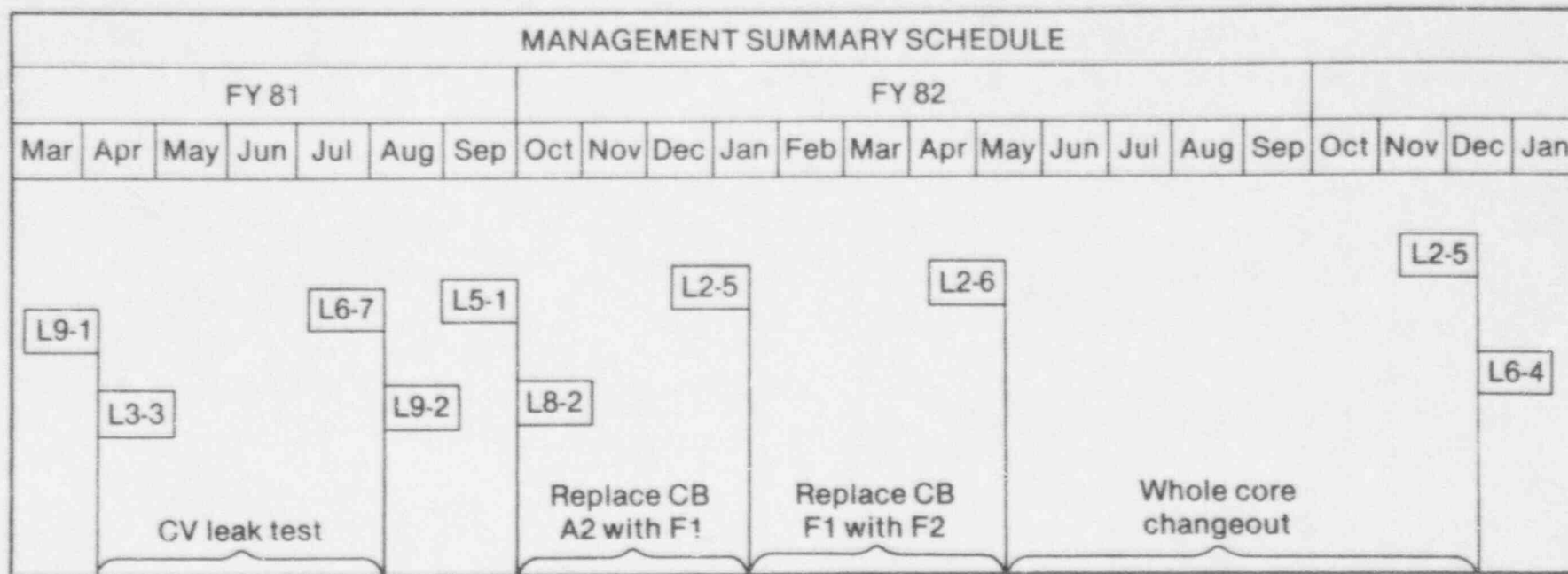
The LOFT Performance Measurement System provides timely, valid project status information that combines cost and schedule performance data for trend analysis. The Budgeted Cost of Work Scheduled (BCWS) forms a Performance Measurement Baseline for subsequent comparisons with the Budgeted Cost of Work Performed (BCWP). The BCWP is also compared with the Actual Cost of Work Performed (ACWP).

	<u>BCWS</u>		<u>BCWP</u>		<u>ACWP</u>	
	<u>Month</u>	<u>Year-to-Date</u>	<u>Month</u>	<u>Year-to-Date</u>	<u>Month</u>	<u>Year-to-Date</u>
5N2D000	210	1,304	218	1,221	126	1,165
5N4K000	133	720	130	580	97	579
5N4P000	77	437	73	304	37	305

For 5N2D000, refer to the comment on the summary cost account chart.

For 5N4K000, refer to the comment on the summary cost account chart.

For 5N4P000, refer to the comment on the summary cost account chart.



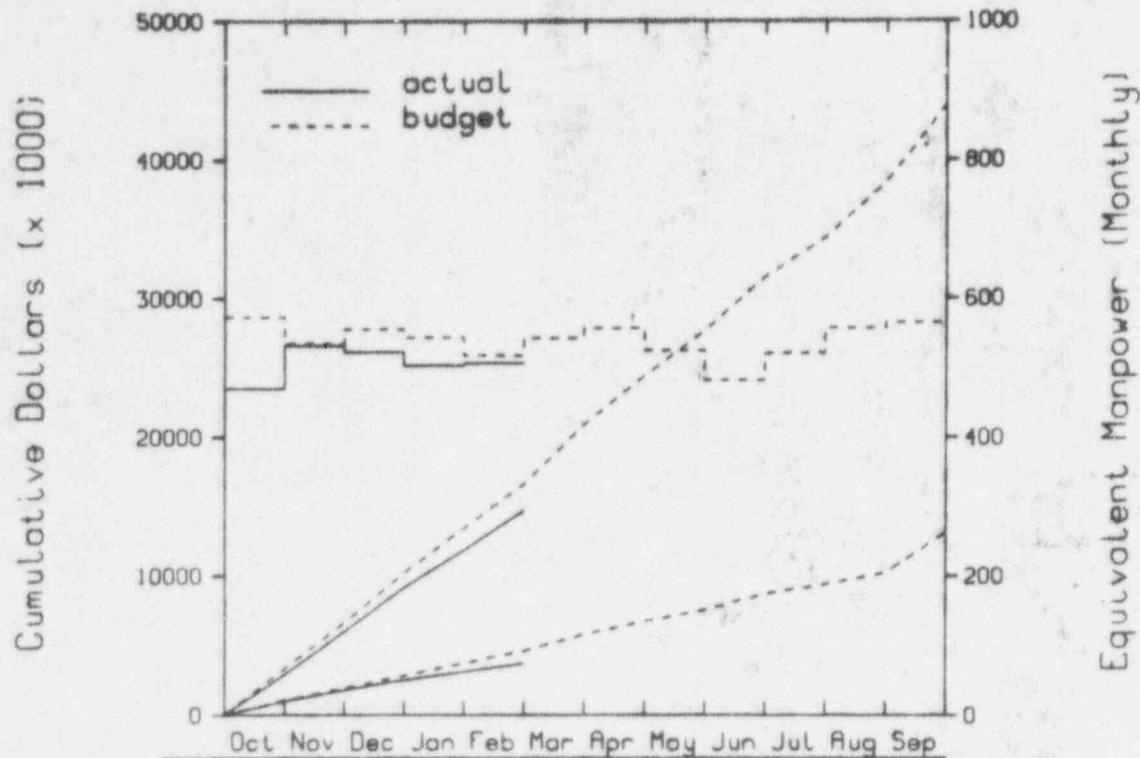
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Figure 1. LOFT management summary schedule.

LOFT Overall Funding

5xxxxx

LOFT Program Cost/Budget Summary LOFT OVERALL FUNDING



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	3311	6602	10180	13416	16617	20886	24431	27684	31573	34395	38419	43920
Act	2861	5968	9136	11822	14697							

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	1033	1934	2818	3719	4600	5779	6721	7545	8716	9401	10246	13141
Act	1002	1780	2502	3101	3699							

Manpower

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	573	535	556	544	518	543	557	525	482	521	557	565
Act	470	532	523	504	507							

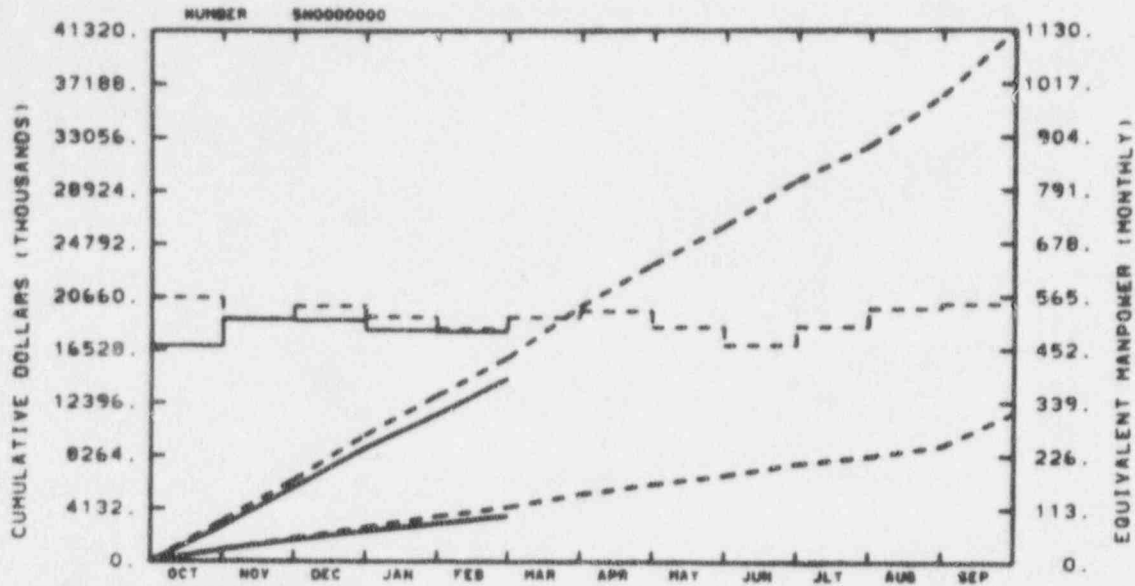
The Nuclear Regulatory Commission (NRC) and foreign-funded budgets reflect the LOFT Q81-1 Rev 1 baseline reflecting approved changes through February 1981. The year-to-date underrun is being evaluated for preparation of a management recovery plan. Refer to the Manager's Monthly Summary for comments.

5N--NRC Operating Funding

5F--Foreign Funding

EG&G ID&HO INC.

LOFT-NRC OPERATING FUNDS



TOTAL PROGRAM

BUDGET	3174	6358	9676	12967	15934	19936	23223	26221	29746	32377	36233	41318
ACTUAL	2739	5755	8952	11484	14308							

MATERIAL

BUDGET	931	1798	2668	3519	4297	5292	6077	6755	7567	8348	9027	11586
ACTUAL	921	1675	2369	2987	3574							

MANPOWER

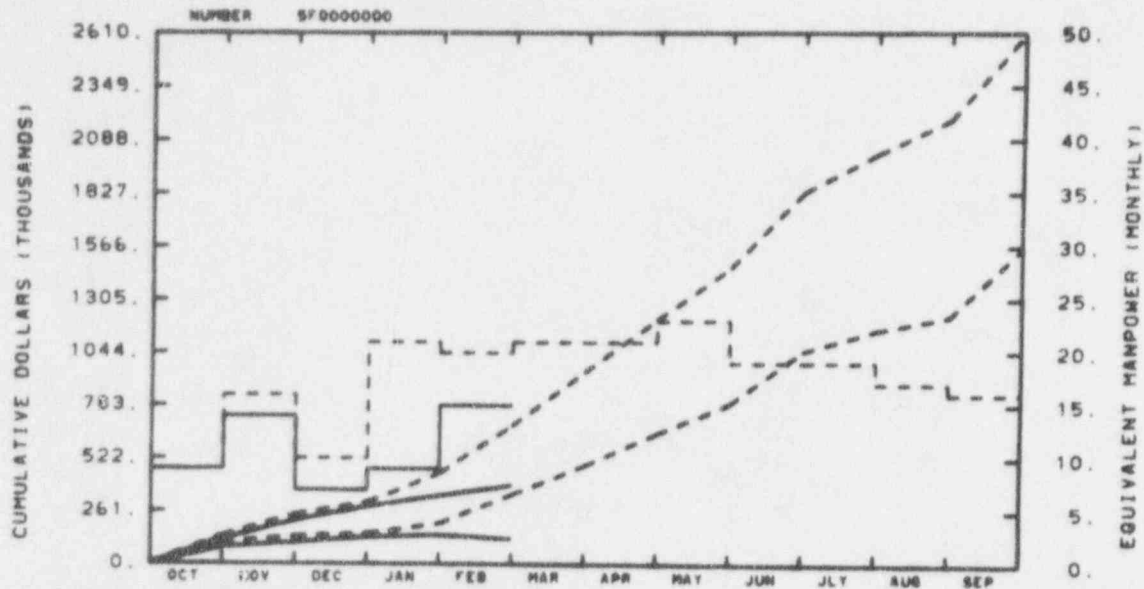
BUDGET	564	519	546	523	498	523	536	502	463	502	540	549
ACTUAL	461	518	516	495	492							

BUDGET

ACTUAL

The year-to-date underrun is made up of approximately \$940K labor and \$680K nonlabor. These underruns are being evaluated for preparation of a management recovery plan.

EG&G IDAHO INC.
LOFT-FOREIGN FUNDING



TOTAL PROGRAM

BUDGET	137	244	304	449	693	950	1208	1463	1833	2018	2186	2602
ACTUAL	122	213	284	338	389							

MATERIAL

BUDGET	102	136	150	200	343	427	644	790	1049	1153	1219	1598
ACTUAL	81	105	133	144	128							

MANPOWER

BUDGET	9	16	10	21	30	21	21	30	19	19	17	16
ACTUAL	9	14	7	9	19							

BUDGET

ACTUAL

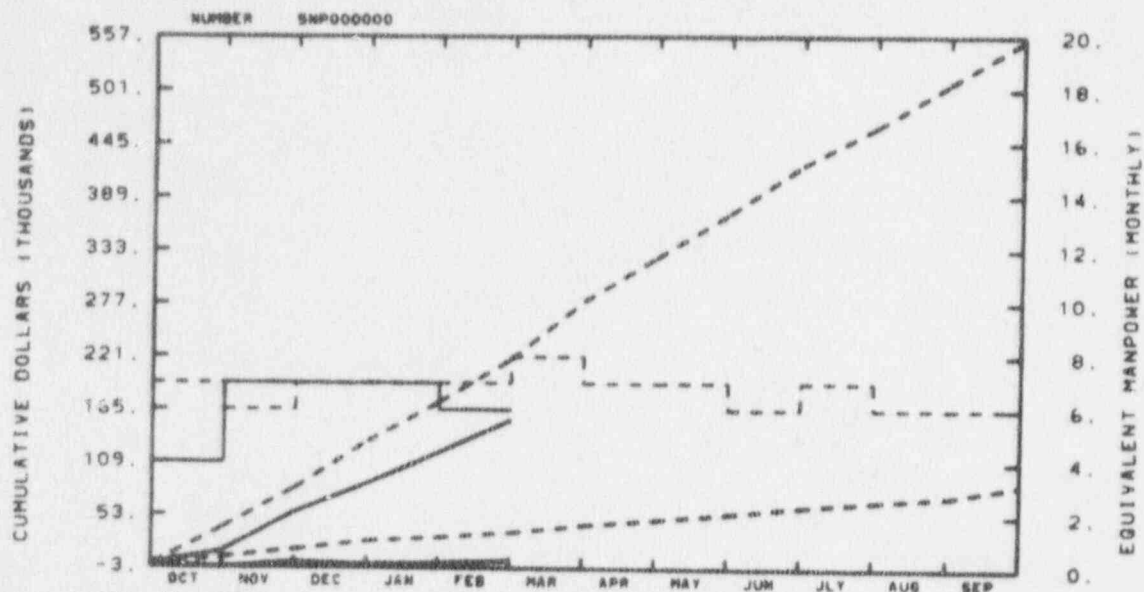
The year-to-date underrun is made up of approximately \$75K labor and \$220K nonlabor. Reassignment of personnel to higher priority work results in this underrun, which is being evaluated.

LOFT 189a Summary

5NX--NRC 189a

5FXX--Foreign 189a

EGIG IDAHO INC.
PROBABILISTIC ANAL A-6308



TOTAL PROGRAM

BUDGET	40	81	131	173	219	280	326	372	423	462	508	553
ACTUAL	15	56	87	120	159							

MATERIAL

BUDGET	8	16	25	30	35	43	49	55	62	68	74	86
ACTUAL	-2	3	1	3	5							

MANPOWER

BUDGET	7	6	7	7	7	8	7	7	6	7	6	6
ACTUAL	4	7	7	7	6							

BUDGET

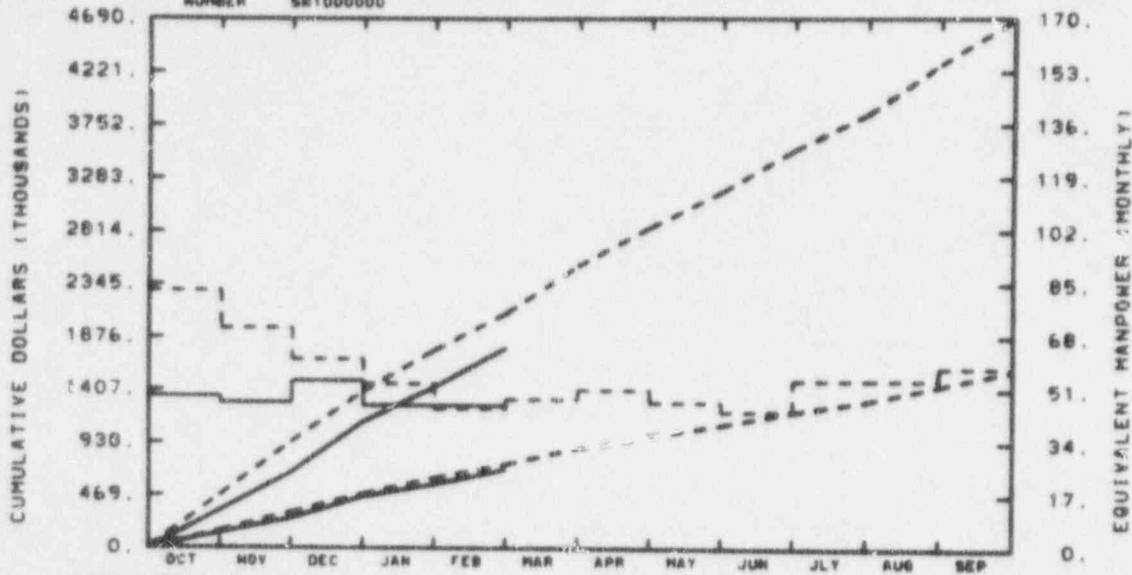
ACTUAL

Higher priorities of tasks resulted in reassignment of personnel. Training functions for the prime system has been delayed. Material underrun due to the DANCHALC subcontract not costed as planned.

EG&G IDAHO INC.

A6048 EXPERIMENTAL PROGRAM

NUMBER SM1000000



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	471	943	1395	1763	2091	2514	2856	3169	3535	3850	4288	4690
ACTUAL	333	671	1120	1435	1784							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	152	316	479	621	744	893	1000	1098	1214	1300	1443	1679
ACTUAL	133	261	456	566	698							

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	53	71	81	93	45	48	51	47	46	54	56	58
ACTUAL	49	47	54	46	46							

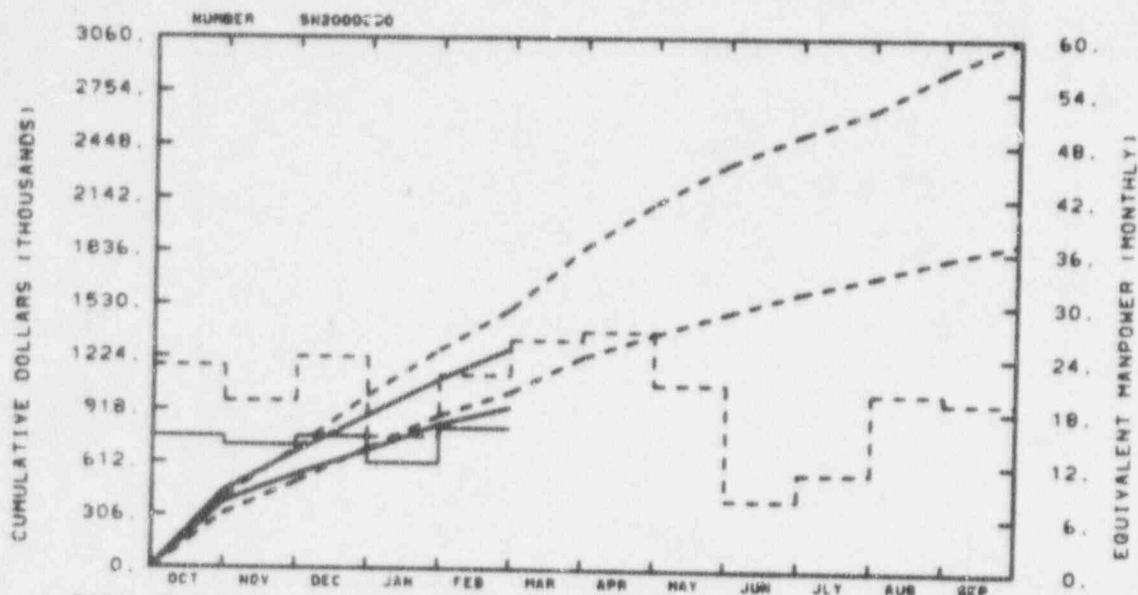
BUDGET

ACTUAL

Manpower is behind schedule. Each summary cost account is being evaluated as are the staffing plans. Summary cost account graphs provide more specific information on budget versus cost comments.

EG&G IDAHO INC.

A6053 FUEL



TOTAL PROGRAM

BUDGET	411	685	1003	1267	1507	1860	2116	2341	2511	2653	2876	3055
ACTUAL	445	673	885	1096	1277							

MATERIAL

BUDGET	313	496	694	887	1025	1230	1364	1485	1603	1695	1801	1891
ACTUAL	382	543	683	836	937							

MANPOWER

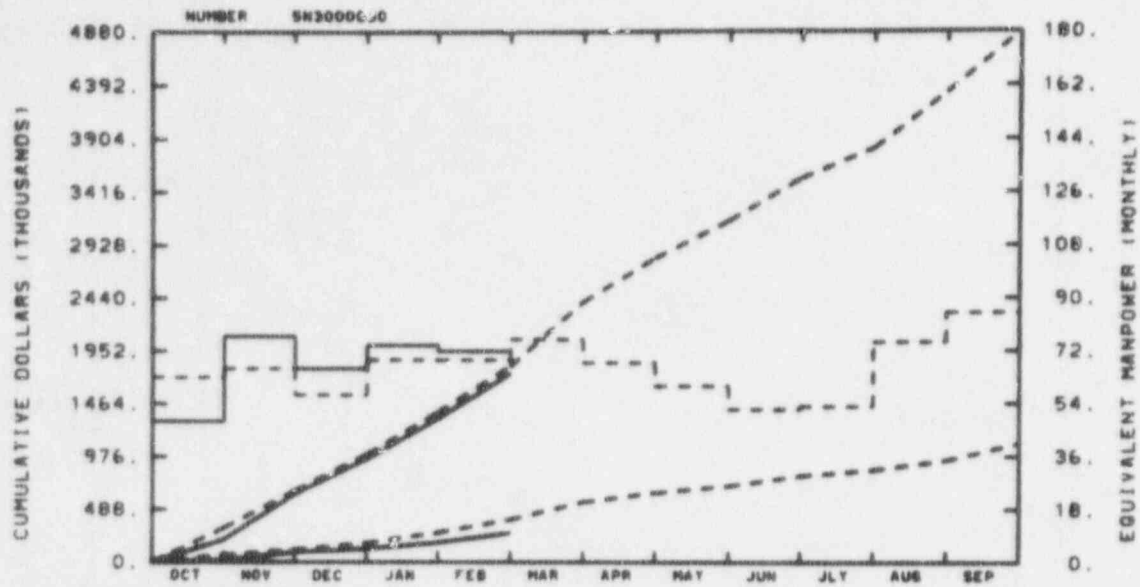
BUDGET	23	16	24	15	23	26	27	21	8	11	20	15
ACTUAL	18	14	15	12	16							

BUDGET

ACTUAL

Refer to the summary cost accounts 5N2D and 5N2F for detailed explanations of the underrun and planned corrective actions.

EG&G IDAHO INC.
A6043 EXPER INSTRUMENTATION



TOTAL PROGRAM												
BUDGET	315	661	996	1387	1814	2407	2813	3154	3541	3818	4331	4879
ACTUAL	208	627	955	1327	1745							

MATERIAL												
BUDGET	64	115	176	274	393	556	642	705	796	852	929	1094
ACTUAL	18	93	124	181	270							

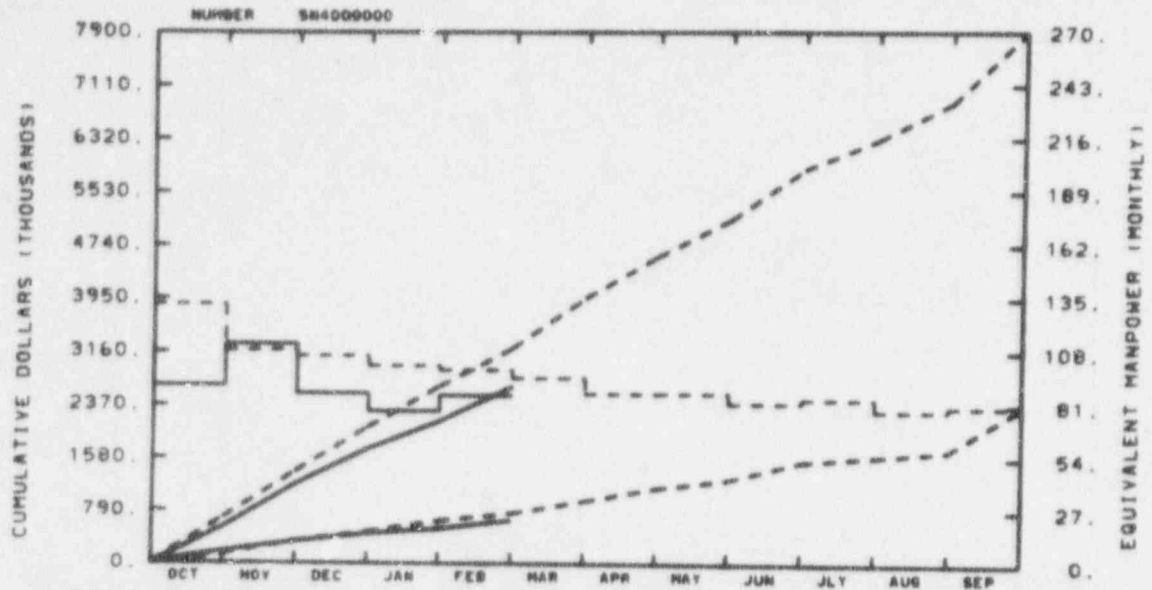
MANPOWER												
BUDGET	63	66	57	69	69	76	68	60	52	53	75	85
ACTUAL	48	77	66	74	72							

BUDGET

ACTUAL

No significant variance.

EG&B IDAHO INC.
A6107 PLANT SUPPORT



TOTAL PROGRAM

BUDGET	586	1382	2044	2652	3223	3969	4581	5124	5670	6206	6890	7892
ACTUAL	542	1186	1715	2130	2650							

MATERIAL

BUDGET	143	332	474	626	792	938	1134	1260	1528	1605	1687	2344
ACTUAL	181	328	444	521	646							

MANPOWER

BUDGET	132	109	106	101	99	95	87	87	82	84	78	80
ACTUAL	91	112	87	78	86							

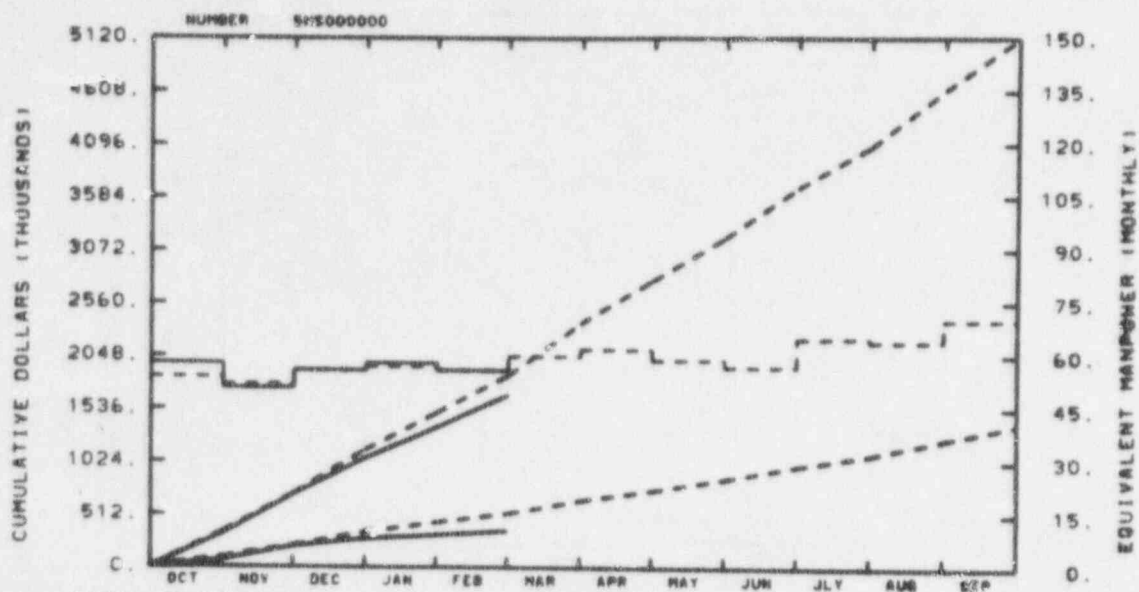
BUDGET

ACTUAL

The year-to-date underrun is being evaluated for corrective action.

EG&G IDAHO INC.

A6122 CORE & SAFETY SUPPORT



TOTAL PROGRAM

BUDGET	340	714	1136	1498	1862	2369	2786	3199	3680	4079	4622	5117
ACTUAL	319	703	1095	1355	1671							

MATERIAL

BUDGET	99	211	340	435	523	650	752	862	987	1092	1242	1382
ACTUAL	66	203	276	314	353							

MANPOWER

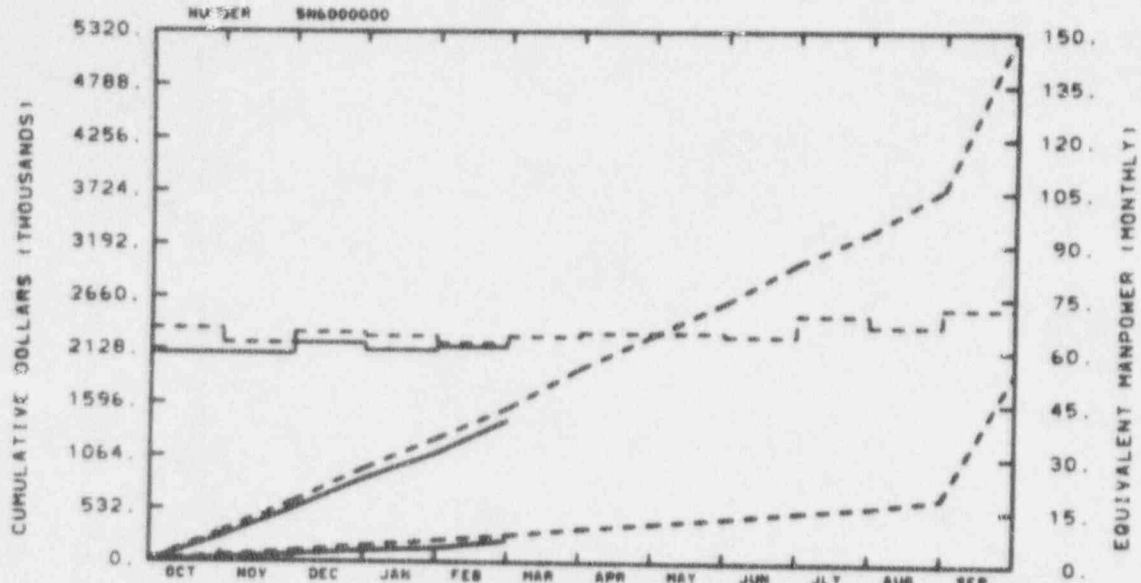
BUDGET	54	52	56	57	56	60	62	59	67	65	64	70
ACTUAL	58	51	56	58	56							

BUDGET

ACTUAL

Non-labor (CYBER) underrun will be corrected in March 1981.

EG&G IDAHO INC.
A6110 COMMON SUPPORT



TOTAL PROGRAM												
BUDGET	295	602	940	1244	1549	1949	2278	2608	3003	3319	3752	5319
ACTUAL	247	531	837	1097	1426							

MATERIAL												
BUDGET	54	108	164	220	271	329	394	448	514	568	657	1922
ACTUAL	31	72	114	139	218							

MANPOWER												
BUDGET	54	62	65	64	62	64	65	66	64	70	67	72
ACTUAL	59	59	62	60	61							

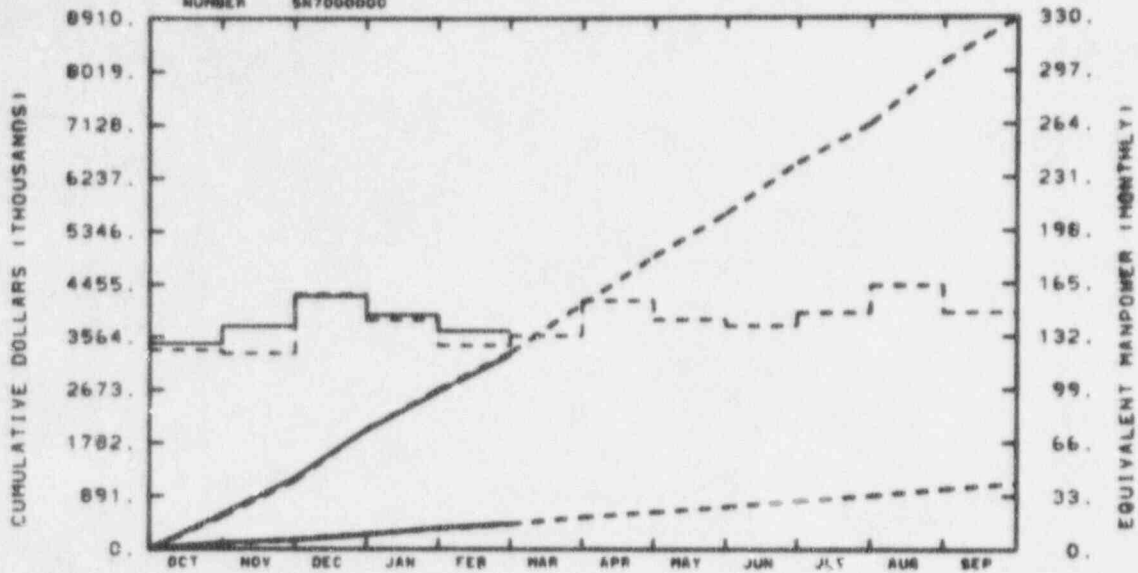
BUDGET

ACTUAL

The year-to-date underrun is being returned to Management Reserve.

EG&G IDAHO INC.
A6054 FACILITY OPERATIONS

NUMBER 5N7000000



TOTAL PROGRAM

BUDGET	546	1144	2010	2686	3303	4126	4929	5645	6485	7140	8167	8901
ACTUAL	589	1193	2006	2647	3263							

MATERIAL

BUDGET	79	163	296	339	423	533	621	710	815	899	1009	1102
ACTUAL	108	153	248	357	427							

MANPOWER

BUDGET	124	122	159	143	127	133	155	143	129	147	166	147
ACTUAL	128	139	156	146	136							

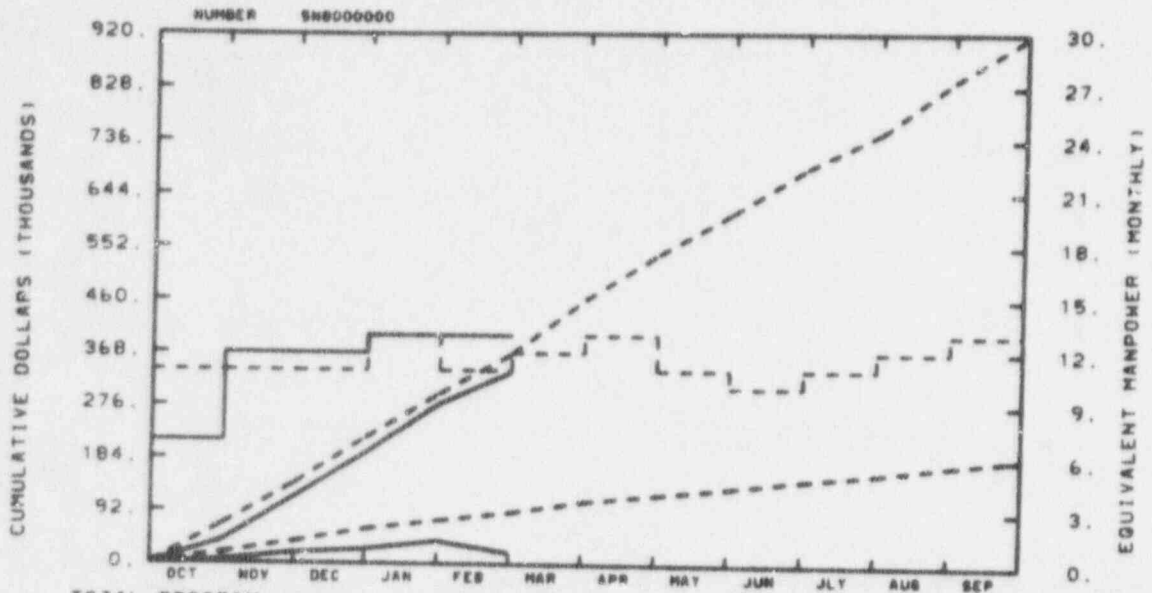
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

A6108 AUGEM OPER CAPABILITY



TOTAL PROGRAM

BUDGET	68	140	220	297	366	462	541	610	680	749	839	915
ACTUAL	40	116	193	270	336							

MATERIAL

BUDGET	19	38	60	76	90	109	122	133	146	159	174	187
ACTUAL	5	19	25	40	20							

MANPOWER

BUDGET	11	11	11	12	11	12	13	11	10	11	12	13
ACTUAL	7	12	12	13	13							

BUDGET

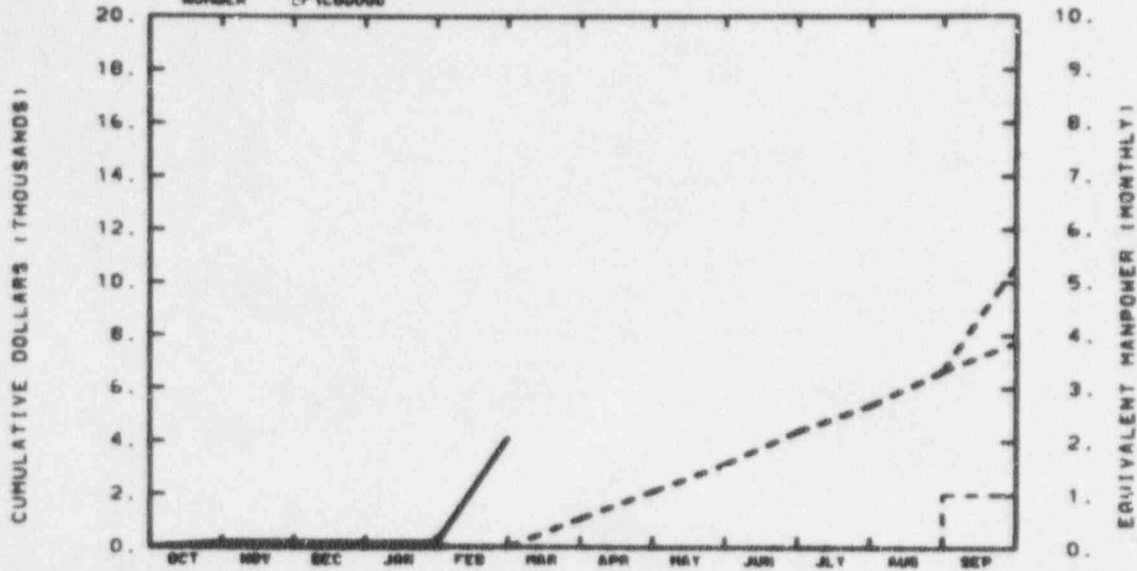
ACTUAL

No significant variance.

EG&G IDAHO INC.

A6273 - AUSTRIAN FUNDS

NUMBER 271000000



TOTAL PROGRAM

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

MATERIAL

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

HANPOWER

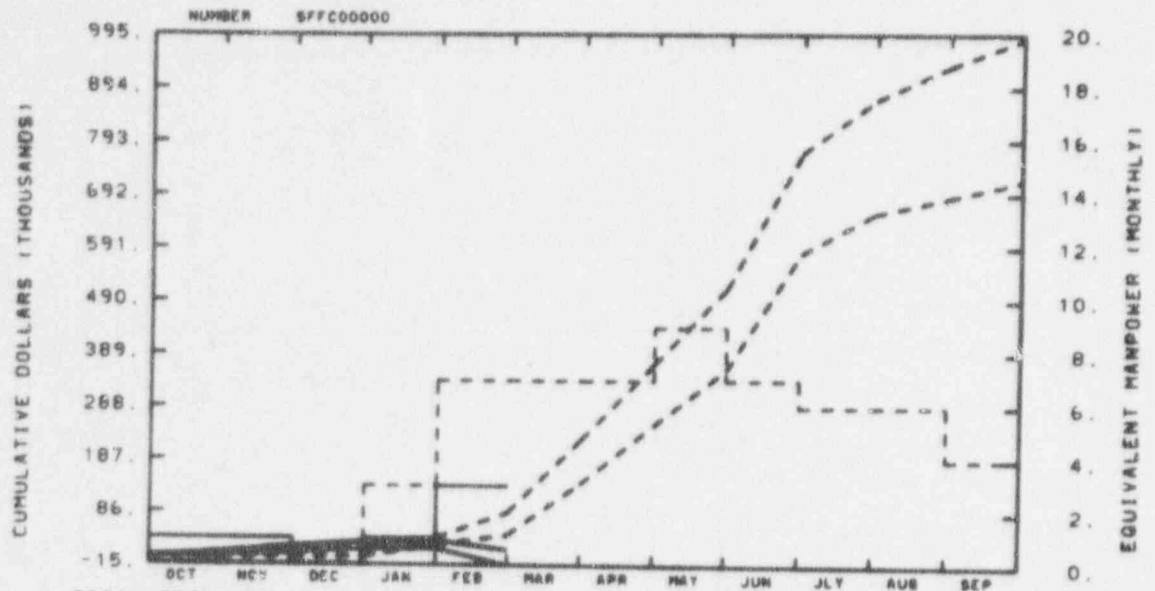
BUDGET	0	0	0	0	0	0	0	0	0	0	0	1
ACTUAL	0	0	0	0	0							

BUDGET

ACTUAL

An NRC trip to Austria was costed earlier than budgeted. No overrun problems exist.

EG&G IDAHO INC.
A6362 - FRENCH FUNDS



TOTAL PROGRAM

BUDGET	0	0	0	38	86	226	371	516	772	872	935	967
ACTUAL	8	20	30	32	15							

MATERIAL

BUDGET	0	0	0	23	43	142	254	360	581	656	687	718
ACTUAL	2	9	17	17	-14							

MANPOWER

BUDGET	0	0	0	3	7	7	7	9	7	6	6	4
ACTUAL	1	1	0	1	3							

BUDGET

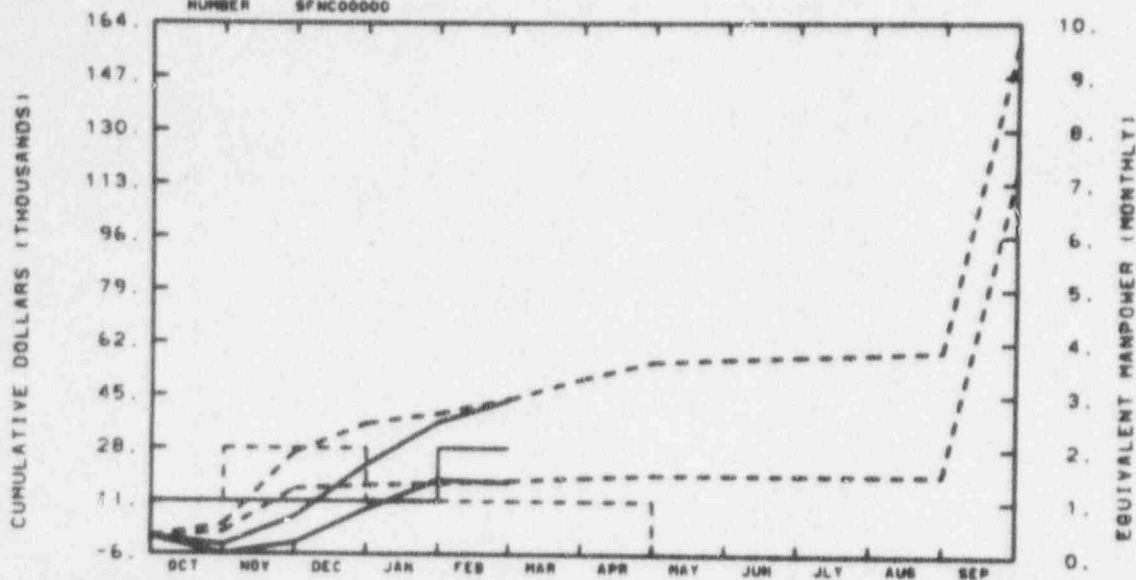
ACTUAL

Budget graphs at this level contain reserves and contingencies. Refer to lower level graphs (summary cost accounts) for more meaningful budget review.

EG&G IDAHO INC.

A6271 - NETHERLANDS FUNDS

NUMBER SFNC00000



TOTAL PROGRAM

BUDGET	4	27	36	40	44	51	56	57	58	59	60	159
ACTUAL	-2	6	23	37	44							

MATERIAL

BUDGET	1	15	17	17	18	19	20	20	20	20	20	117
ACTUAL	-5	-1	9	18	17							

MANPOWER

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

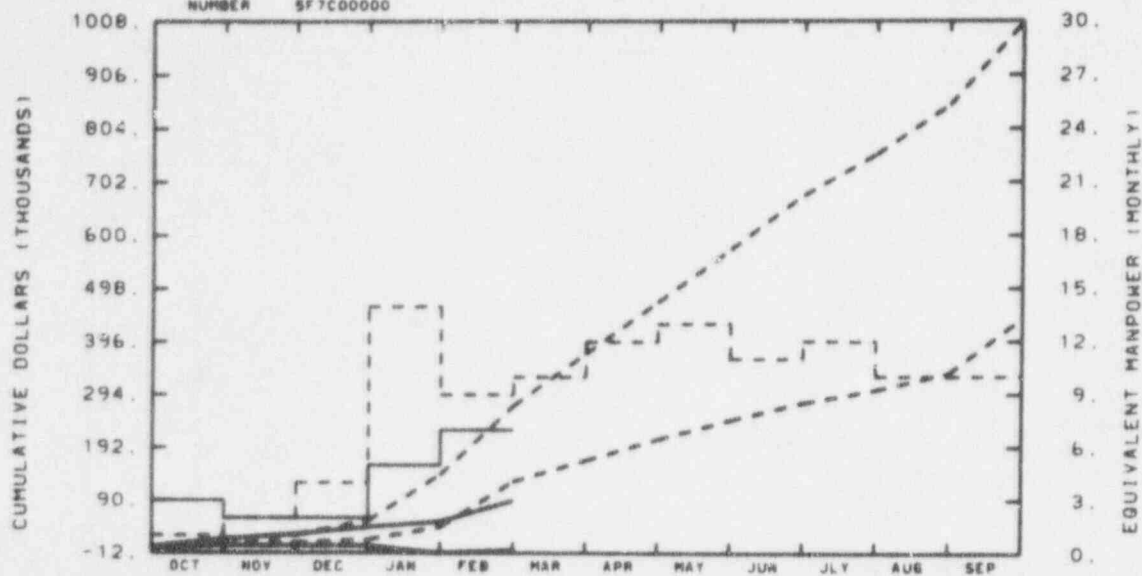
BUDGET

ACTUAL

No significant variance. Budget graphs at this level contain reserves and contingencies. Refer to lower level graphs (summary cost accounts) for more meaningful budget review.

EG&G IDAHO INC.
A6104 - GERMAN FUNDS

NUMBER SF7C00000



TOTAL PROGRAM

BUDGET	11	23	50	139	273	373	473	573	676	755	849	1005
ACTUAL	16	25	38	49	90							

MATERIAL

BUDGET	5	8	14	39	127	167	208	244	277	302	334	440
ACTUAL	3	2	2	-11	-5							

MANPOWER

BUDGET	1	2	4	14	9	10	12	13	11	12	10	10
ACTUAL	3	2	2	5	7							

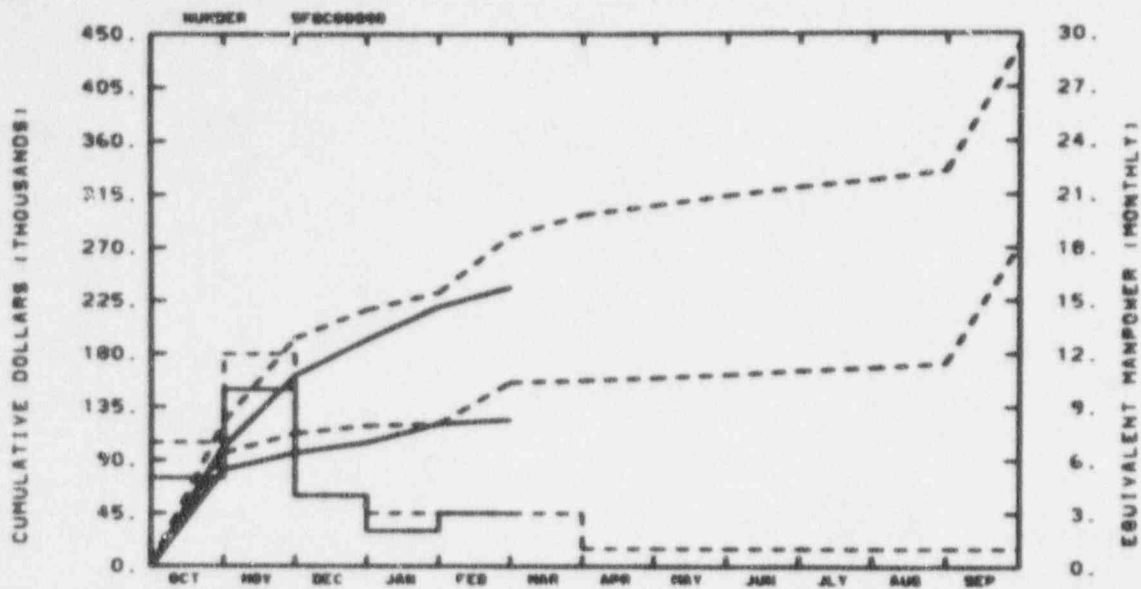
BUDGET

ACTUAL

Budget graphs at this level contain reserves and contingencies. Refer to lower level graphs (summary cost accounts) for more meaningful budget review.

EG&G IDAHO INC.

A6111 - JAPANESE FUNDS



TOTAL PROGRAM

BUDGET	123	193	218	232	261	299	306	314	321	327	335	441
ACTUAL	101	162	152	220	237							

MATERIAL

BUDGET	96	113	115	121	156	190	168	163	166	166	172	273
ACTUAL	82	96	109	121	124							

MANPOWER

BUDGET	7	12	4	3	3	3	1	1	1	1	1	1
ACTUAL	5	10	4	2	3							

BUDGET

ACTUAL

Budget graphs at this level contain reserves and contingencies. Refer to lower level graphs (summary cost accounts) for more meaningful budget review.

Summary Cost Accounts

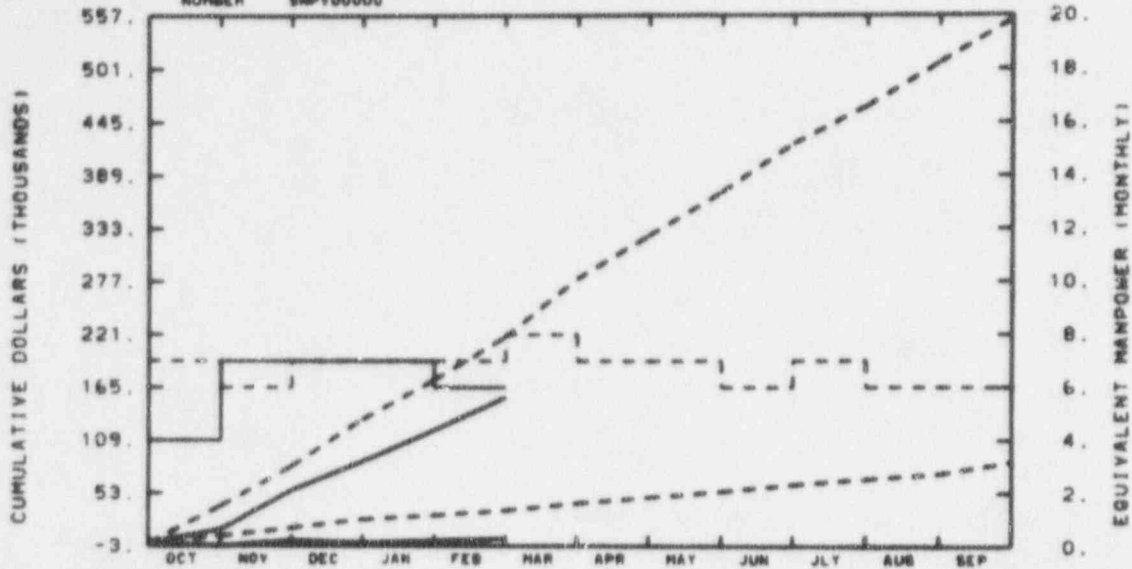
5Nxx--NRC Summary Cost Accounts

5Fxxx--Foreign Summary Cost Accounts

EG&G IDAHO INC.

AOS - PAS

NUMBER SMPY00000



TOTAL PROGRAM

BUDGET	40	81	121	173	219	280	326	372	423	462	503	553
ACTUAL	15	56	87	126	155							

MATERIAL

BUDGET	8	16	25	30	35	43	45	55	62	68	74	86
ACTUAL	-2	3	1	3	5							

MANPOWER

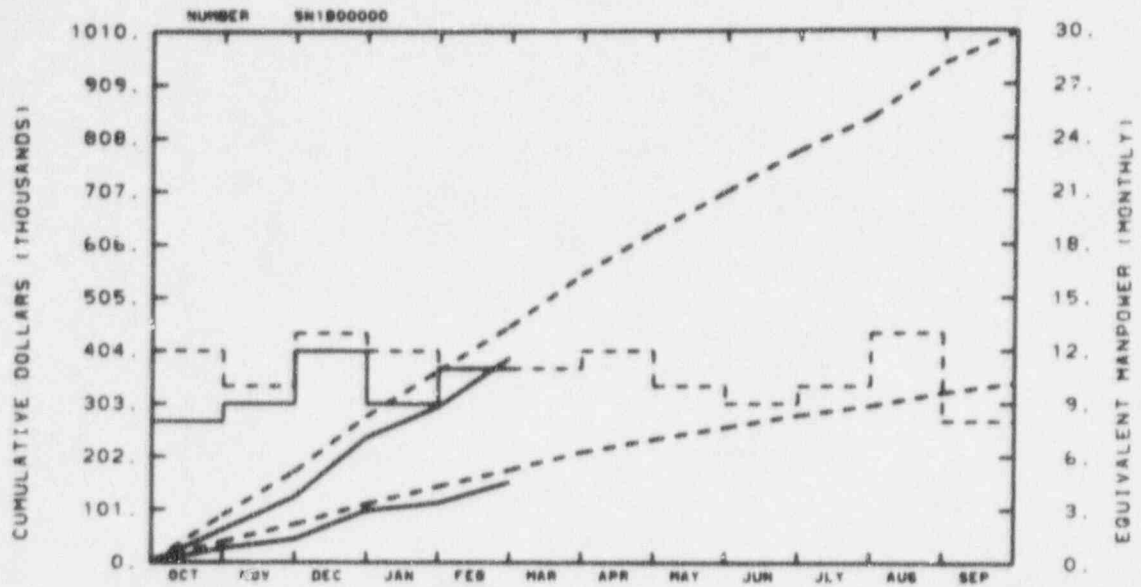
BUDGET	7	6	7	7	7	8	7	7	6	7	6	6
ACTUAL	4	7	7	7	6							

BUDGET

ACTUAL

Higher priorities of tasks resulted in reassignment of personnel. Training function for the prime system has been delayed. Material underrun due to the DANCHALC subcontract not costed as planned.

EG&G IDAHO INC.
EXP PROG - PROG PLAN & EVAL



TOTAL PROGRAM												
BUDGET	90	173	279	366	450	549	621	705	783	846	948	1007
ACTUAL	62	128	229	296	391							

MATERIAL												
BUDGET	40	73	111	145	177	210	235	250	281	299	323	342
ACTUAL	27	45	99	114	154							

MANPOWER												
BUDGET	12	10	13	12	11	11	12	10	9	10	13	8
ACTUAL	8	9	12	9	11							

BUDGET

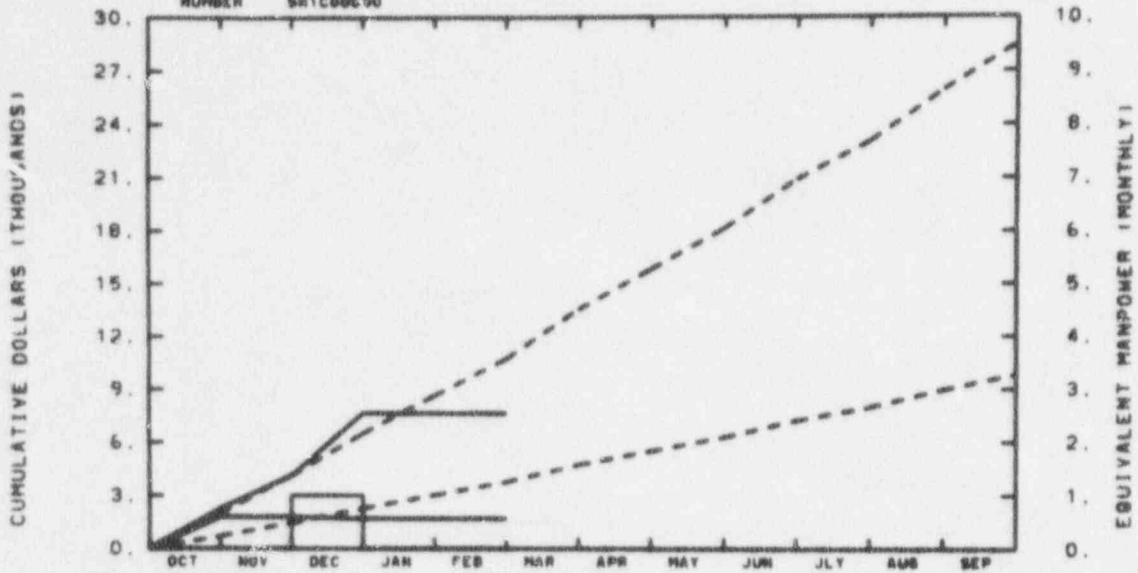
ACTUAL

This graph includes branch support which will be shown on its own graph in March 1981. If branch support is subtracted from these figures, we are about 35K underspent on material dollars (computer). The manpower is currently on budget.

EG&G IDAHO INC.

SWISS REFLOOD

NUMBER SN1C000000



TOTAL PROGRAM

BUDGET	2	4	6	9	11	14	16	18	21	23	26	29
ACTUAL	2	4	6	8	8							

MATERIAL

BUDGET	1	1	2	3	4	5	6	6	7	8	9	10
ACTUAL	2	2	2	2	2							

MANPOWER

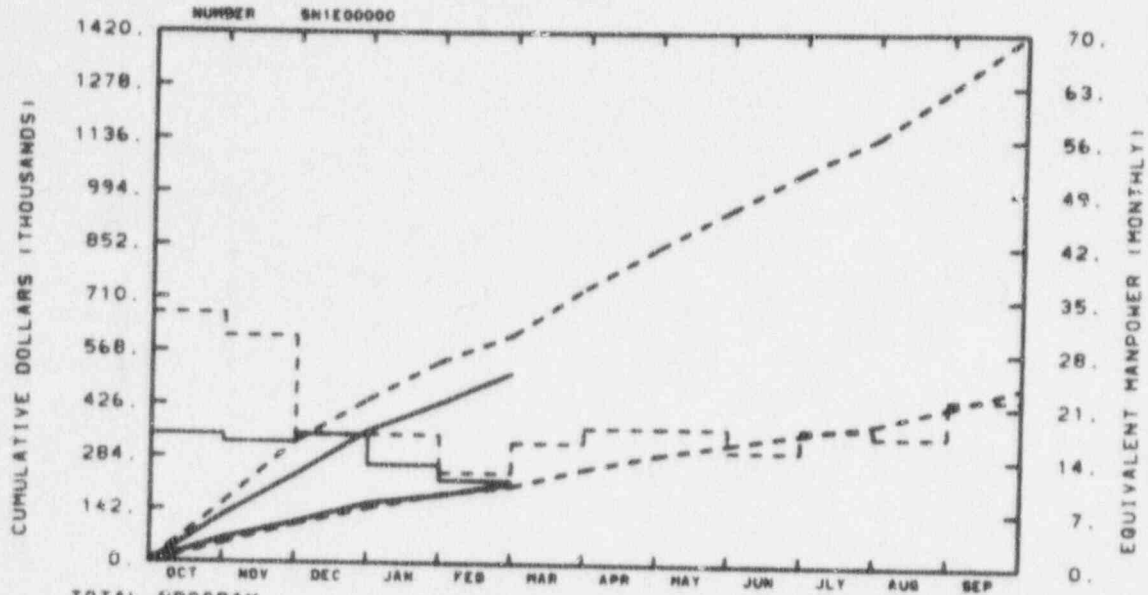
BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	0	0	1	0	0							

BUDGET

ACTUAL

The work load is increasing. This work should be on schedule by end of March 1981.

EG&G IDAHO INC.
EXP PROG - LOFT DATA SYSTEMS



TOTAL PROGRAM												
BUDGET	158	325	439	541	613	740	849	949	1052	1143	1276	1419
ACTUAL	125	235	354	430	512							

MATERIAL												
BUDGET	50	103	146	185	208	256	294	323	353	379	427	481
ACTUAL	64	109	160	183	215							

MANPOWER												
BUDGET	33	30	17	17	12	16	18	18	15	18	17	22
ACTUAL	17	16	17	13	11							

BUDGET

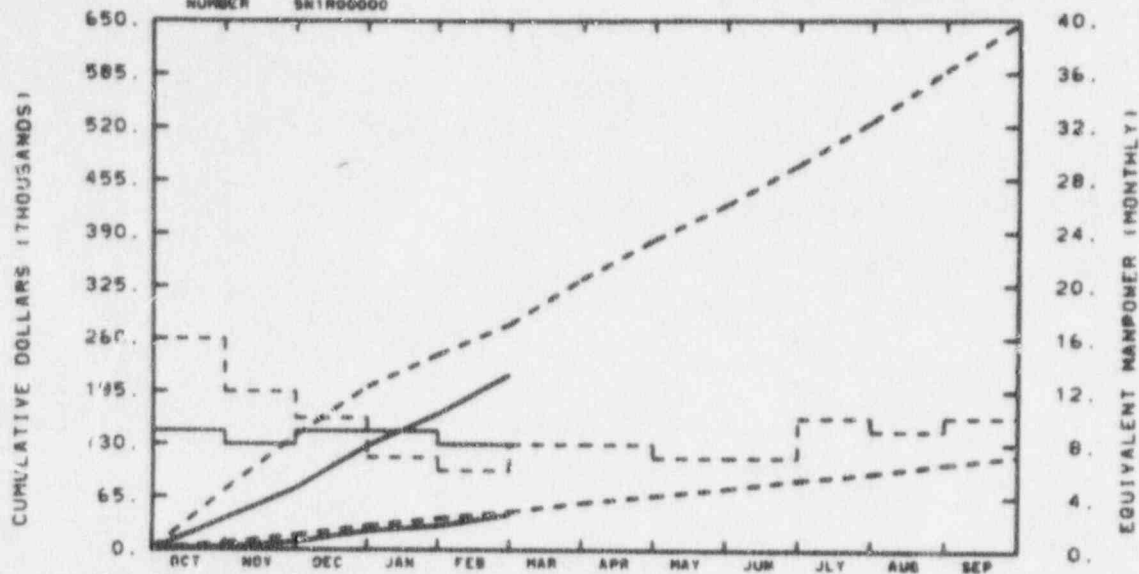
ACTUAL

The year-to-date underrun is being returned to management reserve in March 1981.

EG&G IDAHO INC.

DATA ANALYSIS BR - TEST EVAL

NUMBER SN1R00000



TOTAL PROGRAM

BUDGET	73	140	201	241	278	324	382	429	474	527	580	646
ACTUAL	38	75	129	167	216							

MATERIAL

BUDGET	8	18	30	39	47	58	67	76	87	95	106	116
ACTUAL	3	10	23	29	44							

MANPOWER

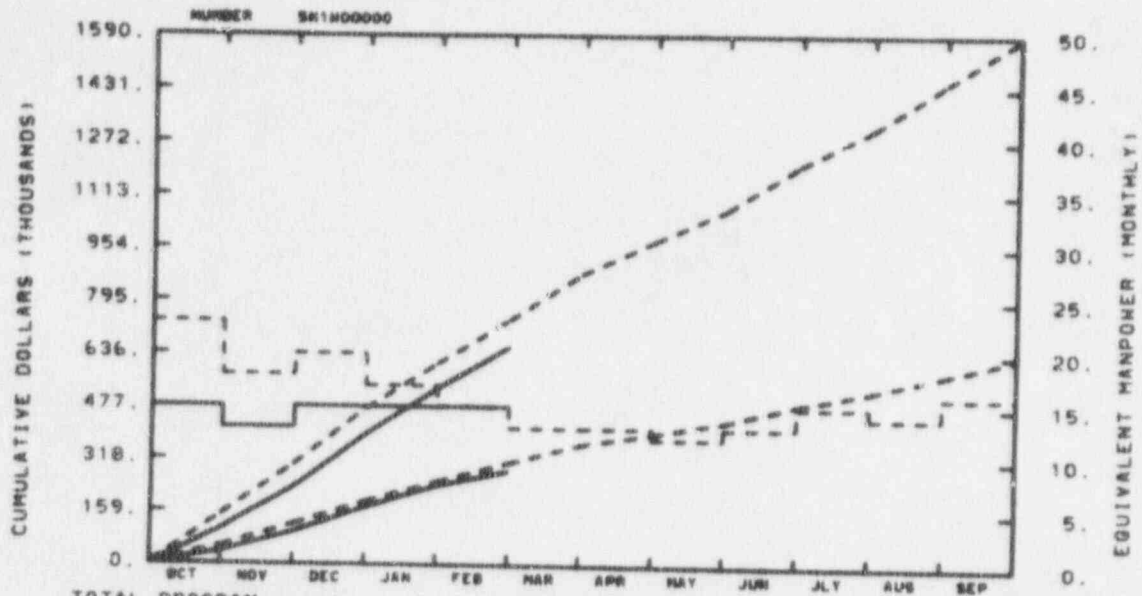
BUDGET	16	12	10	7	6	8	8	7	7	10	9	10
ACTUAL	9	8	9	9	9							

BUDGET

ACTUAL

Budget reflects improper manpower allocations. Annual manpower total is correct. Also the rate file calculation is incorrectly calculated. A CCB has been written to correct the above.

EG&G IDAHO INC.
EXPER EVAL BRANCH - 6420



TOTAL PROGRAM

BUDGET	149	300	470	607	738	877	976	1071	1204	1312	1449	1585
ACTUAL	105	222	292	532	656							

MATERIAL

BUDGET	53	120	189	250	308	364	398	434	486	528	578	631
ACTUAL	37	96	172	238	284							

MANPOWER

BUDGET	23	18	20	17	15	13	13	12	13	15	14	16
ACTUAL	15	13	15	15	15							

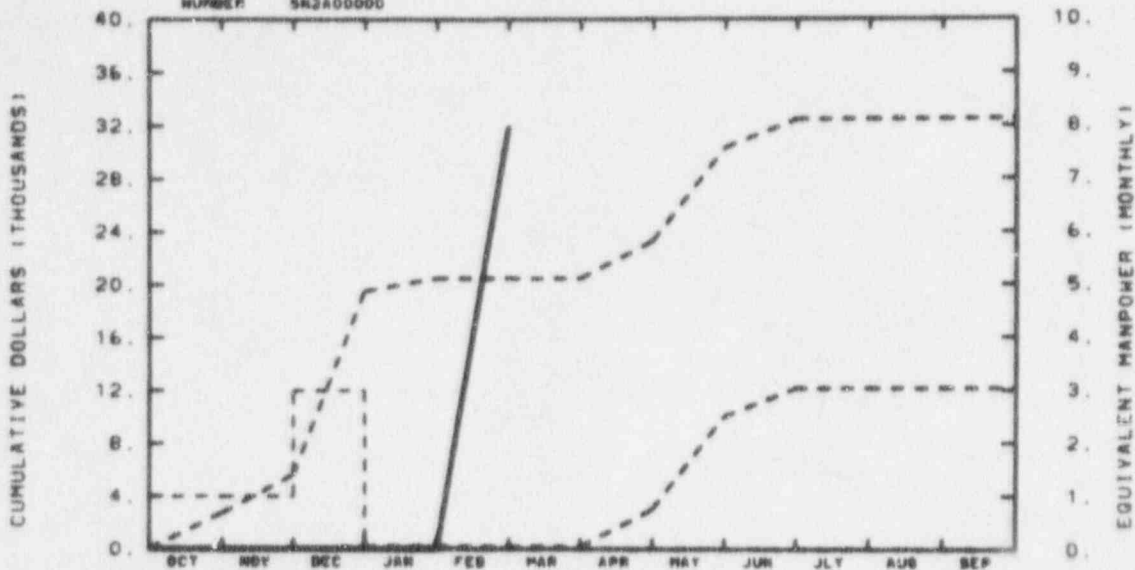
BUDGET

ACTUAL

Budget underrun is principally due to early manpower deficits. This underrun is expected to be reduced to near zero by June 1981.

EG&G IDAHO INC.
FUEL INSTRUMENTATION

NUMBER SN2A00000



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	3	6	20	20	20	20	23	30	32	32	32	32
ACTUAL	0	0	0	0	32							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	0	0	0	3	10	12	12	12	12
ACTUAL	0	0	0	0	32							

HANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	1	1	3	0	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0	0							

BUDGET

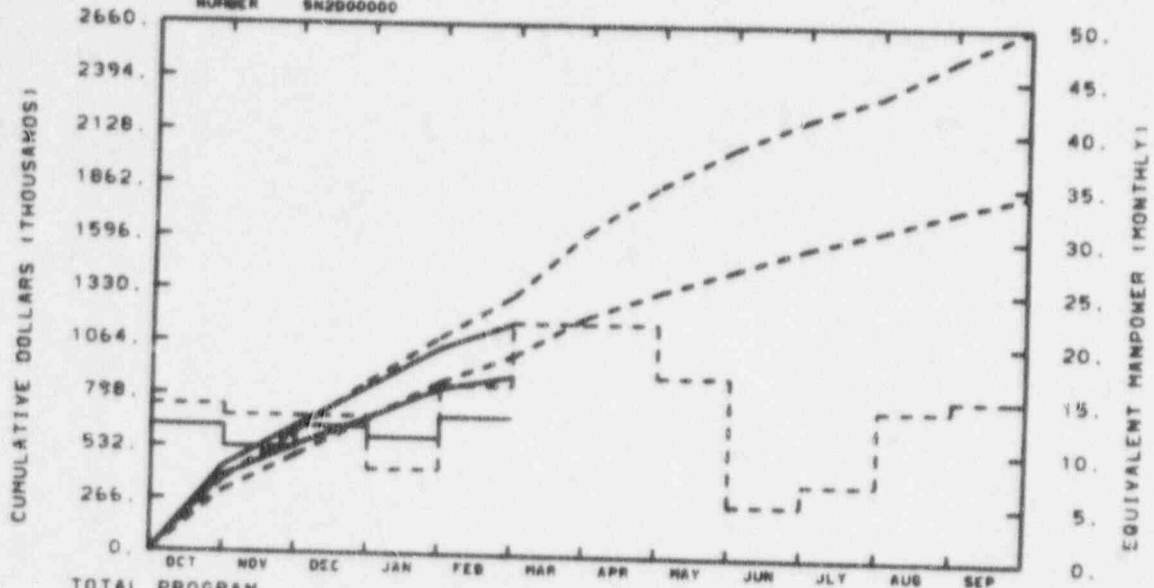
ACTUAL

The February actuals reflect a cost transfer. No activity is planned for remainder of year. The budget will be corrected.

EG&G IDAHO INC.

FUEL - FUEL DSGN & ANALYSIS

NUMBER SN2000000



TOTAL PROGRAM

BUDGET	365	609	866	1094	1304	1632	1862	2052	2198	2318	2500	2660
ACTUAL	423	639	837	1029	1166							

MATERIAL

BUDGET	307	489	679	868	1003	1205	1332	1443	1555	1644	1744	1829
ACTUAL	382	541	681	834	900							

MANPOWER

BUDGET	14	13	13	8	16	22	22	17	6	7	14	18
ACTUAL	12	10	12	11	13							

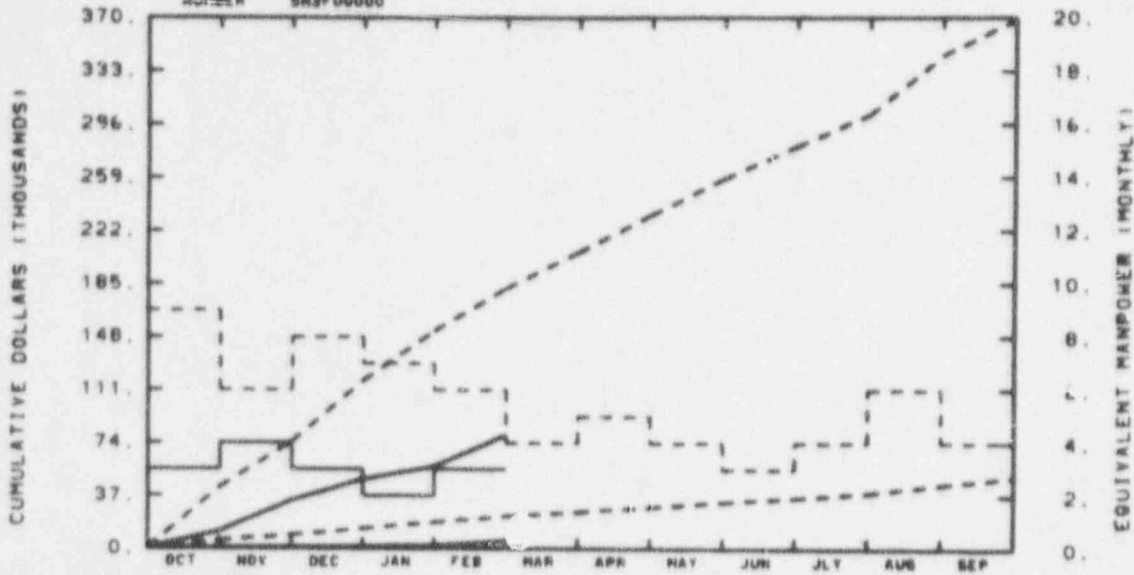
BUDGET

ACTUAL

The underrun is caused by postponement of Reload Core II fuel rod fabrication commencement at EXXON from February to April. Recovery is expected when the fuel rod fabrication costs are paid.

EG&G IDAHO INC.
POST TEST EXAM

NUMBER 5H3F00000



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	43	75	118	152	182	208	233	259	281	303	344	368
ACTUAL	12	34	46	57	79							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	5	9	14	18	23	26	29	33	36	39	45	50
ACTUAL	0	1	2	2	5							

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	9	6	6	7	6	4	5	4	3	4	6	4
ACTUAL	3	4	3	2	3							

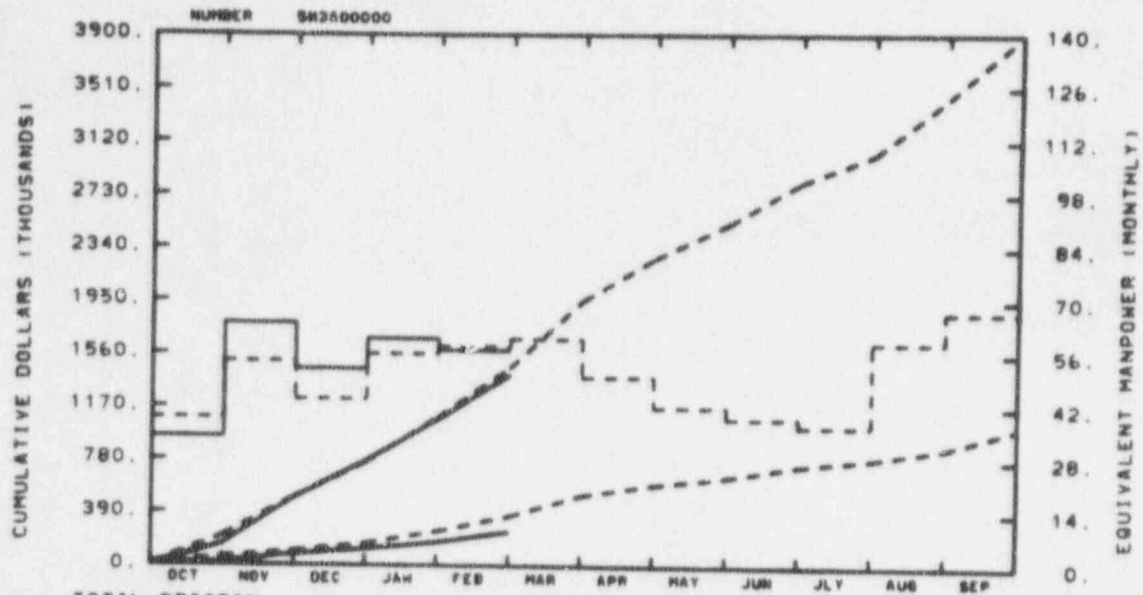
BUDGET

ACTUAL

The underrun is caused by a number of continuing problems including;
(1) nonavailability of key personnel to do planned work assignments,
(2) delays in delivery of key load cell data acquisition system hardware,
(3) delays in fabricating the channel spacing probe gage block, and
(4) delays in establishing funding and management team support to the TAN Hot Cell. A CCB is in process to correct delays in some start dates. Discussions with the Hot Cell management team concerning their capability to support the LOFT fuel posttest examination program are continuing.

EG&G IDAHO INC.

EXP INSTR - EXPER MEAS BR 6110



TOTAL PROGRAM

BUDGET	213	495	760	1089	1460	1955	2268	2520	2823	3026	3440	3897
ACTUAL	162	495	770	1075	1410							

MATERIAL

BUDGET	59	104	194	351	565	820	601	658	742	793	673	1821
ACTUAL	18	80	120	171	290							

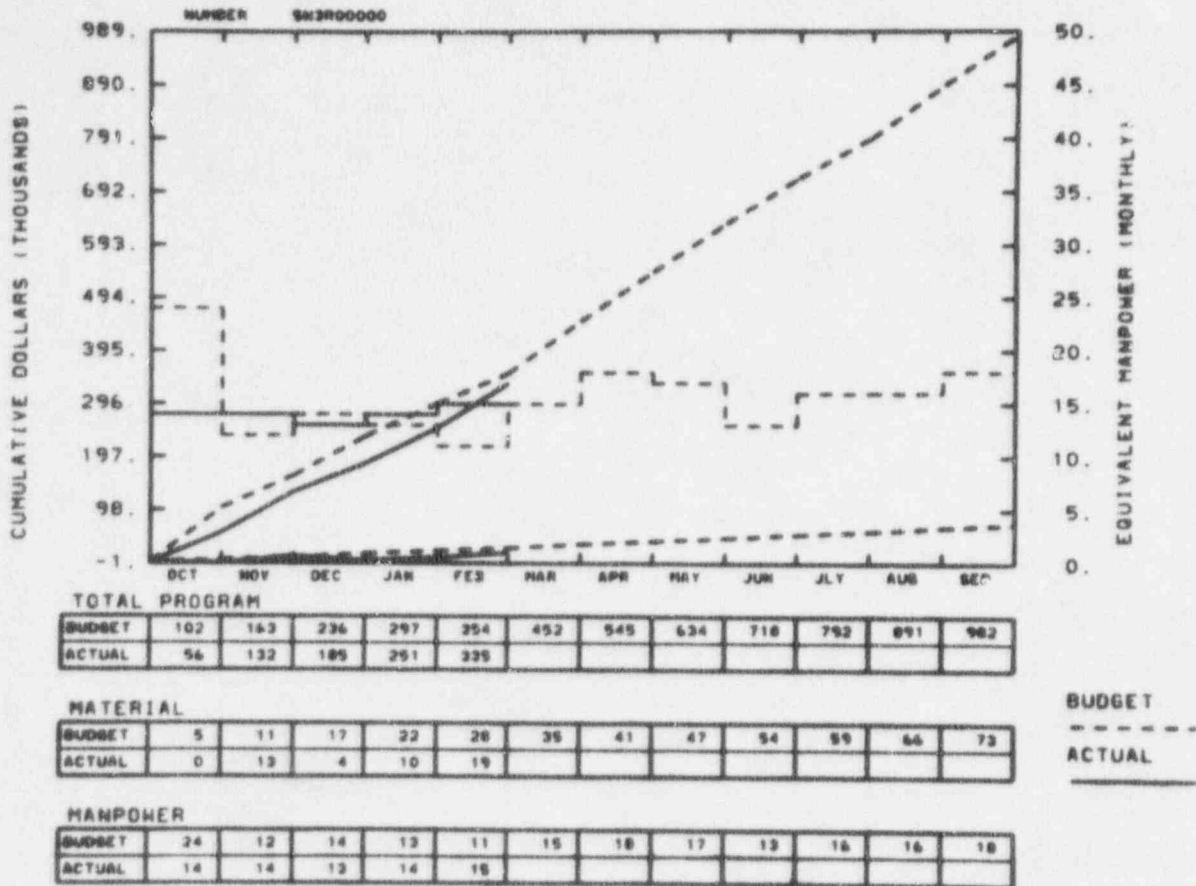
MANPOWER

BUDGET	39	54	44	56	58	60	50	47	39	37	59	67
ACTUAL	34	64	52	60	57							

No significant variance.

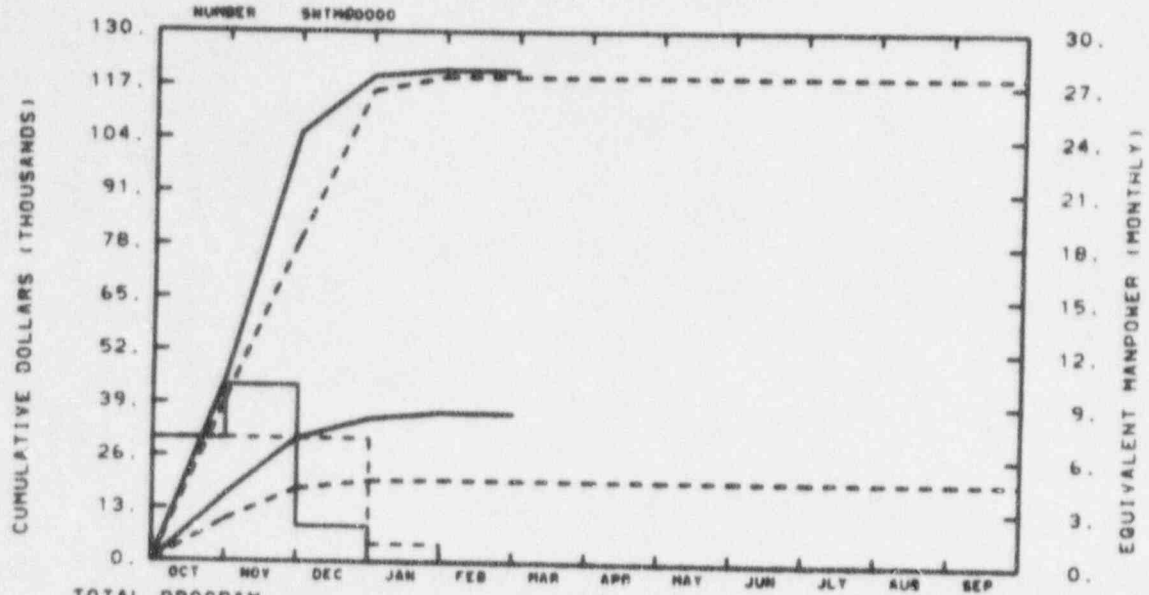
EG&B IDAHO INC.

DATA ANALYSIS BRANCH - 6130



No significant variance.

EG&G IDAHO INC.
THREE MILE ISLAND SUPPORT



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	40	79	118	119	119	119	119	119	119	119	119	119
ACTUAL	45	105	119	121	121							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	10	18	20	20	20	20	20	20	20	20	20	20
ACTUAL	16	30	35	37	37							

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	7	7	7	1	0	0	0	0	0	0	0	0
ACTUAL	7	18	2	0	0							

BUDGET

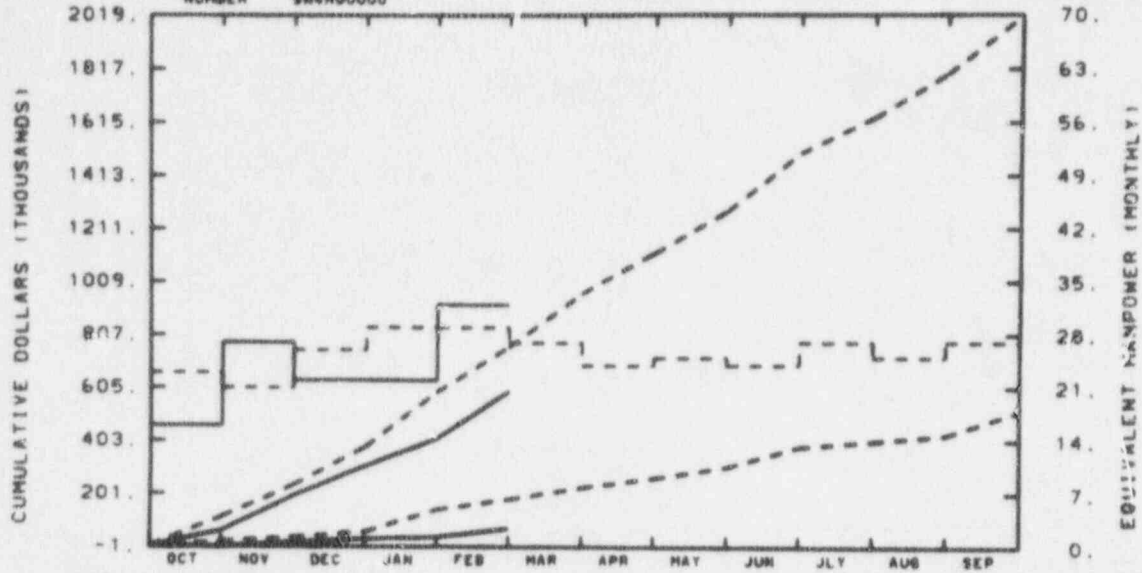
ACTUAL

Program shows overrun as a result of EXXON not stopping their charging when they were supposed to. A cost transfer will be submitted in March 1981.

EG&G IDAHO INC.

PLANT SUPPORT - PLANT SYS NO 3

NUMBER SN4H00000



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	112	232	379	589	761	965	1118	1279	1496	1632	1797	2014
ACTUAL	60	192	306	410	592							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	17	35	56	140	179	228	261	303	379	401	423	515
ACTUAL	0	17	29	35	67							

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	23	21	26	29	29	27	24	28	24	27	28	27
ACTUAL	16	27	22	22	32							

BUDGET

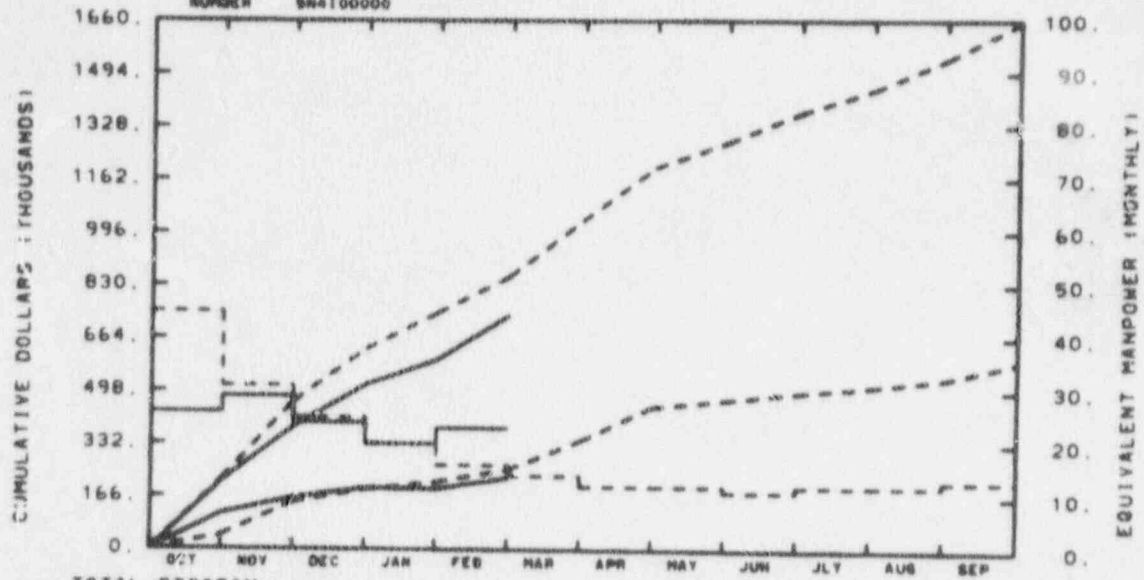
ACTUAL

Midyear scrub initiated in March to realign budget and available resources.

EG&G IDAHO INC.

PLANT SUPPORT - PLANT SYS NO 1

NUMBER SN4100000



TOTAL PROGRAM

BUDGET	219	464	630	743	859	1024	1201	1280	1372	1444	1540	1653
ACTUAL	212	384	517	596	736							

MATERIAL

BUDGET	43	147	188	213	252	343	480	472	495	512	527	589
ACTUAL	112	162	192	190	226							

MANPOWER

BUDGET	45	31	25	20	16	14	12	12	11	12	12	13
ACTUAL	26	29	24	20	23							

BUDGET

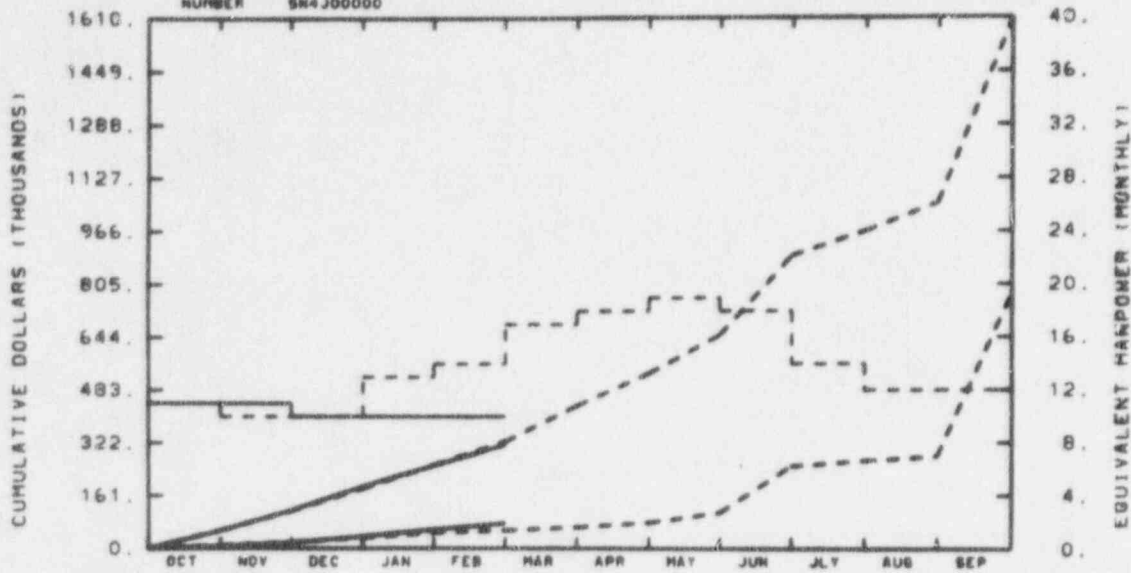
ACTUAL

Midyear scrub initiated in March to realign budget and available resources.

EG&G IDAHO INC.

PLANT SUPPORT - PLANT SYS NO 2

NUMBER SN4J00000



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	55	113	181	254	326	436	534	652	893	967	1052	1404
ACTUAL	54	115	188	252	316							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	9	19	33	47	55	64	79	109	251	267	280	775
ACTUAL	7	17	37	57	76							

MANPOWER

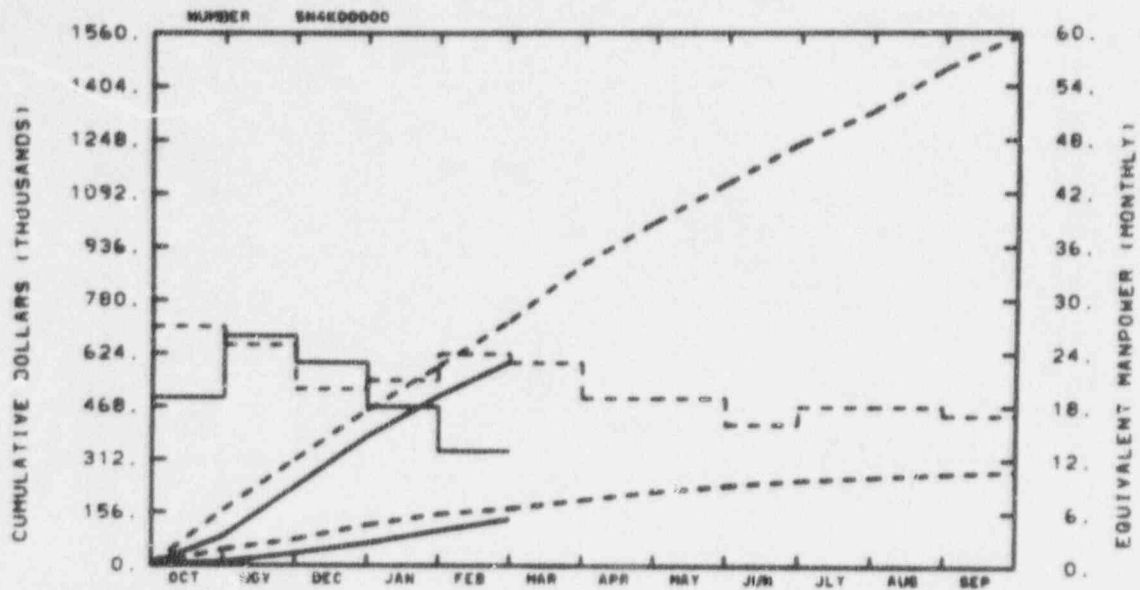
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	11	10	10	12	14	17	18	19	18	14	12	12
ACTUAL	11	11	10	10	10							

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
PLANT SUPPORT - P&C REACTOR CONT



TOTAL PROGRAM												
BUDGET	163	312	458	587	720	867	1008	1122	1228	1332	1455	1562
ACTUAL	86	232	380	500	600							

MATERIAL												
BUDGET	47	77	120	152	169	194	218	236	252	261	271	279
ACTUAL	10	36	66	102	137							

MANPOWER												
BUDGET	27	29	30	31	34	35	39	40	46	48	48	47
ACTUAL	19	26	33	38	43							

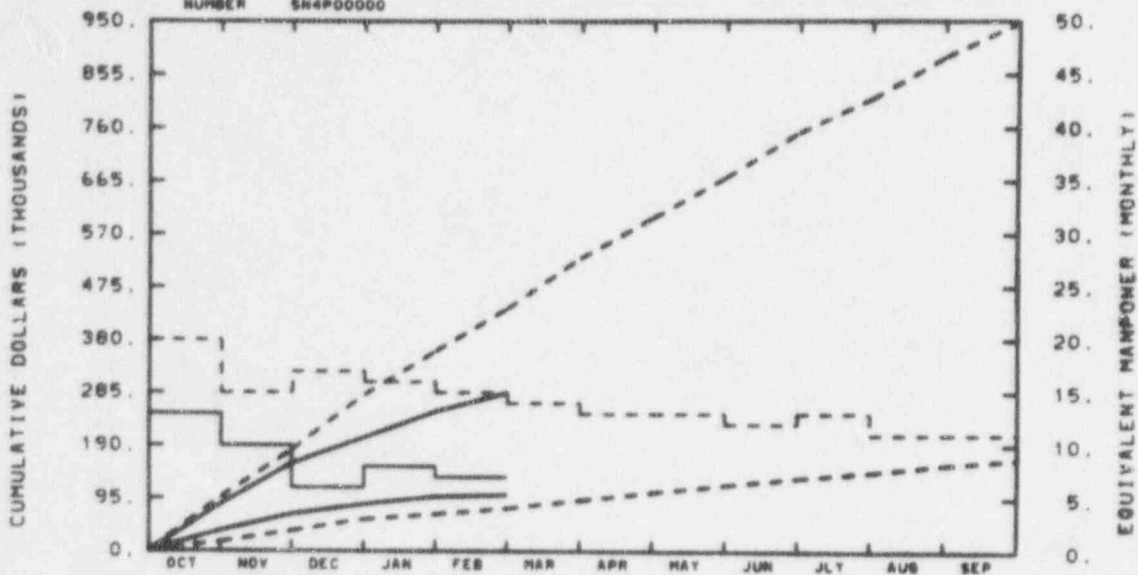
BUDGET

ACTUAL

Available engineering manpower continues to be below needed levels, resulting in additional delays in procurement and installation work. Budget scrub currently in progress to realign resources in critical areas.

EG&G IDAHO INC.
PLANT SUPPORT - P&C I&E SUPPORT

NUMBER SN4P00000



TOTAL PROGRAM

BUDGET	97	181	281	360	437	528	600	673	752	812	887	947
ACTUAL	85	157	204	251	285							

MATERIAL

BUDGET	17	37	57	66	77	92	106	119	131	142	155	166
ACTUAL	37	67	84	98	101							

MANPOWER

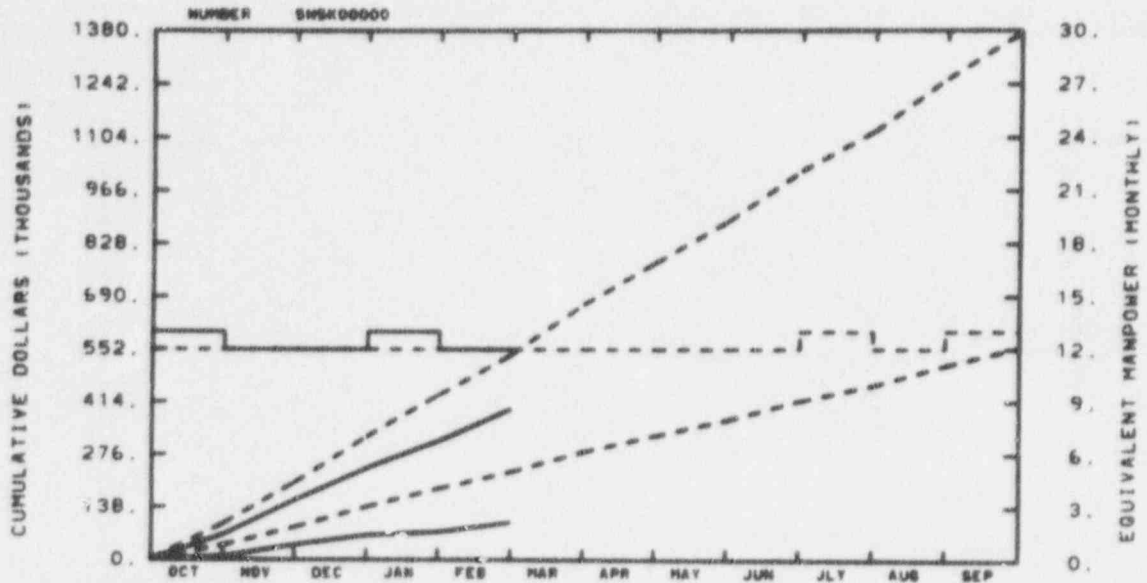
BUDGET	20	15	17	16	15	14	13	12	12	13	11	11
ACTUAL	13	10	6	8	7							

BUDGET

ACTUAL

Available engineering manpower continues to be below needed levels, resulting in additional delays in procurement and installation work. Budget scrub currently in progress to realign resources in critical areas.

EG&G IDAHO INC.
CORE & SAFETY SUPT-PROTECT & CON



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	94	202	323	432	537	670	779	887	1017	1120	1255	1374
ACTUAL	66	156	340	311	396							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	38	85	138	186	230	283	325	367	417	457	509	565
ACTUAL	9	39	64	73	96							

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	12	12	12	12	12	12	12	12	12	13	13	13
ACTUAL	13	12	12	13	12							

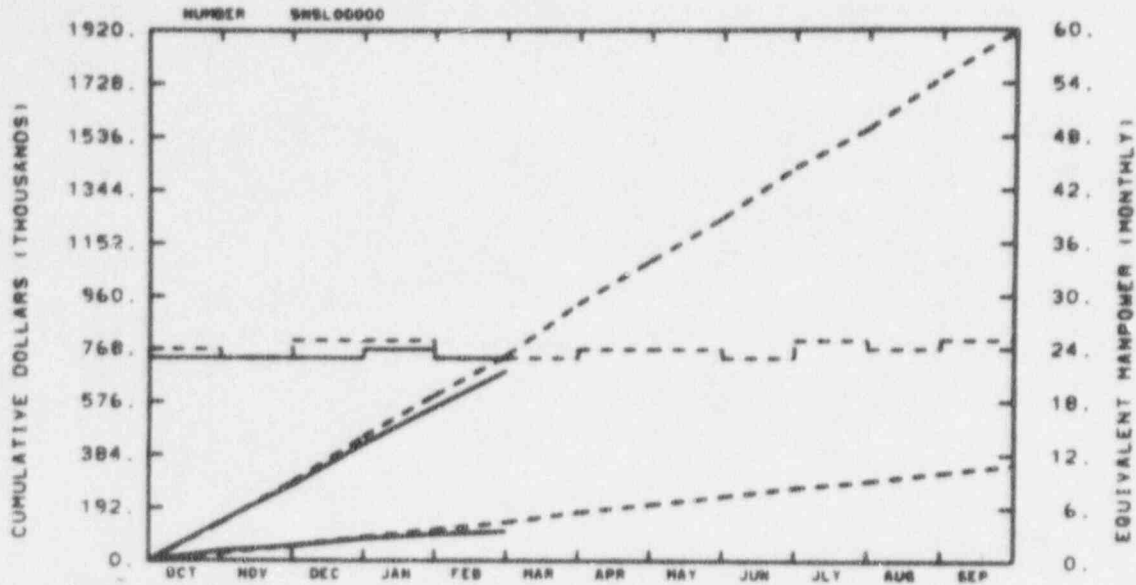
BUDGET

ACTUAL

National underrun is primarily the result of cost effective computer useage. The monthly allocation of these funds has been reassessed and reallocated in March 1981.

EG&G IDAHO INC.

CORE & SAFETY SUPT-REACTOR SYS



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	135	285	450	599	745	934	1090	1245	1427	1667	1752	1914
ACTUAL	142	274	429	556	689							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	26	54	85	113	140	176	205	234	266	299	320	346
ACTUAL	25	53	80	96	108							

HANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	24	23	25	25	23	23	24	24	25	25	24	25
ACTUAL	23	23	23	24	23							

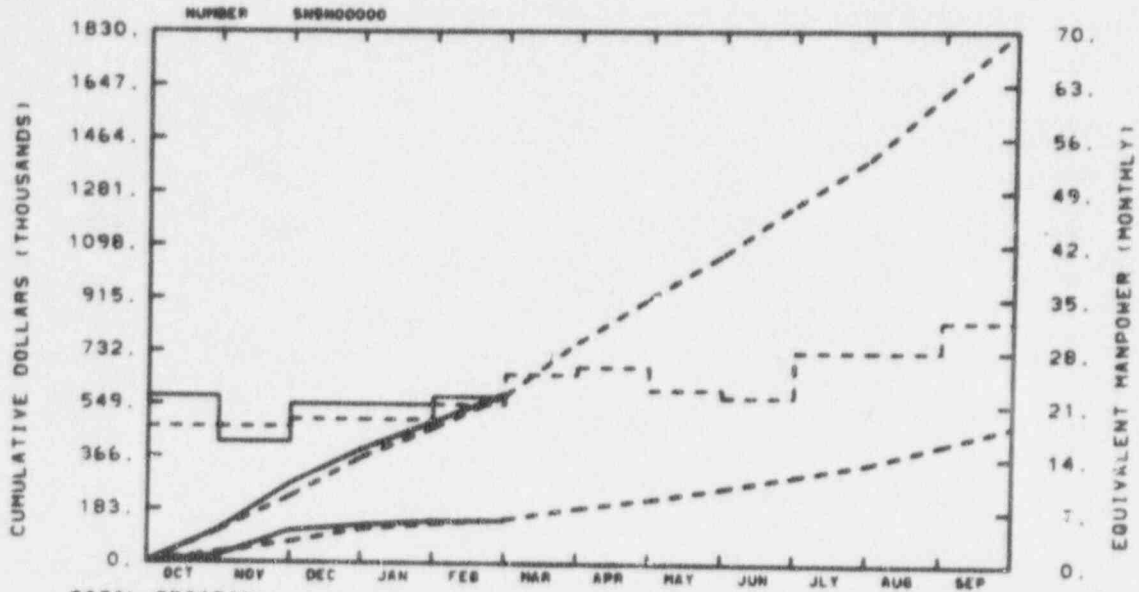
BUDGET

ACTUAL

The task is underrun as a result of cost effective computer useage (32K) and as a result of labor rate file inconsistencies (24K). The necessary action to correct the situation has been taken in March 1981.

EG&G IDAHO INC.

CORE & SAFETY SUPT-FUEL ENG & OP



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	109	228	364	467	580	765	918	1067	1237	1313	1416	1628
ACTUAL	111	274	292	489	587							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	34	72	117	136	152	191	252	261	304	346	412	479
ACTUAL	22	111	131	145	148							

HANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	18	18	19	19	21	25	36	23	22	28	26	32
ACTUAL	22	16	21	21	22							

BUDGET

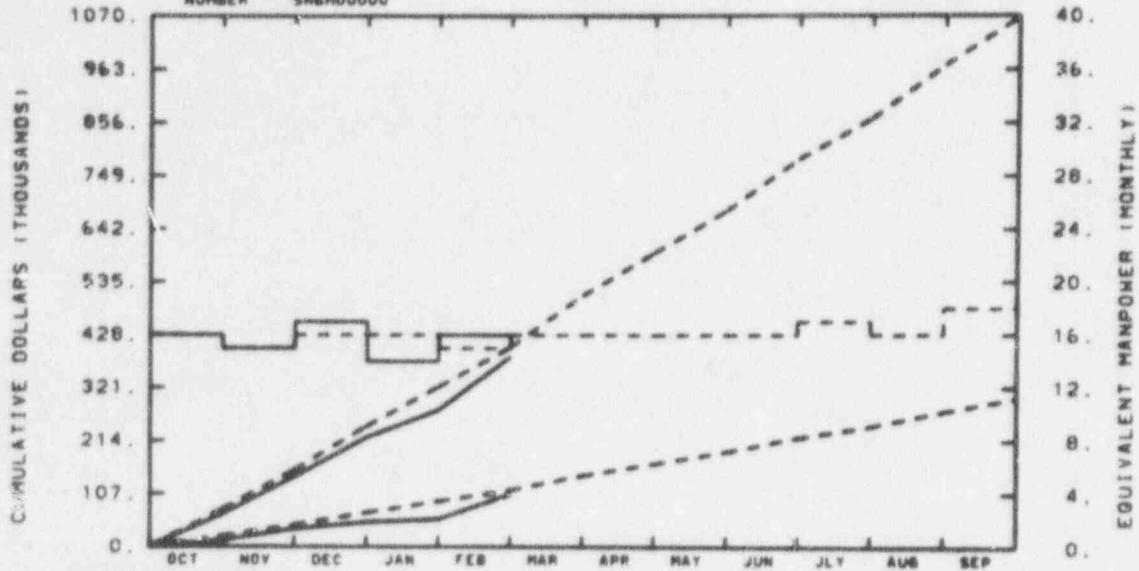
ACTUAL

No significant variance noted. Budget and performance continues as scheduled.

EQ&B IDAHO INC.

COMMON SUPP - CDCS/TECH SUPT

NUMBER 5H&M00000



TOTAL PROGRAM

BUDGET	76	155	243	323	403	508	594	680	783	865	972	1067
ACTUAL	56	141	220	275	384							

MATERIAL

BUDGET	21	44	69	92	114	144	168	192	221	243	273	299
ACTUAL	13	26	50	56	106							

MANPOWER

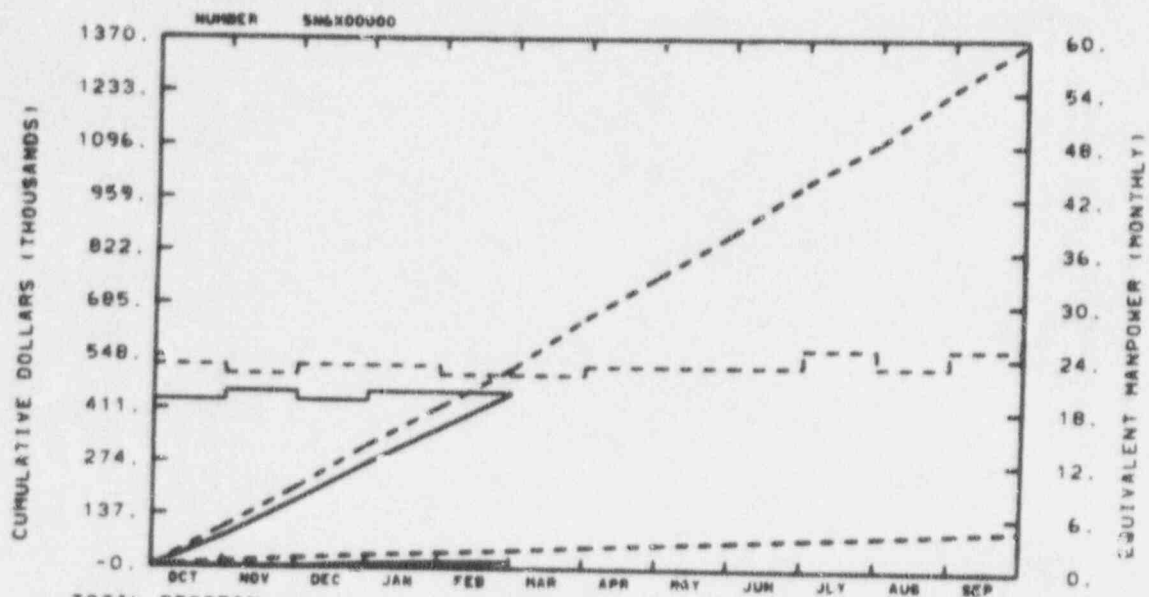
BUDGET	16	15	16	16	15	16	16	16	16	17	16	18
ACTUAL	16	15	17	14	16							

BUDGET

ACTUAL

- 1 A material \$ cost of 25.7K was incurred in Feb for the lease of a Visual Search Microfilm File.
- 2 No significant variance in manpower.

EG&G IDAHO INC.
COMMON SUPPORT - QUALITY



TOTAL PROGRAM												
BUDGET	102	205	317	418	518	651	760	869	1000	1104	1240	1361
ACTUAL	78	171	270	361	454							

MATERIAL												
BUDGET	13	22	32	39	47	56	64	72	81	89	98	106
ACTUAL	0	2	10	14	17							

MANPOWER												
BUDGET	23	22	23	23	22	22	23	23	23	26	23	25
ACTUAL	19	20	19	20	20							

BUDGET

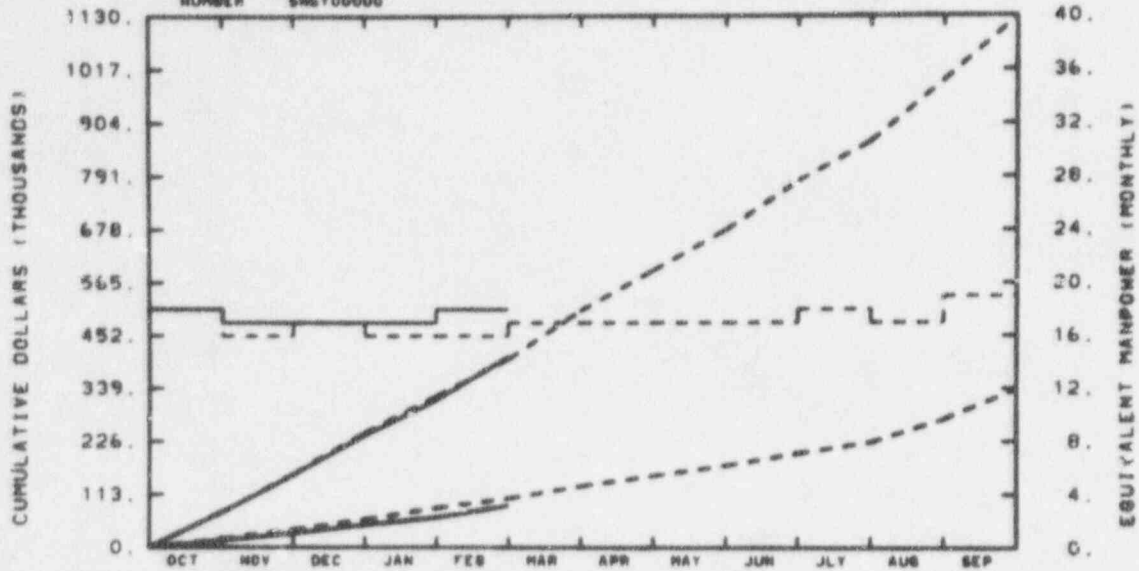
ACTUAL

The year-to-date underrun is being returned to Management Reserve in March 1981.

EG&G IDAHO INC.

COMMON SUPPORT - PLANS & BUDGETS

NUMBER 586700000



TOTAL PROGRAM

BUDGET	76	156	244	323	402	506	592	678	781	865	993	1120
ACTUAL	76	154	239	314	407							

MATERIAL

BUDGET	15	30	60	84	108	131	153	175	201	225	273	337
ACTUAL	15	30	48	64	90							

MANPOWER

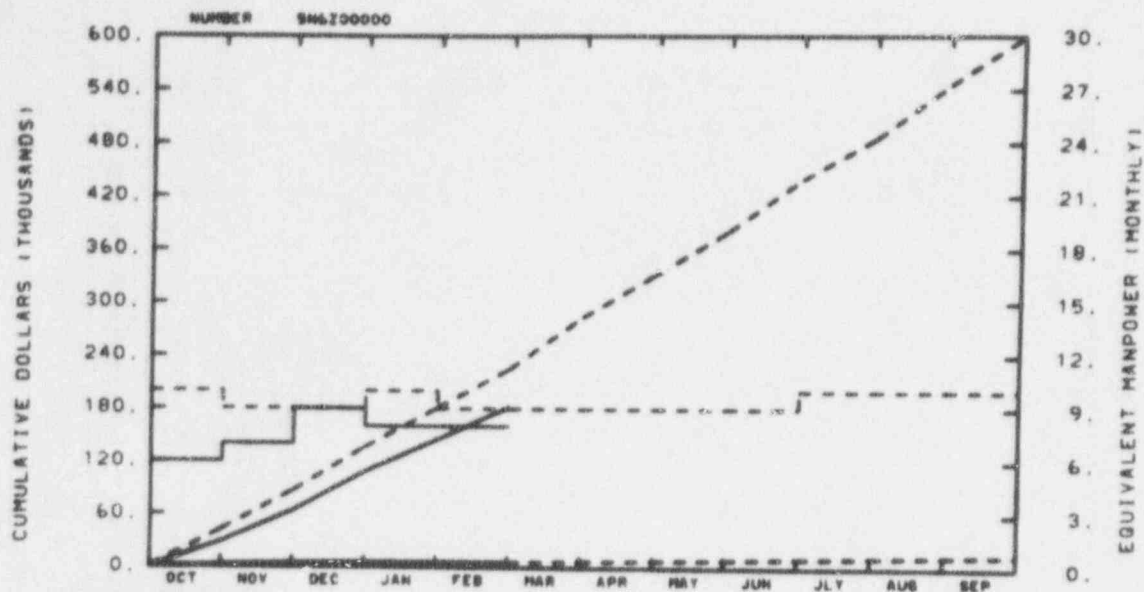
BUDGET	16	16	17	16	16	17	17	17	17	18	17	19
ACTUAL	16	17	17	17	18							

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
COMMON SUPPORT - SAFETY



TOTAL PROGRAM												
BUDGET	42	87	136	181	228	284	332	381	439	485	546	599
ACTUAL	28	64	108	145	182							

MATERIAL												
BUDGET	1	2	3	5	6	7	8	10	11	12	14	15
ACTUAL	3	4	6	6	6							

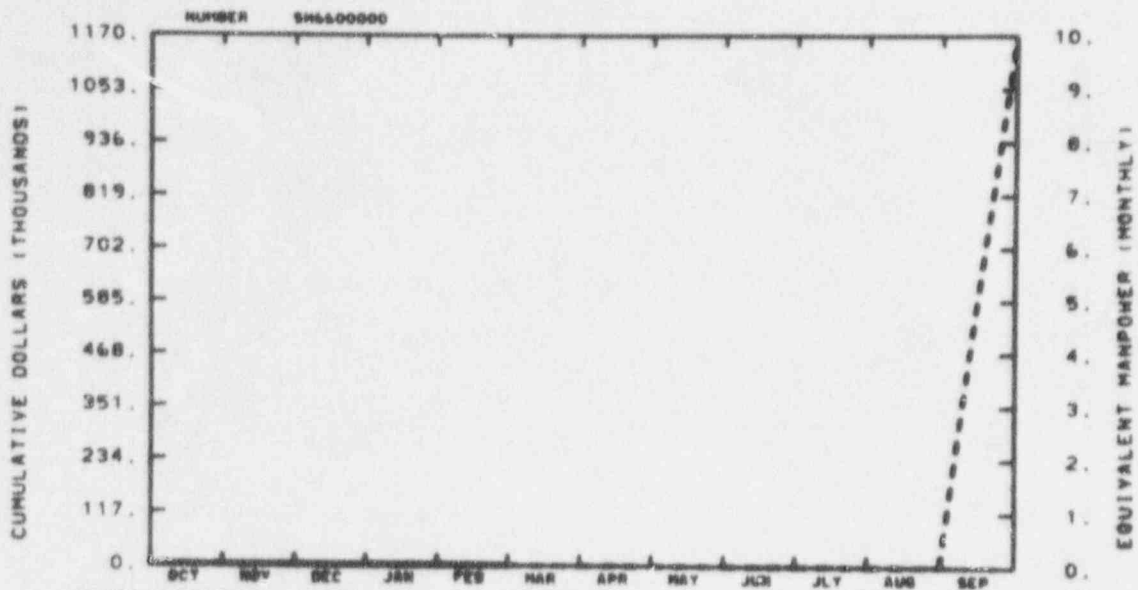
MANPOWER												
BUDGET	10	9	9	10	9	9	9	9	9	10	10	10
ACTUAL	6	7	9	8	8							

BUDGET

ACTUAL

The year-to-date underrun will be returned to Management Reserve in March 1981.

EG&G IDAHO INC.
DIVISION CONTROL



TOTAL PROGRAM

BUDGET	0	0	0	0	0	0	0	0	0	0	0	1164
ACTUAL	0	0	0	0	0							

MATERIAL

BUDGET	0	0	0	0	0	0	0	0	0	0	0	1164
ACTUAL	0	0	0	0	0							

MANPOWER

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

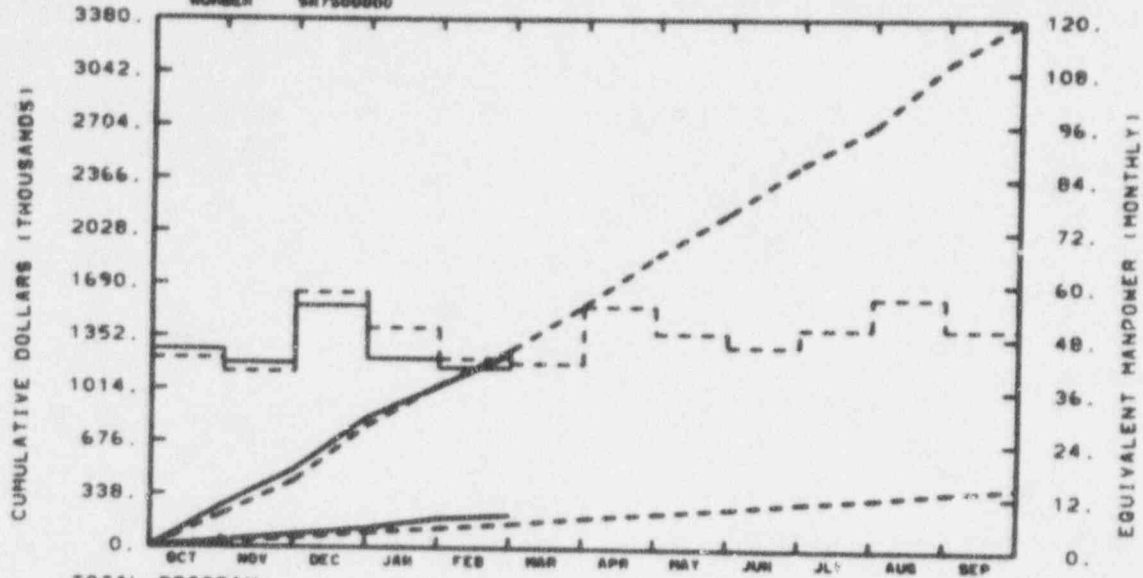
BUDGET

ACTUAL

Management Reserve.

EG&S IDAHO INC.
LOFT OPERS BRANCH

NUMBER SN7500000



TOTAL PROGRAM

BUDGET	206	423	777	1039	1267	1555	1874	2148	2498	2703	3100	3375
ACTUAL	265	496	831	1036	1244							

MATERIAL

BUDGET	29	60	94	124	155	195	226	260	299	329	370	404
ACTUAL	41	84	124	160	212							

MANPOWER

BUDGET	43	40	58	50	43	43	55	49	46	50	57	58
ACTUAL	45	42	55	43	41							

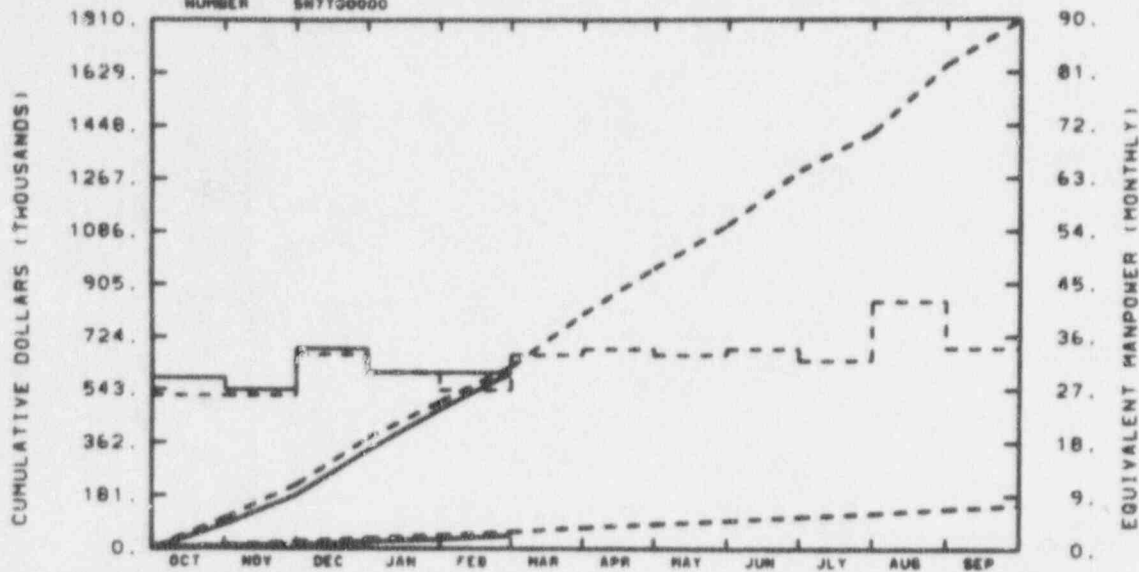
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
LOFT TEST & DATA

NUMBER SN7700000



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	103	217	376	503	622	804	963	1109	1295	1425	1655	1806
ACTUAL	81	181	335	476	602							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	11	22	35	46	57	72	84	96	110	122	136	149
ACTUAL	9	11	24	32	45							

MANPOWER

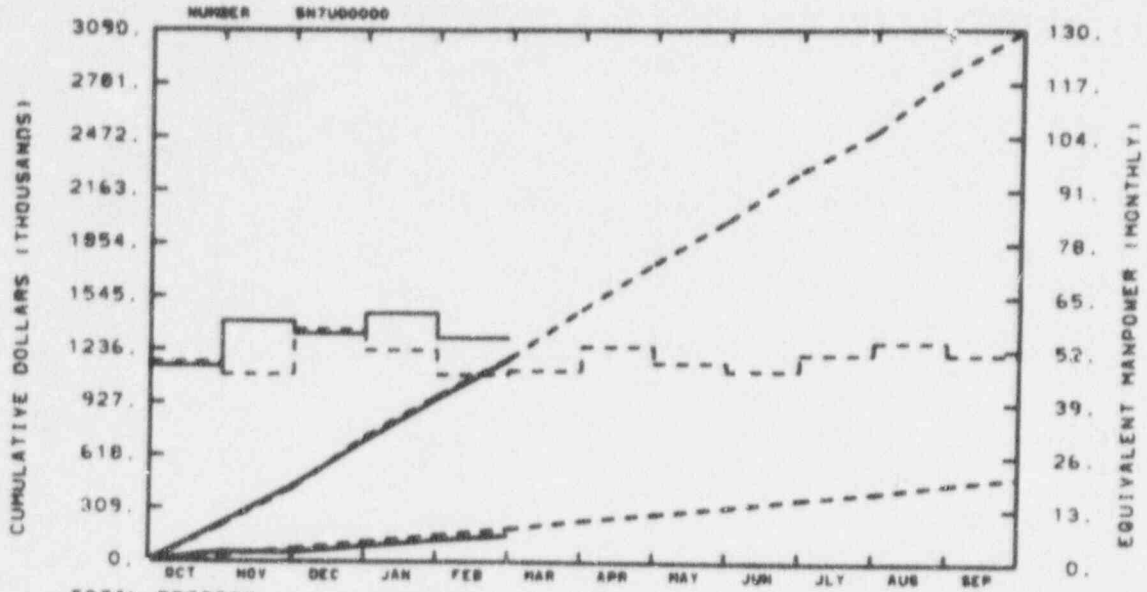
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	26	26	33	30	27	33	34	33	34	32	42	34
ACTUAL	29	27	34	30	38							

BUDGET

ACTUAL

No significant variance.

ES&G IDAHO INC.
LOFT FACILITY SUPPORT



TOTAL PROGRAM												
BUDGET	208	428	727	966	1186	1475	1743	1989	2274	2499	2833	3084
ACTUAL	218	443	705	950	1181							

MATERIAL												
BUDGET	36	74	116	154	192	242	282	322	370	408	458	500
ACTUAL	55	54	91	126	152							

MANPOWER												
BUDGET	49	46	57	52	46	47	53	49	47	51	54	51
ACTUAL	48	55	56	51	55							

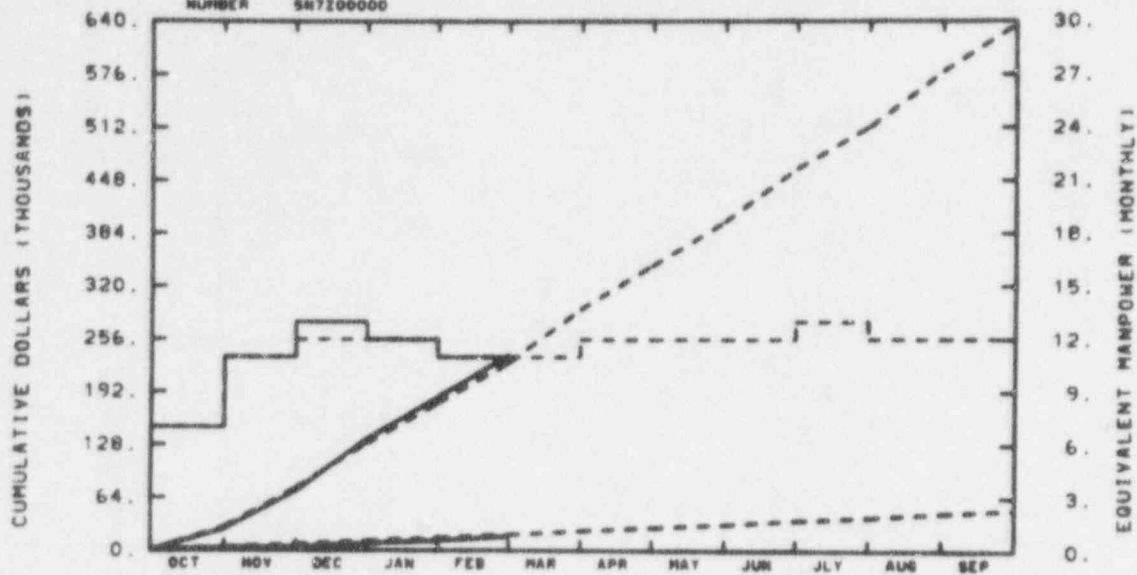
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
OUTSIDE SERVICE SUPPORT

NUMBER 5N7200000



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP
BUDGET	26	75	130	179	228	292	348	399	462	513	580	635
ACTUAL	26	72	135	186	237							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP
BUDGET	4	7	12	15	18	24	28	32	37	41	46	50
ACTUAL	3	4	8	12	17							

MANPOWER

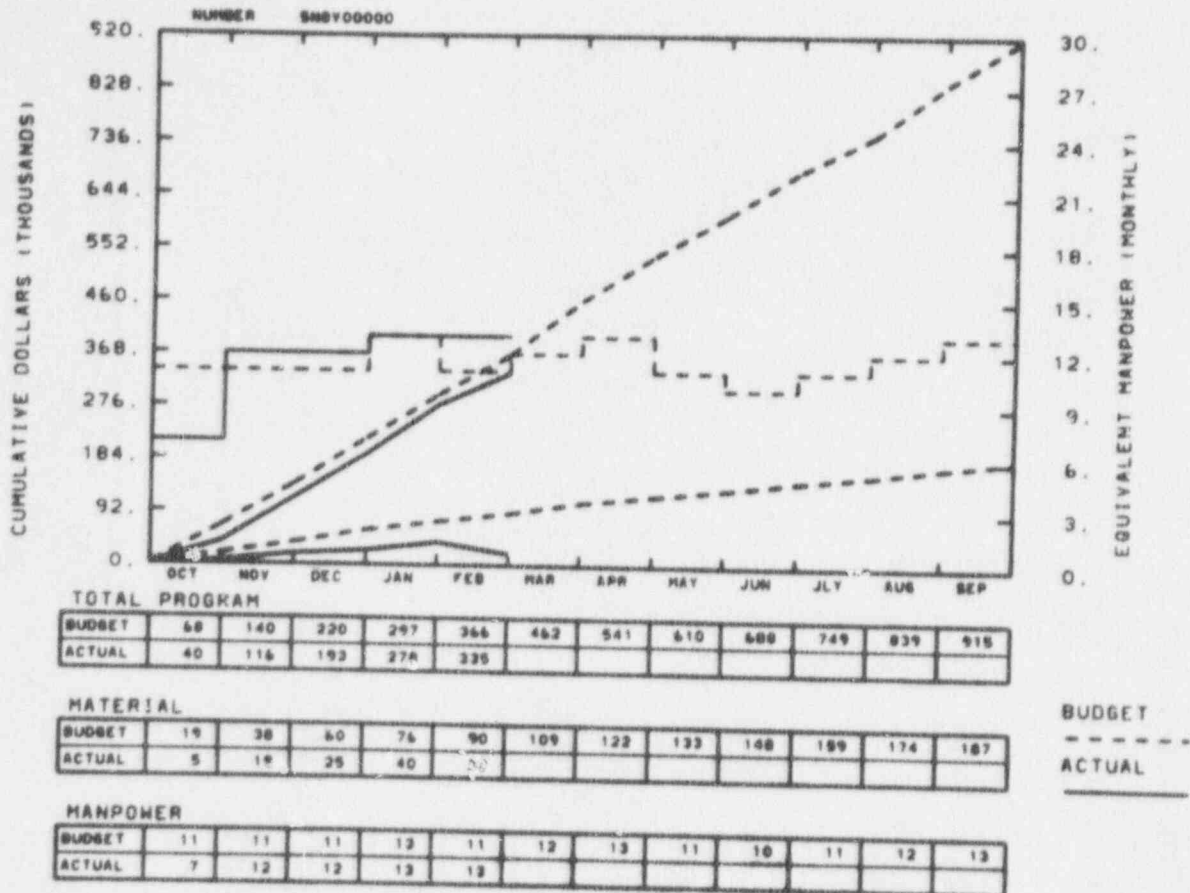
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP
BUDGET	7	11	12	12	11	11	12	12	12	13	12	12
ACTUAL	7	11	12	12	11							

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
AUGMENTED OPER CAPABILITY

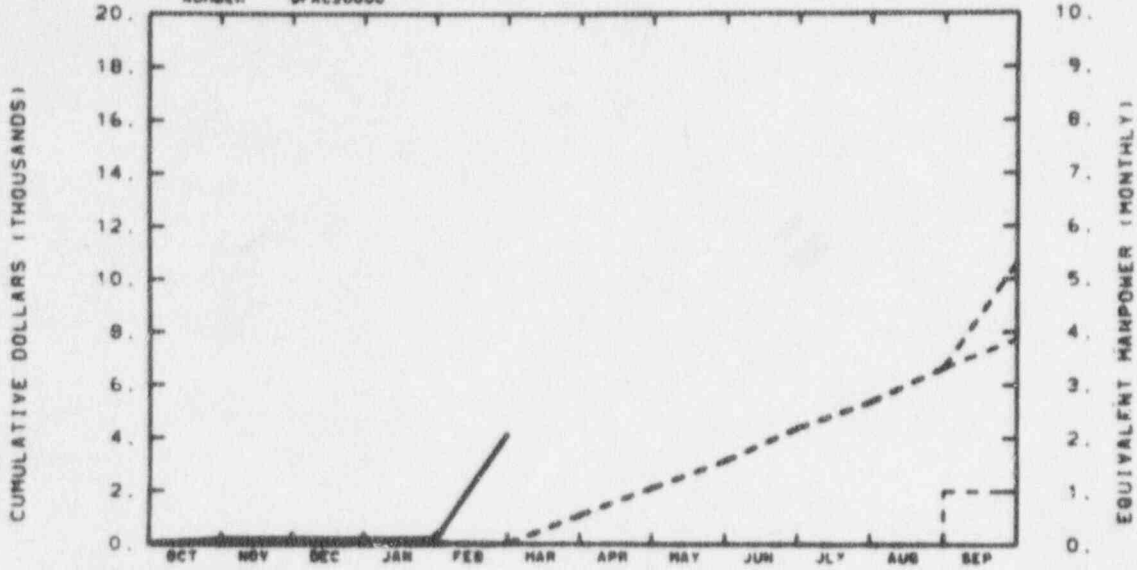


Underrun because of late starts due to efforts being expended on Reactor Vessel Level display programs for the last LOFT test. This area has been reviewed and is redirecting efforts in functional requirements and to software V & V surveys.

EG&G IDAHO INC.

PROGRAM DEVELOPMENT & ANALYSIS

NUMBER SFAC20000



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	0	0	1	2	3	4	5	7	11
ACTUAL	0	0	0	0	4							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	0	0	1	2	3	4	5	7	8
ACTUAL	0	0	0	0	4							

MANPOWER

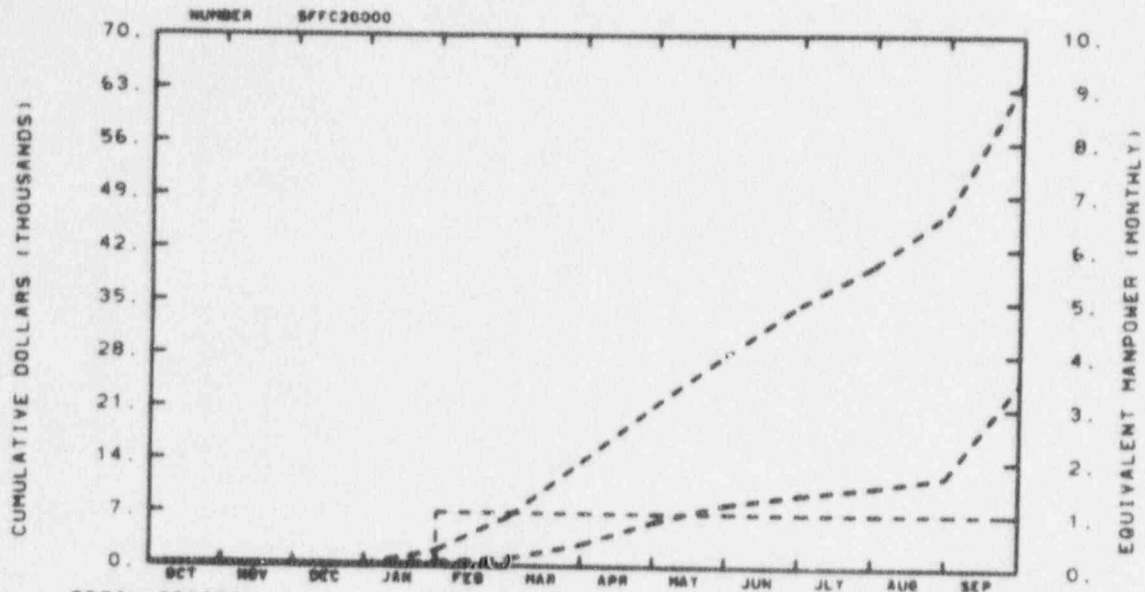
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	0	0	0	0	0	0	0	0	1
ACTUAL	0	0	0	0	0							

BUDGET

ACTUAL

An NRC trip to Austria was costed earlier than budgeted. No overrun problems exist.

EG&G IDAHO INC.
PROGRAM DEVELOPMENT & ANALYSIS



TOTAL PROGRAM												
BUDGET	0	0	0	2	7	14	21	28	35	40	47	64
ACTUAL	0	0	0	0	0							

MATERIAL												
BUDGET	0	0	0	0	1	3	6	8	10	11	12	24
ACTUAL	0	0	0	0	0							

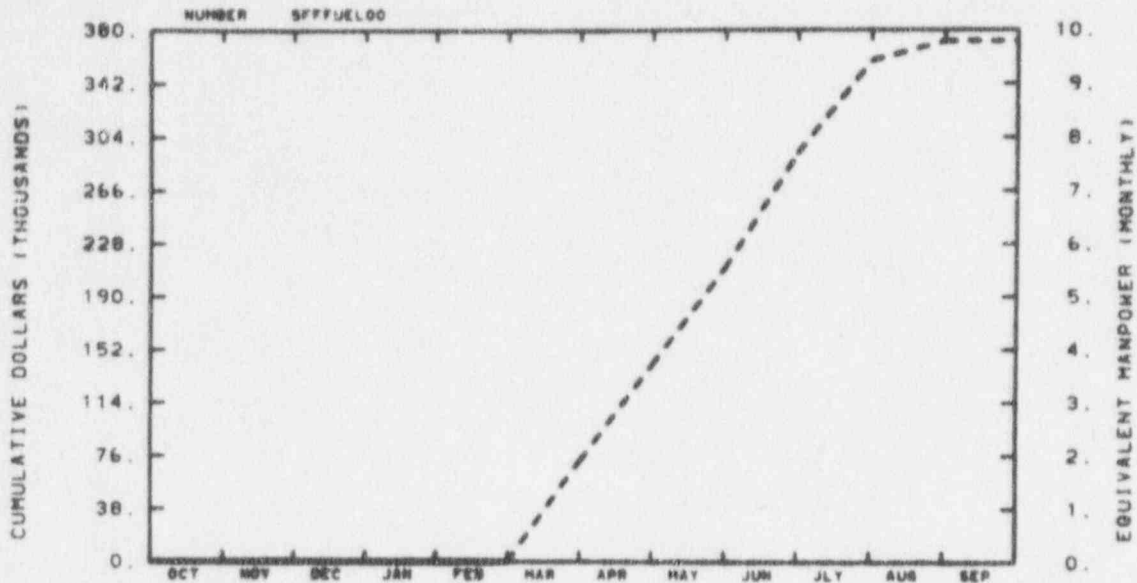
MANPOWER												
BUDGET	0	0	0	0	1	1	1	1	1	1	1	1
ACTUAL	0	0	0	0	0							

BUDGET

ACTUAL

CEA management is underspent by \$5.3K due to temporary re-assignment of one project manager. The CEA delegate support task is under budget by \$11.3K.

EG&G IDAHO INC.
FRENCH FUEL F2 BUNDLE



TOTAL PROGRAM

BUDGET	0	0	0	0	0	72	141	210	293	359	372	372
ACTUAL	7	0	0	0	0							

MATERIAL

BUDGET	0	0	0	0	0	72	141	210	293	359	372	372
ACTUAL	0	0	0	0	0							

MANPOWER

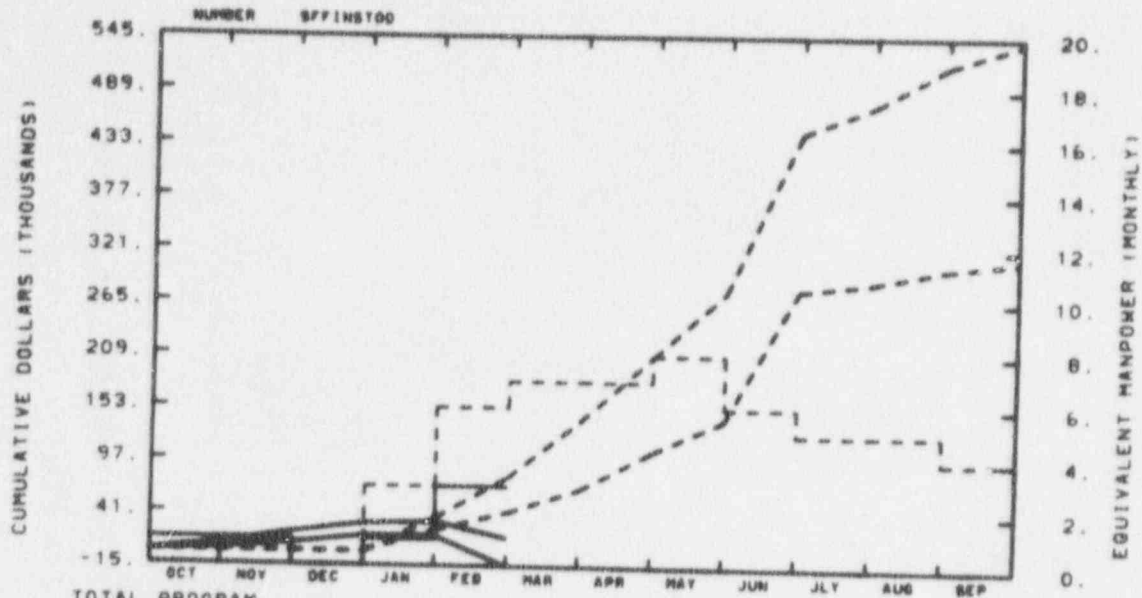
BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0	0							

BUDGET

ACTUAL

No significant variance.

EG&B IDAHO INC.
FRENCH FUEL INSTRUMENTATION



TOTAL PROGRAM

BUDGET	0	0	0	36	79	139	208	277	446	474	516	540
ACTUAL	8	20	30	32	15							

MATERIAL

BUDGET	0	0	0	23	42	67	107	141	279	287	302	311
ACTUAL	2	9	17	17	-14							

MANPOWER

BUDGET	0	0	0	3	6	7	7	8	6	9	8	8
ACTUAL	1	1	0	1	3							

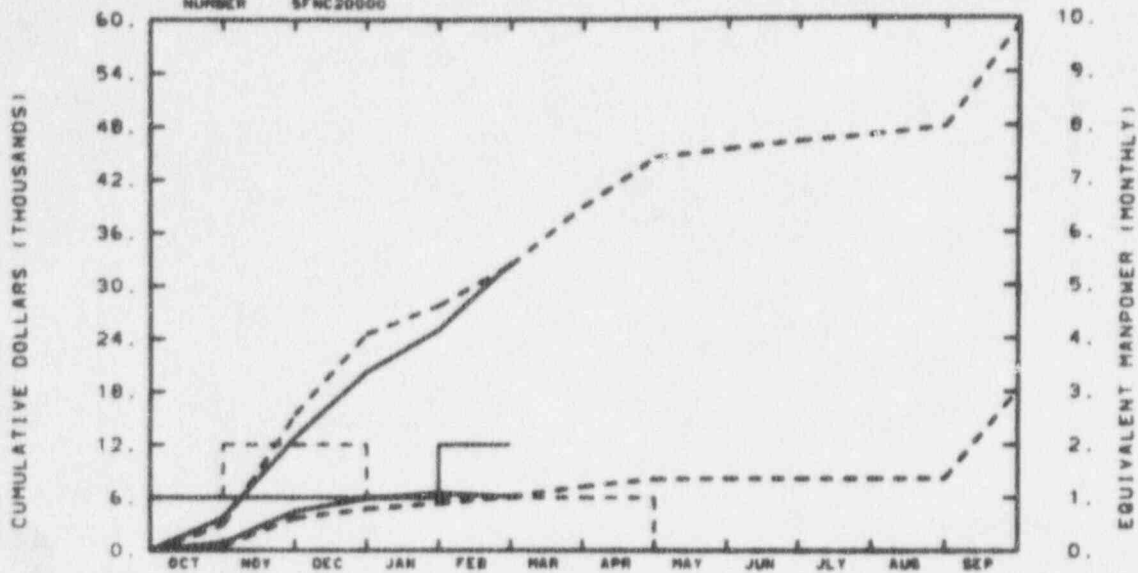
BUDGET

ACTUAL

The fuel instrumentation task at EXXON Nuclear is \$64K under budget. The PBF TC-4 test rod work, also being performed at EXXON Nuclear. Higher priority work has delayed the fuel instrumentation task work. A CCF to rebudget their task is being prepared.

EG&G IDAHO INC.
 PROG DEVELOPMENT & ANALYSIS

NUMBER SFNC20000



TOTAL PROGRAM

BUDGET	3	15	25	28	32	35	44	45	46	47	48	49
ACTUAL	4	13	20	25	33							

MATERIAL

BUDGET	0	4	5	5	6	7	8	8	8	8	8	10
ACTUAL	1	4	6	6	6							

MANPOWER

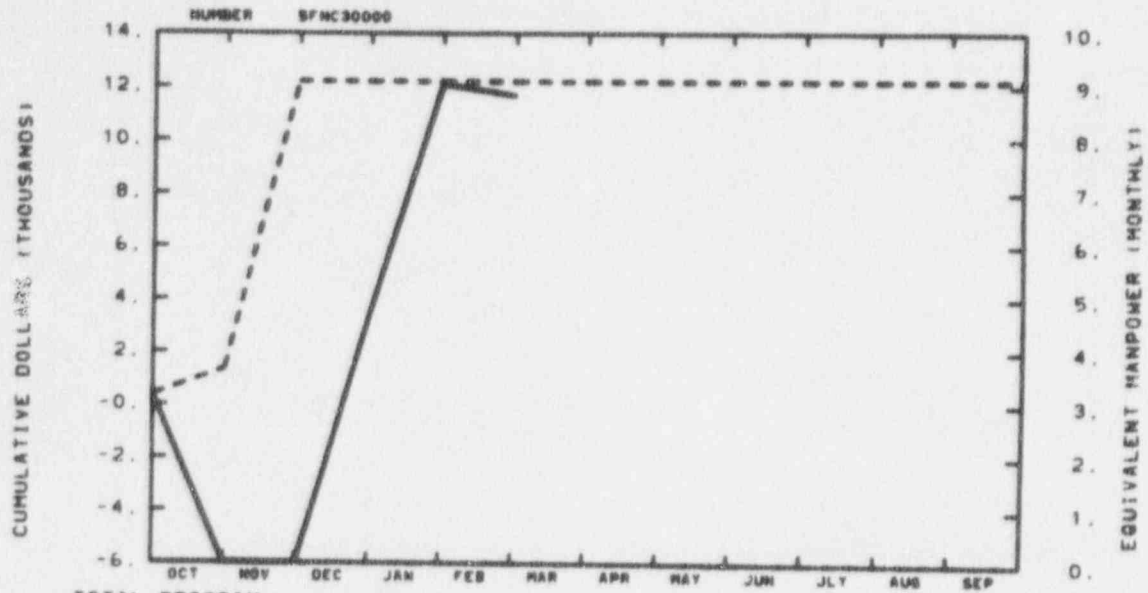
BUDGET	1	2	2	1	1	1	1	0	0	0	0	0
ACTUAL	1	1	1	1	2							

BUDGET

ACTUAL

No significant difference.

EG&G IDAHO INC.
COMPONENT DEVELOPMENT



TOTAL PROGRAM

BUDGET	1	12	12	12	12	12	12	12	12	12	12	12
ACTUAL	-5	-5	3	12	11							

MATERIAL

BUDGET	1	12	12	12	12	12	12	12	12	12	12	12
ACTUAL	-5	-5	3	12	11							

MANPOWER

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

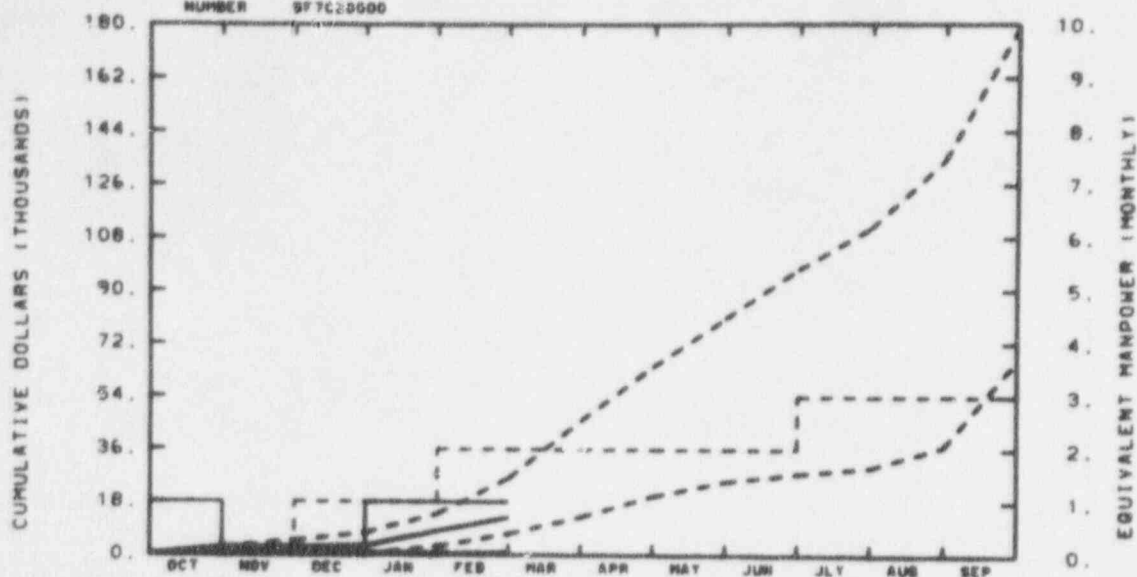
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
 PROG DEVELOPMENT & ANALYSIS

NUMBER 977C20000



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	2	5	7	14	26	46	64	81	97	111	134	179
ACTUAL	2	2	3	8	13							

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	3	7	13	30	25	28	30	37	66
ACTUAL	0	0	1	1	1							

MANPOWER

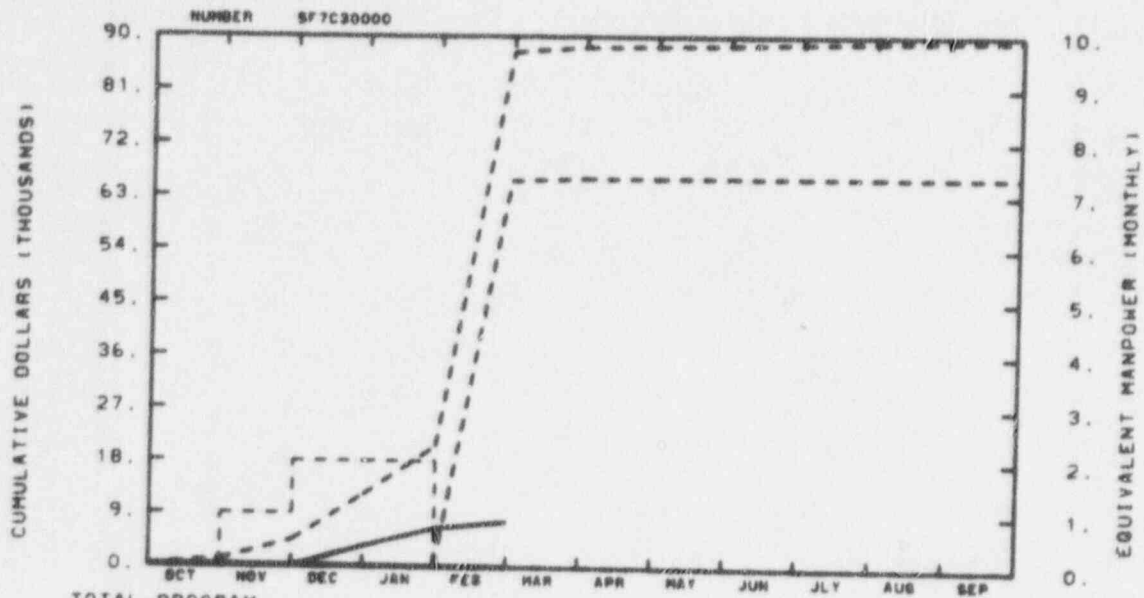
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	1	1	2	2	2	2	2	3	3	3
ACTUAL	1	0	0	1	1							

BUDGET

ACTUAL

This account is underspent for the following reasons. There is a outstanding commitment of \$7.3K for miscellaneous tasks. Delegate support is under budget by \$2.5K. The International Program Evaluation task is under budget by \$7.5K due to a late start because of the extended time required to locate and hire a new scientist for the LOFT Related Programs Branch to perform the work. A CCF will be submitted to adjust the budget for the International Program Evaluation task.

EG&G IDAHO INC.
COMPONENT DEVELOPMENT



TOTAL PROGRAM

BUDGET	1	4	12	21	67	88	88	88	88	88	88	88
ACTUAL	0	0	3	6	8							

MATERIAL

BUDGET	0	0	0	0	66	66	66	66	66	66	66	66
ACTUAL	0	0	0	0	0							

MANPOWER

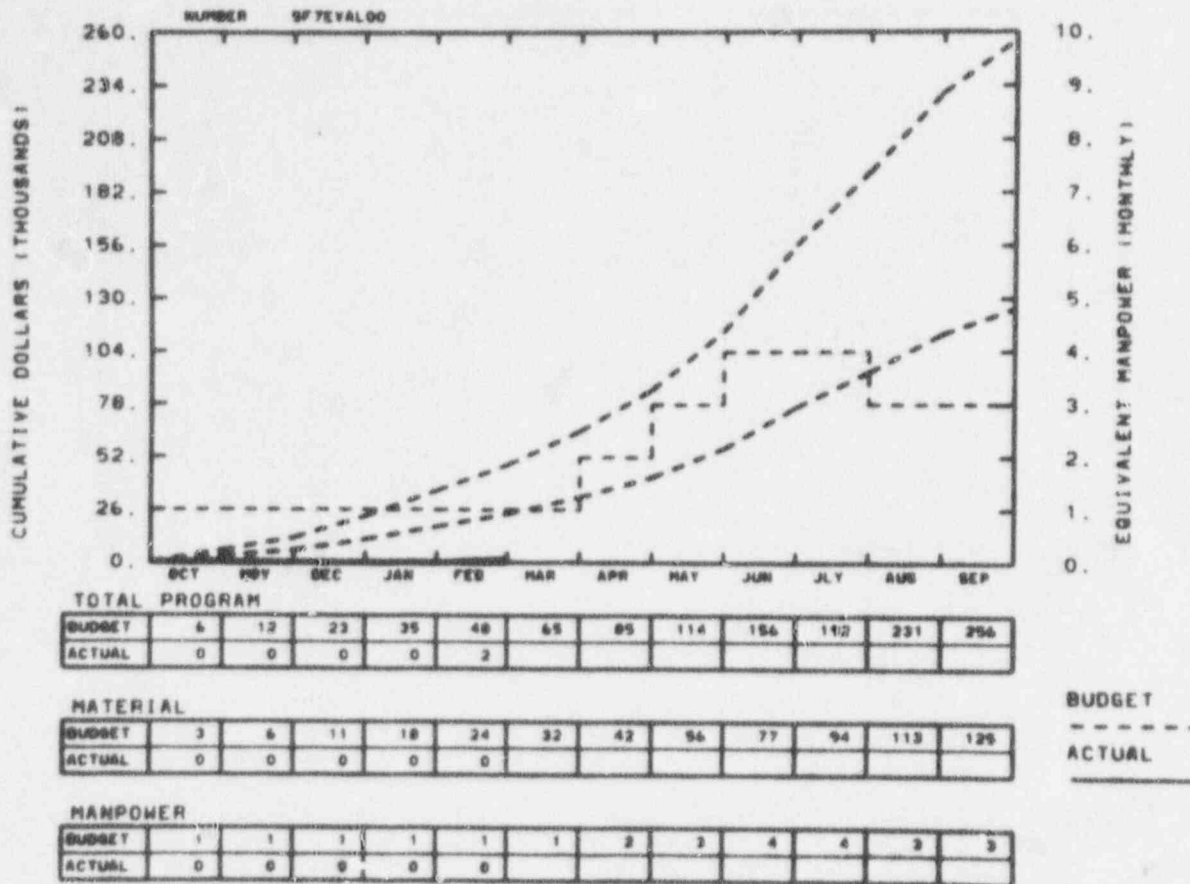
BUDGET	0	1	2	2	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0	0							

BUDGET

ACTUAL

The work on the REBEKA embedded thermocouple installation by EXXON Nuclear has been slightly delayed and charges have not been received as budgeted. No significant problem exists. The steam Probe task, which is \$8.2K underspent, has been completed and a CCB requesting the remaining funds be refunded to FRG Reserve has been prepared for change control Board Action.

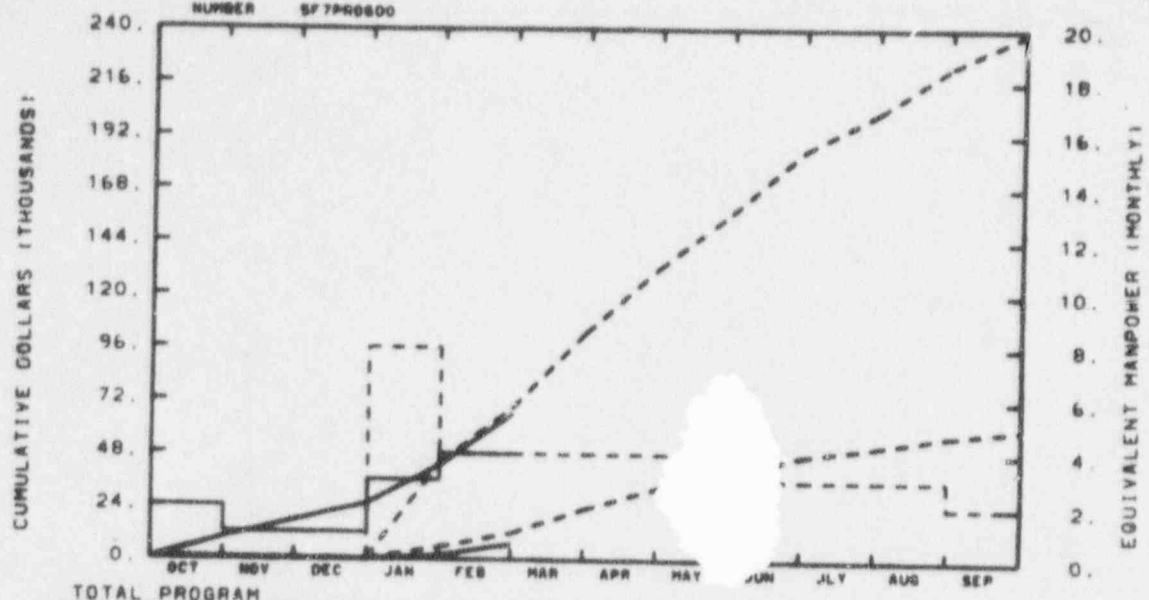
EG&G IDAHO INC.
TEST PREDICTION & EVALUATION



These tasks were baselined incorrectly. The start date was scheduled significantly before the work release was opened. A CCB is being prepared to correct the schedule. The requested schedule would start this task on February 10, 1981, and still maintain a September 1981 completion date.

EG&B IDA-40 INC.
LONG RANGE PLANNING

NUMBER SF 79R0800



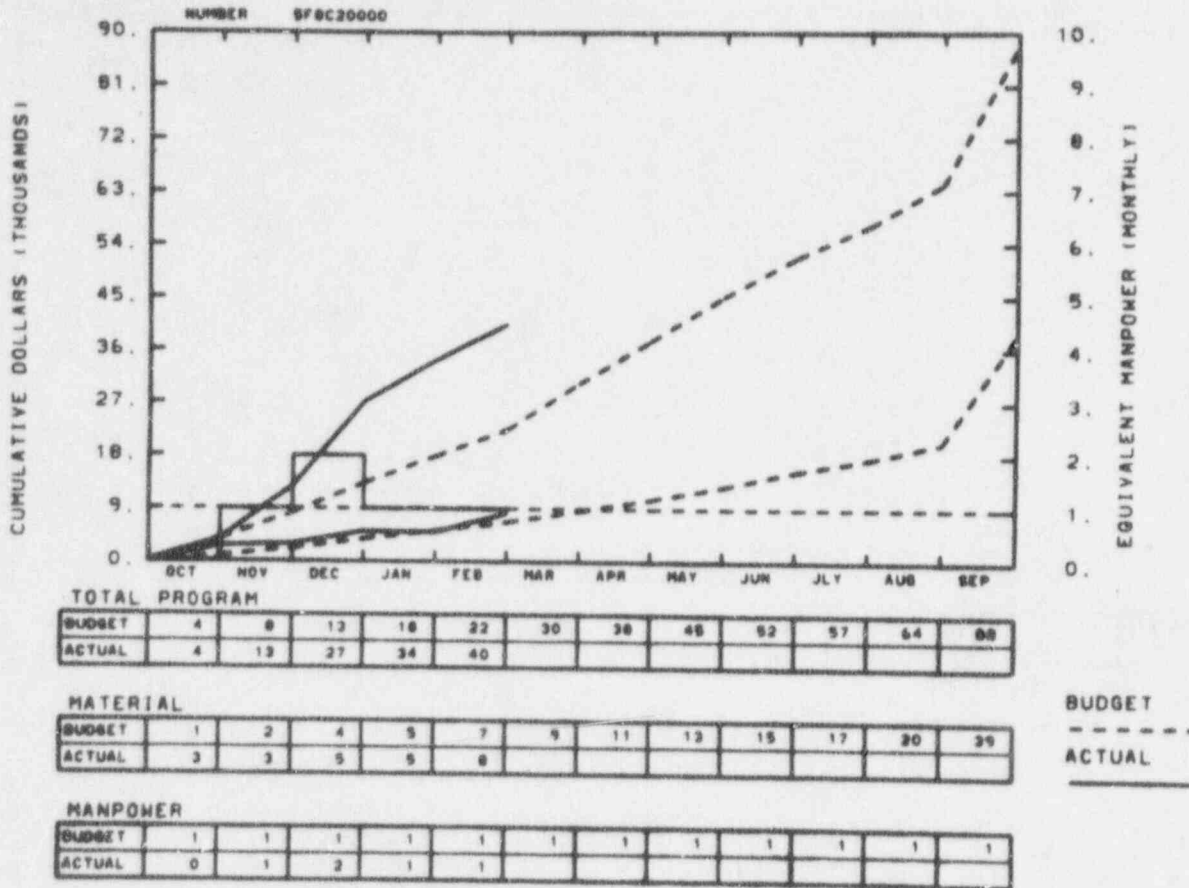
TOTAL PROGRAM													
BUDGET	0	0	0	43	69	103	132	157	186	202	220	238	
ACTUAL	9	17	25	43	66								

MATERIAL													
BUDGET	0	0	0	5	12	23	32	39	47	53	57	60	
ACTUAL	0	0	0	2	7								

MANPOWER													
BUDGET	0	0	0	8	4	4	4	4	2	3	3	3	
ACTUAL	2	1	1	3	4								

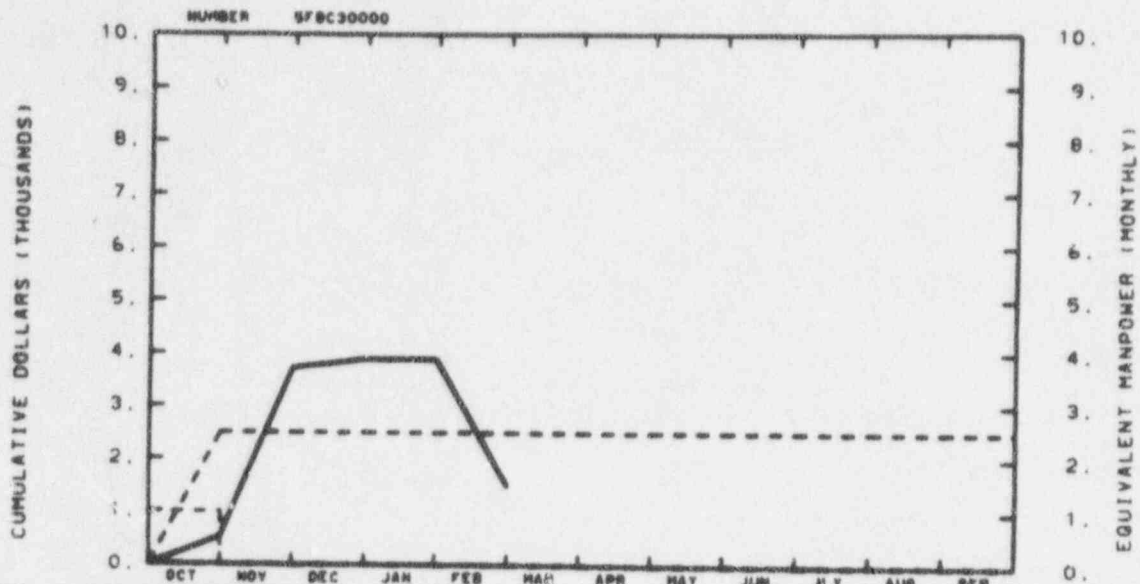
No significant variance.

EG&G IDAHO INC.
 PROG DEVELOPMENT & ANALYSIS



The overrun is due to increased management charges to JAERI funds until the German funds became available. Now that German funds are available appropriate adjustments are being made to compensate for the overrun.

EG&G IDAHO INC.
COMPONENT DEVELOPMENT



TOTAL PROGRAM

BUDGET	3	3	3	3	3	3	3	3	3	3	3	3
ACTUAL	1	4	4	4	1							

MATERIAL

BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	1	4	4	4	1							

MANPOWER

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

BUDGET

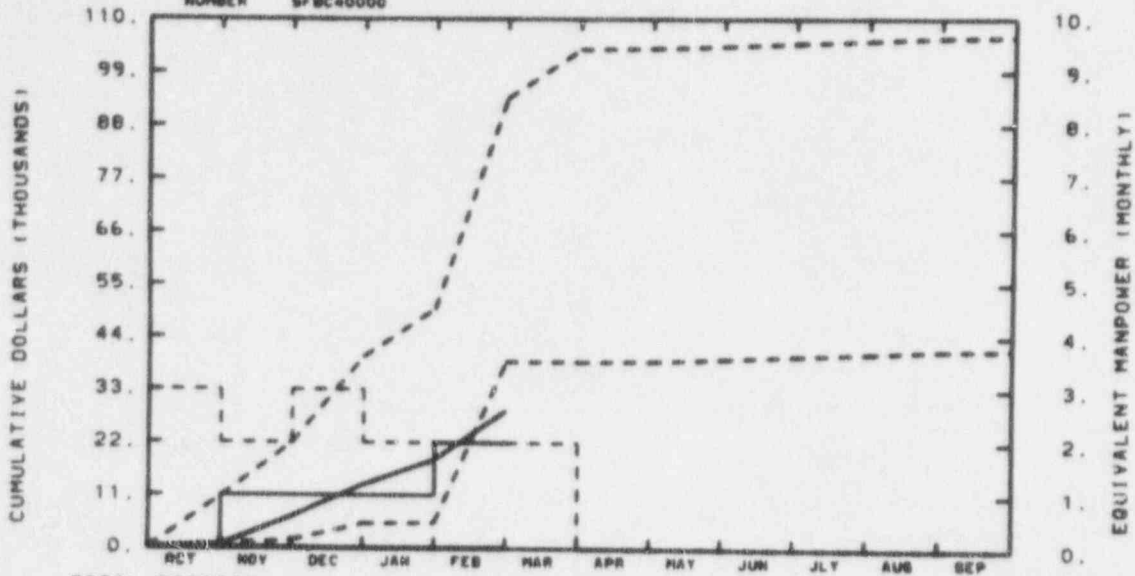
ACTUAL

Accounting has corrected the offsetting accrual reversal which was previously against a different number.

EG&G IDAHO INC.

POST CHF HEAT TRANSFER

NUMBER SFBC40000



TOTAL PROGRAM

BUDGET	11	22	40	50	94	104	104	104	105	105	106	106
ACTUAL	1	7	13	18	29							

MATERIAL

BUDGET	1	2	5	5	35	39	39	40	40	41	41	41
ACTUAL	0	0	0	0	0							

MANPOWER

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

BUDGET

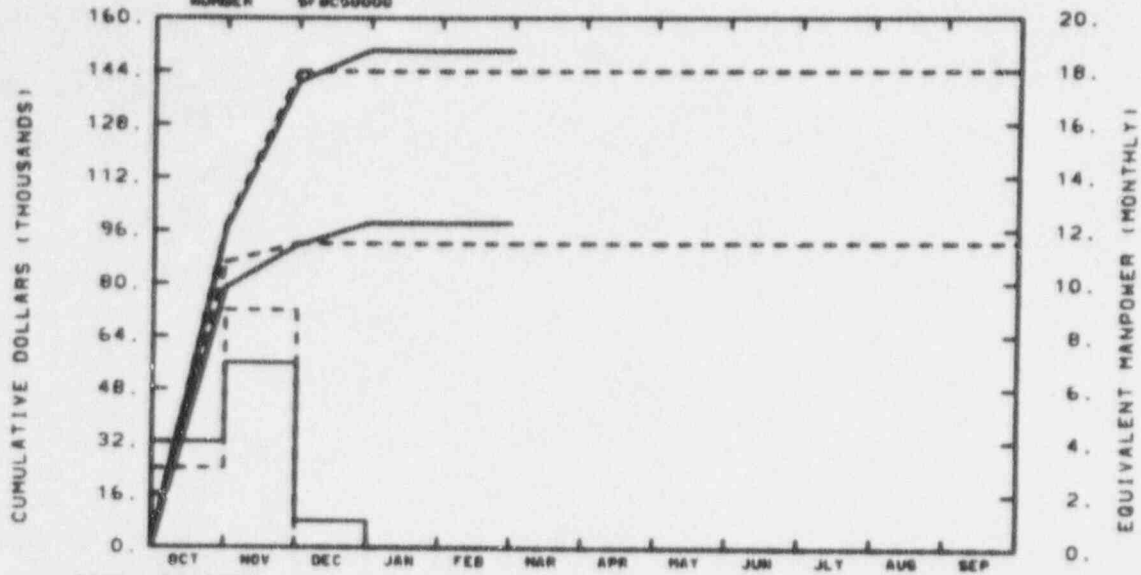
ACTUAL

This cost graph represents the work to be performed for the post CHF-heat transfer task at the LOFI test support facility (LTSF). Other tests planned for the LTSF have been delayed resulting in the delay of post-CHF tests. A CCB has been prepared requesting schedule modifications to represent the current situation. The budget and costs should be in agreement when the schedule modifications are placed in effect.

EG&G IDAHO INC.

SMALL BREAK INSTRUMENTATION

NUMBER SFBC500006



TOTAL PROGRAM

BUDGET	97	144	144	144	144	144	144	144	144	144	144	144
ACTUAL	96	141	150	150	150							

MATERIAL

BUDGET	87	92	92	92	92	92	92	92	92	92	92	92
ACTUAL	79	92	96	96	96							

MANPOWER

BUDGET	3	9	0	0	0	0	0	0	0	0	0	0
ACTUAL	4	7	1	0	0							

BUDGET

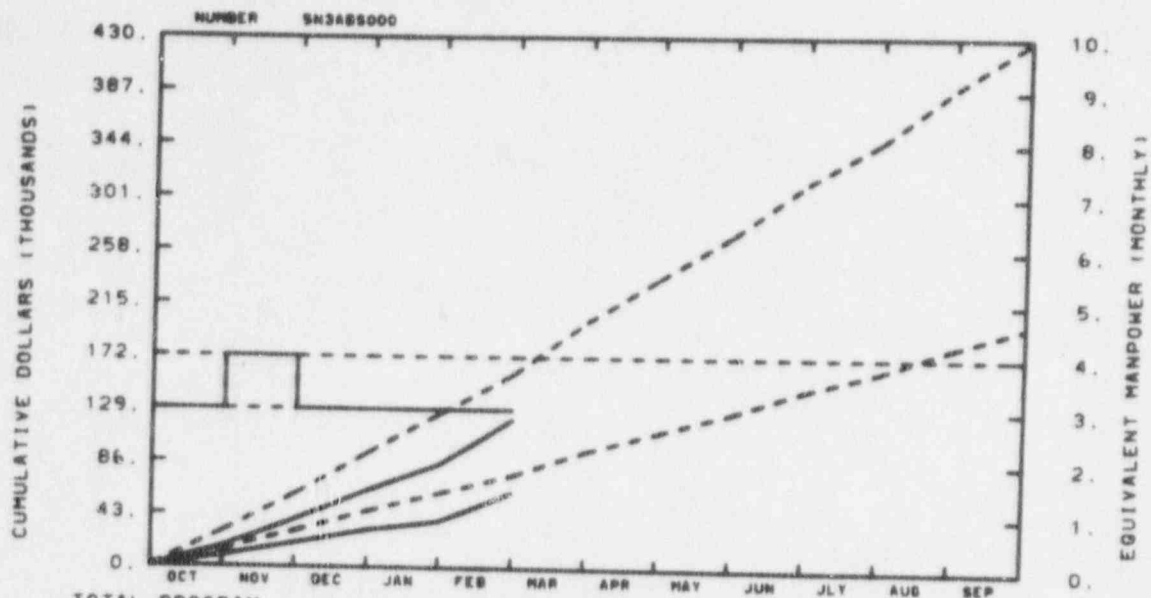
ACTUAL

This task has been completed. CCB action has been requested to transfer from contingency funds to cover the overrun.

LOFT Cost Accounts

5N3Axx--NRC Work Package Accounts

EG&G IDAHO INC.
EXP MEAS -BRANCH SUPPORT



TOTAL PROGRAM												
BUDGET	29	60	93	126	158	201	236	271	313	346	390	428
ACTUAL	16	39	63	84	121							

MATERIAL												
BUDGET	14	29	46	61	76	96	111	127	146	161	181	198
ACTUAL	9	19	30	38	62							

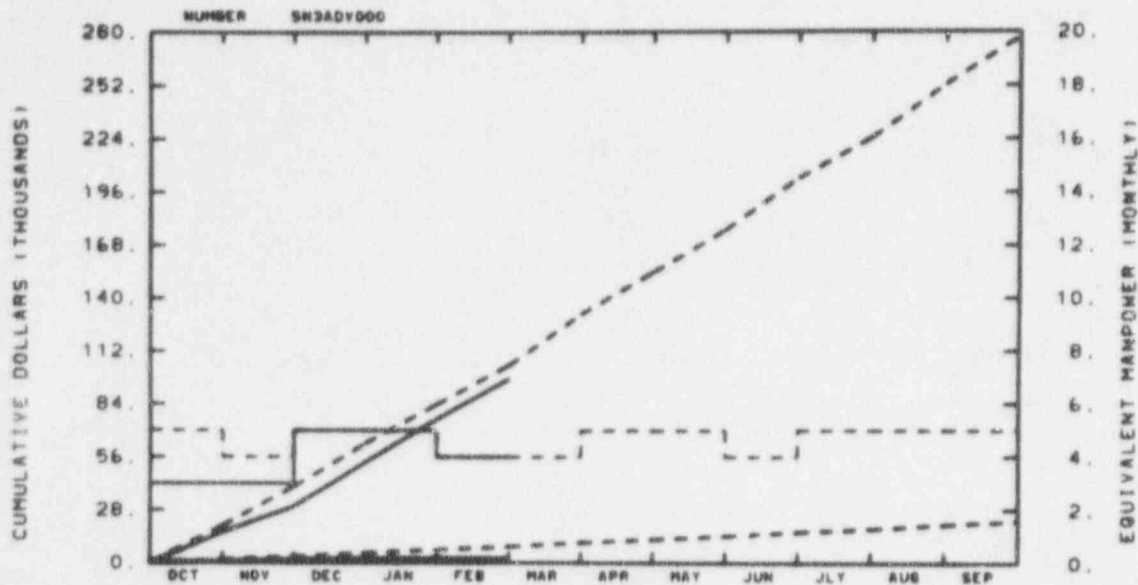
MANPOWER												
BUDGET	4	3	4	4	4	4	4	4	4	4	4	4
ACTUAL	3	4	2	3	3							

BUDGET

ACTUAL

Man-hours underspent due to assignments to other tasks with higher priority. Material dollars underspent due to more efficient use of the computer, and under-running the computer account.

EG&G IDAHO INC.
EXP MEAS -DAVDS SUPPORT



TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	19	40	63	84	104	132	154	176	203	225	253	277
ACTUAL	16	30	53	76	97							

MATERIAL

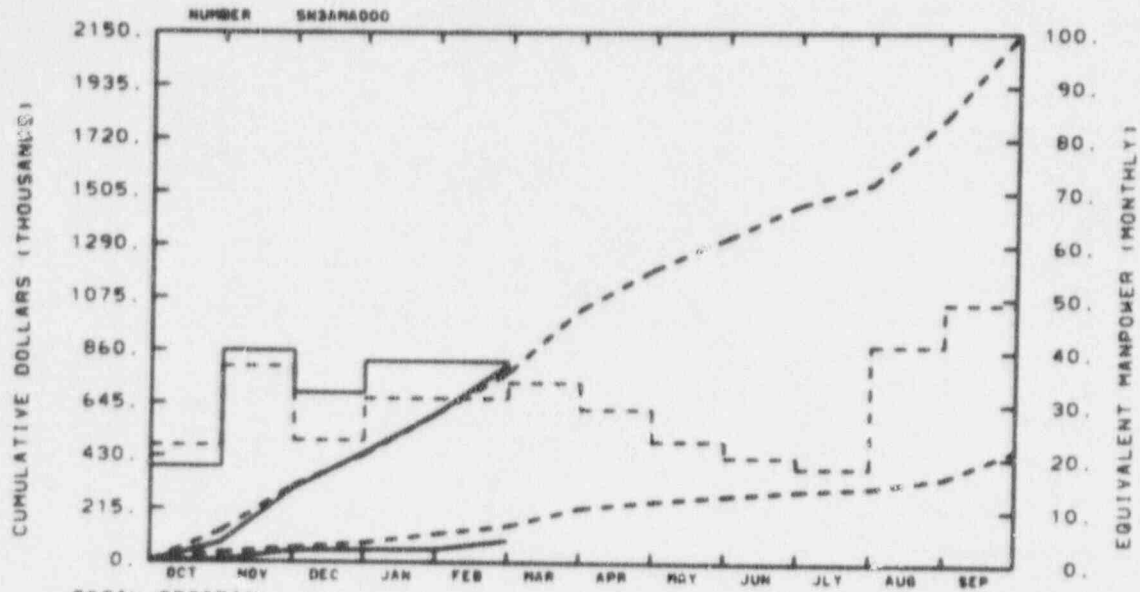
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	2	3	5	7	9	11	12	14	16	18	20	22
ACTUAL	1	2	2	2	2							

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	5	4	5	5	4	4	5	5	4	5	5	5
ACTUAL	3	3	5	5	4							

No significant variance.

EG&G IDAHO INC.
EXP MEAS - MEAS SYST A



TOTAL PROGRAM												
BUDGET	125	310	436	603	774	1033	1193	1320	1484	1539	1810	3149
ACTUAL	77	298	444	603	805							

MATERIAL												
BUDGET	38	59	75	116	149	222	251	274	295	309	349	464
ACTUAL	7	47	51	53	89							

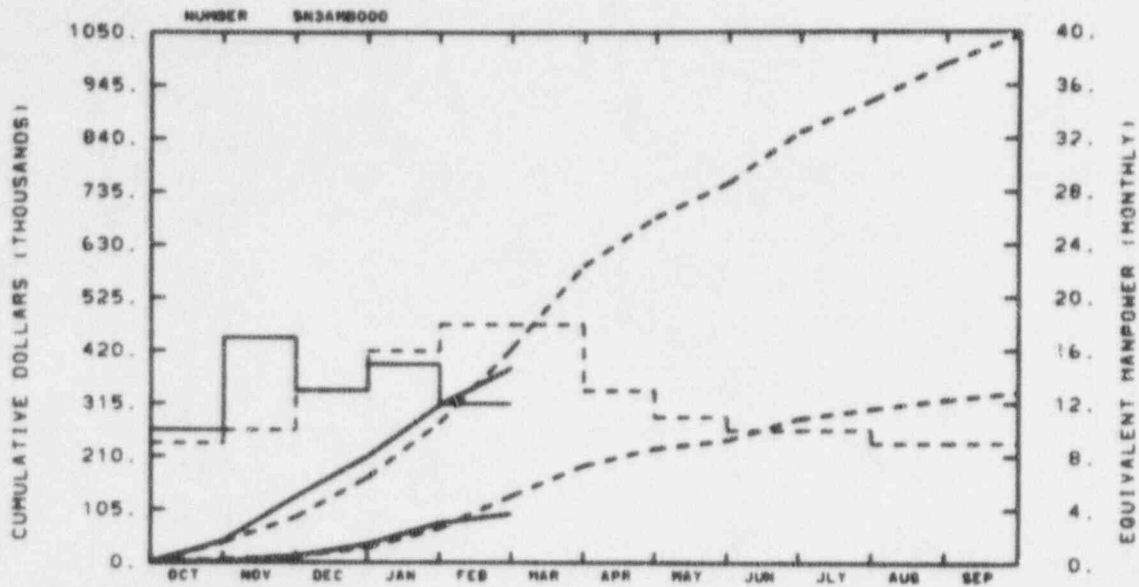
MANPOWER												
BUDGET	22	37	23	31	31	34	29	23	20	18	31	45
ACTUAL	18	40	32	36	36							

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
EXP MEAS - MEAS SYST B



TOTAL PROGRAM

BUDGET	40	89	168	277	424	589	685	753	853	916	987	1043
ACTUAL	43	130	210	312	387							

MATERIAL

BUDGET	5	12	29	68	122	192	226	243	285	305	322	337
ACTUAL	2	12	27	78	97							

MANPOWER

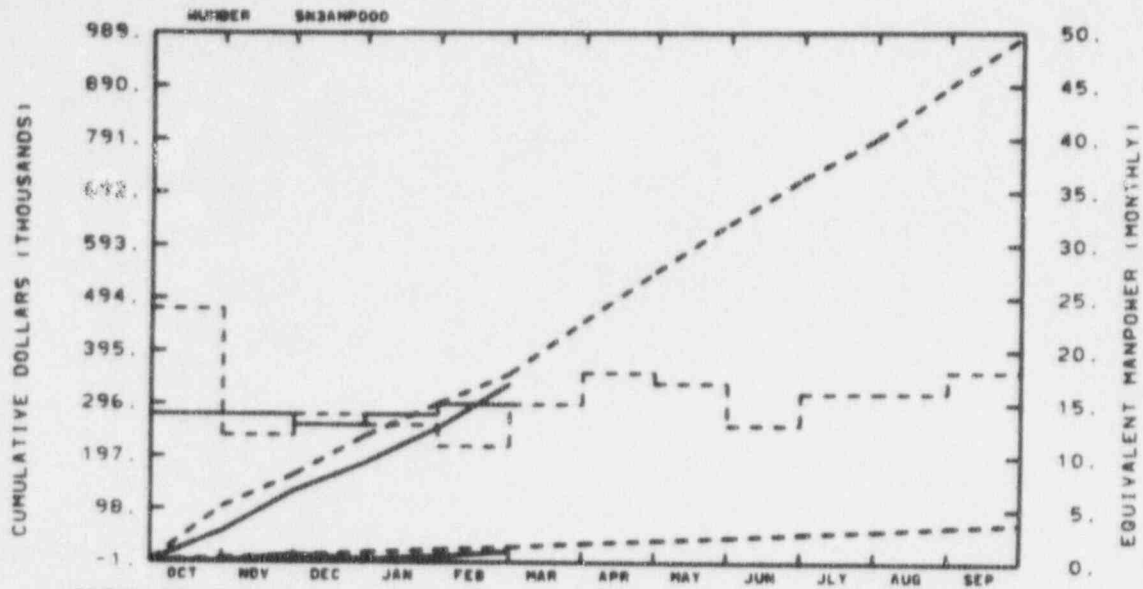
BUDGET	9	10	13	16	18	18	13	11	10	10	9	9
ACTUAL	10	17	13	15	12							

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
EXP MEAS PERFORMANCE



TOTAL PROGRAM

BUDGET	102	163	236	297	354	452	545	634	718	792	851	902
ACTUAL	56	132	185	251	339							

MATERIAL

BUDGET	5	11	17	22	28	35	41	47	54	59	66	73
ACTUAL	0	13	4	10	15							

MANPOWER

BUDGET	24	12	14	13	11	15	18	17	13	16	16	18
ACTUAL	14	14	13	14	15							

BUDGET

ACTUAL

Budget reflects improper manpower allocation. Annual manpower total is correct. A CCF has been written to show correct manpower allocation.

TABLE 1. FOREIGN FUNDS AVAILABILITY AT END OF FEBRUARY 1981
(In Thousands of Dollars)

<u>Participant</u>	<u>Actual Reserve</u>	<u>Contingency</u>
JAERI	25.5	57
FRG	51.4	9
CEA	11.0	0
ECN	69.7	16.8
FZS	<u>0</u>	<u>0</u>
Total	157.6	82.8

TABLE 2. FOREIGN FUNDED TASK SUMMARY AT END OF FEBRUARY 1981

Project Description	Total Proposal Est. Inc. Contingency (\$K)	Total Spending Auth. by CCB (\$K)	Funds Spent to Date (\$K)	Expected Task Completion Date
<u>JAERI TASKS</u>				
5F8C21 Management and Delegate Support	262	262	223.3	Sept. 81
5F8C22 Analysis and Evaluation	16	16	10.0	Sept. 81
5F8C31 Instrumentation	154	154	153.0	May 81
5F8C41 Post-CHF Heat Transfer	200	177	83.6	Sept. 81
5F8C51 PC-3 and Small Break Instrumentation	692	660	665.9	Done
5F8C94 Boiler Building	18	18	15.9	Done
<u>FRG TASKS</u>				
5F7C21 Management and Delegate Support	355.3	355.3	238.6	Sept. 81
5F7C22 Analysis and Evaluation	128	128	51.1	Sept. 81
5F7C23 Task Development	3.7	3.7	3.4	Feb. 81
5F7C31 Instrumentation	120	111	29.6	Sept. 81
5F7C94 Boiler Building	18	18	18.9	Done
5F7C51 Program Planning	225	225	14.1	Sept. 81
5F7BEP Test Prediction and Analysis	255	255	2.0	Sept. 81
5F7BPP Long-Range Planning	238	238	66.1	Sept. 81

TABLE 2. (continued)

Project Description		Total Proposal Est. Inc. Contingency (\$K)	Total Spending Auth. by CCB (\$K)	Funds Spent to Date (\$K)	Expected Task Completion Date
<u>CFA TASKS</u>					
5FFC21	Management and Delegate Support	77.0	77.0	0	Sept. 81
5FFDC2	F2 Fuel Bundle Fabrication	372.0	372.0	0	Sept. 81
5FFDC1	Reload Core II Instrumentation	540.0	540.0	15K	Sept. 81
<u>ECN TASKS</u>					
5FNC21	Management and Delegate Support	27	27	8.5	Sept. 81
5FNC22	Analysis and Evaluation	224	219	208.7	Sept. 81
5FNC31	Instrumentation	11	11	10.7	Dec. 80
5FNC32	Hardware Components	59	47	46.5	Dec. 80
<u>FZS TASKS</u>					
5FAU21	Management and Delegate Support	24	24	17.5	Sept. 81

BUDGET STATUS REPORT

TABLE 3. LOFT FY-81 SUMMARY STATUS REPORT
NUCLEAR REGULATORY COMMISSION
(In Thousands of Dollars)

<u>WBS#</u>	<u>189 #</u>	<u>Q81-1-0</u>	<u>Approved CCBs</u>	<u>Q81-1-1 Current PMB</u>	<u>Current BAC</u>
5N1XX	A6048	4,684	0	4,684	4,684
5N2XX	A6053	3,059	0	3,059	3,059
5N3XX	A6043	4,879	0	4,879	4,879
5N4XX	A6107	7,890	0	7,890	7,890
5N5XX	A6122	5,117	0	5,117	5,117
5N6XX	A6110	4,155	0	4,155	4,155
5N7XX	A6054	8,901	0	8,901	8,901
5N8XX	A6108	915		915	915
5NPXX	A6308	553		553	
5NXXX		40,153	0	40,153	40,153
	Supplementary programs				2,859
	NRC management reserves				<u>1,164</u>
	Total NRC funding (FY-81)				44,176

TABLE 4. LOFT FUNDING SUMMARY FOR FY-81
(In Thousands of Dollars)

<u>Funds</u>	<u>Current FIN Plan 5</u>	<u>Current Budget File (Q81-1-1)</u>
LOFT Foreign Funds	2,671	2,603
Total	2,671	2,603
NRC Operating Funds	43,856	41,317
Electric Heat Rod Evaluation		278
LTSF		1,717
Advanced Instrumentation		751
TC-3 Tests		113
Total		44,176
Total LOFT Funding	45,527	46,779

TABLE 5. LOFT FY-81 SUMMARY BUDGET STATUS REPORT OF LOFT FOREIGN FUNDS
(In Thousands of Dollars)

LOFT WBS	189 #	Q81-1-0	Approved CL.I CCBs Thru 1-6-81	Current PBM # Q81-1-1	Current FY-81 Budget	Total Authorized Spending Limit
5FAXX	A6273	11	0	11	11	147
5FFXX	A6362	987	0	987	987	987
5FNXX	A6271	158	0	158	71	393
5F7XX	A6104	998	7	1,005	951	5,141
5F8XX	A6111	<u>442</u>	0	<u>442</u>	<u>359</u>	<u>4,917</u>
5FXXX		2,596	7	2,603	2,379	11,585
Foreign contingency reserves					83	83
Foreign management reserves					<u>151</u>	<u>151</u>
Total FY-81 LOFT foreign funds					2,613	11,819
Foreign funds spent through FY-80					9,206	
Foreign funds budgeted in FY-82					<u>86</u>	<u>86</u>
Total foreign funds received to date					11,905	11,905

TABLE 6. LOFT CAPITAL EQUIPMENT STATUS REPORT THROUGH FEBRUARY

Schedule 189a	Title	Costs					Uncommitted Uncosted Authorizations
		Total Authorized	Prior Years	Current Month	Current Year	PO/WR Commitments	
4CA101	Integral System Design & Fab.	153,550	34,766	18,130	67,358	1,035	50,391
4CA102	LOFT Operations	316,061	182,239	0	<20,926>	0	154,748
4CA103	UT & Requalification Program	399,800	215,298	0	0	0	184,502
Total DOE		869,411	432,303	18,130	46,432	1,035	389,641
A-6061	Experimental Measurements*	2,884,634	1,935,348	10,347	260,448	25,705	1,663,133
A-6084	Integral System Design & Fab.	2,823,271	1,003,905	125,865	579,644	161,837	1,077,865
A-6088	LOFT Operations	138,940	81,053	3,626	19,678	1,156	37,053
Total NRC		6,846,845	3,020,306	139,838	859,770	188,698	2,778,051
Total LOFT		7,716,256	3,452,609	157,968	906,202	189,733	3,167,692

* Includes A-6085, A-6086, and A-6089.