

INTERIM REPORT

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INTERIM REPORT

NRC Research and Technical  
Assistance Report

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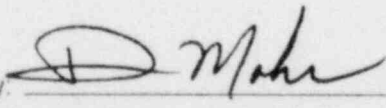
# INTERNAL TECHNICAL REPORT

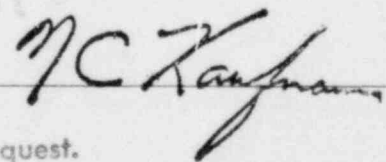
Title: LOFT MONTHLY PROGRESS REPORT  
FOR FEBRUARY 1980

Organization: LOFT Program

Author: N. C. Kaufman,  
LOFT Program Director

NRC Research and Technical  
Assistance Report

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NRC Research and Technical  
Assistance Report

LOFT MONTHLY PROGRESS REPORT FOR FEBRUARY 1980

DIRECTOR'S MONTHLY SUMMARY

The significant event of February was the on-schedule conduct of Test L3-2 on February 7. This was the second LOFT small break test with nuclear heat. It simulated a break of a one-inch pipe in a large commercial plant, whereas Test L3-1 had simulated a break of a four-inch pipe. For Test L3-2, the reactor plant and emergency core cooling system appeared to function as expected, although preliminary data evaluation indicates a higher break flow than expected, with a correspondingly greater depressurization. As the month ended, data evaluation was continuing.

During February, Nuclear Regulatory Commission guidance was received that would require Tests L3-5 and L3-6 to use nuclear heat. Previously these tests, the next planned tests, had been designed as nonnuclear tests with and without operating coolant pumps. This revised guidance will require a replanning of the entire program schedule for better facility use. At the end of the month, replanning was underway.

Costs for February are right on budget, although manpower levels are somewhat greater than budget. This latter variance results from an intentional manpower-material interchange.

## ACCOMPLISHMENTS

### LOFT TECHNICAL SUPPORT

1. Loss-of-Fluid Test (LOFT) loss-of-coolant experiment (LOCE) L3-2, a small break test, was successfully conducted the evening of February 6, 1980.
2. The LOFT Technical Support Center has been established and was used effectively for test monitoring during the L3-2 experiment.
3. Initial operational evaluation and suggested improvements to the first set of augmented operator capability (AOC) computer displays have been performed.
4. Work has started on the software necessary for upgrading plant log and surveillance system (PLSS) computer data logging capabilities. The upgrading will include compressed data storage, real-time trend plotting, and post-incident recall.
5. Improvements have been initiated in existing PLSS computer paged data displays. These improvements include better organization of data and the addition of measurement descriptions to the displays.
6. The experiment safety analysis (ESA) was initiated for LOFT tests L6-1, -2, and -5.
7. Planning discussions were conducted to define the scope and schedule for the LOFT multiple-fault analysis. The work distribution between EG&G Idaho, Inc., and JBF Associates, Inc., is nearly finalized.
8. The LOFT safety analysis power distribution for LOCE L2-5, Mode 8, (low-flow, full-power conditions) was computed and transmitted to the thermo-hydraulic task of the LOFT Reactor Systems Branch (LRSB).

9. The waste gas processing system (WGPS) safety analysis report (SAR), which resolved Department of Energy - Idaho Operations Office (DOE-ID) concerns, was submitted to DOE-ID for approval.
10. The final recommendations of the Technical Advisory Group (TAG) were issued to EG&G management. The recommendations identified deficiencies and potential upgrades of the emergency preparedness of Test Area North (TAN) and LOFT.
11. A blowdown analysis was initiated to determine the safety significance associated with the removal of the reflood assist bypass valves (RABVs).
12. The ESA off-nominal "as planned" analysis to 1100 seconds for the conduct of the L3-4 test was completed.
13. Assembly of the spare 110-degree downcomer was completed.
14. Procurement activities for the upper support structure of reload core II are continuing on schedule. Actual fabrication is scheduled to start in March 1980.
15. Assembly activities have started on the A-3 fuel module.
16. Fabrication of all parts required for the transit time flowmeter rake was completed. The operator qualification program for the thermocouple braze buttons was developed and implemented. The assembly operations, however, were placed on hold, pending further evaluation of the rake's ability to measure low-flow conditions during small break tests.
17. Development of procedures and the work package required for checkout of the equipment needed to perform the phase III fuel examination was

completed. Training of personnel in the TAN-607 high bay training facility is scheduled to be completed by March 21, 1980.

18. For the downcomer stalk removal cask, two of the five fabrication and assembly site work release (SWRs) were released to EG&G Manufacturing Division (EMD), and fabrication activities have begun.
19. Fabrication of equipment for the LOFT air sweep system has been delayed, pending a decision on whether the work should be done by EMD or by construction. This is not expected to affect the completion date.
20. Final drawings were completed for the LOFT fuel storage rack, but sign-offs are being delayed pending completion of a seismic analysis of the support column. Procurement is scheduled to start in March 1980.
21. Design of the boron charging system for the fuel module irradiated cask (FMIRC) coolant was completed, and a final design review is scheduled for March 6, 1980.
22. Design of the cover, underwater lighting system, and support equipment for the irradiated fuel storage facility (IFSF) was completed, and a design review is scheduled for March 6, 1980.
23. Preliminary reports for the operational diagnostics and display system (ODDS) have been received for the L3-2 test. They will be combined and submitted as a final report.
24. The ODDS budget for fiscal year 1980 has been reworked and is being input to update the project management system (PMS).
25. A video tape and slide program of ODDS displays of the L3-2 test data was prepared for presentation at the LOFT Program Review Seminar in Salt Lake City.

26. The Dunn hard copy system has been installed on the Prime computer system and is operational.
27. A task has begun to update the reliability and failure analysis of the plant protection system (PPS).
28. The accuracy analysis of LOFT instrumentation is continuing. Analyses of crucial PPS and primary coolant system instrumentation and electrical (I&E) channels have been submitted for review.
29. A conceptual design for a compensated PPS pressurizer level instrument has been completed, the materials ordered, and a preliminary software and hardware design review date set.
30. Installation of filters in the air lines to the containment personnel airlocks was completed.
31. A revision to specification P-2 (valve lists) was issued.
32. Redesign of the access platform of the polar crane was completed. The redesign was made to comply with the recommendations of the conceptual design review committee.
33. The snubber test stand acceptance test was delayed by a malfunction in the active limit system of the test stand. Modification of the micro-processor unit is underway to resolve control problems encountered in the active limit system. Delay of the acceptance test will delay delivery of the test stand one month, until about April 1, 1980.
34. A memo was completed showing LOFT class 1 system fatigue status, as of February 4, 1980. The method of evaluation used is based on a "weak-link concept" and is very conservative for some components. The cycle count indicated that a considerable amount of fatigue life remains. The task to improve methods of tracking and documenting fatigue life status of LOFT class 1 piping and components is continuing.



35. Design of the gamma densitometer spool piece for use in tests L3-4, -5, and -6 has been redirected for the unit to function in a nuclear test environment.
36. System Design Description (SDD) 1.2.12, "Containment Vessel Structure and Dolly Support Foundation", was approved by DOE-ID in February. Thirty-three design descriptions (DDs) are in the LOFT approval chain, with many DDs nearly ready to submit for DOE-ID approval.
37. The new thermal printer for the facility temperature monitoring (FTM) system has been installed, but software requires further "debugging". Work on the FTM SDD is in progress.
38. The work package is complete for installation of the meteorological recorder. Actual installation is awaiting a Davis-Bacon ruling to determine which organization will perform the work. Work on the meteorology system DD is in progress, and a recommendation will be made for interfacing meteorological data with the Prime computer.
39. Two-out-of-three (2/3) logic coincidence is being installed for the high-pressure injection system (HPIS) and low-pressure injection system (LPIS) pressure signals. This system will require that two-of-three PPS pressure channels be tripped before emergency core cooling (ECC) action occurs.
40. The isotope detection system (IDS) is in the conceptual stage, and the conceptual SDD has been written.
41. Drawings were completed for SWRs covering the meteorological instrumentation waste gas systems cabinet and covering installation of cabling for the small break loop.
42. Gathering cost estimate information was completed to support the conceptual design effort to upgrade utilities at TAN/Test Support Facility (TSF) and the Water Reactor Research Test Facility (WRRTF).

43. Loads, size of circuit breakers, size of conductors, and the currents were verified on vital panel boards for the vital power load study. The total study is to determine actual demand vs. rated demand and to determine if additional load capacity is required. Testing is performed, as required, and the LOFT technical report (LTR) has been started that will document the results of the vital power load study.

#### LOFT OPERATIONS

1. The final phases of the L3-2 experiment operating specification (EOS) were completed.
2. The second nuclear small break experiment (L3-2) was performed.
3. The plant recovery and requalification following L3-2 were performed.
4. The LOFT plant was drained, and the work window was opened.

#### LOFT EXPERIMENTAL MEASUREMENTS

1. The modular drag disc turbine transducer (MDTT) prototype period electronics were delivered, operational tests conducted, and the data is being evaluated to determine overall performance.
2. Two B3 range MDTTs and two dummy modules scheduled for use in the Exxon flow test program were completed and shipped to Exxon.
3. Two drag disc modules and a turbine module are being fabricated for use in a LOFT Experimental Measurements Branch (LEMB) data analysis program. One drag disc is complete and the other two components are nearing completion.
4. A rough draft of operation and maintenance manual (OMM 141-26) on the pump speed probe was completed.

5. Specification ES-60320 was finalized and released for design of a nuclear hardened densitometer at the PC-3 location.
6. A meeting was held to discuss the history of the nuclear hardened gamma densitometer system.
7. Ten discrete component preamps have been fabricated for the gamma densitometers and will be tested at Test Reactor Area (TRA).
8. The liquid level transducer (LLT) operation and maintenance manual (OMM 141-13) was revised and routed for approval.
9. Thermocouples for the S/N 003 transit time flowmeter (TTF) rake were fabricated, brazed into stainless steel mounting cups, and response matched.
10. The pulse neutron activation (PNA) system hardware operated satisfactorily during the LOFT L3-2 experiment.

Analysis of the data is currently being evaluated, but initial indications are that the PNA flow results are marginal. Flow rates in the hot leg intact loop were determined, but the signal-to-noise ratio was poor; hence the confidence level is low.

11. Preliminary true mass flowmeter (TMFM) measurement system cost and schedule estimates were completed. The total cost will be about \$250,000, and the time will be about 50 weeks including manufacturing feasibility study.
12. A meeting was held to discuss suggested changes in the instrumentation planned for the F1, A4, and A5 bundles. This resulted in a proposal to modify the LOFT core instrumentation by the Fuel Design and Analysis Branch.

13. A presentation on handling and installing core instrumentation was given to Exxon personnel in addition to revising specification INC-60040.
14. Testing of the production linear variable displacement transducer (LVDT) at Hanford Engineering Developmental Laboratory (HEDL) was completed. This testing defined the cause of the temperature sensitivity to be material differences in the sensing core.
15. Six model A and three model B centerline thermocouples were delivered to Exxon Nuclear.
16. All zircaloy cladding thermocouple work has been officially stopped pending Change Control Board (CCB) approval for additional funds.
17. Test Area North (TAN) Manufacturing has determined a technique for freezing 14-inch pipes for debris control during drilling. Target date for installing permanent thermocouples in the blowdown system is between tests L3-3 and L6-3. A proposal will be submitted to LEMB.
18. The test L3-2 EDR has been reviewed and initial condition and operating uncertainties submitted.
19. The test L3-2 data integrity review committee and data reduction efforts were supported. This activity is now 95% complete.
20. A technical paper entitled, "Analysis of a Transient Load Measuring System", was completed and will be presented at the Instrument Society of America (ISA) conference in Seattle in May.
21. Wyle data integrity review continued. This activity is 95% complete. Analysis of Wyle pitot tube rake data continued.
22. An uncertainty analysis of test L3-1 break flow was completed. This analysis was on the suppression tank method of obtaining break flow.

23. A program to obtain density information from the PC-3 densitometer was started and is 90% complete. This program extracts density information from the source stored and exposed condition when this nonnuclear densitometer is used in a nuclear environment.

#### LOFT FUEL FABRICATION

1. Change Orders were issued to Exxon for:
  - a. Fabrication of a vacuum weld chamber for LOFT instrumented fuel rod assembly to provide more efficient welding (less pump down time) and improved support for test instrument cables.
  - b. Precision weighing of all pressurized non-instrumented fuel rods for posttest determination of fuel losses.
  - c. Addition of four dummy surface thermocouples at fuel rod position H-3 (linear variable displacement transducer rod) for evaluation of surface thermocouple effects.
  - d. Preparation of a conceptual design for an instrumented fuel rod featuring two external fuel pellet thermocouples, two active surface thermocouples, and two dummy surface thermocouples.
2. Allied Mechanical Company completed fabrication of the control rod spiders, and Precision Coil Spring Company completed fabrication of the control rod cluster coil springs to complete fabrication of the Reload Core II control rod components.
3. Exxon received the 58.5 kg of 4.0 w/o U-235 enriched uranium hexafluoride for Reload Core II from ORNL.
4. Assembly of downcomer instrument stalk No. 2 was completed at TAN-615.

5. The Fuel Requalification Working Group met to review the L3-2 test data. The information presented indicated the fuel is in acceptable condition for the next test.

#### LOFT TEST SUPPORT

1. The experimental data report for tests IA101, IA102, and IA103 was completed and transmitted to LOFT Configuration Document Control and Services (CDCS). Processing and analysis continued on data for EDRs from 20 transient tests. Qualification and analysis was completed for 10 of those tests.
2. The final report for the single rod quench test has been completed, and the results were presented to Nuclear Regulatory Commission (NRC).
3. The final LTR (141-124) for the transient performance of the drag disc turbine and densitometer was completed.
4. A technical paper was completed on two-phase pump performance in the full area steady state (FAST) loop.
5. A technical paper was completed on RFLAP/MOD6 reflood analysis of the blowdown facility.
6. Pitot tube rake test No. BF-PTR-2 was completed in the blowdown facility.
7. Results of the nine-bundle regulator checkout test in the blowdown facility showed a leak in the regulator.
8. Checkout of the steam generator was completed, and 24-hour initial operation was completed under vendor supervision. Hydro testing was conducted by the factory representative. Checkout of the data system hookup was completed. Acceptance testing was conducted at varying water and steam flows up to 300 kg/s water and 15 kg/s steam at 3.0 megaPascals.

### PROGRAM PLANNING AND TEST EVALUATION

1. The experiment operating specification (EOS) for the L6 series (operational transient tests) has been internally approved and transmitted to DOE-ID for their review and approval.
2. The LOFT experimental program document has been transmitted to DOE-ID for their review and approval.
3. Program Planning Branch personnel attended test L3-2 conducted February 6, and participated in the posttest data qualification.
4. Program planning personnel presented LOFT testing plans at the Review Group Meeting in Salt Lake City, Utah.
5. The initial planning and EOS development for the new test (L3-7) was initiated. L3-7 is being developed to confirm initial behavior of L3-2 and to investigate reflux boiling.
6. The Idaho National Engineering Laboratory (INEL) version of the ALMOD operational transient computer code evaluation was completed, and the results were transmitted to Germany.
7. The Pretest Prediction Consistency Committee review of RETRAN/MOD2 source deck and input model developed by Energy Incorporated for use in L6 series experiment prediction was completed.
8. Experiment safety analysis (ESA) evaluation for test L3-4 was completed. Documentation is presently in process.
9. The ESA for removal of reflood assist bypass valves (RABVs) was initiated.
10. The experimental prediction for L3-2 using both RELAP4 and RELAP5 was completed and published.

11. An initial posttest analysis of loss-of-coolant experiment (LOCE) L3-2 was performed to identify suspected flow leakages from the system.
12. An analysis of the sensitivity of LOCE L3-1 to core bypass, using both RELAP4 and RELAP5 was completed. A bypass of about 4% will keep the loop seal from clearing.
13. Modeling was initiated of Wyle critical flow test facility data using RELAP4 to verify the proper application of the critical flow multipliers determined from Wyle data.
14. A new RELAP5 model of the LOFT facility was completed which will be well documented and very general, to be used for both small and large breaks, as well as for operational transients.
15. The quick look report for LOFT LOCE L3-2 was issued (EGG-LOFT-5104).
16. The correspondence between LOFT and Semiscale in small breaks was the subject of a presentation at the February LOFT Review Group Meeting.
17. The design of the LOFT LOCE L3-4, -5, and -5 break configuration hardware and instrumentation was completed. This task was a cooperative effort by several organizations. Members of Experiment Analysis performed the transient analysis of break flow and the definition of proper downstream geometry for mass flow and choking phenomena and for instrument ranging.
18. Applications of the German ALMOD code in operational transient analysis have been suspended pending resolution of problem areas in the code by the Germans.
19. A draft of an interim report was completed which documents the RELAP4/MOD6 calculations of the Zion pressurized water reactor (PWR). The calculations include LOFT L2-2 and L2-3 conditions, and show the prototypicality of LOFT and the commercial PWR.



20. Experimental results of the first two nuclear small break experiments were presented at the LOFT Review Group Meeting in Salt Lake City, Utah on February 27 and 28.
21. Experiment Evaluation Section personnel witnessed the L3-2 experiment, participated in the Data Integrity Review Committee (DIRC) activities, and worked on the data analysis.
22. The final L3-4 spoolpiece specification was transmitted to LOFT Experiments Measurements Branch (LEMB).
23. The course "Design of Experiments," a statistics course, is being conducted by the Experiment Evaluation Section.
24. The L-3 experiment data report (EDR) is on schedule, with the review draft out.
25. The Tektronix 4052 computer is complete and all the peripherals are operational. Work on the software for the system is continuing.
26. The LOFT technical report (LTR-LO-00-79-108) which reviews and evaluates LOFT thermocouple (TC) effects from LOFT lead rod (LLR) test results was completed and published.
27. A proposal for internal fuel and cladding thermocouples for the F1 module (test L2-4) was completed and documented in a letter report (ELT-4-80). The purpose of this instrumentation is to provide additional data for assessing the accuracy and possible perturbation effects of the LOFT surface thermocouples.
28. Analysis to evaluate LOFT centerline thermocouple response continued. Reactor physics type calculations have been initiated to compare Power Burst Facility (PBF) and LOFT type TCs and to evaluate grouping TCs as proposed in the F1 module.

29. Progress continued on a report summarizing results of recent tests involving cladding surface thermocouples. A review meeting was held regarding TC tests and status of analysis.
30. A first draft of section of the LOFT lead rod test analysis report involving the analysis of fuel centerline temperature and fuel rod elongation was completed and submitted for supervisory review.
31. No word has been received on our proposed test plan for NEPTUN (Swiss reflood) program. Problems in heater rod design and system electronics may result in a significant program delay (up to six months).

SUMMARY OF AUSTRIAN FUNDED TASKS

1. Task 5FAC1 -- SGAE Management

Status: No change.

SUMMARY OF NETHERLANDS FUNDED TASKS

1. Task 5FNC1 -- ECN Management

Status: No change.

2. Task 5NC3 -- RPI Subcontract

Status: Calibration of flow loop instrumentation is nearly complete. Testing will be delayed for at least two months due to upgrading of the Rensselaer Polytechnic Institute (RPI) linear accelerator (not anticipated by Dr. Gay). Modeling activities are progressing. The steam table addition is complete and a new routine has been written to improve the mathematics convergence.

3. Task 5FNC4 -- INEL Support of RPI Subcontracts

Status: Experimental Data Report (EDR) from Wyle tests IA102, IA102 and IA103 was forwarded to RPI. Processing of data from those tests to be reformatted per RPI requirements was continued. Qualification of data from Wyle IIIA series tests was completed, and processing of data from IIA series tests was continued. This data will be made available for critical flow model assessment upon EDR completion.

SUMMARY OF FRG/JAERI SHARED TASKS

1. Task 5F9C2 -- Two-Phase, Steady-State Tests

Status: Reported elsewhere.

2. Task 5F9C3 -- TRAC Code Studies

Status: No change.

SUMMARY OF FRG FUNDED TASKS

1. Task 5f7C1 -- FRG Management

Status: No change.

2. Task 5F7C3 -- Core Instrumentation

Status: This task has been cancelled.

3. Task 5F7C4 -- Misc. Tasks

Status: No change.

4. Task 5F7C5 -- Steam Probe

Status: Task has been completed except for review meeting to be held for discussing results and future plans.

5. Task 5F7C8 -- LOFT State Vector

Status: A CCB is still pending approval.

SUMMARY OF JAPANESE FUNDED TASKS

1. Task 5F8C5 -- LOFT/PBF Lead Rod Tests

Status: The preparation of the final report is in progress with scheduled completion rescheduled for March 1980.

2. Task 5F8C6 -- Re-Evaluation of Loft Experiments

Status: This task is completed except for revision of a final report.

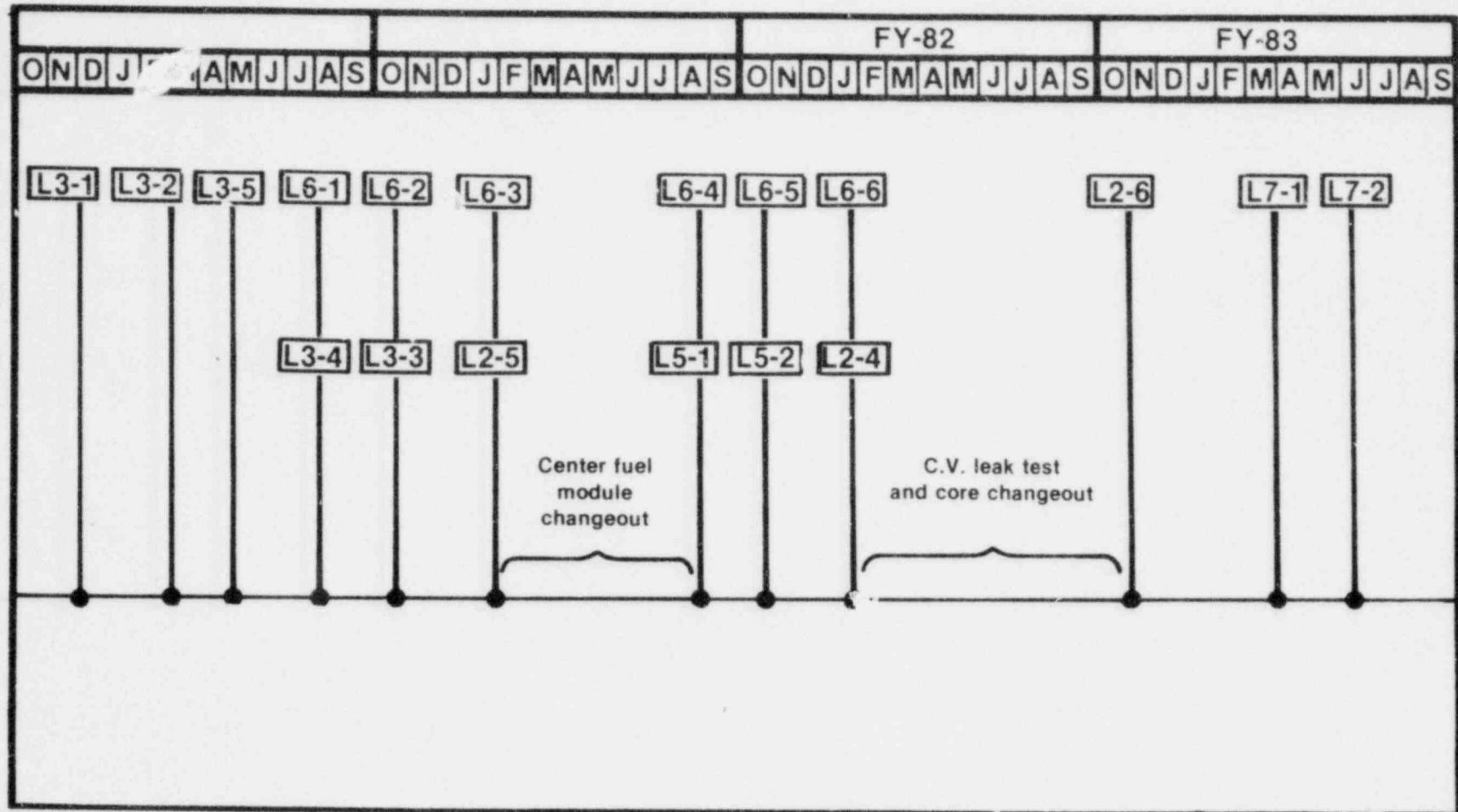
3. Task 5F8C8 -- Suppression Catch Tank

Status: The suppression catch tank is in the fabrication stage with the frame assembly complete and delivered. The tank is currently being fabricated with completion expected next month.

4. Task 5FNC6 -- Pulsed Neutron Activation Studies at RPI

Status: Technical work in progress and initial results will be available next month.

# LOFT Three-Year Plan



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Figure 1. LOFT management three-year plan.

TABLE 1. FOREIGN-FUNDED COST AND SUMMARY SCHEDULE AS OF FEBRUARY 1980

Total Proposal Estimate in Thousands Including Contingency	Total Spending in Thousands Authorized by CCB	Funds Spent in Thousands to Date	Items	FY-80											
				Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep
<u>Austrian Tasks</u>															
12	12	10.7	5FAC1 SGAE Management	-----0											
135	123	123	5FAC2 Completed Tasks												
<u>Netherland Tasks</u>															
10	10	8	5FNC1 ECN Management	-----0											
92	92	92	5FNC2 Completed Tasks												
117	114	112	5FNC3 RPI Subcontract	-----0											
10	10	1	5FNC5 INEL Support	-----0											
37.5	32.5	0	5FNC6 PNA Techniques	-----0											
<u>German Tasks</u>															
156	156	152.2	5F7C1 FRG Management	-----0											
1618	1618	1618	5F7C2 Completed Tasks												
1006	1006	941.9	5F7C3 Core Instruments	-----0											
50	50	32.5	5F7C4 Miscellaneous Tasks	-----0											

TABLE 1. (continued)

Total Proposal Estimate in Thousands Including Contingency	Total Spending in Thousands Authorized by CCB	Funds Spent in Thousands to Date	Items	FY-80											
				Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep
30	30	21	5F7C5 Steam Probe	-----0											
1030	980	776	5F7C92 Shared - Steady State Tests	-----0											
50	50	62.5	5F7C93 Shared - TRAC Code Studies	-----0											
			<u>JAERI Tasks</u>												
202	202	175.5	5F8C1 JAERI Management	-----0											
750	750	750	5F8C2 Completed Tasks												
150	70	70	5F8C3 Additional Insts.	-----0											
154	154	135	5F8C4 Advanced DDT	-----0											
1876	1859	1793	5F8C5 LOFT/PBF Lead Rod	-----0											
25	25	24	5F8C6 Reevaluating of LOFT Experiments	-----0											

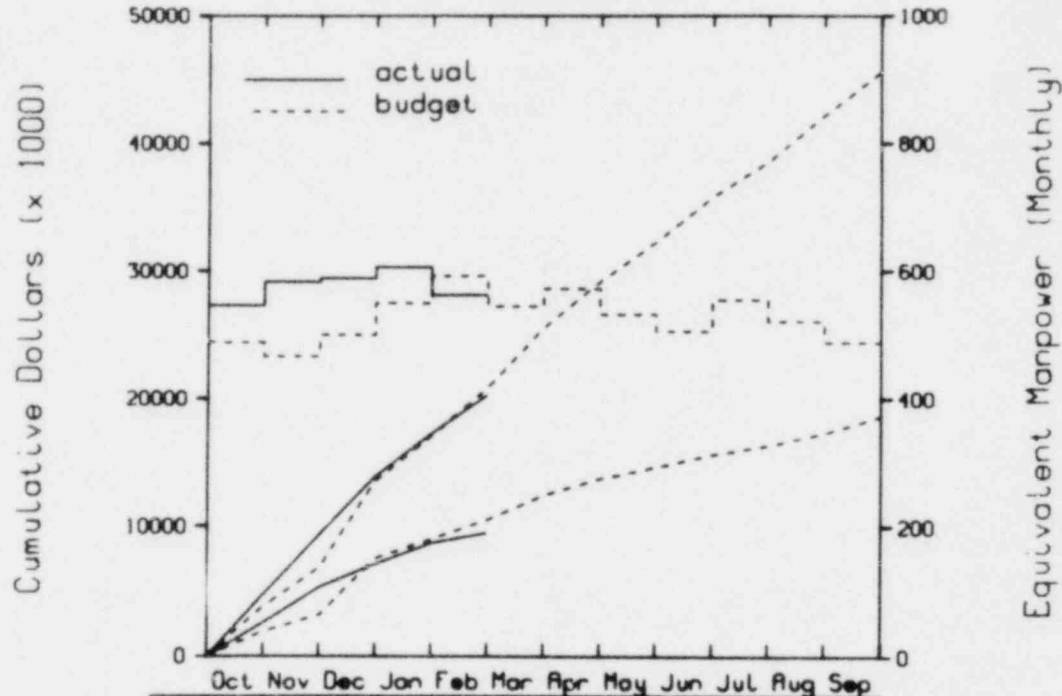




LOFT Overall Funding

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LOFT Program Cost/Budget Summary  
LOFT OVERALL FUNDING



		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total	Bud	3835	6791	13488	17084	20842	25547	28177	32273	36811	38668	42171	45535
	Act	4703	8353	13804	17258	20348							
Material	Bud	1876	3158	7522	9027	10546	12488	13720	14618	15806	16320	17288	18643
	Act	2570	5285	7086	8737	9515							
Manpower	Bud	488	488	500	550	583	645	673	532	608	555	521	488
	Act	546	583	588	606	563							

The Nuclear Regulatory Commission (NRC) and foreign-funded budgets reflect the LOFT Q80-3-2 Baseline approved in February. Refer to the Director's Monthly Summary for comments.

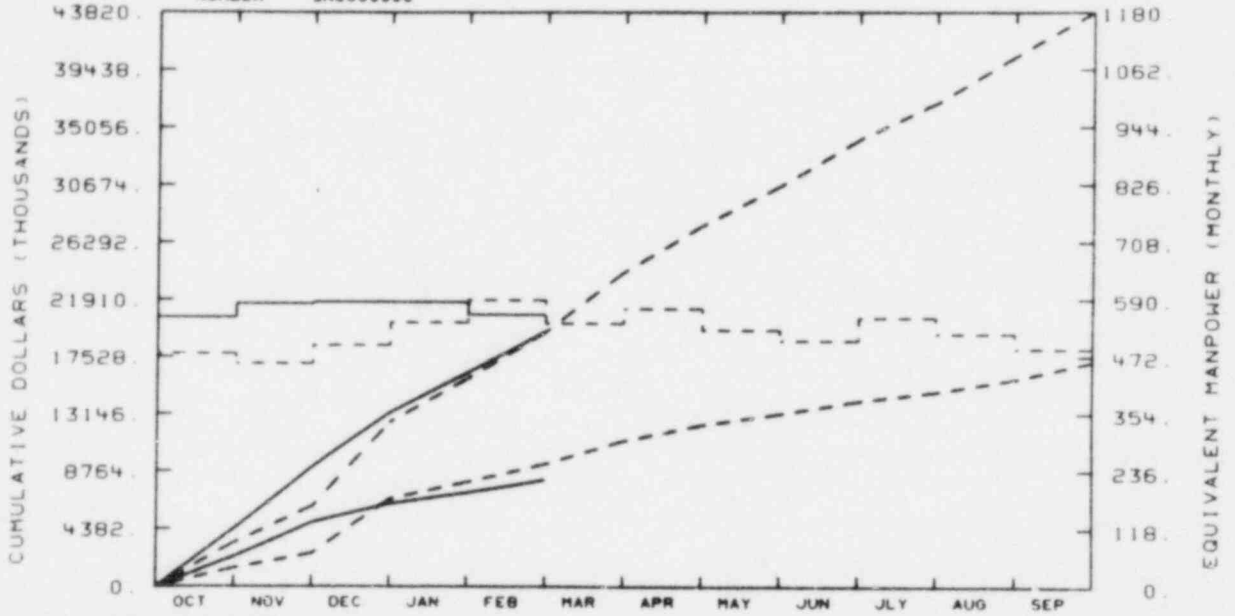
5N--NRC Operating Funding

5F--Foreign Funding

EG&G IDAHO INC.

LOFT - NRC OPERATING FUNDING

NUMBER 5N0000000



TOTAL PROGRAM												
BUDGET	3325	6060	12500	15838	19452	23998	27578	30809	34138	38869	40460	43815
ACTUAL	4403	9076	13230	16305	19483							

MATERIAL												
BUDGET	1402	2496	6611	7896	9288	11060	12293	13137	14116	14825	15790	17129
ACTUAL	2272	4837	6254	7093	8073							

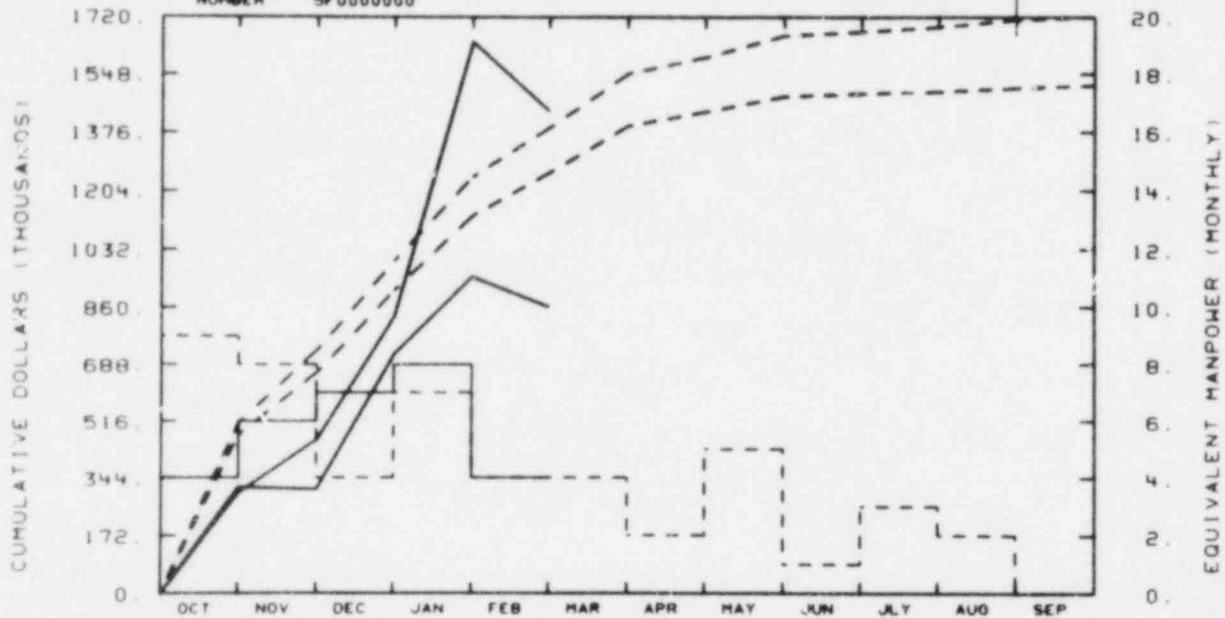
MANPOWER												
BUDGET	479	458	496	543	589	541	571	527	505	552	519	468
ACTUAL	554	582	585	585	559							

BUDGET  
-----  
ACTUAL  
\_\_\_\_\_

No significant variance.

EG&G IDAHO INC.  
LOFT - FOREIGN FUNDING

NUMBER SF0000000



TOTAL PROGRAM

BUDGET	510	731	999	1246	1390	1551	1599	1664	1675	1689	1711	1720
ACTUAL	316	310	718	951	863							

MATERIAL

BUDGET	474	663	911	1131	1258	1396	1437	1482	1490	1495	1508	1514
ACTUAL	298	458	832	1045	1442							

MANPOWER

BUDGET	9	8	4	7	4	4	2	5	1	3	2	0
ACTUAL	4	5	7	8	4							

BUDGET

ACTUAL

The year-to-date budget includes approximately \$422,000 of management reserve and contingency funds. Corrective action has begun.

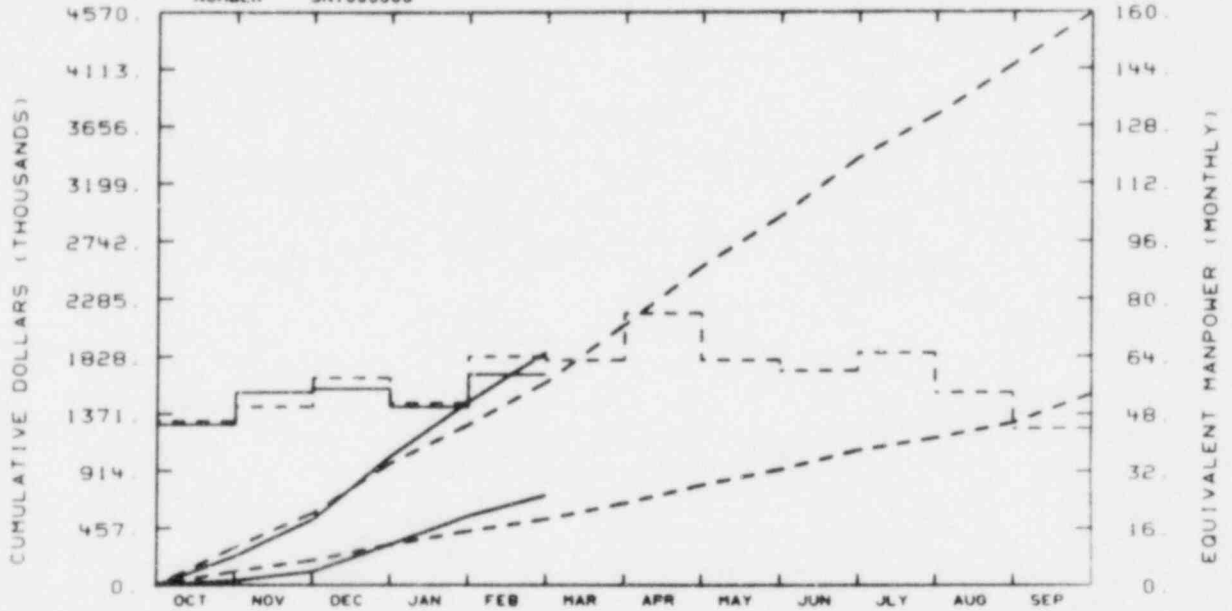
LOFT 189a Summary

5NX--NRC 189a

5FXX--Foreign 189a

EG&G IDAHO INC.  
 NRC 189A A6048 - EXPER PROGRAM

NUMBER 5N1000000



TOTAL PROGRAM

BUDGET	300	572	972	1282	1823	2080	2542	2935	3401	3743	4148	4563
ACTUAL	228	520	1025	1465	1861							

MATERIAL

BUDGET	109	194	320	428	525	651	798	923	1079	1179	1301	1529
ACTUAL	34	108	321	549	717							

MANPOWER

BUDGET	48	50	58	51	64	63	76	63	60	65	54	44
ACTUAL	45	54	55	50	58							

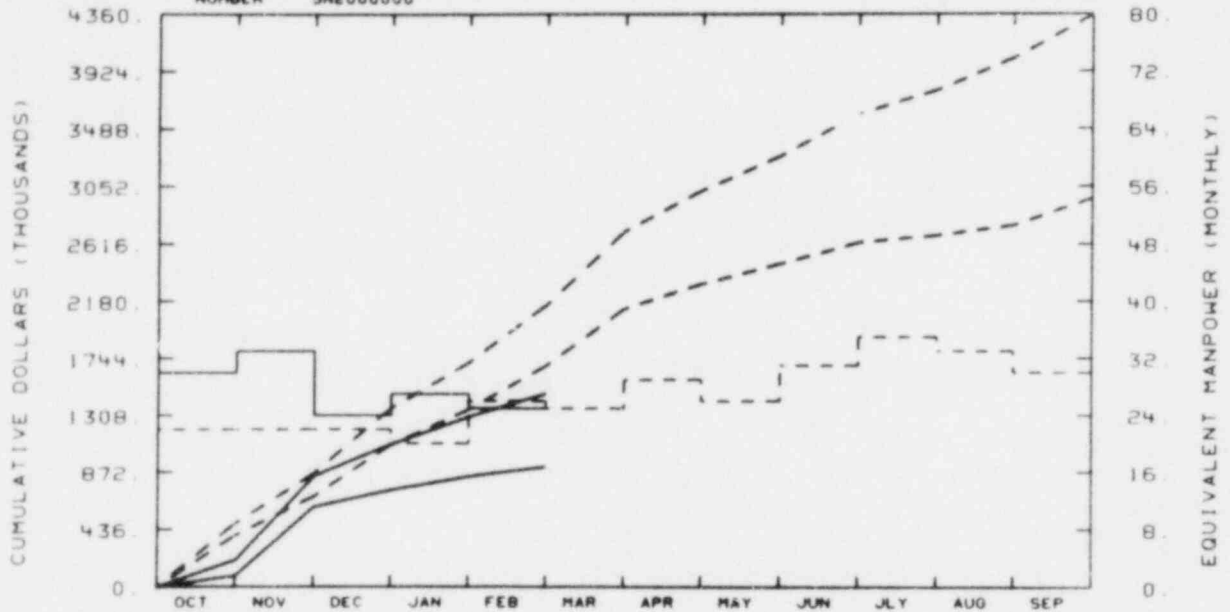
BUDGET

ACTUAL

The overrun is due to increased computer costs. Accounts will be monitored for corrective action.



EG&G IDAHO INC.  
 NRC 189A A6053 - FUEL  
 NUMBER 5N2000000



TOTAL PROGRAM												
BUDGET	479	858	1351	1712	2149	2712	3021	3283	3800	3781	4024	4355
ACTUAL	200	838	1082	1295	1473							

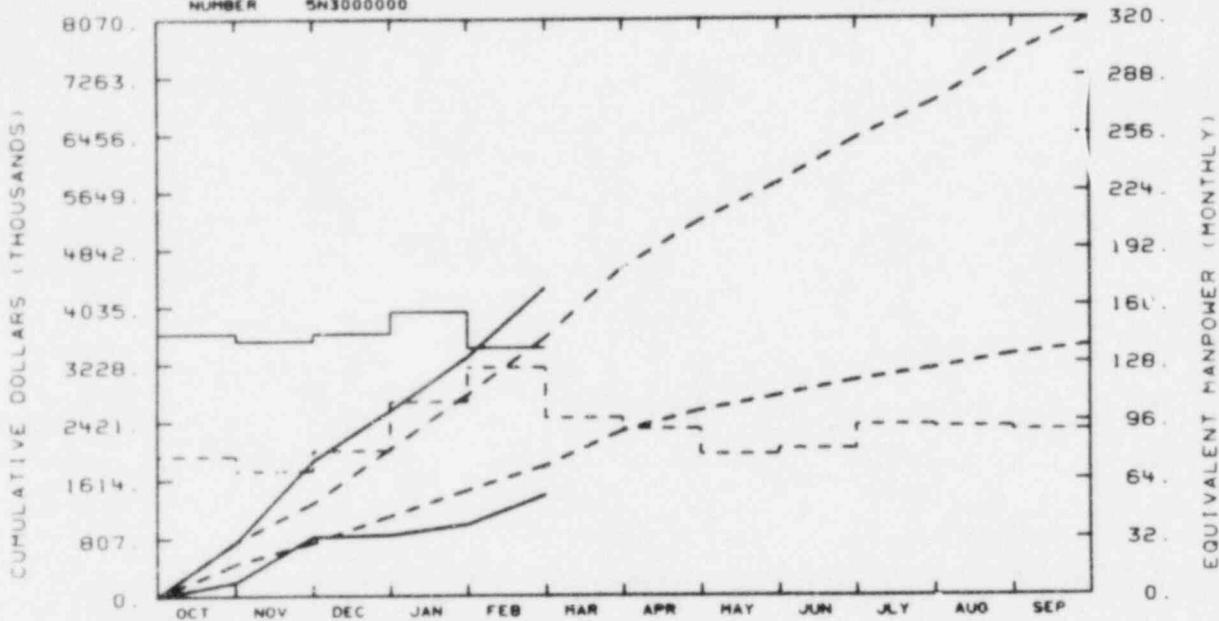
MATERIAL												
BUDGET	388	684	1080	1352	1688	2123	2311	2485	2626	2679	2757	2962
ACTUAL	83	602	730	836	910							

MANPOWER												
BUDGET	22	22	22	20	26	25	29	26	31	35	33	30
ACTUAL	30	33	24	27	25							

BUDGET  
 - - - - -  
 ACTUAL  
 \_\_\_\_\_

The underrun is caused by delays in fabricating centerline and zircaloy-sheathed thermocouples and supplier submittal of invoices for reload core II fuel bundle and upper support structure fabrication. Recovery by year-end is expected.

EG&G IDAHO INC.  
 NRC 189A A6043 - EXPER IN51K  
 NUMBER 5N3000000



TOTAL PROGRAM

BUDGET	752	1291	2041	2794	3601	4578	5243	5773	6398	6905	7568	8088
ACTUAL	748	1081	2577	3325	4301							

MATERIAL

BUDGET	446	737	1112	1466	1811	2290	2574	2780	2993	3155	3345	3472
ACTUAL	192	821	847	992	1405							

MANPOWER

BUDGET	77	69	80	107	126	98	92	78	91	94	93	91
ACTUAL	145	141	145	157	137							

BUDGET

ACTUAL

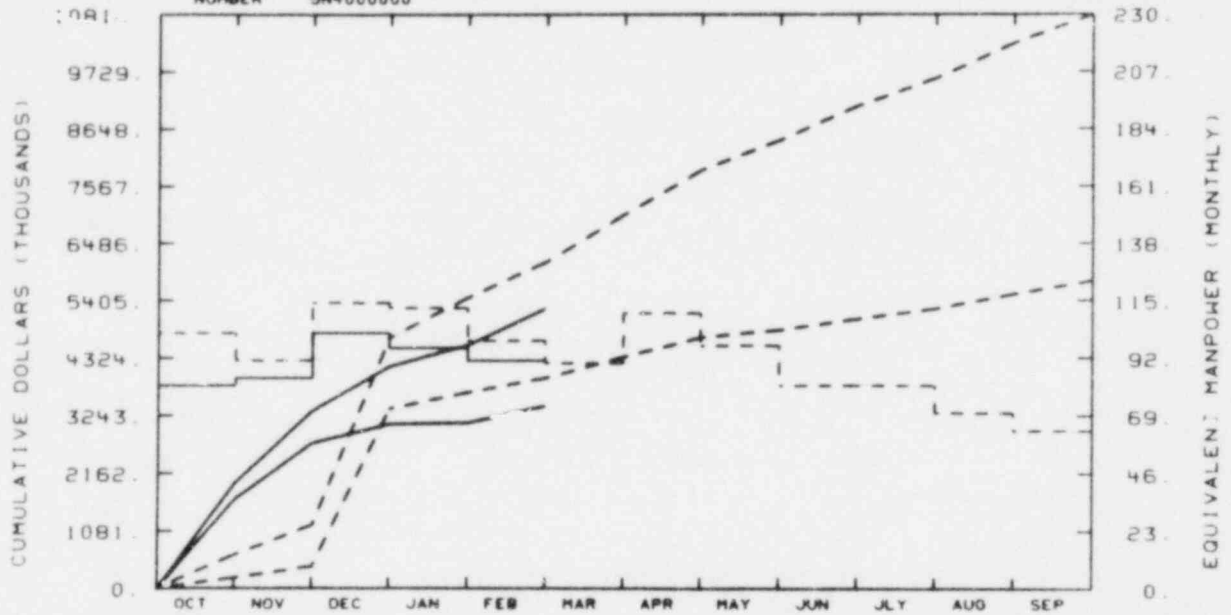
The year-to-date variance is a result of the following:

1. The reduction of this budget for items to be funded by other sources. The CCB's are in process, however the costs are being accumulated in this Schedule 189a
2. The mutual cost credit allocation to the 3-D and Semiscale programs is not reflected.

Upon completion of these realignments, targeted for March, the budget verses actual costs will be in better agreement.

EG&G IDAHO INC.  
 NRC 189A A6107 - PLANT SUPPORT

NUMBER 544000000



TOTAL PROGRAM												
BUDGET	628	1181	4699	5459	6129	7028	7872	8440	9088	9604	10268	10805
ACTUAL	1982	3325	4163	4564	5247							

MATERIAL												
BUDGET	199	407	3364	3676	3946	4347	4710	4852	5055	5248	5525	5776
ACTUAL	1678	2720	3077	3104	3420							

MANPOWER												
BUDGET	102	91	114	112	99	90	110	97	81	81	70	63
ACTUAL	81	84	102	96	91							

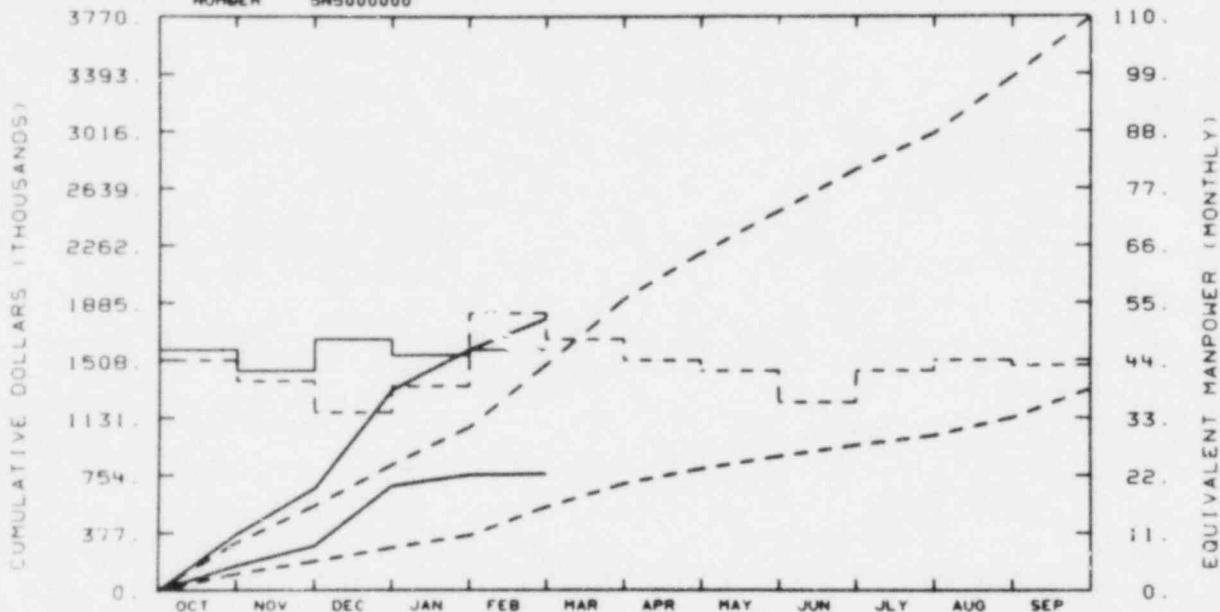
BUDGET  
 -----  
 ACTUAL  
 \_\_\_\_\_

The indicated underrun is associated primarily with work being delayed because of limitations in engineering manpower, work that was frontend loaded, and outstanding material commitments. Corrective action is being started.

EG&G IDAHO INC.

NRC 189A A6122 - CORE & SAFE SPT

NUMBER 5N5000000



TOTAL PROGRAM

BUDGET	310	551	820	1067	1478	1908	2211	2489	2785	3003	3374	3764
ACTUAL	366	664	1311	1575	1778							

MATERIAL

BUDGET	107	188	275	356	543	696	794	878	950	1014	1132	1319
ACTUAL	159	288	682	753	761							

MANPOWER

BUDGET	44	40	34	32	53	48	44	42	36	42	44	43
ACTUAL	46	42	48	45	46							

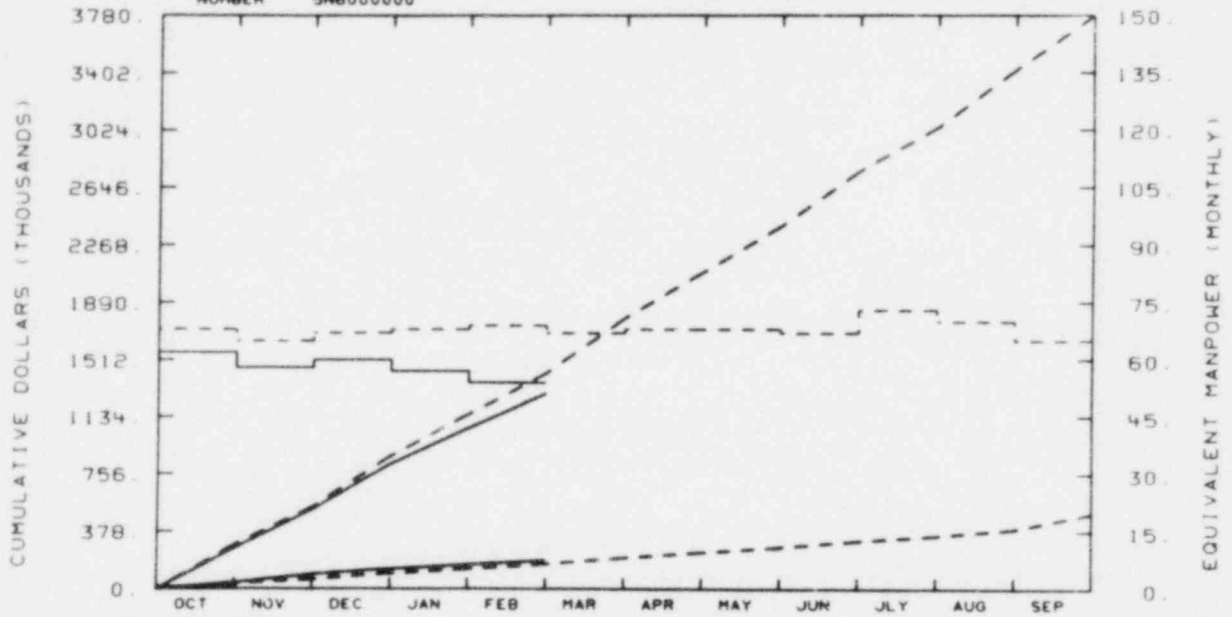
BUDGET

ACTUAL

The overrun has resulted primarily from computer costs being in excess of the budget for the initial small-break series safety calculations. Other variances from previous months have been largely resolved. A CCB action is being started to correct this problem.

EG&G IDAHO INC.  
 NRC 189A A6110 - COMMON SUPPORT

NUMBER 5N6000000



TOTAL PROGRAM												
BUDGET	290	537	872	1148	1424	1787	2089	2392	2755	3043	3422	3779
ACTUAL	267	520	820	1057	1290							

MATERIAL												
BUDGET	33	61	99	130	161	202	237	273	315	348	392	495
ACTUAL	39	96	130	157	186							

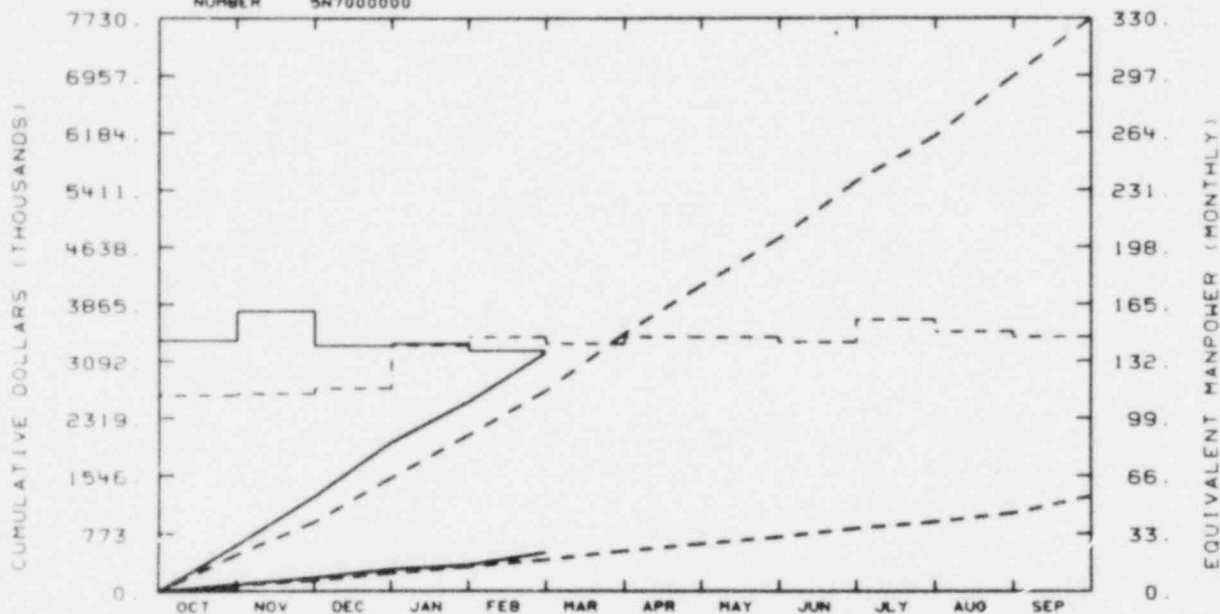
MANPOWER												
BUDGET	68	65	67	68	69	67	68	68	67	73	70	65
ACTUAL	62	58	60	57	54							

BUDGET  
 -----  
 ACTUAL  
 \_\_\_\_\_

No significant variance. Staffing actions have begun to correct deficiencies.

EG&G IDAHO INC.  
 NRC 189A A6054 - FACILITY OPER

NUMBER 5N7000000



TOTAL PROGRAM

BUDGET	486	922	1511	2084	2681	3466	4111	4756	5531	6144	6950	7726
ACTUAL	612	1264	1985	2537	3203							

MATERIAL

BUDGET	76	144	236	324	414	533	628	723	837	927	1046	1271
ACTUAL	87	179	288	344	512							

MANPOWER

BUDGET	112	113	116	141	146	142	146	146	143	156	149	146
ACTUAL	144	161	141	142	138							

BUDGET

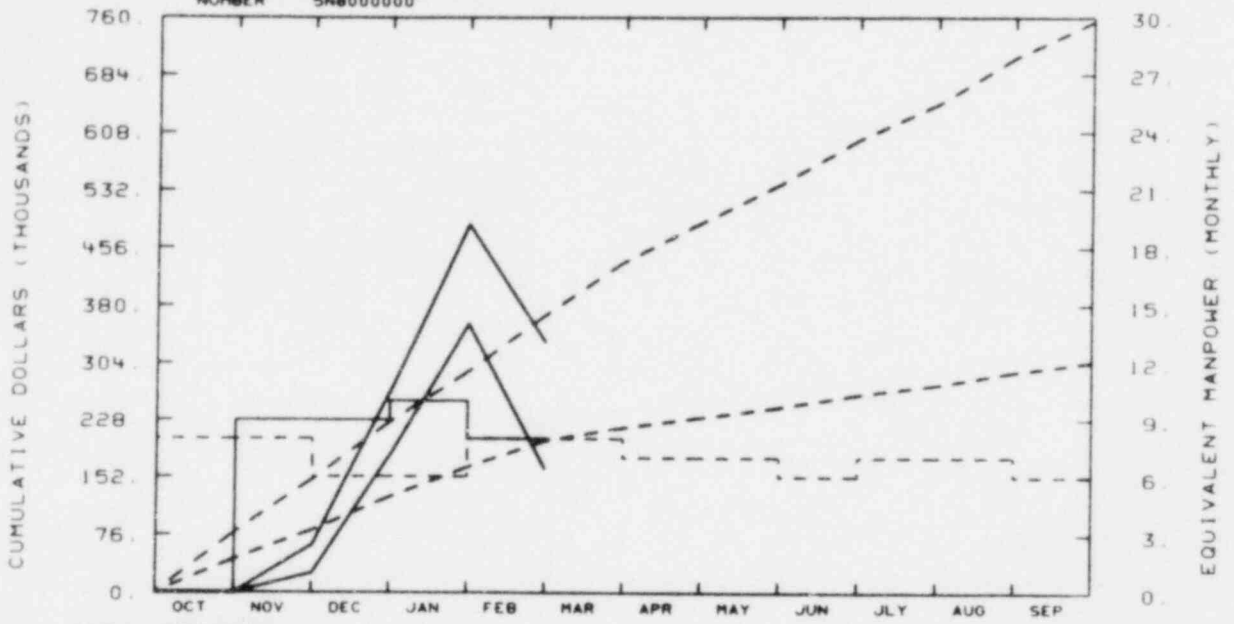
ACTUAL

Labor overruns in the first quarter of FY-80 were caused by extensive use of overtime to support the test schedule. It is anticipated that underruns in the balance of the year will correct the problem.

EG&G IDAHO INC.

A610B - AUGEM OPER CAPABILITY

NUMBER 5N8000000



TOTAL PROGRAM												
BUDGET	79	148	225	293	368	437	490	540	599	648	707	755
ACTUAL	0	62	266	487	332							

MATERIAL												
BUDGET	44	81	125	165	200	217	231	245	261	275	292	305
ACTUAL	0	25	180	356	162							

MANPOWER												
BUDGET	8	8	6	6	8	8	7	7	6	7	7	6
ACTUAL	0	9	9	10	8							

BUDGET

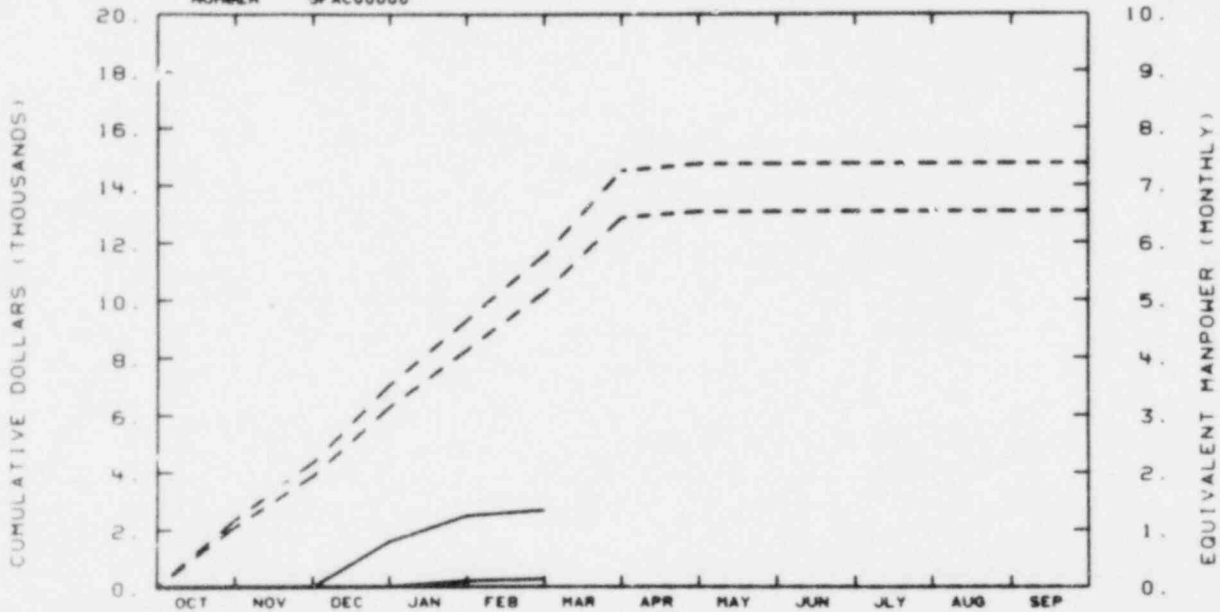
ACTUAL

No significant variance.

EG&G IDAHO INC.

A6273 - AUSTRIAN FUNDS

NUMBER SFAC00000



TOTAL PROGRAM

BUDGET	2	4	7	9	12	15	15	15	15	15	15	15
ACTUAL	0	0	2	2	3							

MATERIAL

BUDGET	2	4	6	8	10	13	13	13	13	13	13	13
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							

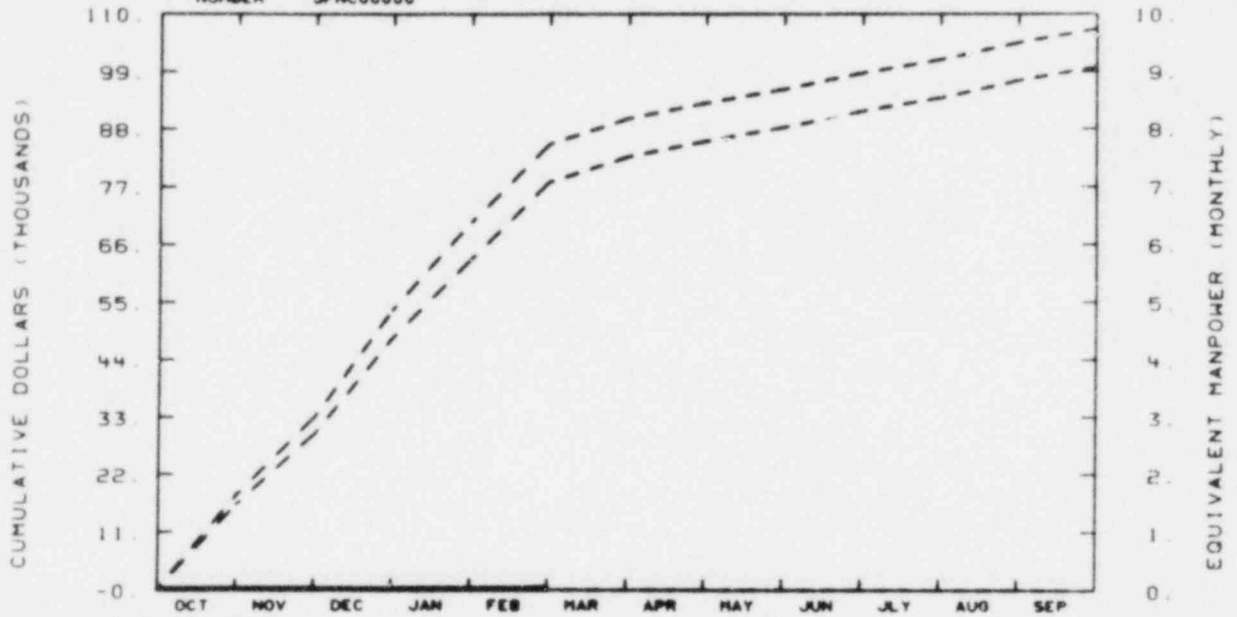
BUDGET

ACTUAL

The SGAE management task budget includes a \$12,000 management reserve. No significant variance.



EG&G IDAHO INC.  
 A6271 - NETHERLANDS FUNDS  
 NUMBER SFNC00000



TOTAL PROGRAM												
BUDGET	18	33	53	70	85	90	93	95	96	101	104	107
ACTUAL	0	0	0	0	0							

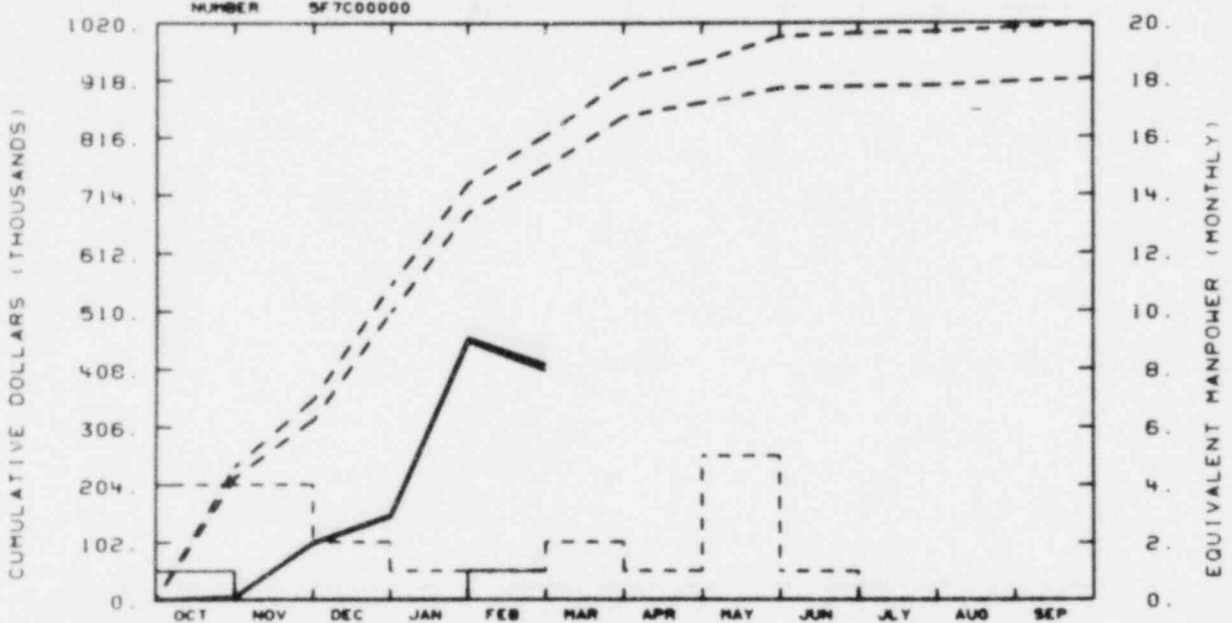
MATERIAL												
BUDGET	16	29	48	63	78	82	85	88	91	94	97	99
ACTUAL	0	0	0	0	0							

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

BUDGET  
 - - - -  
 ACTUAL  
 \_\_\_\_\_

The Netherlands management task budget includes a \$62,000 management reserve and contingency fund. No significant variance.

EG&G IDAHO INC.  
 A6104 - GERMAN FUNDS  
 NUMBER 5F7C00000



TOTAL PROGRAM

BUDGET	236	355	556	734	920	920	952	998	1002	1004	1011	1017
ACTUAL	6	102	150	463	417							

MATERIAL

BUDGET	218	319	509	682	763	853	878	904	908	908	915	920
ACTUAL	3	99	146	457	407							

MANPOWER

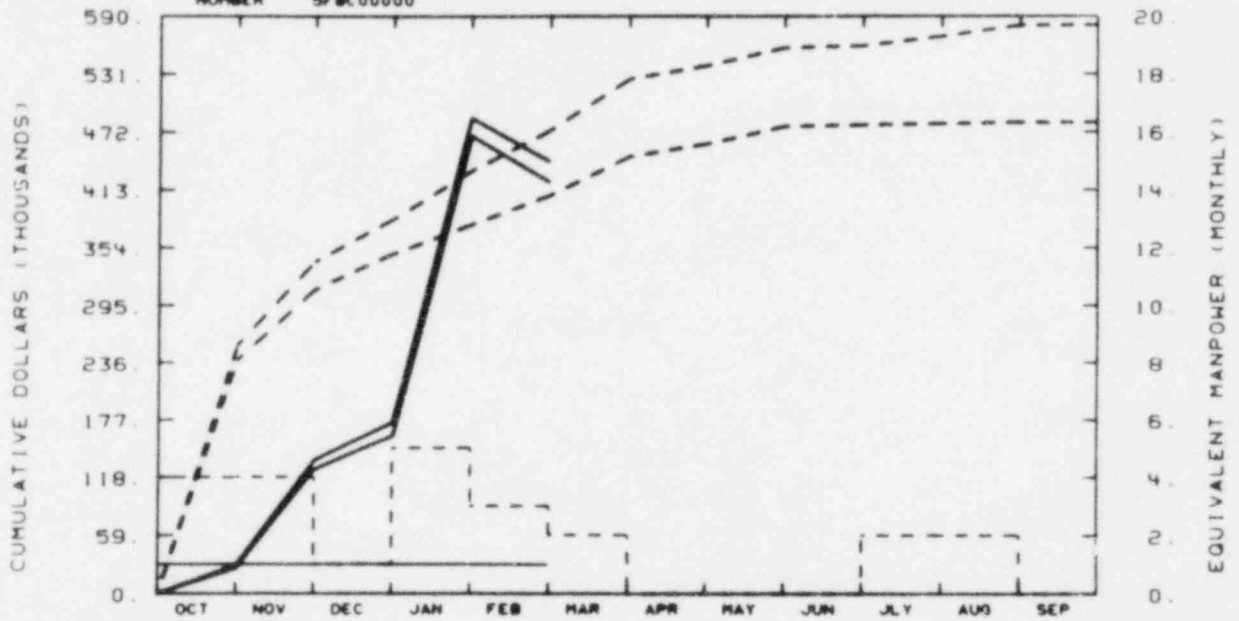
BUDGET	4	4	2	1	1	2	1	5	1	0	0	0
ACTUAL	1	0	0	0	1							

BUDGET  
 - - - - -  
 ACTUAL  
 \_\_\_\_\_

The FRG management task budget includes a \$350,000 management reserve and contingency fund. The year-to-date underrun is associated with delays in costs of the two-phase loop being properly charged, and work delayed due to changing priorities and the LOFT test schedule.

EG&G IDAHO INC.  
A6111 - JAPANESE FUNDS

NUMBER SFBC00000



TOTAL PROGRAM												
BUDGET	255	339	383	432	474	526	540	558	560	589	581	581
ACTUAL	29	135	174	487	443							

MATERIAL												
BUDGET	239	311	347	377	407	447	480	478	480	480	482	482
ACTUAL	25	126	160	489	422							

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

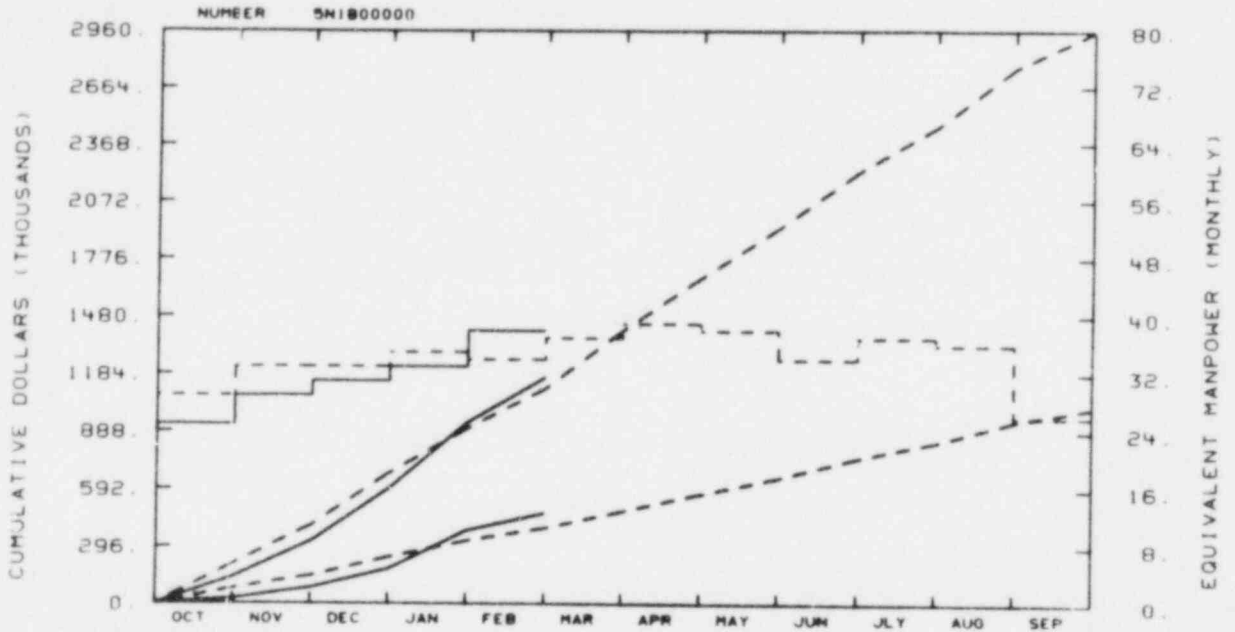
No significant variance. The JAERI management task budget includes a \$79,000 management reserve and contingency fund. The year-to-date underrun is associated with delays in costs of the two-phase loop being properly charged.

Summary Cost Accounts

5Nxx--NRC Summary Cost Accounts

5Fxxx--Foreign Summary Cost Accounts

EG&G IDAHO INC.  
EXPR PROG - PROGRAM PLAN & EVAL



TOTAL PROGRAM												
BUDGET	206	403	671	903	1109	1408	1677	1936	2230	2482	2768	2958
ACTUAL	138	322	590	932	1167							

MATERIAL												
BUDGET	78	144	240	326	391	479	568	652	753	835	943	1012
ACTUAL	26	82	179	379	488							

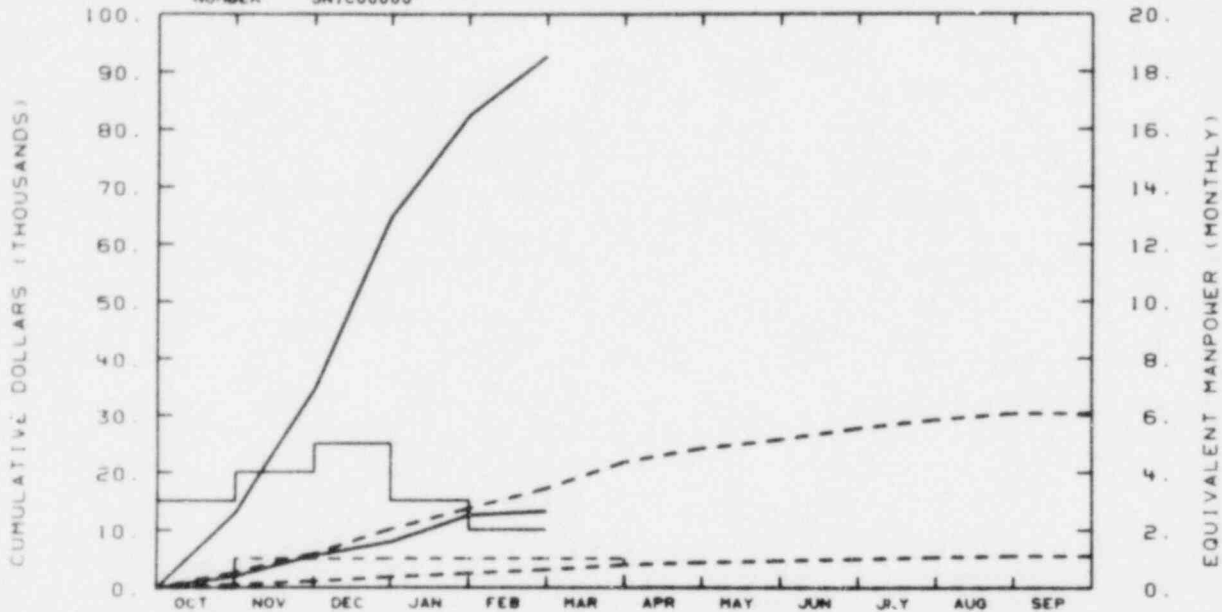
MANPOWER												
BUDGET	29	33	33	35	34	37	39	38	34	37	36	26
ACTUAL	25	29	31	33	38							

BUDGET  
-----  
ACTUAL  
\_\_\_\_\_

Excessive computer costs in January and early February required to plan a new small-break and operational transient program account for overruns. Also computer unavailability and excessive turnaround time required running computer jobs at higher priorities to meet schedule requirements. This, together with new computer charge algorithm resulted in higher than anticipated computer costs. Adjustments will be made to make budget and actuals agree at year-end.

EG&G IDAHO INC.  
 ELEC HEATER ROD EVAL

NUMBER 5N1C00000



TOTAL PROGRAM

BUDGET	3	5	10	14	17	22	24	26	28	29	30	30
ACTUAL	13	35	65	82	93							

MATERIAL

BUDGET	0	1	2	2	3	4	4	5	5	5	5	5
ACTUAL	2	5	8	12	13							

MANPOWER

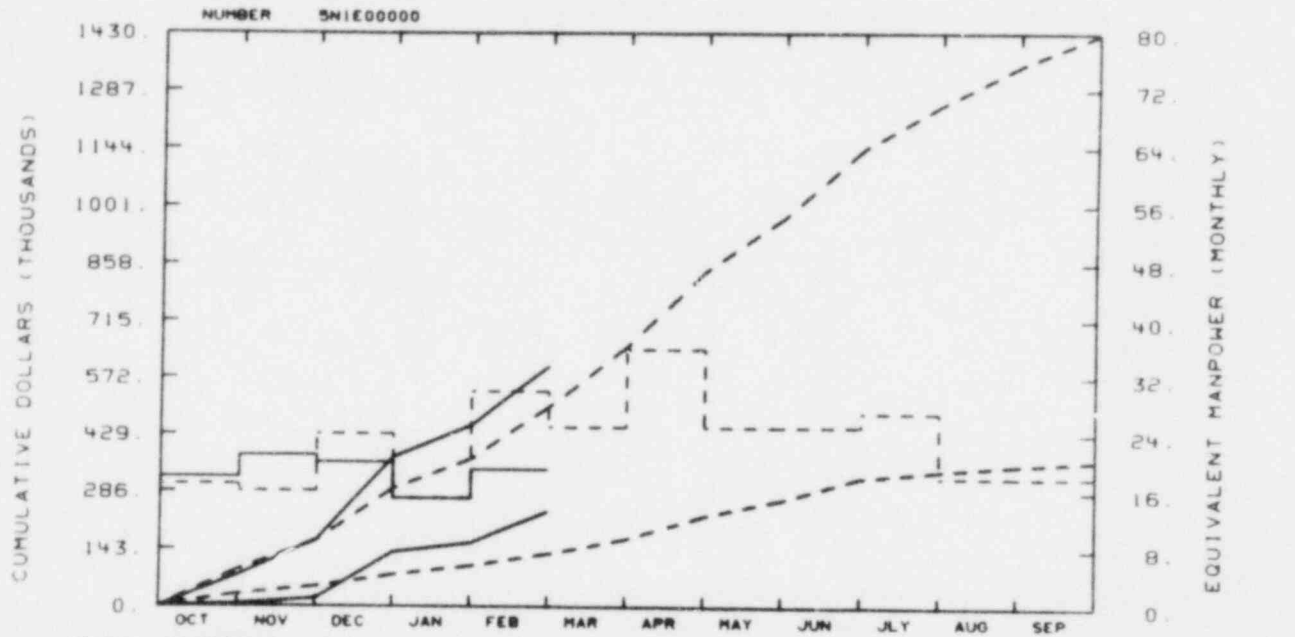
BUDGET	0	1	1	1	1	1	0	0	0	0	0	0
ACTUAL	3	4	5	3	2							

BUDGET

ACTUAL

The actual cost to date for the Swiss Reflood work is \$15,000. The costs shown above include \$75,000 of cost associated with the electric heater rod evaluation. The budget for the electric heater rod work was transferred to WRRD per CCB 80-48.

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



TOTAL PROGRAM

BUDGET	91	163	291	366	467	651	840	973	1143	1292	1349	1427
ACTUAL	77	164	370	451	601							

MATERIAL

BUDGET	30	49	78	100	131	168	226	266	320	338	353	364
ACTUAL	6	19	134	158	236							

MANPOWER

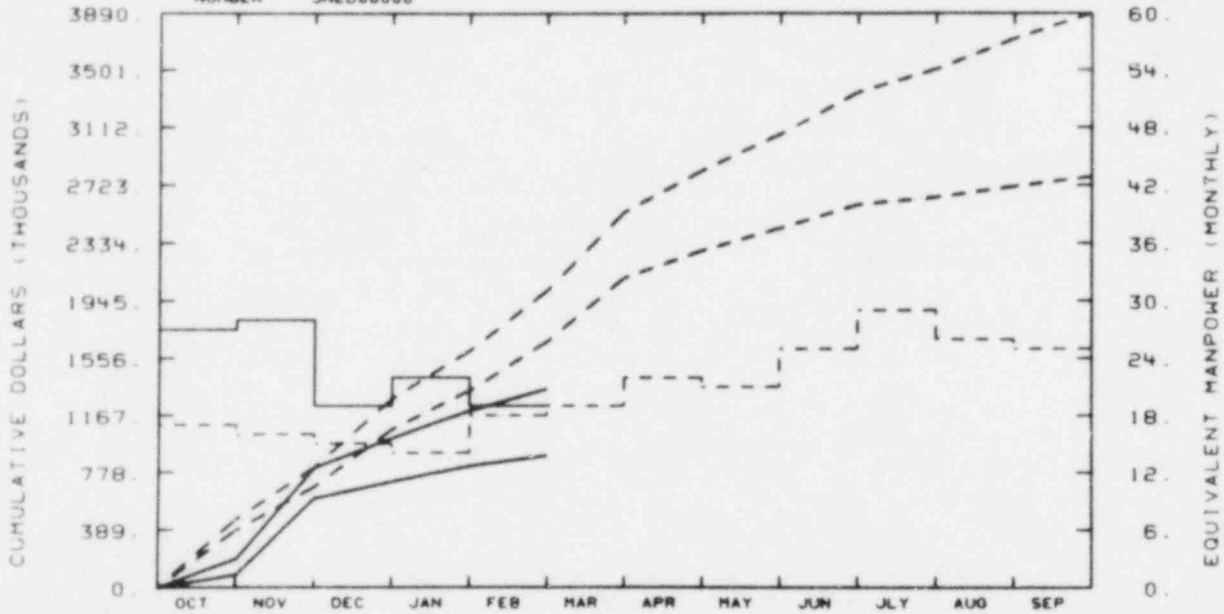
BUDGET	17	16	24	15	30	25	36	25	25	27	19	19
ACTUAL	18	21	20	15	19							

The costs for February remained fairly high due to the L3-2 test data processing. The overall costs will be more in line by May. These deviations are caused primarily by the increased computing costs and secondarily by the changes in schedule.

EG&G IDAHO INC.

FUEL - REFUEL DESIGN & ANALYSIS

NUMBER 5N2000000



TOTAL PROGRAM

BUDGET	458	809	1278	1606	2012	2543	2823	3084	3349	3507	3715	3888
ACTUAL	190	806	1008	1197	1345							

MATERIAL

BUDGET	384	676	1068	1336	1669	2100	2284	2434	2591	2641	2714	2780
ACTUAL	83	597	711	816	889							

MANPOWER

BUDGET	17	16	15	14	18	19	22	21	25	29	26	25
ACTUAL	27	28	19	22	19							

BUDGET

ACTUAL

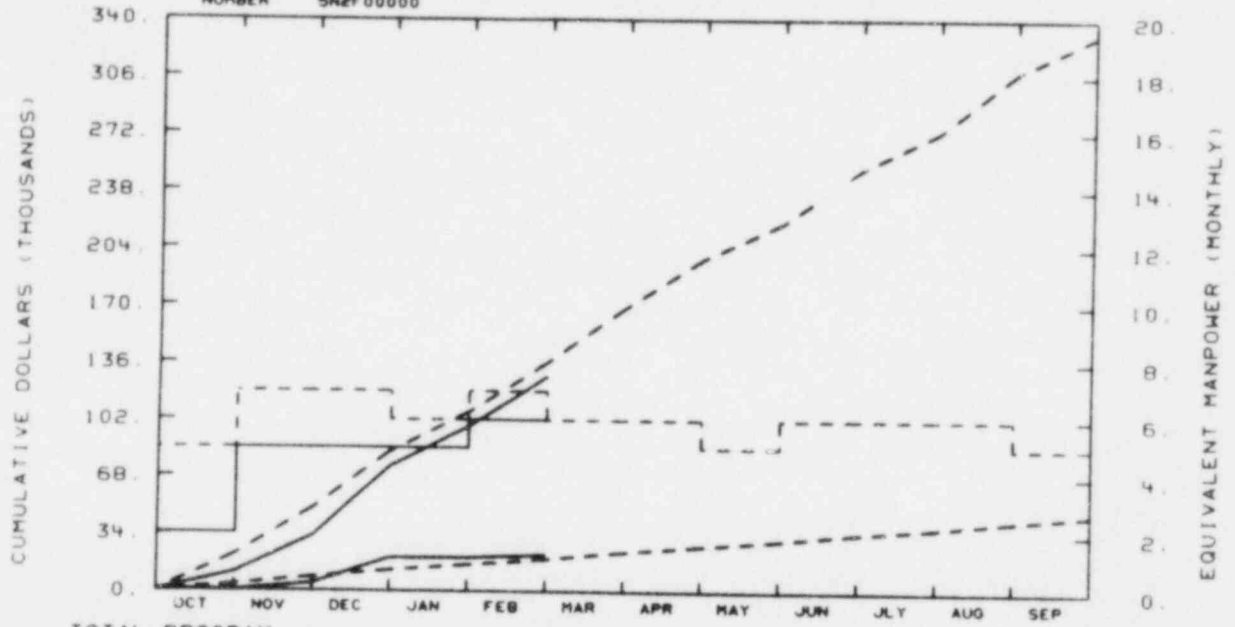
The underrun is caused by delays in fabricating centerline and zircaloy-sheathed thermocouples and supplier submittal of invoices for reload core II fuel bundle and upper support structure fabrication. Recovery by year-end is expected.



EG&G IDAHO INC.

POST TEST EXAM

NUMBER 5N2F00000



TOTAL PROGRAM

BUDGET	21	49	83	107	137	169	198	219	251	273	309	331
ACTUAL	11	32	74	98	128							

MATERIAL

BUDGET	4	8	12	15	19	23	27	30	35	38	42	46
ACTUAL	0	4	19	20	21							

MANPOWER

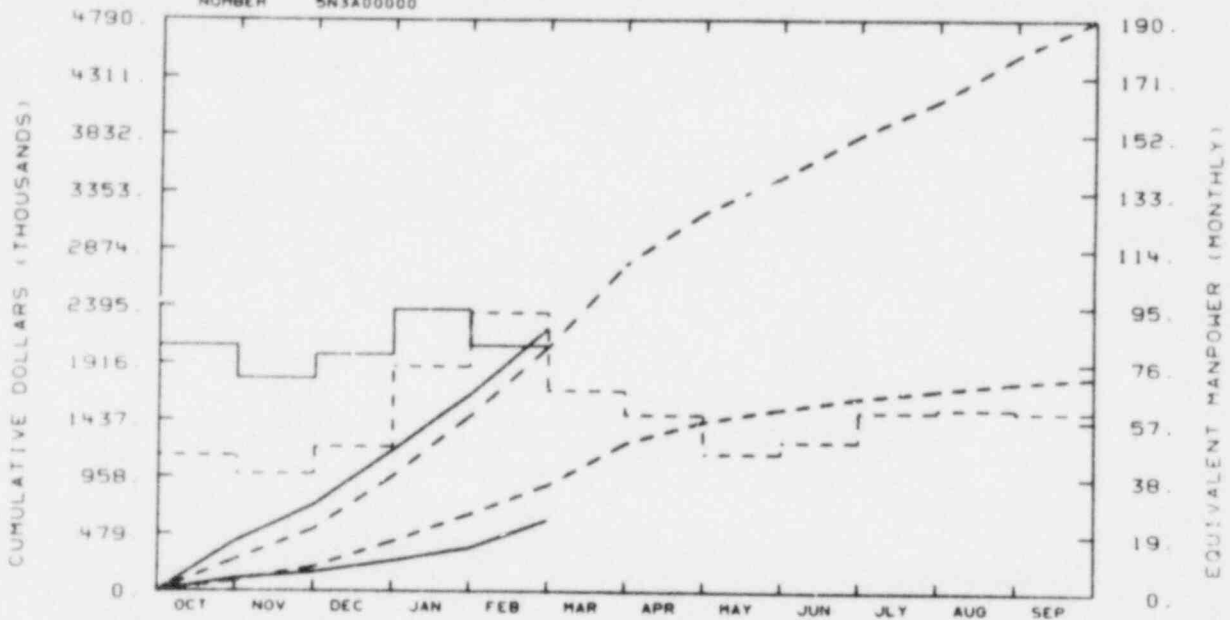
BUDGET	5	7	7	8	7	6	6	5	6	6	6	5
ACTUAL	2	5	5	5	6							

BUDGET  
-----  
ACTUAL

No significant variance.

EG&G IDAHO INC.  
 EXPR INST - EXPR MEAS BR 6:10

NUMBER 5N3A00000



TOTAL PROGRAM

BUDGET	262	517	959	1468	2058	2751	3186	3485	3833	4121	4493	4788
ACTUAL	416	721	1180	1652	2219							

MATERIAL

BUDGET	84	199	412	643	821	1246	1430	1537	1630	1698	1763	1807
ACTUAL	104	155	252	362	597							

MANPOWER

BUDGET	5	19	48	75	93	87	59	46	50	60	61	60
ACTUAL	62	71	79	94	82							

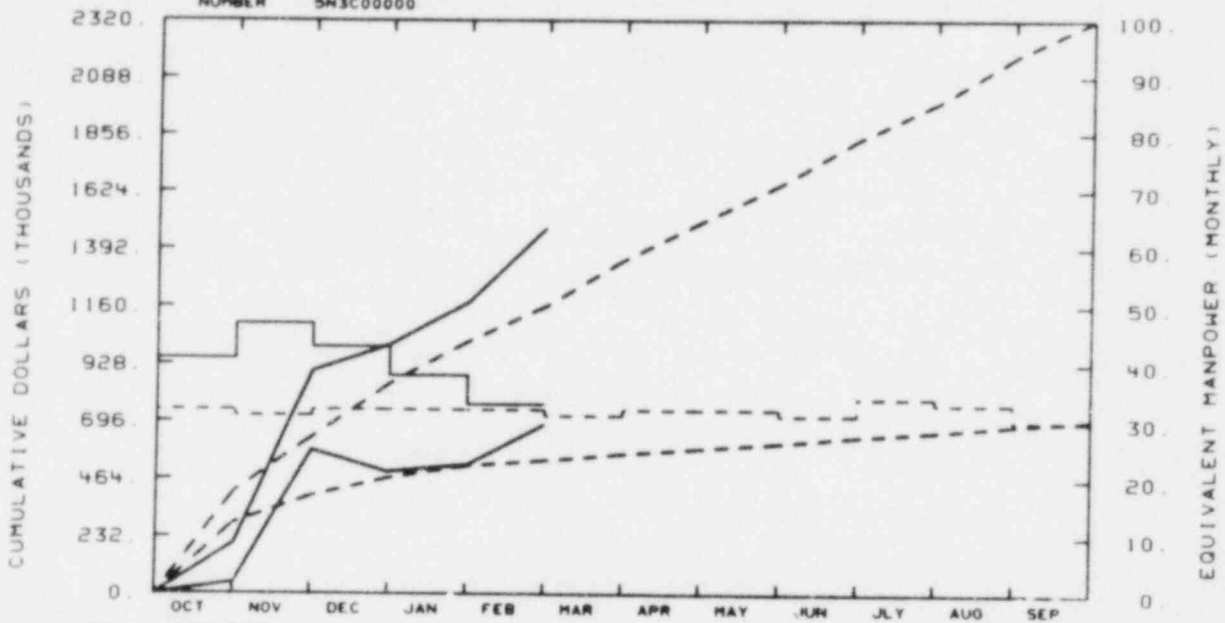
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.  
 EXPR INST - TEST SUPT BR 6140

NUMBER SN3C00000



TOTAL PROGRAM												
BUDGET	412	630	848	1018	1181	1348	1501	1654	1837	1983	2174	2320
ACTUAL	202	901	1008	1175	1476							

MATERIAL												
BUDGET	285	395	466	518	538	565	587	609	635	656	683	704
ACTUAL	44	580	491	520	683							

MANPOWER												
BUDGET	32	31	32	32	32	31	32	32	31	34	33	30
ACTUAL	41	47	43	38	33							

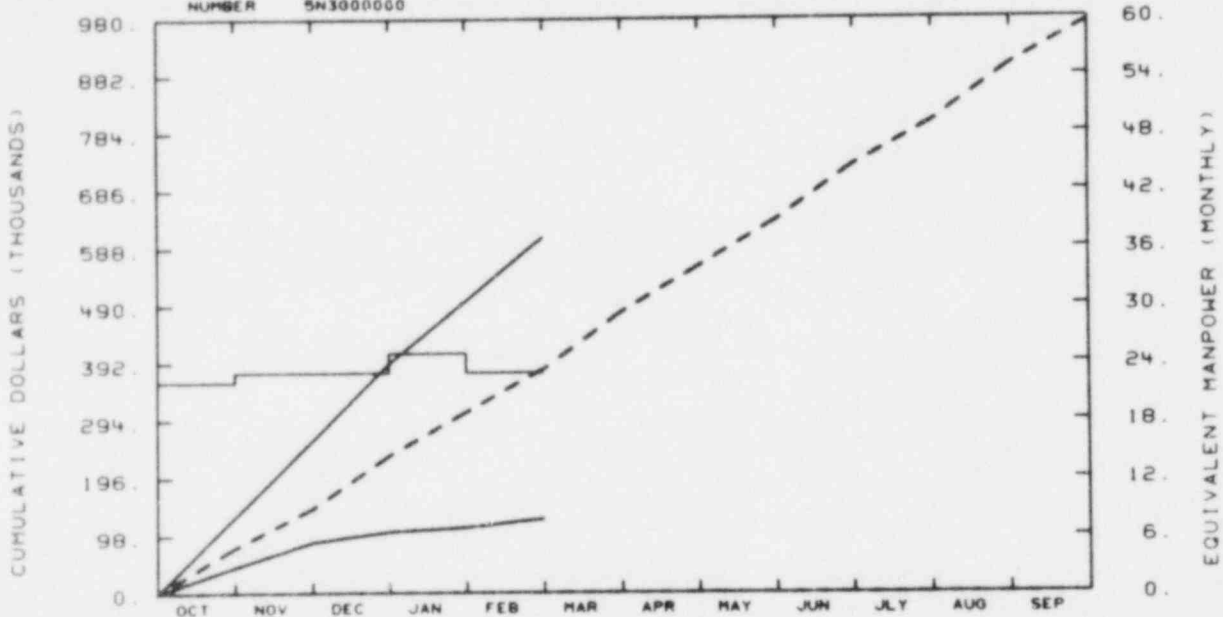
BUDGET - - - - -  
 ACTUAL - - - - -

The overrun was primarily consists \$230,000 of two-phase flow loop charges being costed here rather than in foreign-funded accounts. The additional branch overrun associated with work performed early. The rate of spending will be adjusted to balance by year-end.

EG&G IDAHO INC.

EXPR INST - ADVANCE INST BR 3720

NUMBER 5N3000000



TOTAL PROGRAM

BUDGET	78	144	234	307	381	479	557	634	728	802	899	973
ACTUAL	130	259	391	498	607							

MATERIAL

BUDGET	78	144	234	307	381	479	557	634	728	802	899	973
ACTUAL	45	87	104	111	125							

MANPOWER

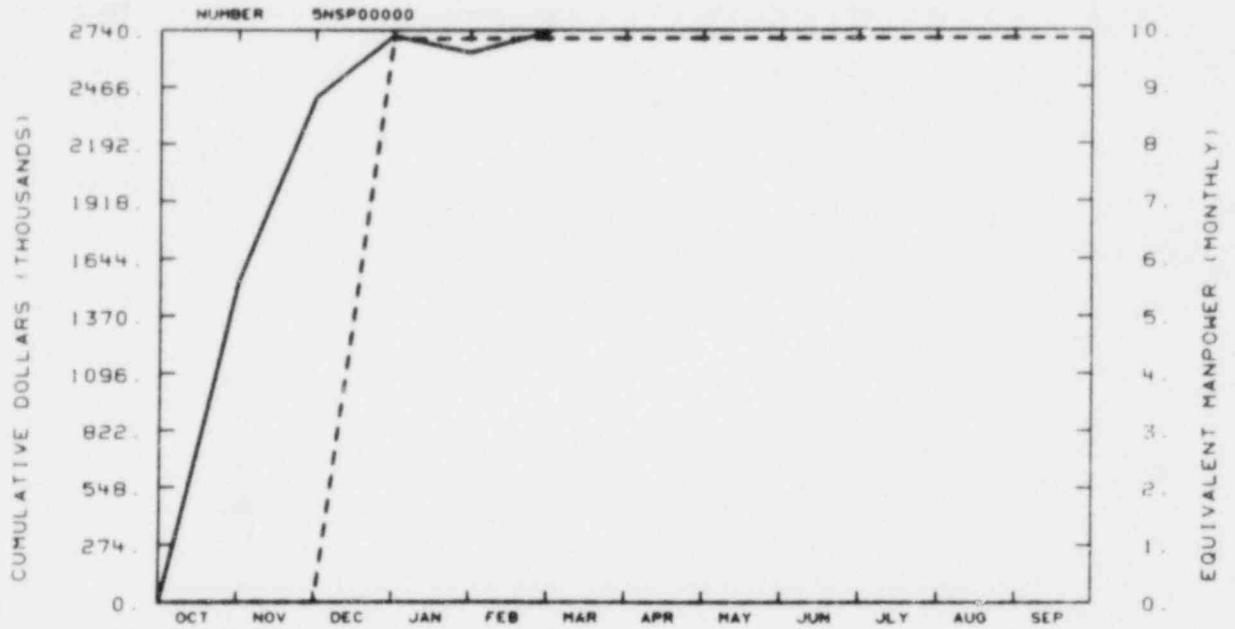
BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	22	23	23	25	23							

BUDGET

ACTUAL

A CCF is in process to reflect the current work scope. The cost allocation to Semiscale and 3-D will begin in March.

EG&G IDAHO INC.  
SPECIAL PROCESS SPARES



TOTAL PROGRAM												
BUDGET	0	0	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
ACTUAL	1535	2418	2713	2634	2730							

MATERIAL												
BUDGET	0	0	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
ACTUAL	1535	2418	2713	2634	2730							

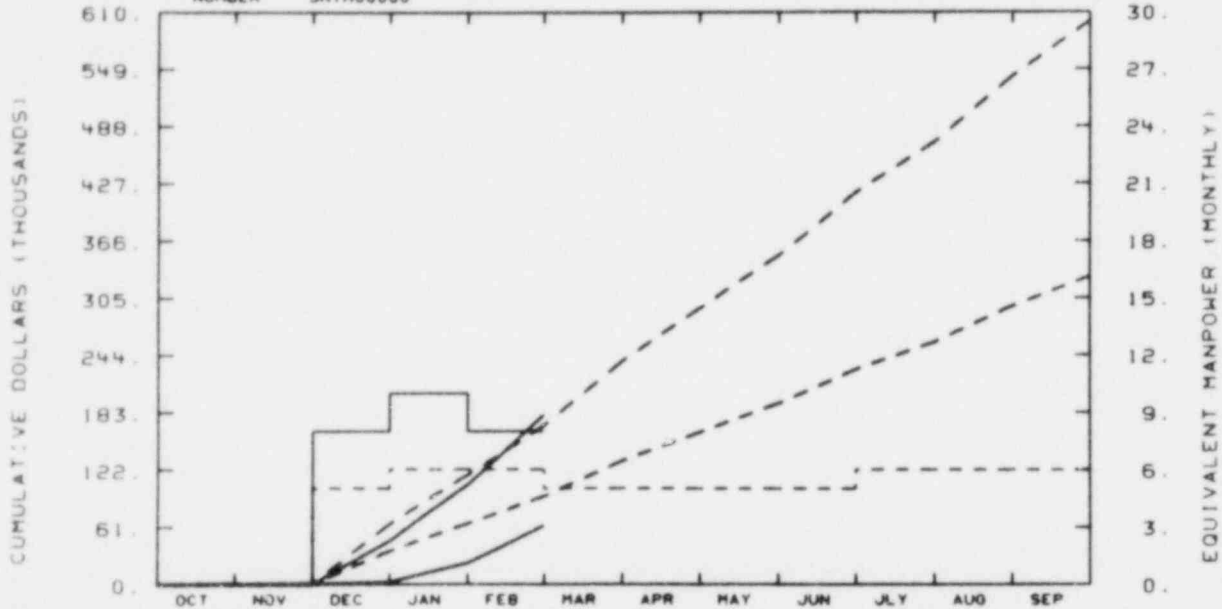
MANPOWER												
BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0	0							

BUDGET  
-----  
ACTUAL  
\_\_\_\_\_

No significant variance.

EG&G IDAHO INC.  
THREE MILE ISLAND SUPPORT

NUMBER 5NTH00000



TOTAL PROGRAM

BUDGET	0	0	64	118	169	238	294	350	418	471	541	600
ACTUAL	0	0	46	106	180							

MATERIAL

BUDGET	0	0	35	64	93	131	162	192	229	258	296	328
ACTUAL	0	0	2	22	62							

MANPOWER

BUDGET	0	0	5	6	6	5	5	5	5	6	6	6
ACTUAL	0	0	8	10	8							

BUDGET

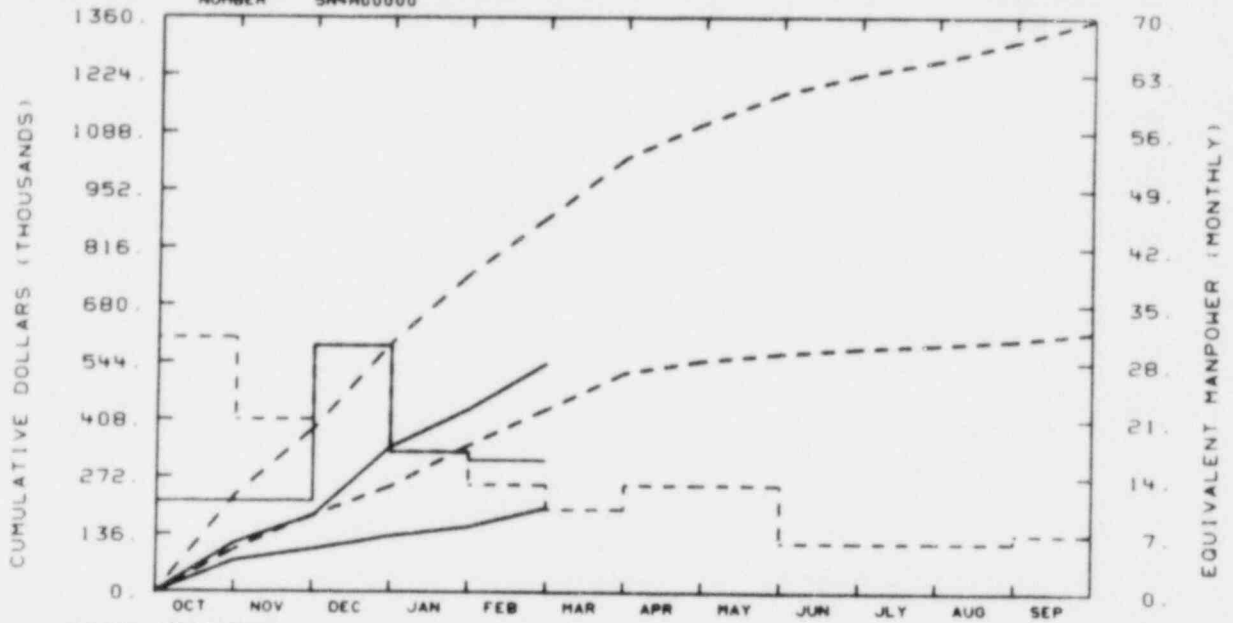
ACTUAL

No significant variance.

EG&G IDAHO INC.

PLANT SUPPORT - PLANT SYS NO 3

NUMBER 5NNH00000



TOTAL PROGRAM

BUDGET	226	385	590	753	889	1029	1110	1181	1226	1258	1303	1354
ACTUAL	115	178	342	432	542							

MATERIAL

BUDGET	99	179	247	346	433	519	549	565	578	587	597	616
ACTUAL	73	99	130	153	197							

HANPOWER

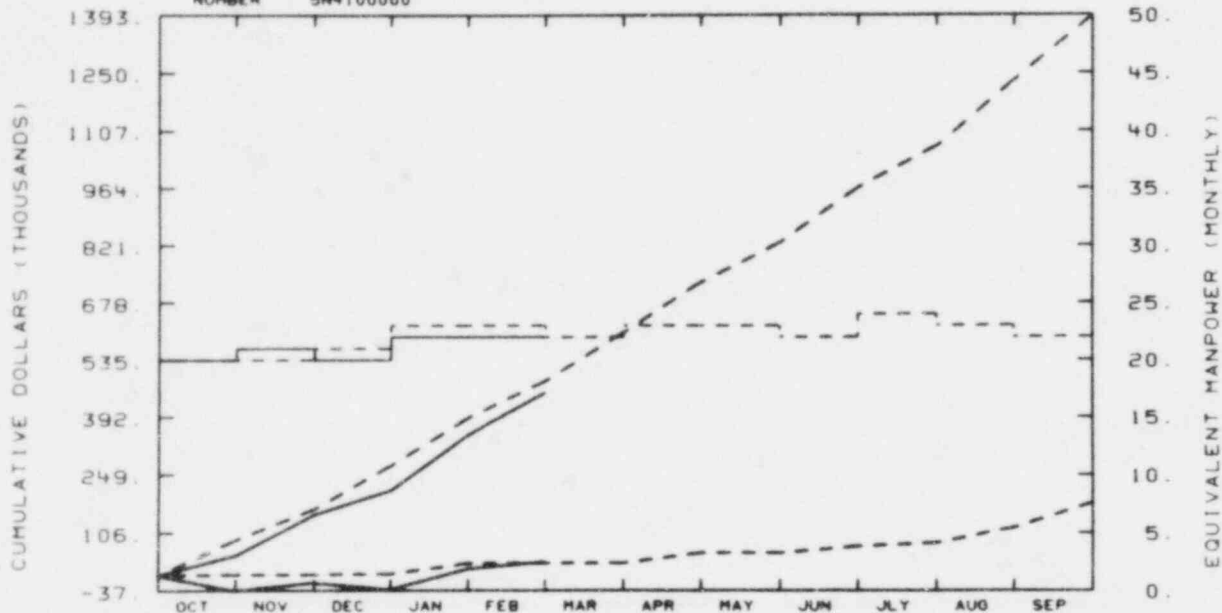
BUDGET	31	21	30	17	13	10	13	13	6	6	6	7
ACTUAL	11	11	30	17	18							

CCBs, 80-76 and 80-77 are in process to correct the frontend labor loading, returning approximately \$135,000 to management reserve. The remaining variance is attributed to accommodation of the variation in the test schedule. Preparations for the small-break break tests L3-4 and 5 should use the remaining current underrun.

EG&G IDAHO INC.

PLANT SUPPORT - PLANT SYS NO 1

NUMBER 5N4100000



TOTAL PROGRAM

BUDGET	87	163	270	389	482	603	728	829	966	1089	1232	1391
ACTUAL	49	149	208	346	453							

MATERIAL

BUDGET	1	2	3	29	30	30	55	55	71	80	117	180
ACTUAL	36	-17	-34	15	33							

MANPOWER

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

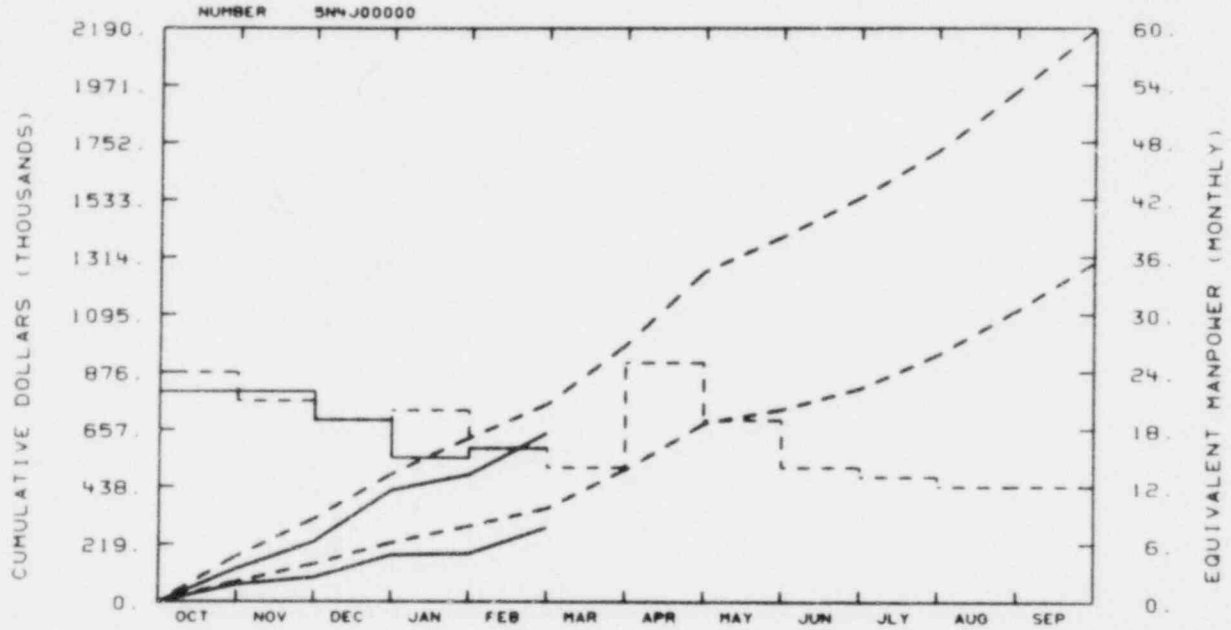
BUDGET

ACTUAL

No significant variance.



EG&G IDAHO INC.  
 PLANT SUPPORT - PLANT SYS NO 2



TOTAL PROGRAM												
BUDGET	173	314	485	624	754	979	1259	1391	1542	1719	1950	2185
ACTUAL	126	226	422	483	644							

MATERIAL												
BUDGET	77	142	222	285	353	502	680	755	814	941	1109	1293
ACTUAL	65	92	176	181	281							

MANPOWER												
BUDGET	24	21	19	20	16	14	25	19	14	13	12	12
ACTUAL	22	22	19	15	16							

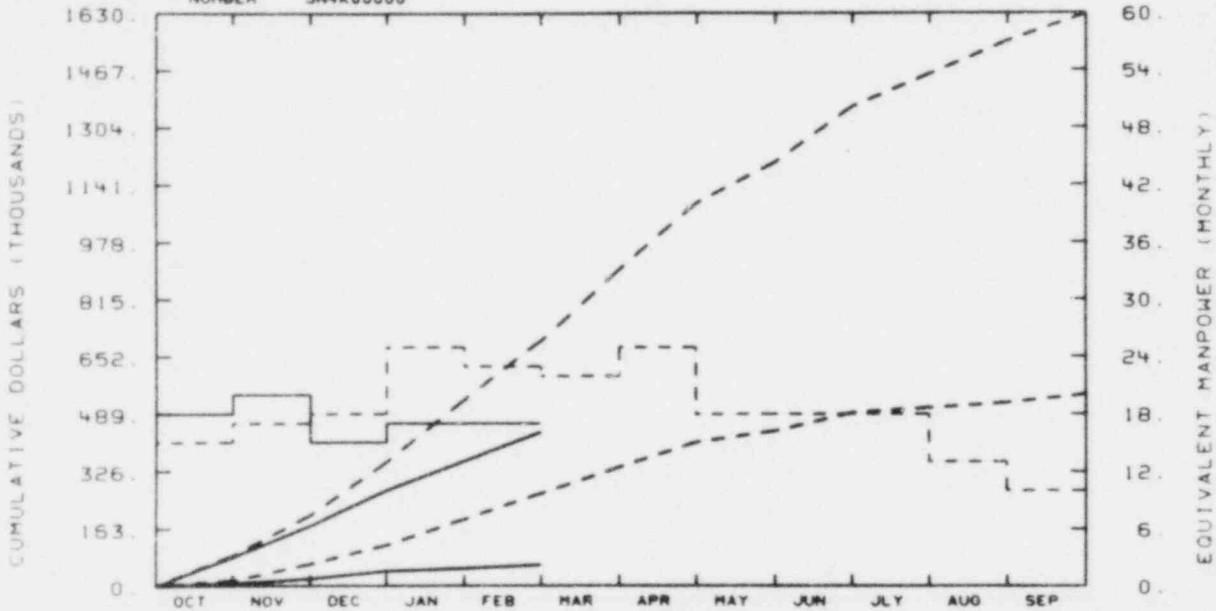
BUDGET  
 - - - -  
 ACTUAL  
 \_\_\_\_\_

The test schedule change caused a small support manpower depression and will be used through the upcoming work windows. Outstanding material commitments account for the remaining variance.

EG&G IDAHO INC.

PLANT SUPPORT - P&C REACTOR CONT

NUMBER 5N4K00000



TOTAL PROGRAM

BUDGET	88	200	351	530	699	903	1090	1208	1384	1456	1551	1627
ACTUAL	81	171	271	354	437							

MATERIAL

BUDGET	15	61	115	189	262	337	409	440	492	506	521	545
ACTUAL	7	20	41	49	59							

MANPOWER

BUDGET	15	17	18	25	23	22	25	18	18	18	13	10
ACTUAL	18	20	15	17	17							

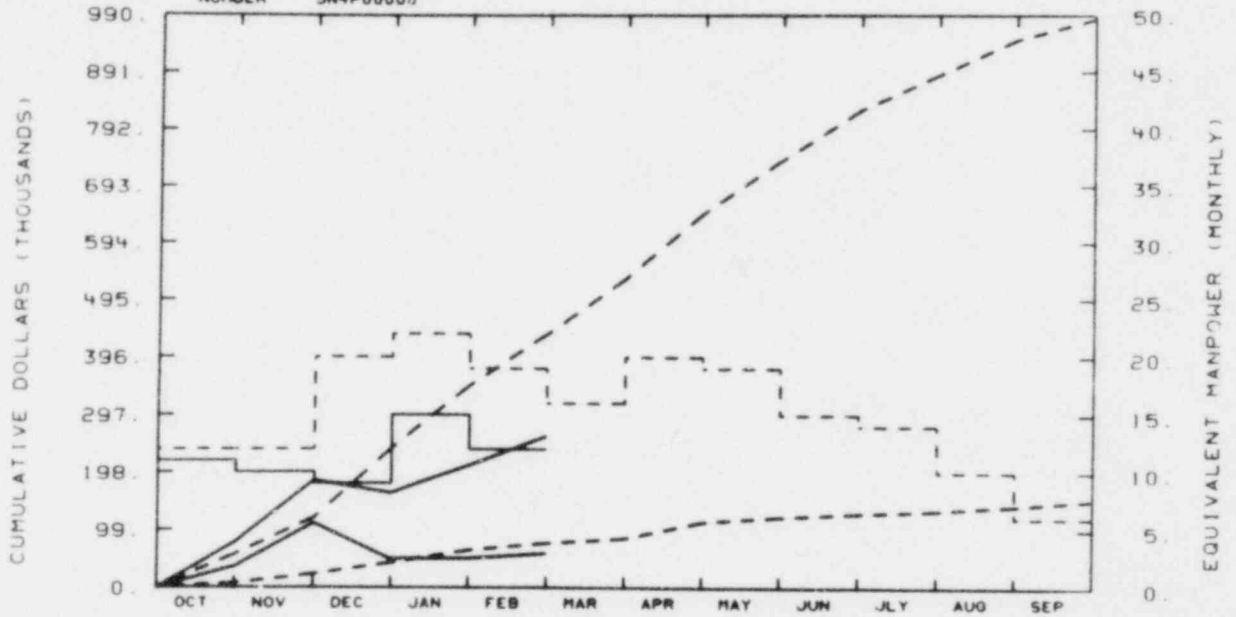
BUDGET

ACTUAL

The underrun is due principally to a delayed start on planned tasks (including procurement) because of an engineering manpower shortage. The scope of remaining work for FY-80 is under review at this time to determine needed corrective action.

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

NUMBER 5NHP00000



TOTAL PROGRAM		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP
BUDGET		56	119	239	348	436	532	648	739	826	887	948	983
ACTUAL		77	183	162	210	261							

MATERIAL		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP
BUDGET		7	23	42	64	75	84	112	121	127	132	141	151
ACTUAL		36	110	49	50	58							

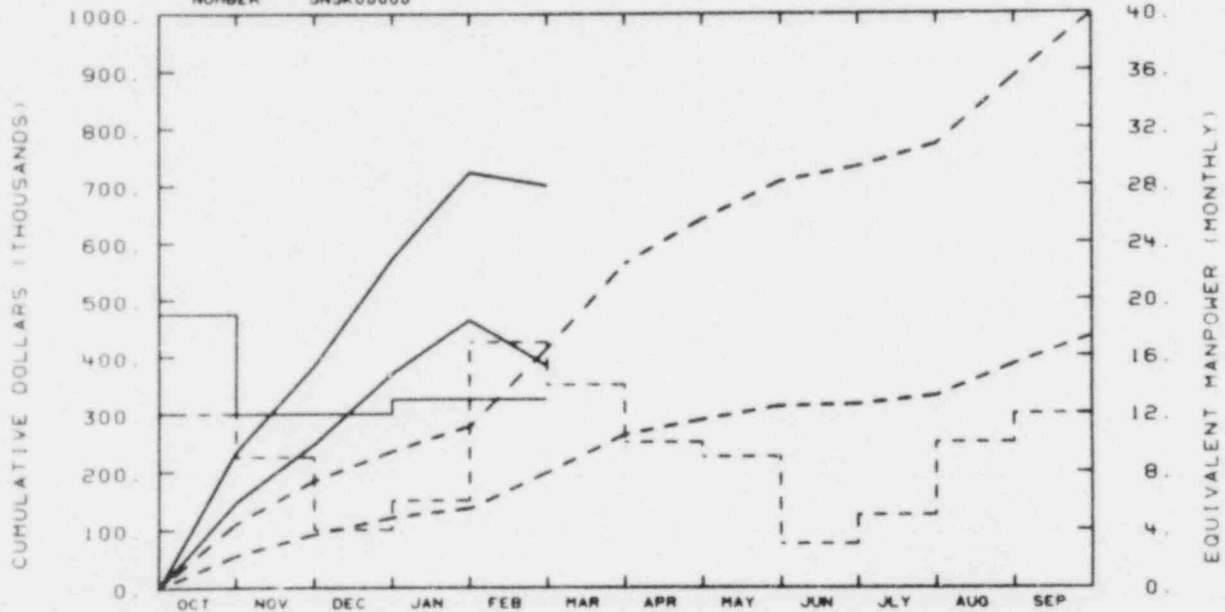
MANPOWER		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP
BUDGET		12	12	20	22	19	18	20	19	15	14	10	6
ACTUAL		11	10	9	15	12							

BUDGET -----  
 ACTUAL \_\_\_\_\_

See comment on 5N4K.

EG&G IDAHO INC.  
CORE & SAFETY SUPT - PROT & CONT

NUMBER 5N5K00000



TOTAL PROGRAM

BUDGET	110	184	234	277	415	564	641	707	733	772	890	998
ACTUAL	234	385	574	724	701							

MATERIAL

BUDGET	55	92	120	136	198	263	289	312	318	330	386	435
ACTUAL	147	247	370	464	385							

MANPOWER

BUDGET	12	9	4	6	17	14	10	9	3	5	10	12
ACTUAL	19	12	12	13	13							

BUDGET

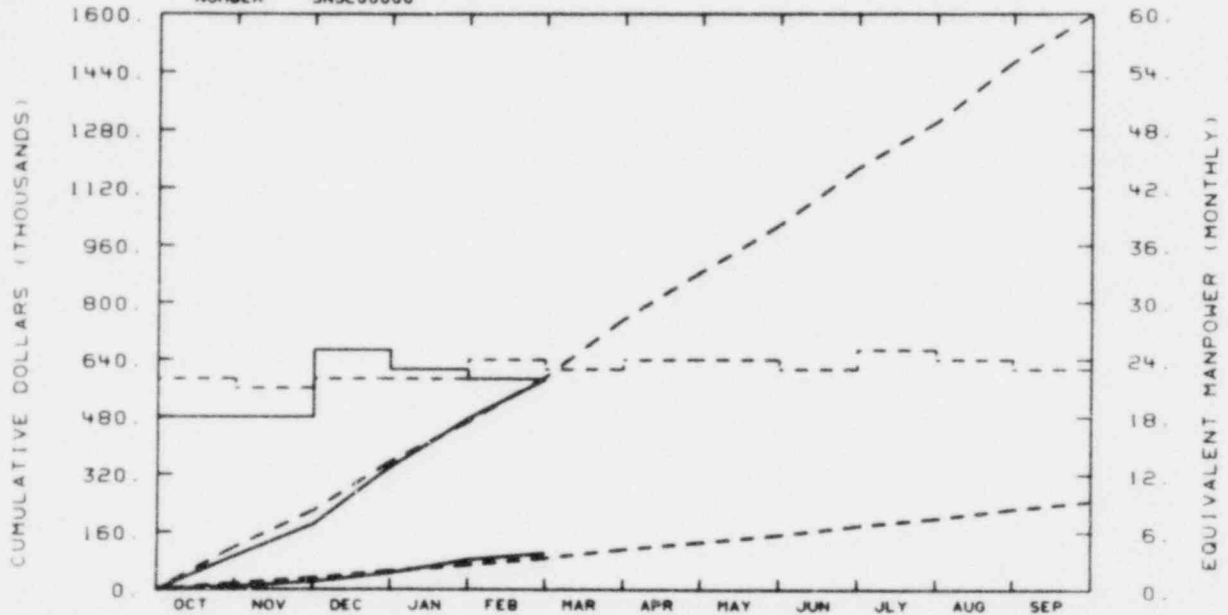
ACTUAL

The task is overrun primarily due to an inaccurate estimate of computer charges associated with small-break safety calculations. A CCB action is in preparation that more realistically projects the remaining small-break test safety calculation costs.

EG&G IDAHO INC.

CORE & SAFETY SUPT - REACTOR SYS

NUMBER 5M5L00000



TOTAL PROGRAM

BUDGET	118	218	354	466	591	753	886	1018	1175	1301	1467	1597
ACTUAL	93	180	339	475	585							

MATERIAL

BUDGET	17	32	51	66	87	111	132	152	177	198	225	246
ACTUAL	9	22	46	82	100							

MANPOWER

BUDGET	22	21	22	22	24	23	24	24	23	25	24	23
ACTUAL	18	18	25	23	22							

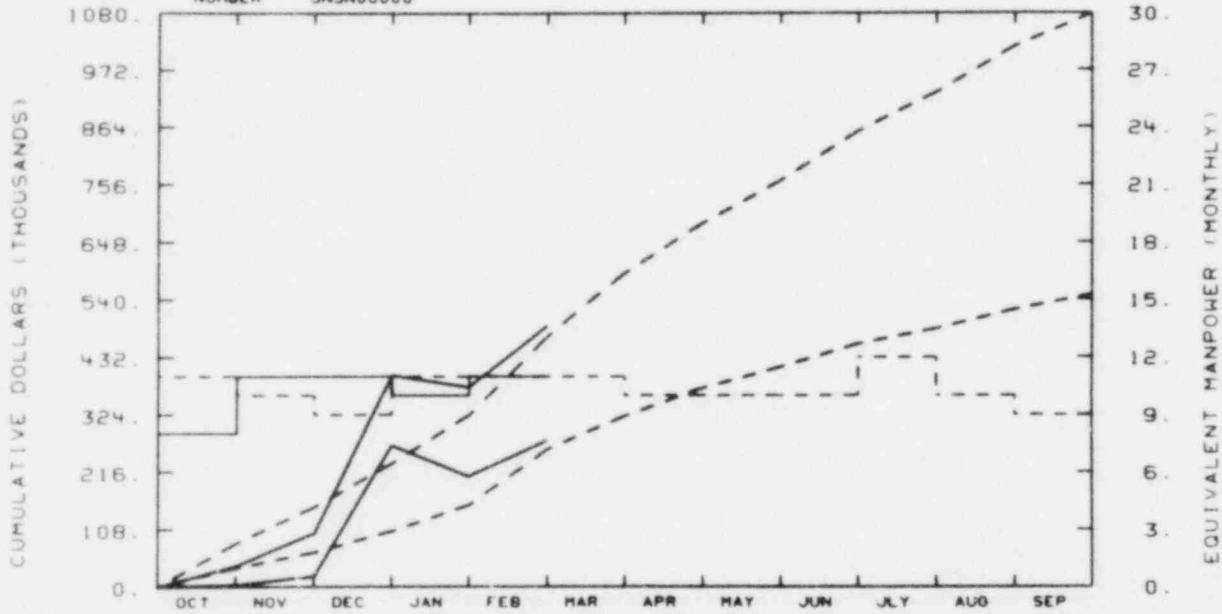
BUDGET  
-----  
ACTUAL  
\_\_\_\_\_

No significant variance.

EG&G IDAHO INC.

CORE & SAFE SUPT - FUEL ENG & OP

NUMBER 55N00000



TOTAL PROGRAM

BUDGET	81	149	231	323	472	591	804	784	857	930	1017	1079
ACTUAL	39	100	398	376	491							

MATERIAL

BUDGET	35	64	104	153	258	321	374	414	457	486	521	549
ACTUAL	3	19	266	208	275							

MANPOWER

BUDGET	11	10	9	11	11	11	10	10	10	12	10	9
ACTUAL	8	11	11	10	11							

BUDGET

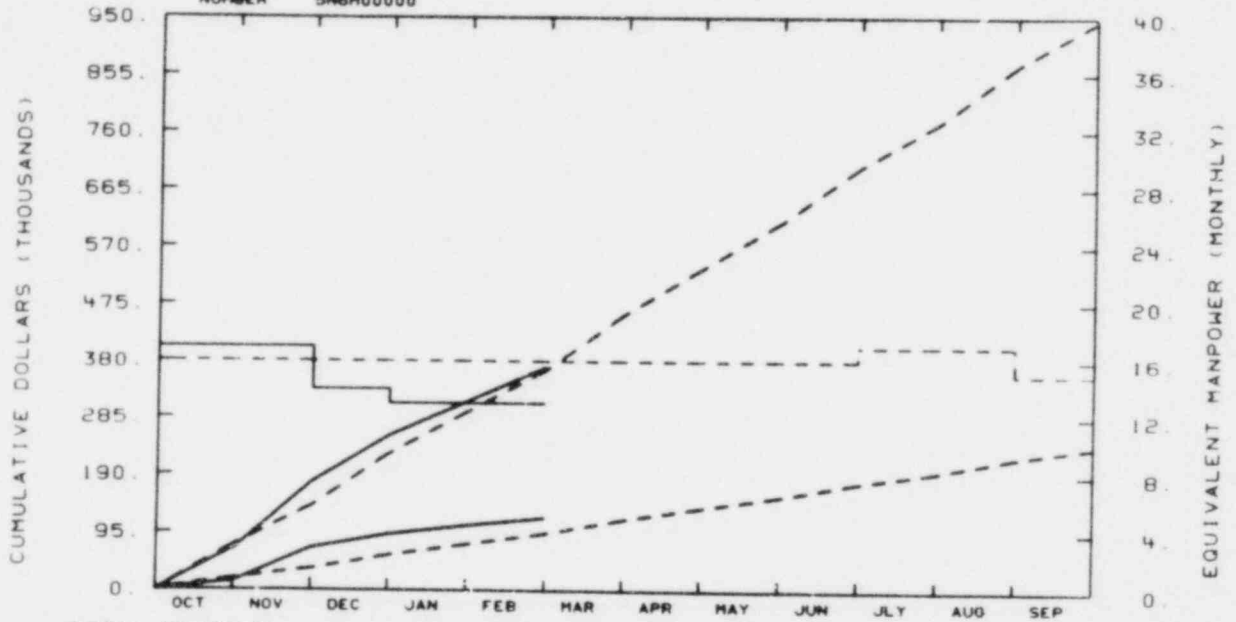
ACTUAL

The budget overrun is specifically due to task 55N9468. This task overran when the Hot Shop spent \$180,000 in two months for fuel examination. The present \$19,000 overrun is a result of the \$180,000 charge and task 55N9441, which is ahead of schedule.

EG&G IDAHO INC.

COMMON SUPT - CDCS/TECH SUPPORT

NUMBER 5N6H00000



TOTAL PROGRAM												
BUDGET	74	138	224	294	365	458	535	611	703	775	871	943
ACTUAL	68	177	254	312	370							

MATERIAL												
BUDGET	19	35	57	75	93	117	136	155	178	196	219	238
ACTUAL	14	69	92	106	119							

MANPOWER												
BUDGET	16	16	16	16	16	16	16	16	16	17	17	15
ACTUAL	17	17	14	13	13							

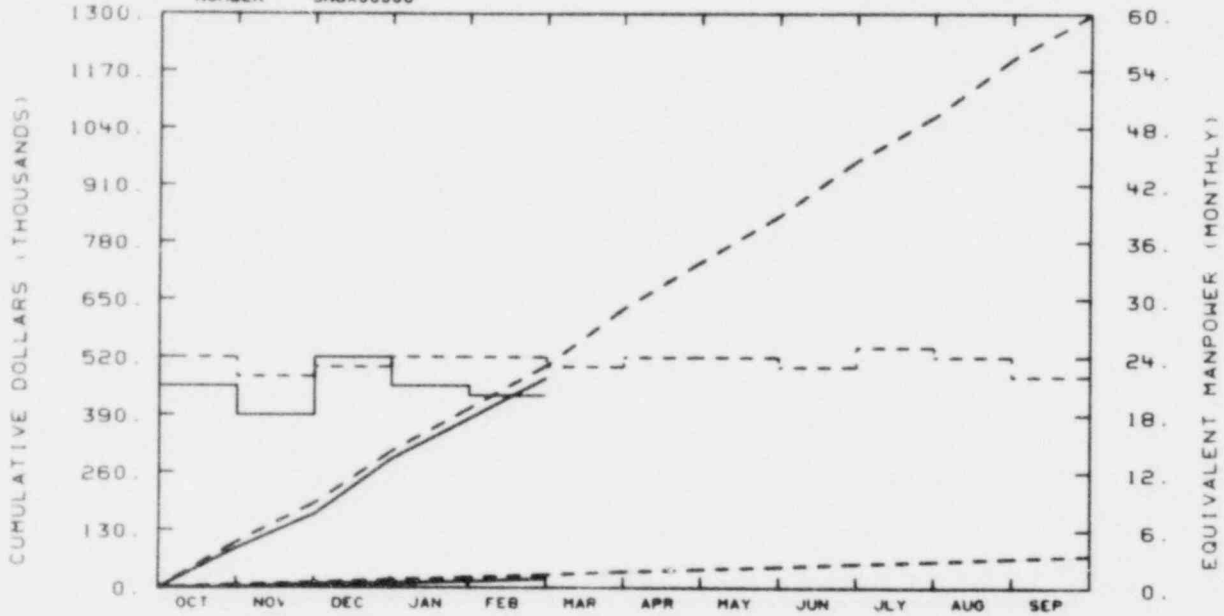
BUDGET  
-----  
ACTUAL  
\_\_\_\_\_

No significant variance. A personnel shortage is causing manpower to move below the budget line. Action to fill vacancies is in process.

EG&G IDAHO INC.

COMMON SUPT - QUALITY

NUMBER 5N6X00000



TOTAL PROGRAM

BUDGET	102	189	307	404	501	629	734	839	968	1086	1197	1298
ACTUAL	88	164	289	381	473							

MATERIAL

BUDGET	6	11	17	23	29	36	42	47	54	60	67	73
ACTUAL	1	8	10	14	20							

MANPOWER

BUDGET	24	22	23	24	24	23	24	24	23	25	24	22
ACTUAL	21	18	24	21	20							

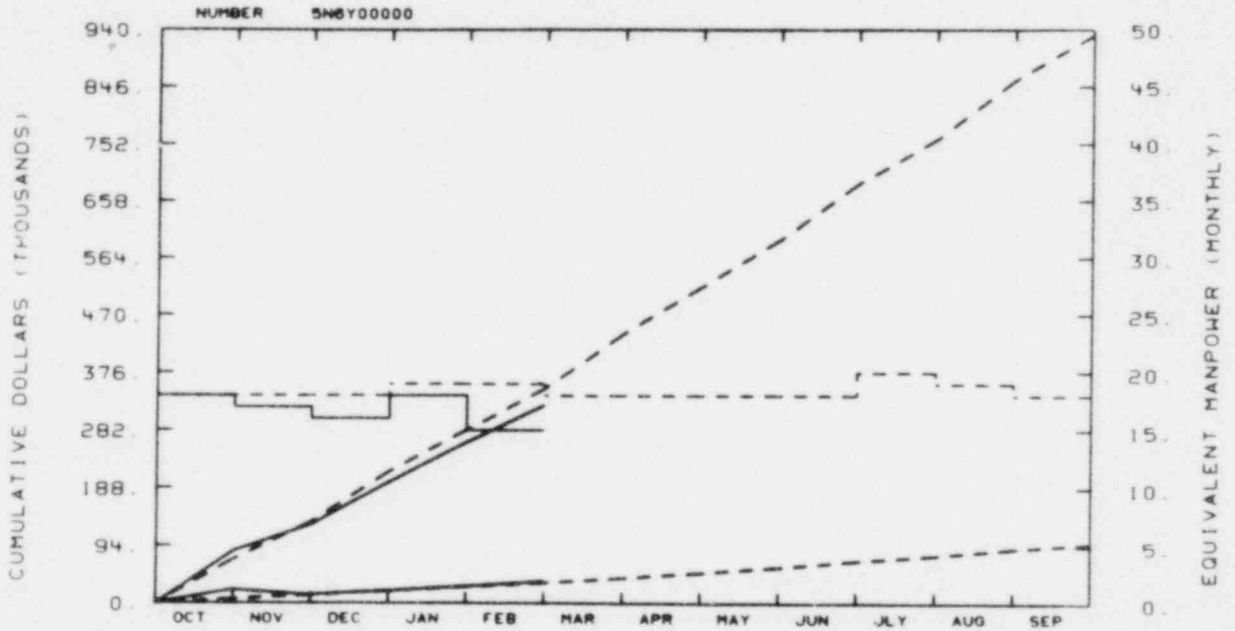
BUDGET

ACTUAL

The underrun is a result of not staffing to the level reflected in the budget. Action has begun to fill the vacancies.



EG&G IDAHO INC.  
COMMON SUPT - PLANS & BUDGETS



TOTAL PROGRAM		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET		71	132	214	282	350	439	518	594	687	760	857	931
ACTUAL		84	128	197	262	323							

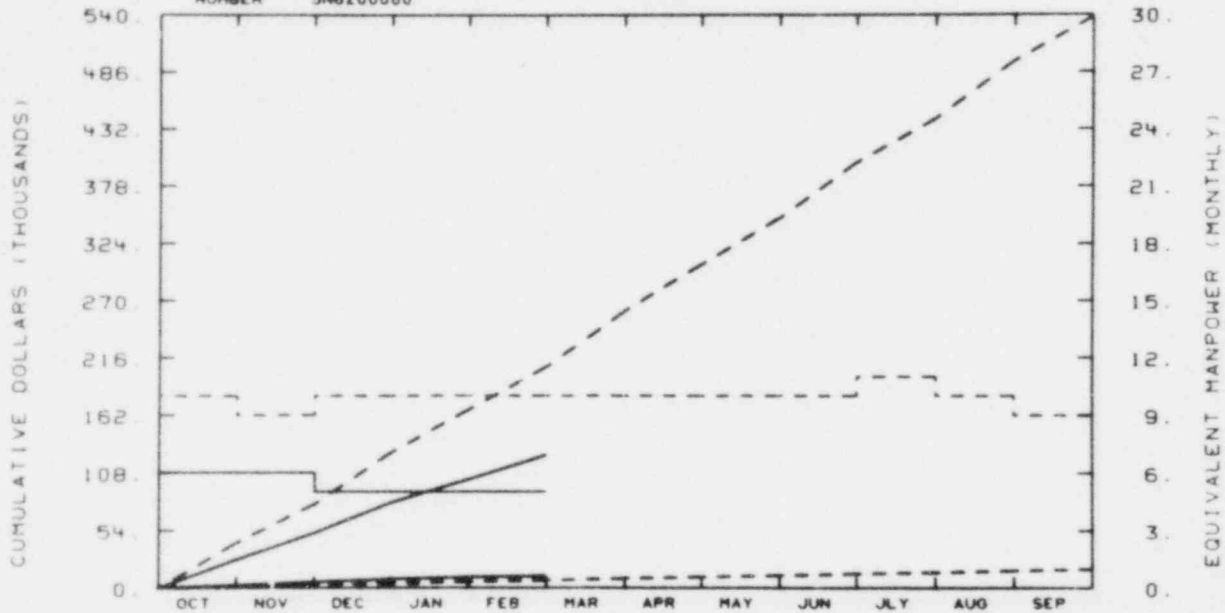
MATERIAL		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET		7	12	20	26	33	41	50	59	70	78	89	98
ACTUAL		22	14	20	28	36							

MANPOWER		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET		18	18	18	19	19	18	18	18	18	20	19	18
ACTUAL		18	17	16	18	15							

BUDGET  
-----  
ACTUAL  
\_\_\_\_\_

No significant variance.

EG&G IDAHO INC.  
 COMMON SUPT - SAFETY  
 NUMBER 5N6Z00000



TOTAL PROGRAM		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET		42	78	127	167	208	261	304	348	400	442	487	538
ACTUAL		26	51	80	102	124							

MATERIAL		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET		1	3	4	6	7	9	10	11	13	14	16	18
ACTUAL		2	5	8	10	11							

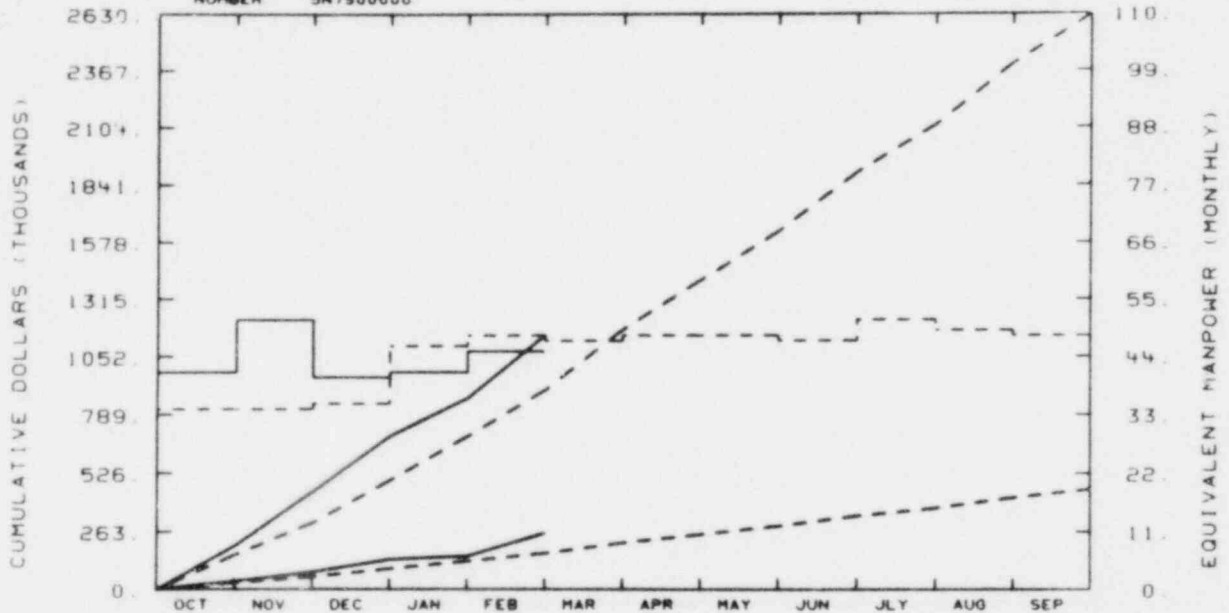
MANPOWER		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET		10	9	10	10	10	10	10	10	10	11	10	9
ACTUAL		6	6	5	5	5							

BUDGET  
 -----  
 ACTUAL  
 \_\_\_\_\_

The underrun in this summary cost account is the result of not staffing to the target level in the budget. Safety has recently increased their staff. Budget and actual costs should be more in line by year-end.

EG&G IDAHO INC.  
LOFT OPERATIONS BRANCH

NUMBER 5N7500000



TOTAL PROGRAM

BUDGET	158	299	490	689	899	1175	1401	1620	1901	2116	2400	2626
ACTUAL	199	441	689	862	1149							

MATERIAL

BUDGET	30	56	92	127	163	211	249	287	332	369	416	454
ACTUAL	38	78	134	150	254							

MANPOWER

BUDGET	34	34	35	46	48	47	48	48	47	51	49	48
ACTUAL	41	51	40	41	45							

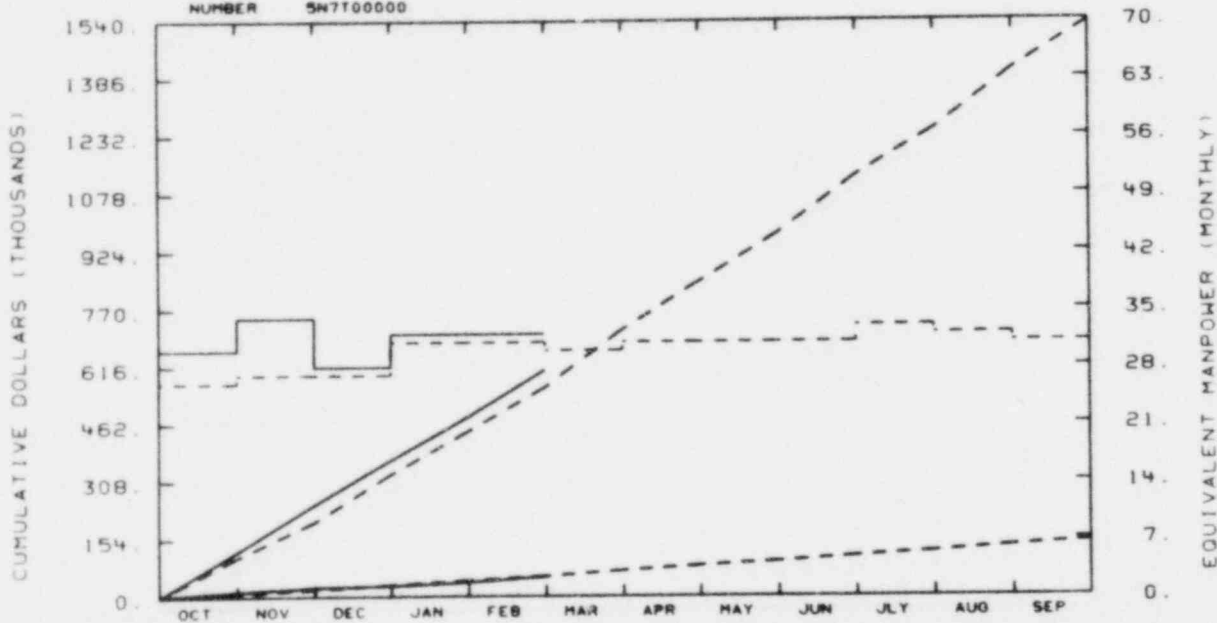
BUDGET

ACTUAL

Labor overruns in the first quarter of FY-80 were caused by extensive use of overtime to support the test schedule. It is anticipated that underruns in the balance of the year will correct the problem. The material overrun in February was caused by an accounting error, resulting in a two-month power bill.

EG&G IDAHO INC.  
LOFT TEST & DATA

NUMBER 5N7T00000



TOTAL PROGRAM

BUDGET	105	199	326	442	560	715	843	971	1125	1246	1408	1534
ACTUAL	121	246	364	481	607							

MATERIAL

BUDGET	10	19	30	41	53	68	80	92	107	118	133	145
ACTUAL	14	24	28	37	52							

MANPOWER

BUDGET	26	27	27	31	31	30	31	31	31	33	32	31
ACTUAL	30	34	28	32	32							

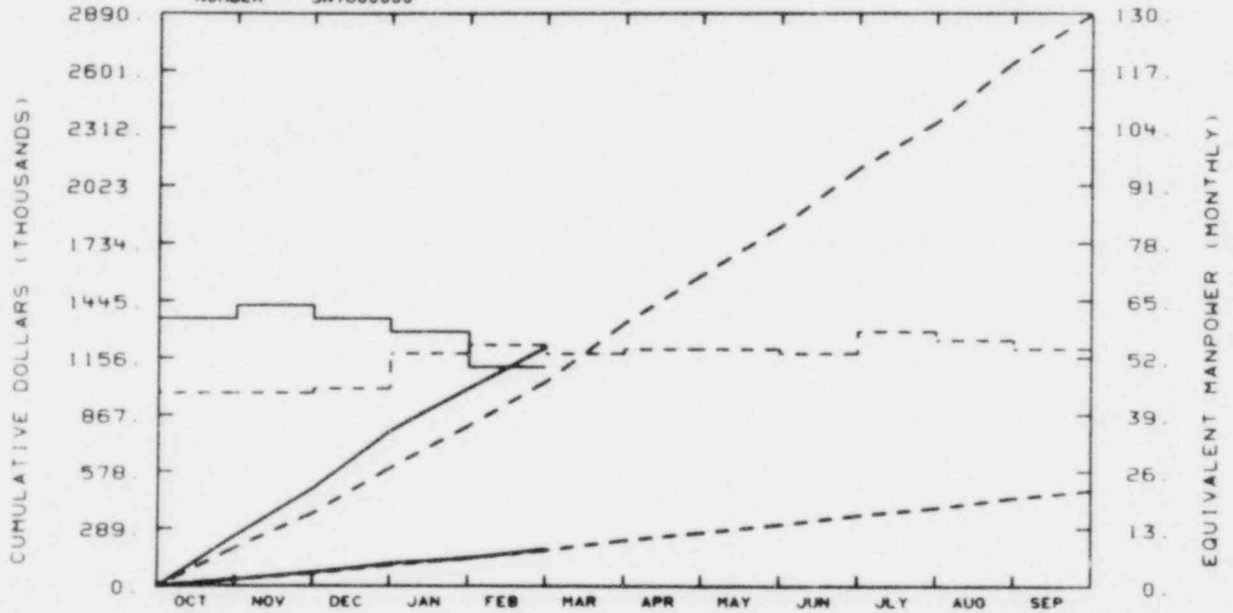
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.  
LOFT FACILITY SUPPORT

NUMBER 5N7U00000



TOTAL PROGRAM												
BUDGET	191	362	594	811	1036	1331	1574	1817	2108	2338	2442	2885
ACTUAL	251	489	783	1002	1211							

MATERIAL												
BUDGET	33	63	103	140	178	227	267	307	354	392	442	481
ACTUAL	33	67	111	138	184							

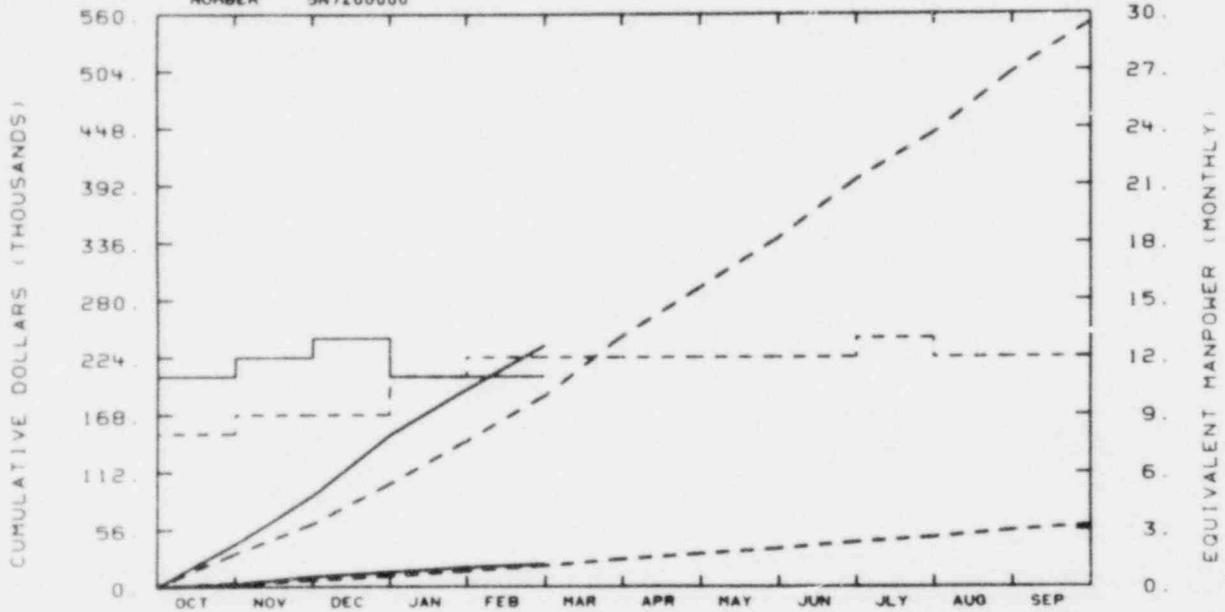
MANPOWER												
BUDGET	44	44	45	53	55	53	54	54	53	58	56	54
ACTUAL	61	54	61	58	50							

BUDGET  
-----  
ACTUAL  
\_\_\_\_\_

Labor overruns in the first quarter of FY-80 were caused by extensive use of overtime to support the LOFT test schedule. It is anticipated that underruns in the balance of the year will correct the problem.

EG&G IDAHO INC.  
 OUTSIDE SERVICE SUPPORT

NUMBER 5N7200000



TOTAL PROGRAM

BUDGET	32	61	101	142	186	245	292	340	390	443	503	551
ACTUAL	42	89	148	193	235							

MATERIAL

BUDGET	3	6	10	15	20	26	32	37	43	48	55	60
ACTUAL	3	10	14	19	22							

MANPOWER

BUDGET	8	9	9	11	12	12	12	12	12	13	12	12
ACTUAL	11	12	13	11	11							

BUDGET

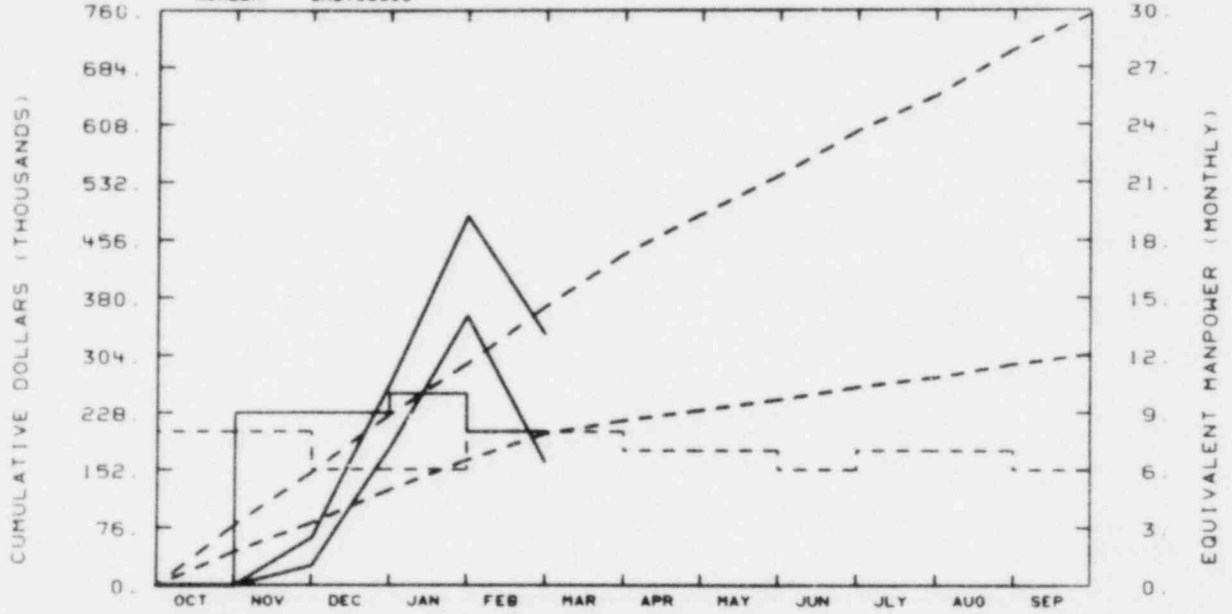
ACTUAL

Labor overruns in the first quarter of FY-80 were caused by extensive use of overtime to support the LOFT test schedule. It is anticipated that underruns in the balance of the year will correct the problem.

EG&G IDAHO INC.

AUGEMENTED OPER CAPABILITY

NUMBER 5NSV00000



TOTAL PROGRAM		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP
BUDGET		79	148	225	293	368	437	490	540	599	646	707	755
ACTUAL		0	62	266	487	332							

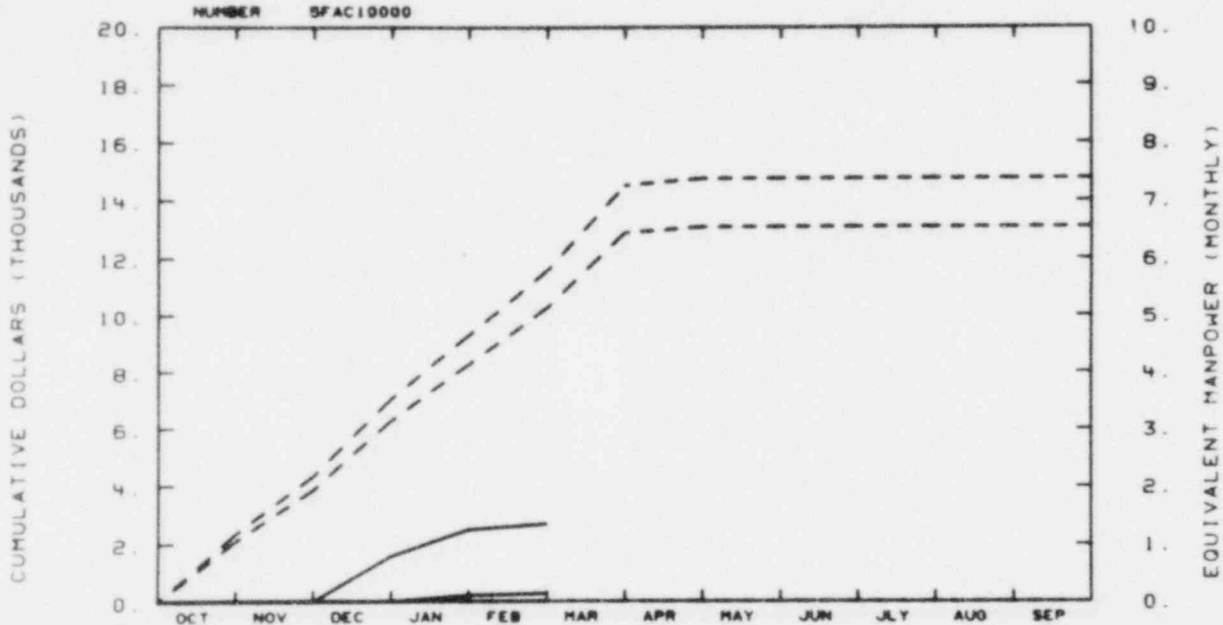
MATERIAL		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP
BUDGET		44	81	125	165	200	217	231	245	261	275	292	305
ACTUAL		0	25	180	356	162							

MANPOWER		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP
BUDGET		8	8	6	6	8	8	7	7	6	7	7	6
ACTUAL		0	9	9	10	8							

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

No significant variance.

EG&G IDAHO INC.  
MANAGEMENT



TOTAL PROGRAM

BUDGET	2	4	7	9	12	15	15	15	15	15	15	15
ACTUAL	0	0	2	2	3							

MATERIAL

BUDGET	2	4	6	8	10	13	13	13	13	13	13	13
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							

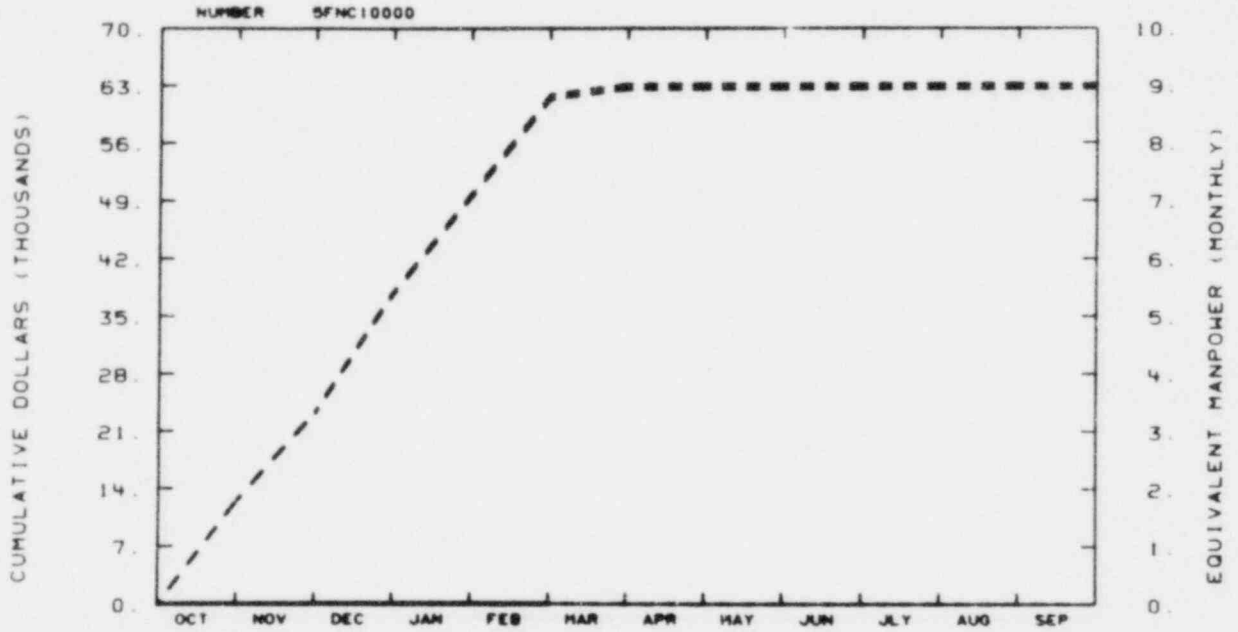
BUDGET

ACTUAL

No significant variance.



EG&G IDAHO INC.  
MANAGEMENT



TOTAL PROGRAM

BUDGET	13	23	38	50	63	63	63	63	63	63	63	63
ACTUAL	0	0	0	0	0							

MATERIAL

BUDGET	13	23	38	49	61	63	63	63	63	63	63	63
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							

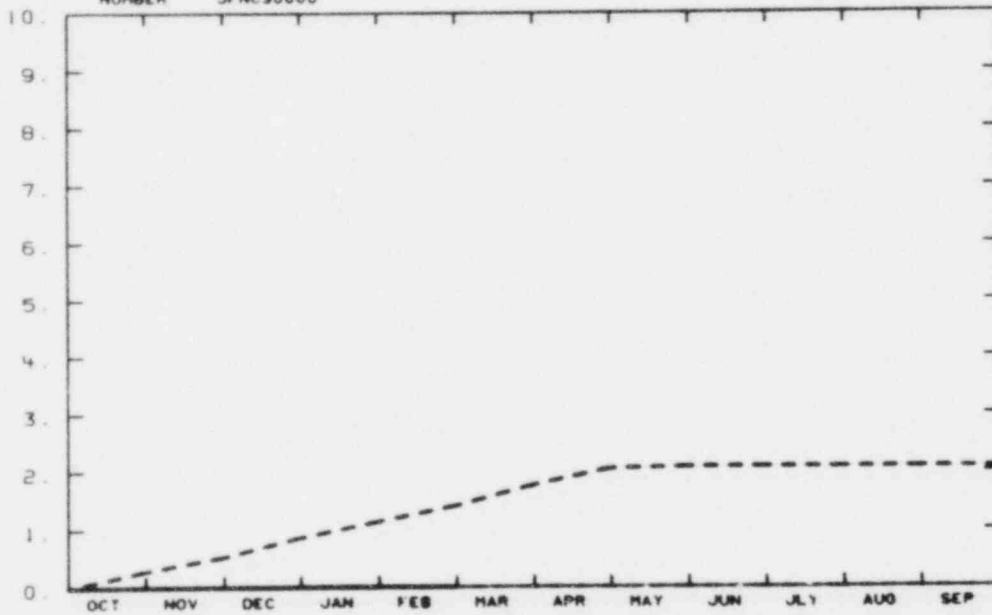
BUDGET  
-----  
ACTUAL  
\_\_\_\_\_

No significant variance. Presently inactive.

EG&G IDAHO INC.  
RPI SUBCONTRACT

NUMBER 5FNC30000

CUMULATIVE DOLLARS (THOUSANDS)



EQUIVALENT MANPOWER (MONTHLY)

TOTAL PROGRAM

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

MATERIAL

BUDGET	1	1	1	1	1	2	2	2	2	2	2	2
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

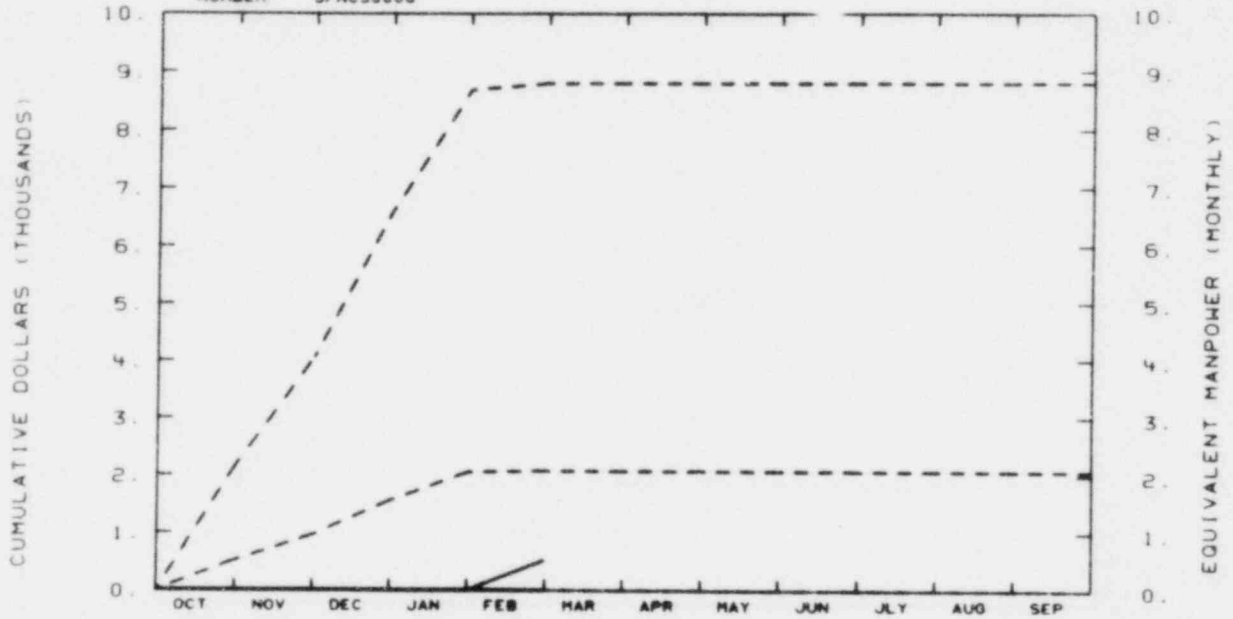
ACTUAL

No significant variance.

EG&G IDAHO INC.

INEL SUPPORT

NUMBER 5FNC50000



TOTAL PROGRAM

BUDGET	2	4	7	9	9	9	9	9	9	9	9	9
ACTUAL	0	0	0	0	1							

MATERIAL

BUDGET	1	1	2	2	2	2	2	2	2	2	2	2
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							

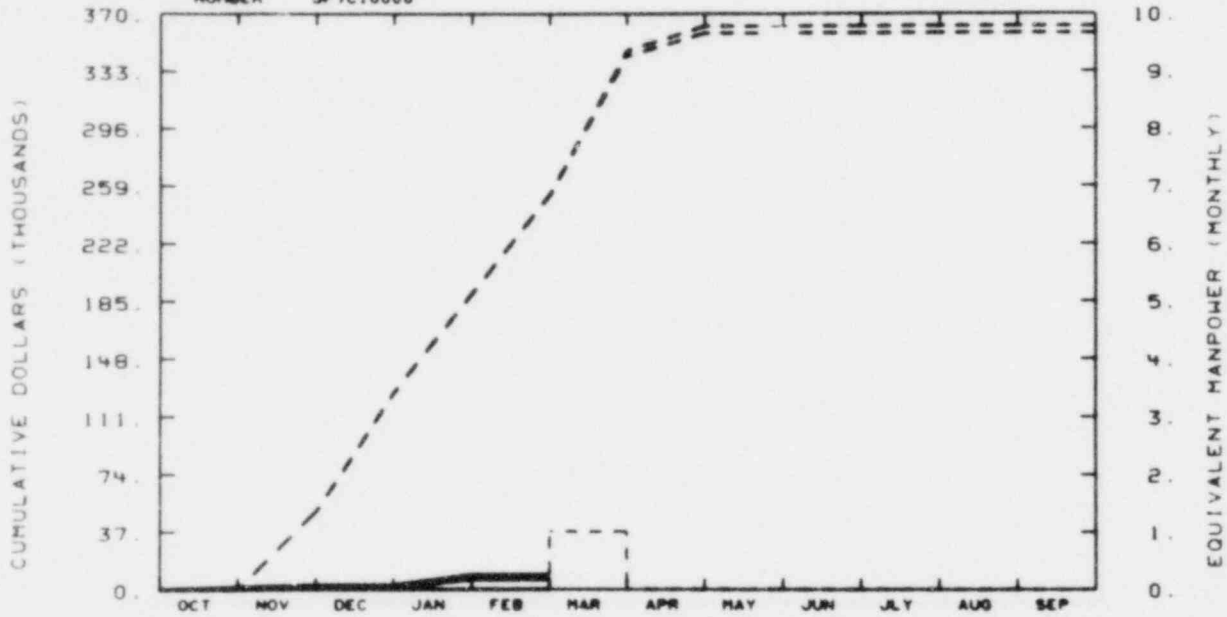
BUDGET

ACTUAL

Work has been delayed. This task will be reduced in scope and the balance of \$4,500 will be returned to the management reserve.

EG&G IDAHO INC.  
MANAGEMENT

NUMBER SF7C10000



TOTAL PROGRAM

BUDGET	0	50	127	190	253	348	362	362	362	362	362	362
ACTUAL	2	3	3	9	9							

MATERIAL

BUDGET	0	50	127	190	253	343	358	358	358	358	358	358
ACTUAL	0	1	1	6	6							

MANPOWER

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

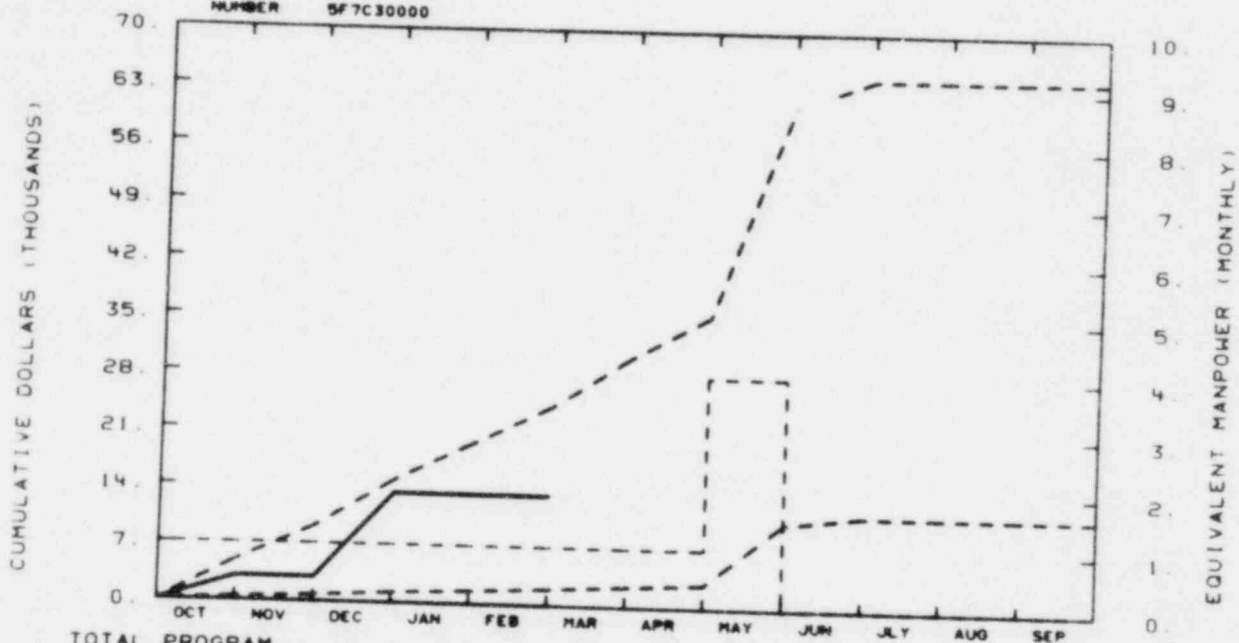
BUDGET

ACTUAL

No significant variance. A \$350,000 management reserve and contingency fund is included in this budget.

EG&G IDAHO INC.  
FUEL INSTRUMENTS

NUMBER SF7C30000



TOTAL PROGRAM

BUDGET	5	9	15	19	24	30	35	61	64	64	64	64
ACTUAL	3	3	13	13	13							

MATERIAL

BUDGET	0	1	1	2	2	2	3	10	11	11	11	11
ACTUAL	3	3	13	13	13							

MANPOWER

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

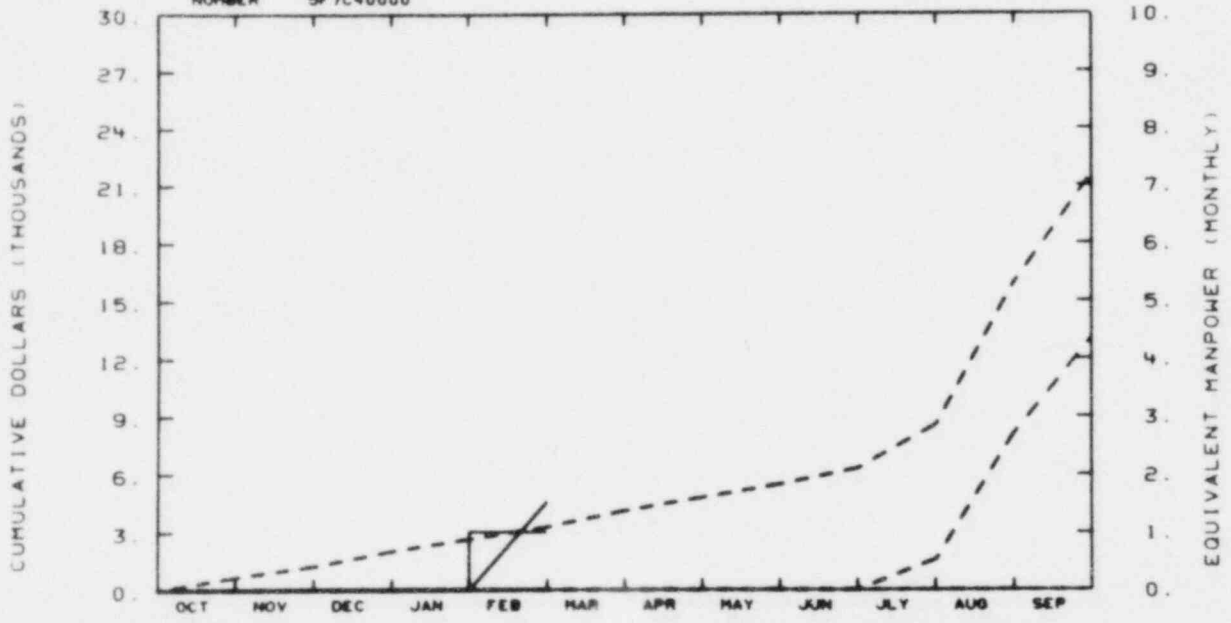
BUDGET

ACTUAL

This task is completed and the balance of the budget will be returned to reserve.

EG&G IDAHO INC.  
SHORT TERM TASKS

NUMBER SF7C40000



TOTAL PROGRAM

BUDGET	1	1	2	3	3	4	5	5	6	9	16	22
ACTUAL	0	0	0	0	5							

MATERIAL

BUDGET	0	0	0	0	0	0	0	0	0	2	8	13
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	1							

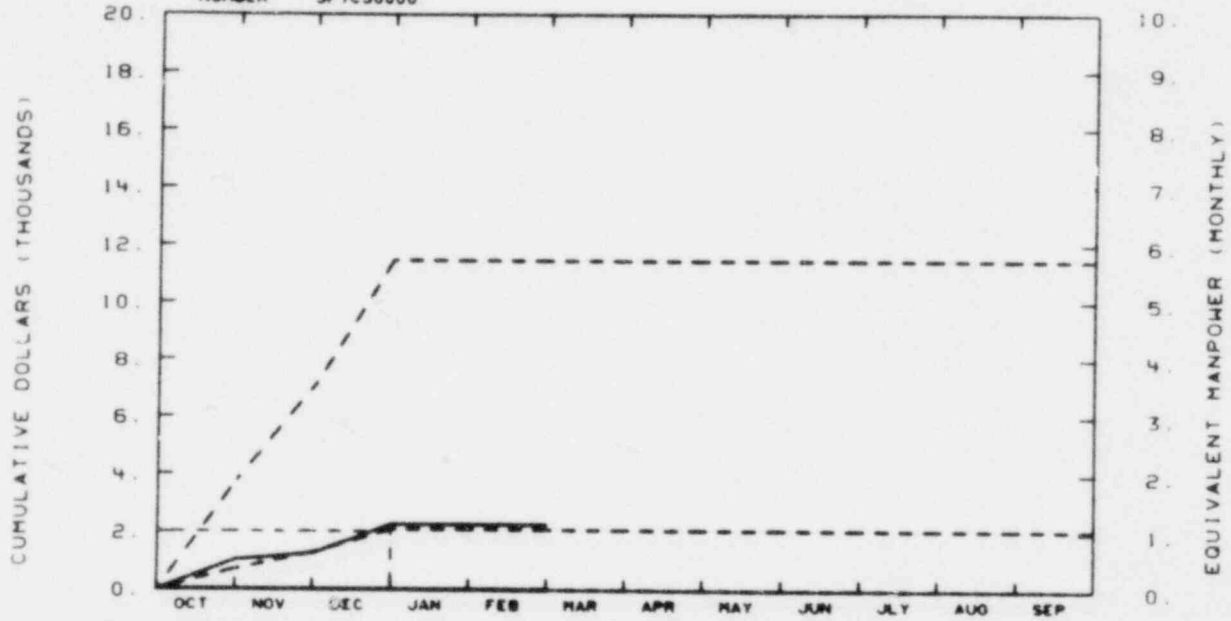
BUDGET  
-----  
ACTUAL  
\_\_\_\_\_

No significant variance.

EG&G IDAHO INC.

STEAM PROBE

NUMBER 5F7C50000



TOTAL PROGRAM

BUDGET	4	7	11	11	11	11	11	11	11	11	11	11
ACTUAL	1	1	2	2	2							

MATERIAL

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

MANPOWER

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

BUDGET

-----

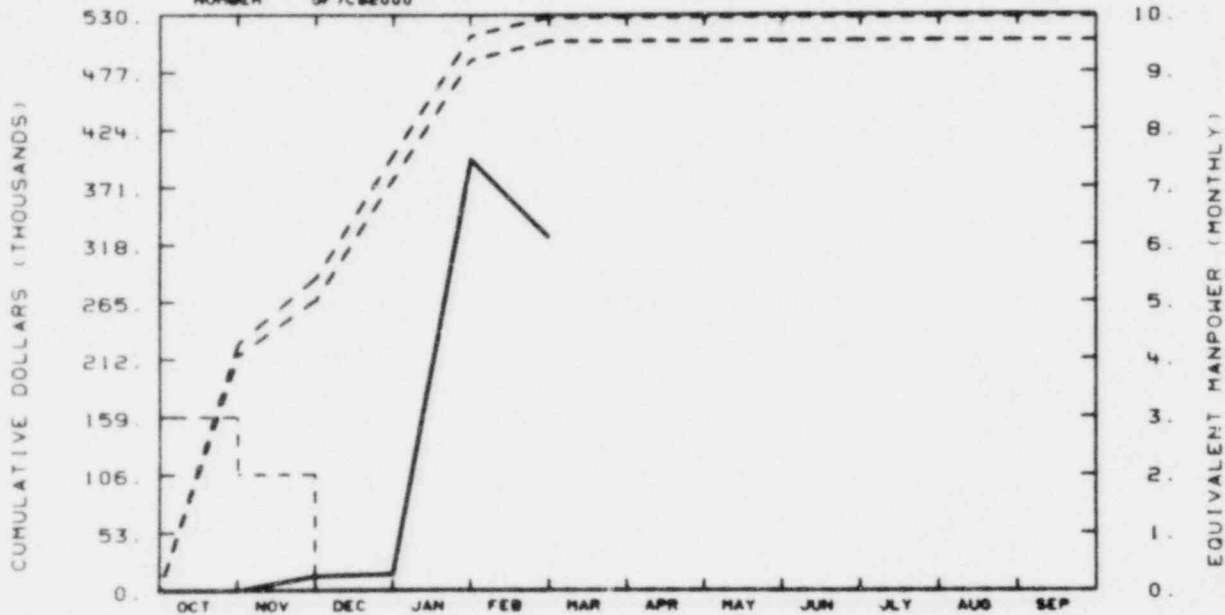
ACTUAL

This activity has incurred delays due to higher priority work associated with the Wyle test data reporting.

EG&G IDAHO INC.

SHARED TASKS - STEADY STATE TEST

NUMBER 5F7CB2000



TOTAL PROGRAM

BUDGET	226	267	401	511	520	520	520	520	520	520	520	520
ACTUAL	0	13	15	397	325							

MATERIAL

BUDGET	215	267	379	489	506	506	506	506	506	506	506	506
ACTUAL	0	13	15	397	325							

MANPOWER

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

BUDGET

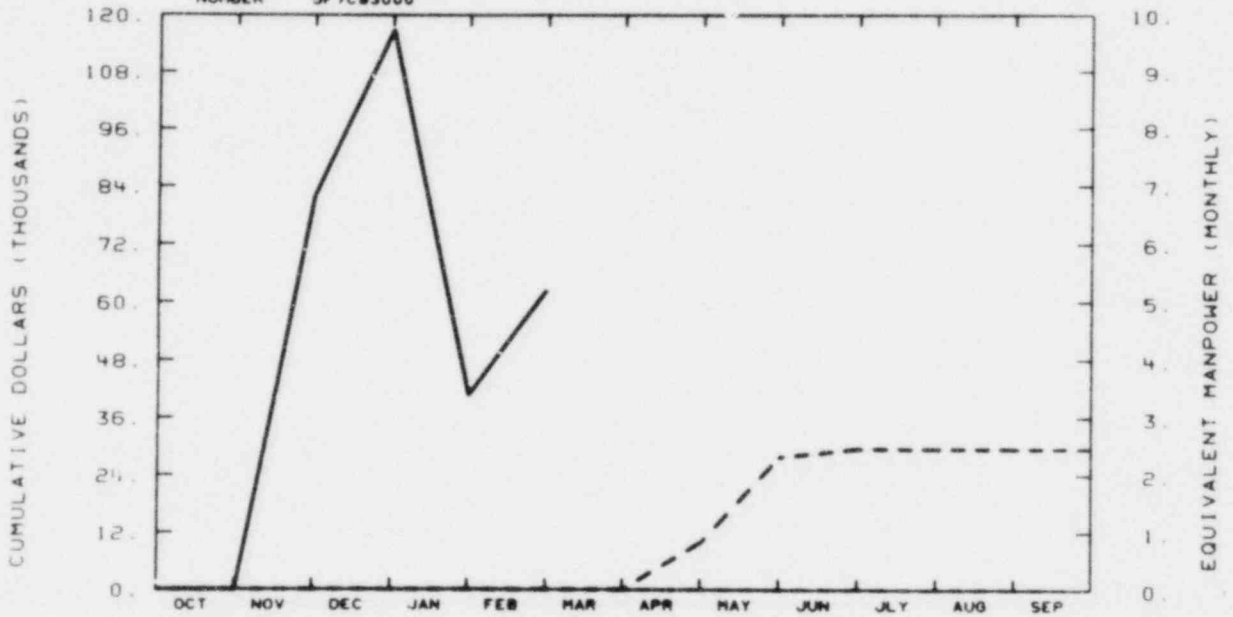
ACTUAL

The decrease in costs is due to reversal of overaccrual of Morrison-Knudsen payments for December 1979 and January 1980.



EG&G IDAHO INC.  
 SHARED TASKS - TWO-PHASE LOOP

NUMBER 5F7C93000



TOTAL PROGRAM												
BUDGET	0	0	0	0	0	0	10	28	30	30	30	30
ACTUAL	0	82	117	41	62							

MATERIAL												
BUDGET	0	0	0	0	0	0	10	28	30	30	30	30
ACTUAL	0	82	117	41	62							

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

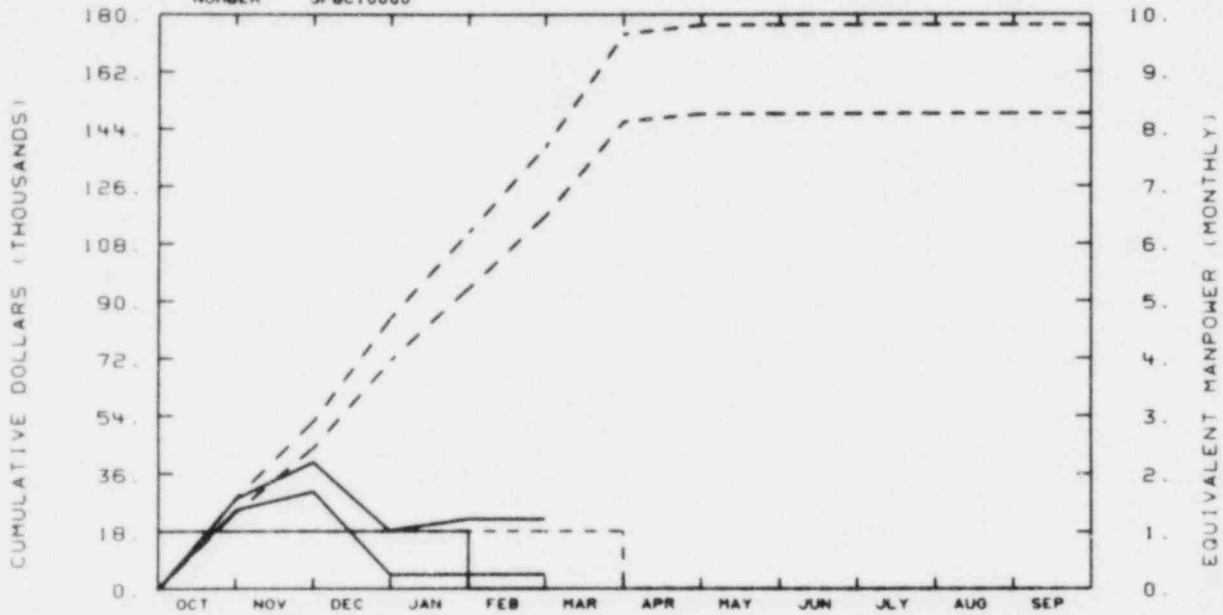
BUDGET  
 -----  
 ACTUAL  
 \_\_\_\_\_

The task has overrun the budget due to charges in computer charging algorithms. Costs are under investigation.

EG&G IDAHO INC.

MANAGEMENT

NUMBER 5F8C10000



TOTAL PROGRAM

BUDGET	28	52	85	112	139	174	177	177	177	177	177	177
ACTUAL	28	40	18	22	22							

MATERIAL

BUDGET	24	44	71	94	117	146	149	149	149	149	149	149
ACTUAL	25	30	4	4	4							

MANPOWER

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

BUDGET

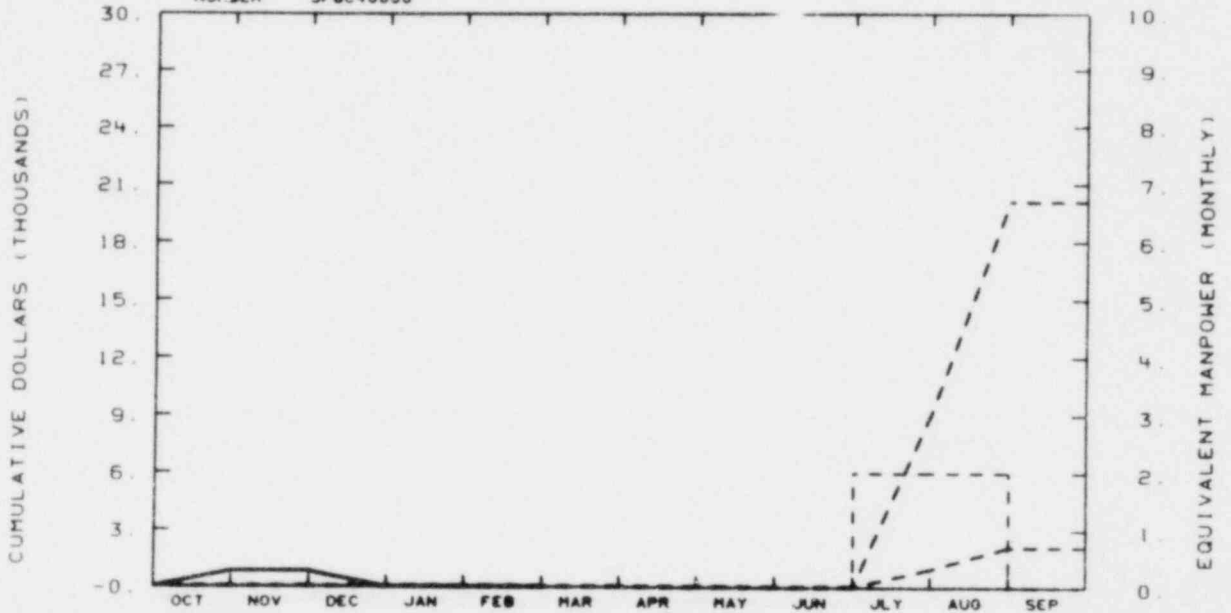
ACTUAL

No significant variance.

EG&G IDAHO INC.

OTT - ADVANCED

NUMBER 5F8C40000



TOTAL PROGRAM

BUDGET	0	0	0	0	0	0	0	0	0	0	9	20	20
ACTUAL	1	1	0	0	0								

MATERIAL

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

MANPOWER

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

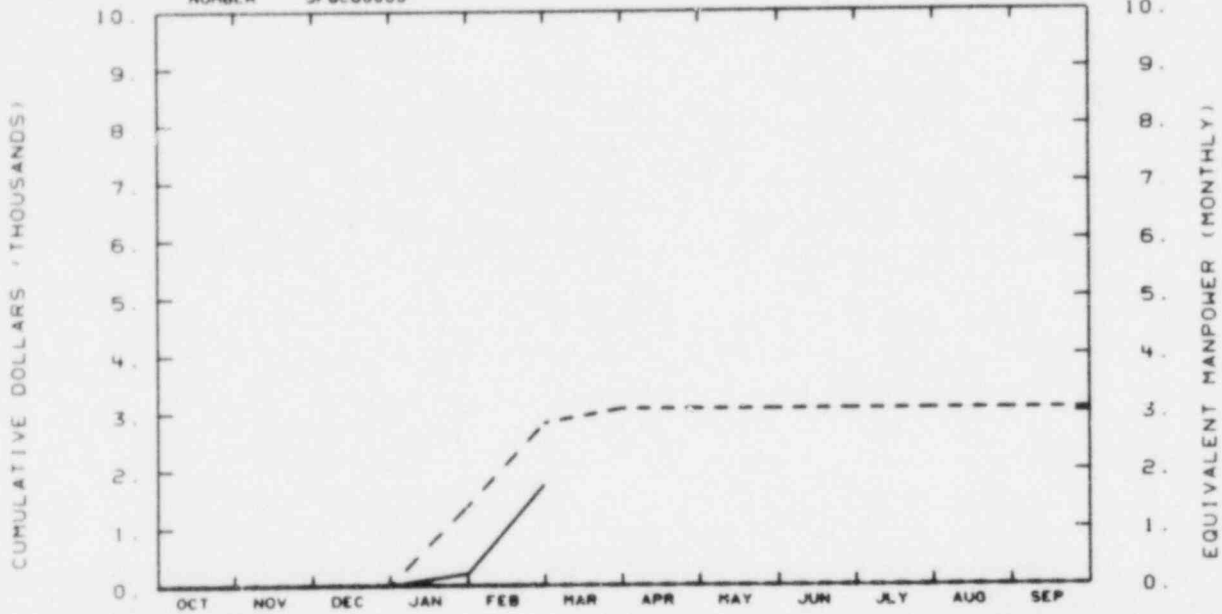
BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.  
RE-EVAL LOFT EXPS

NUMBER SF8C60000



TOTAL PROGRAM

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

MATERIAL

BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
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							

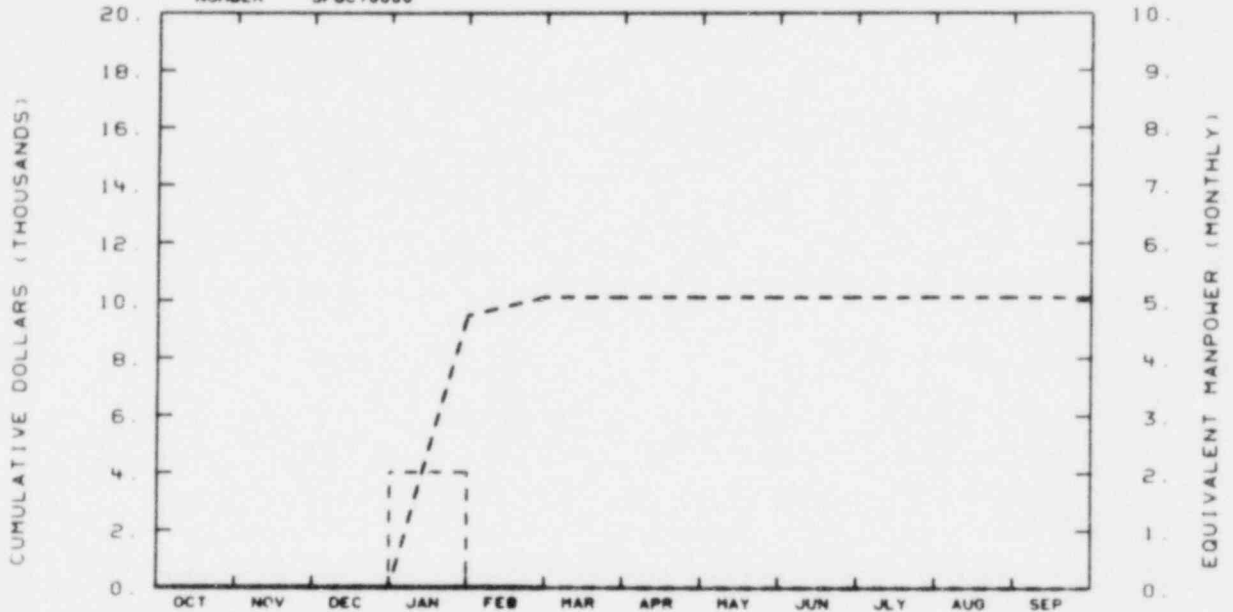
BUDGET  
-----  
ACTUAL  
\_\_\_\_\_

No significant variance.

EG&G IDAHO INC.

CODE STUDIES

NUMBER 5FBC70000



TOTAL PROGRAM

BUDGET	0	0	0	4	10	10	10	10	10	10	10	10
ACTUAL	0	0	0	0	0							

MATERIAL

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

MANPOWER

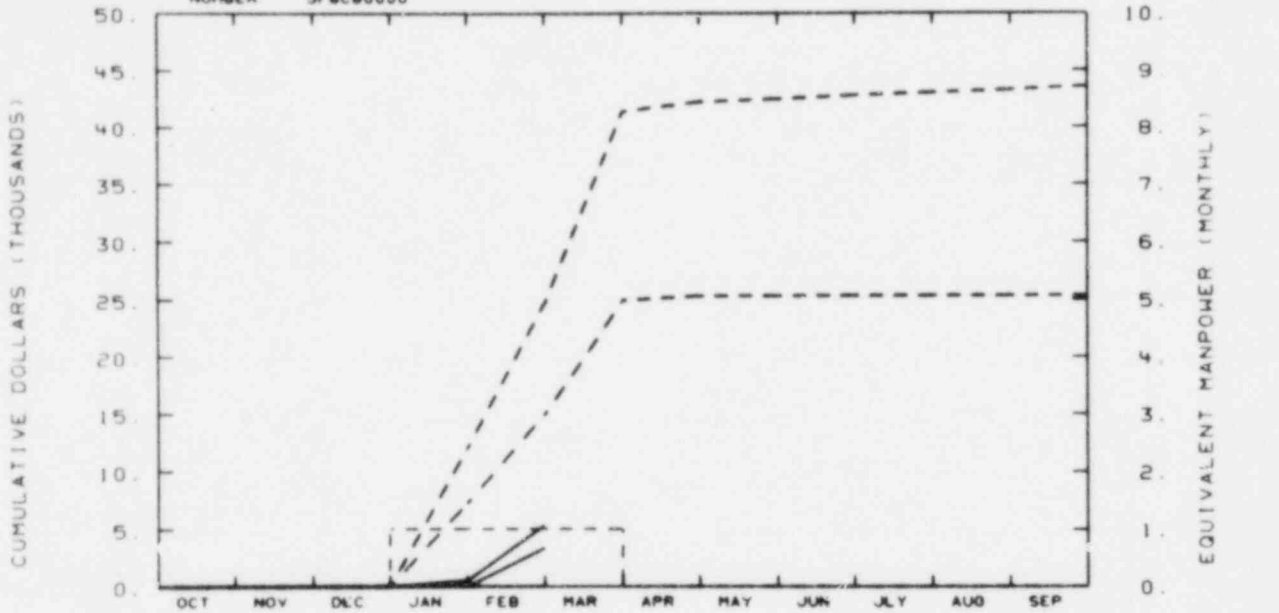
BUDGET	0	0	0	2	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0	0							

BUDGET  
- - - - -  
ACTUAL  
\_\_\_\_\_

Work associated with this task has been delayed.

EG&G IDAHO INC.  
 SUPPRESSION CATCH TANK

NUMBER 5F8CB0000



TOTAL PROGRAM

BUDGET	0	0	0	12	25	41	42	42	43	43	43	44
ACTUAL	0	0	0	1	5							

MATERIAL

BUDGET	0	0	0	7	15	25	25	25	25	25	25	25
ACTUAL	0	0	0	0	3							

MANPOWER

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

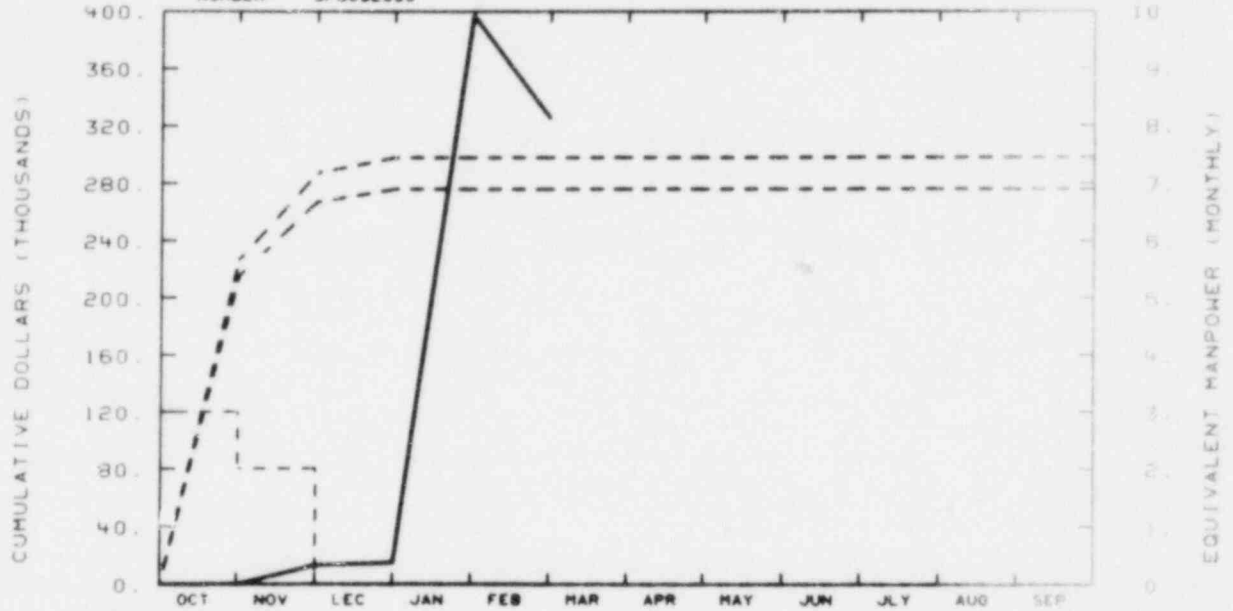
BUDGET  
 - - - - -  
 ACTUAL  
 \_\_\_\_\_

No significant variance.

EG&G IDAHO INC.

SHARED TASKS - STEADY STATE TEST

NUMBER 5F8C92000



TOTAL PROGRAM

BUDGET	225	267	298	298	298	298	298	298	298	298	298	298
ACTUAL	0	13	15	307	325							

MATERIAL

BUDGET	215	267	276	276	276	276	276	276	276	276	276	276
ACTUAL	0	13	15	307	325							

MANPOWER

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

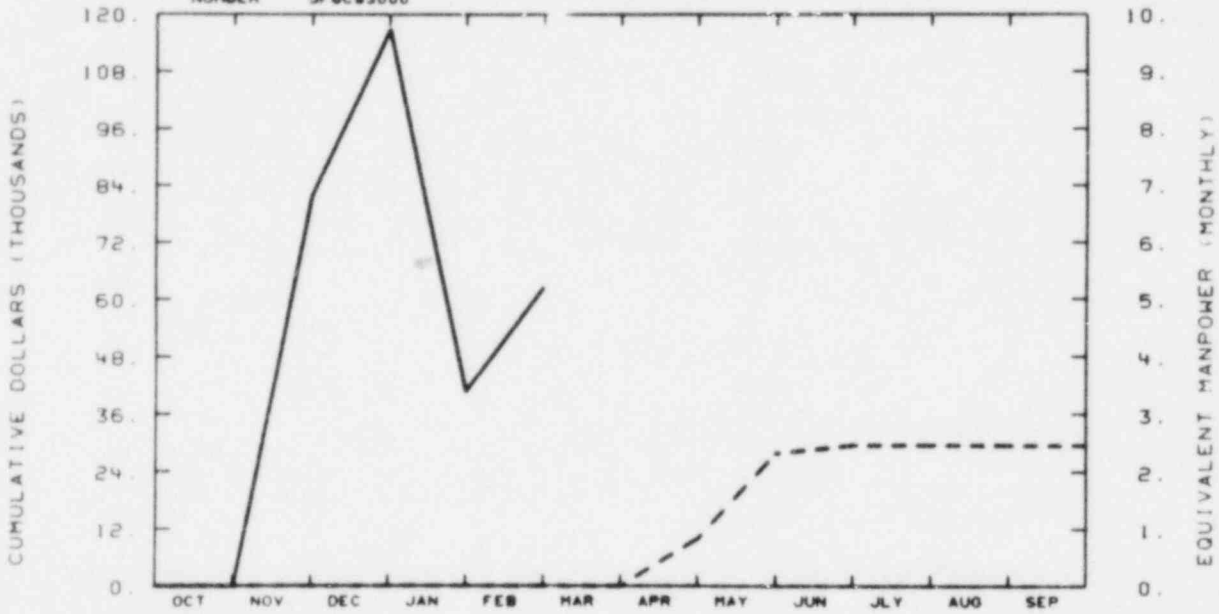
BUDGET  
-----  
ACTUAL  
\_\_\_\_\_

The decrease in costs is due to reversal of overaccrual of Morrison-Knudsen payments for December 1979 and January 1980. Two-phase loop construction costs have overrun the budget. A CCB will be written to use contingency as soon as total costs are finalized.

EG&G IDAHO INC.

SHARED TASKS - TRAC CODE STUDIES

NUMBER SF8C93000



TOTAL PROGRAM												
BUDGET	0	0	0	0	0	0	10	28	30	30	30	30
ACTUAL	0	82	117	41	62							

MATERIAL												
BUDGET	0	0	0	0	0	0	10	28	30	30	30	30
ACTUAL	0	82	117	41	62							

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

BUDGET  
 - - - - -  
 ACTUAL  
 \_\_\_\_\_

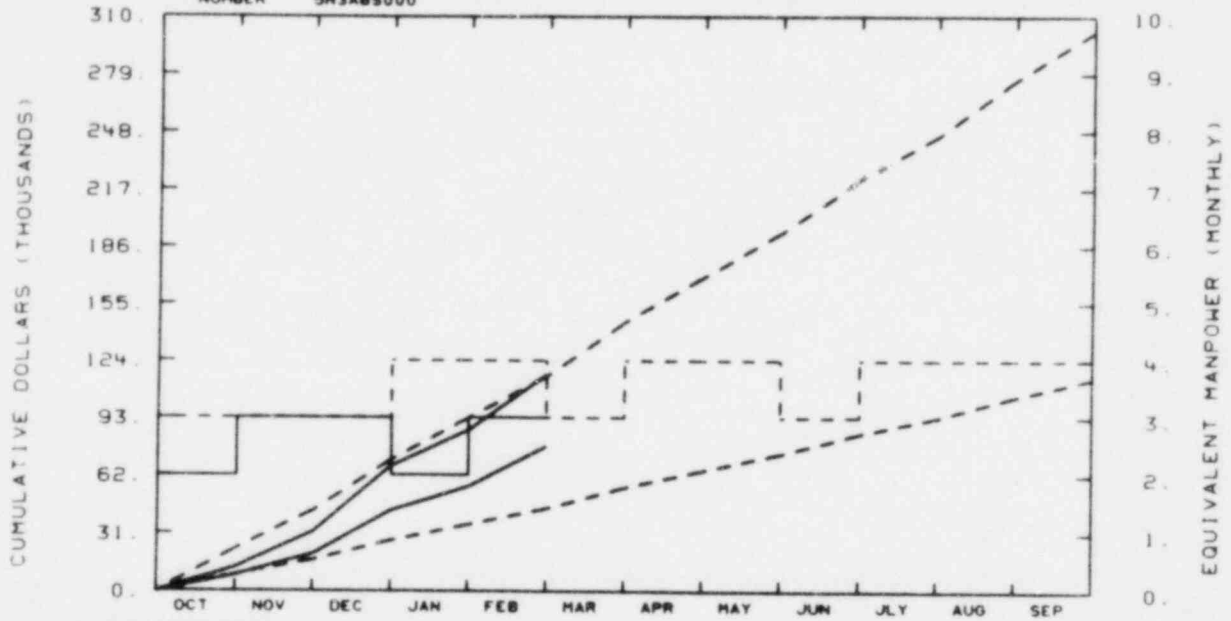
The task has overrun the budget due to changes in computer charging algorithms. Costs are under investigation.



LOFT Cost Accounts

5N3Axx--NRC Cost Accounts

EG&G IDAHO INC.  
 EXP MEAS - BR SUPPORT  
 NUMBER 5N3AB5000



TOTAL PROGRAM

BUDGET	23	43	70	93	115	145	189	194	223	246	276	302
ACTUAL	13	31	67	86	116							

MATERIAL

BUDGET	9	16	27	35	44	55	64	74	84	93	104	114
ACTUAL	8	20	43	56	78							

MANPOWER

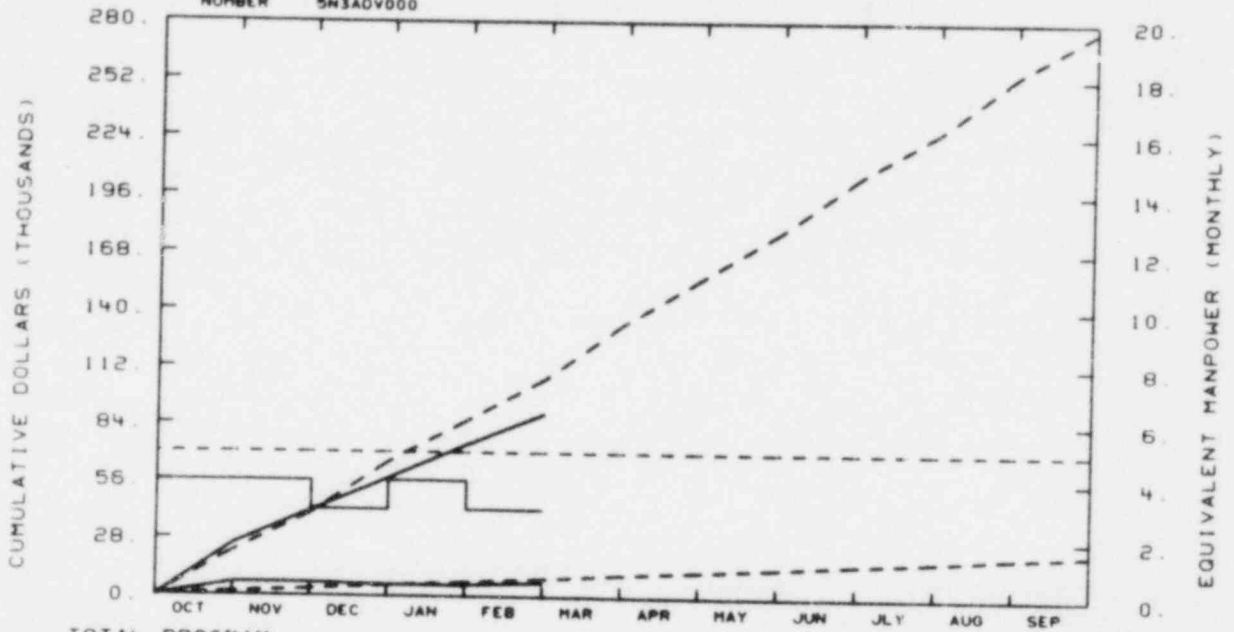
BUDGET	3	3	3	4	4	3	4	4	3	4	4	4
ACTUAL	2	3	3	2	3							

BUDGET  
 - - - - -  
 ACTUAL  
 \_\_\_\_\_

No significant variance.

EG&G IDAHO INC.  
 EXP MEAS - DAVDS SUPPORT

NUMBER 5N3ADY000



TOTAL PROGRAM		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET		22	40	65	86	106	134	156	178	205	227	255	276
ACTUAL		25	41	57	74	89							

MATERIAL		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET		2	3	5	7	9	11	12	14	16	18	20	22
ACTUAL		6	6	6	6	7							

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

BUDGET -----  
 ACTUAL \_\_\_\_\_

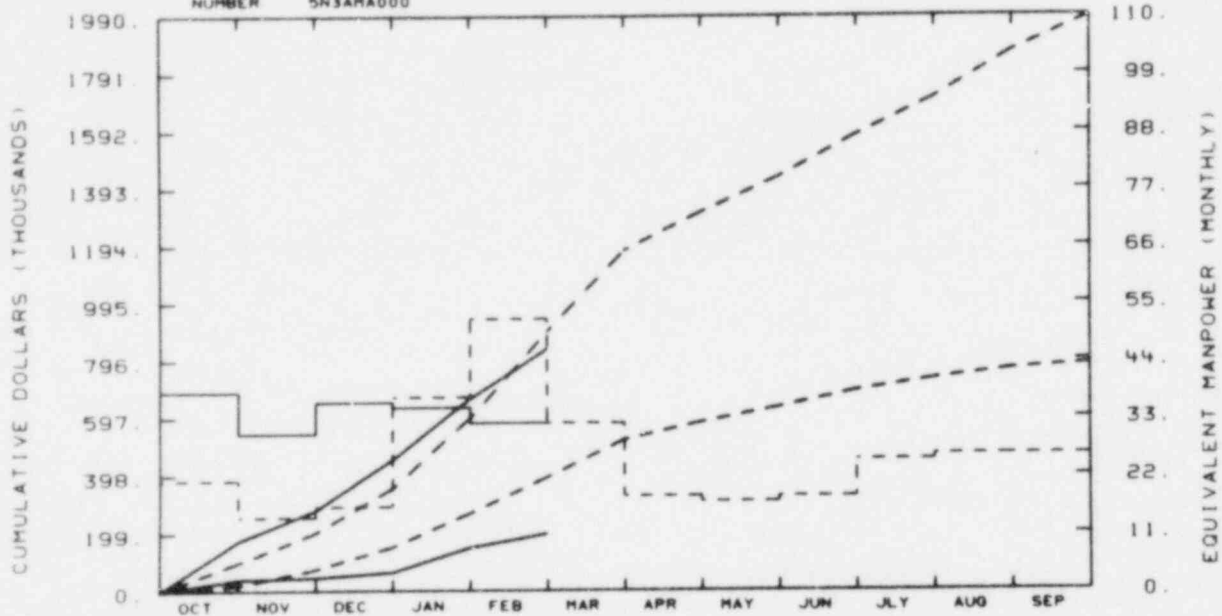
Understaffing for of February contributed to the underspending variance; another person, who will be funded from this task, has been hired.

The task is being reevaluated and may require the preparation of a CCB action.

EG&G IDAHO INC.

EXP MEAS - MEAS SYSTEM A

NUMBER 5N3AMA000



TOTAL PROGRAM

BUDGET	98	201	353	596	898	1178	1311	1434	1579	1708	1867	1987
ACTUAL	173	278	452	664	836							

MATERIAL

BUDGET	19	74	151	266	389	520	581	633	690	731	763	781
ACTUAL	39	45	64	148	196							

MANPOWER

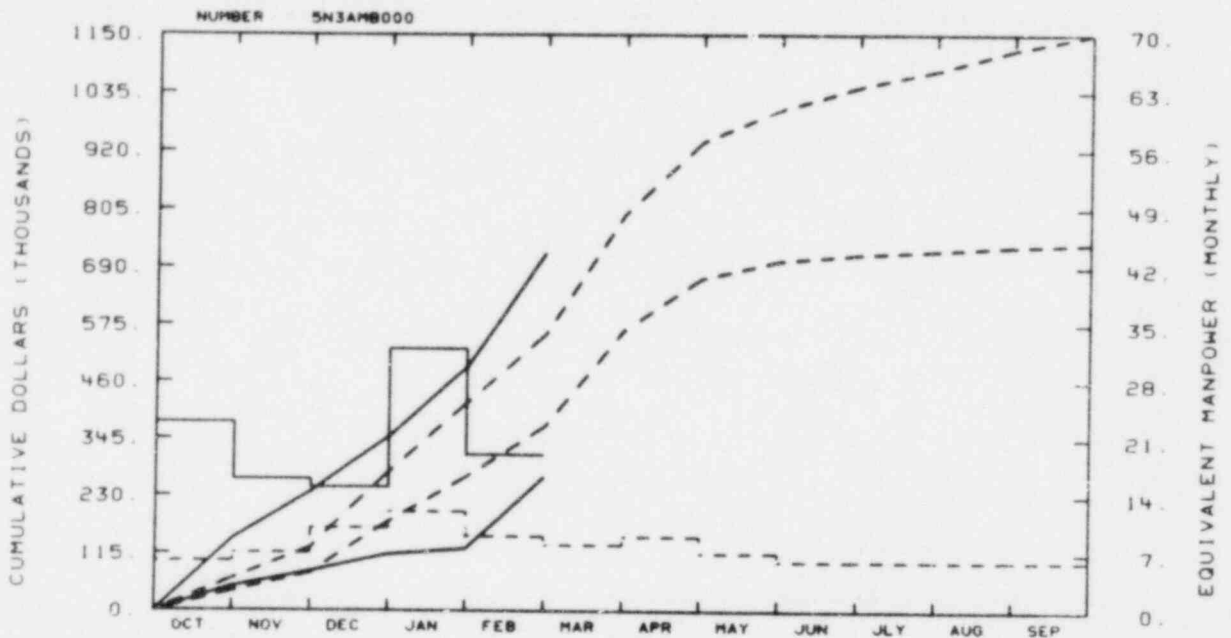
BUDGET	21	14	16	37	52	32	18	17	18	25	26	26
ACTUAL	38	30	36	35	32							

BUDGET

ACTUAL

No significant variance.

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



TOTAL PROGRAM												
BUDGET	64	125	277	416	554	795	939	1002	1047	1078	1120	1150
ACTUAL	144	237	348	489	718							

MATERIAL												
BUDGET	38	75	177	267	369	564	668	703	716	723	732	737
ACTUAL	48	78	112	124	268							

MANPOWER												
BUDGET	6	7	10	12	9	8	9	7	8	6	6	6
ACTUAL	23	18	15	32	19							

BUDGET  
 - - - - -  
 ACTUAL  
 \_\_\_\_\_

The pulsed neutron activation task for L3-2 required an extensive effort that was not originally scheduled, therefore a CCB action is in process but is not reflected in the graph.

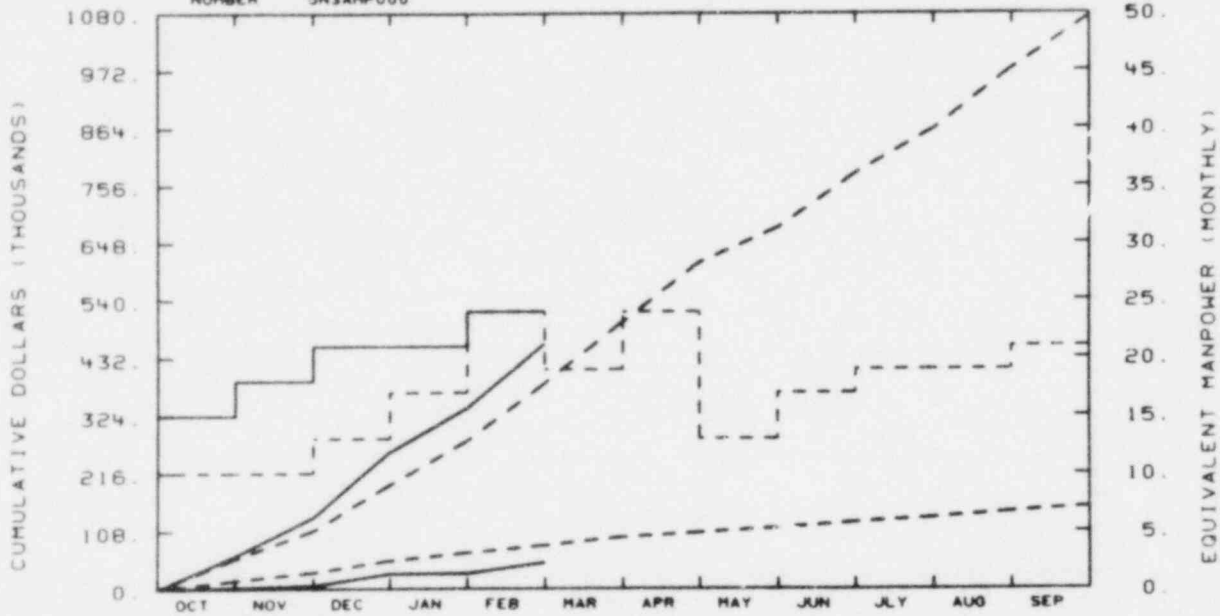
Development costs for qualifying vendors to produce zircaloy thermocouples has been excessive. CCBs are in process to adjust the funding and to request additional funding for this task.

Funds for the ultrasonic density detectors were transferred to management reserve. A CCB action is in process, requesting foreign funds for this task, while costs are still being accrued against the original charge number.

EG&G IDAHO INC.

EXP MEAS - MEAS PERFORMANCE-1

NUMBER 5N3ANP000



TOTAL PROGRAM

BUDGET	56	08	194	277	384	499	611	677	779	882	975	1074
ACTUAL	62	134	256	339	458							

MATERIAL

BUDGET	16	31	52	67	80	96	105	113	124	133	144	154
ACTUAL	3	6	28	29	49							

MANPOWER

BUDGET	10	10	13	17	24	19	24	13	17	18	19	21
ACTUAL	15	18	21	21	24							

BUDGET

ACTUAL

The majority of expected instrument procurement, fabrication, and testing was completed in the first part of the year.

Manhours are high and materials dollars low because fabrication was costed as manhours rather than as materials dollars as budgeted.

A CCB action is in process, adjusting the PMS-IV files to reflect the spending rate.

## 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 also is 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	406	2012	234	1457	148	1345
5N4K000	169	699	128	495	83	436
5N4P000	88	436	74	268	51	260

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.

BUDGET STATUS REPORT

TABLE 2. LOFT FY-80 SUMMARY BUDGET STATUS REPORT  
 NUCLEAR REGULATORY COMMISSION  
 (In Thousands of Dollars)

LOFT WBS#	189 #	Q80-3-0 (CCB 80-50)	Approved CL.I CCBS	Current PMB # Q80-2-2	Approved CL.II CCBS	Current BAC
5N1XX	A6048	4,741		4,741		4,741
5N2XX	A6053	4,219		4,219		4,219
5N3XX	A6043	8,010		8,010		8,010
5N4XX	A6107	10,805		10,805		10,805
5N5XX	A6122	3,674		3,674		3,674
5N6XX	A6110	3,710		3,710		3,710
5N7XX	A6054	7,596		7,596		7,596
5N8XX	A6108	<u>755</u>		<u>,755</u>		<u>,755</u>
5NXXX		43,510	-0-	44,933	-0-	43,510
NRC discretionary reserves						50
NRC management reserves						<u>580</u>
Total NRC funding (FY-80)						44,140



TABLE 3. LOFT FY-80 SUMMARY BUDGET STATUS REPORT OF LOFT FOREIGN FUNDS  
(In Thousands of Dollars)

LOFT WBS	189 #	Q80-3-0 (CCB 80-50)	Approved CL.I CCBS	Current PBM # Q80-3-1	Approved CL.II CCBS	Current FY-80 Budget	Authorized Spending Limit
5FAXX	A6273	3		3		3	3
5FNXX	A6271	45		45		45	45
5F7XX	A6104	443 <sup>b</sup>	230 <sup>c</sup>	673		673	673
5F8XX	A6111 <sup>a</sup>	453		453		453	453
5F9XX	A6104S	0		0		0	0
5FXXX		944	230	1174	0	1174	1174
						127	127
						376	376
						1,677	1,677
						6,860	6,860
						170	170
						8,707	8,707

- a. PBF lead rod tests are budgeted in FY-80.  
b. Adjustment due to data input error.  
c. Authorized by action of CCB 80-50.

TABLE 4. FEBRUARY CHANGE CONTROL BOARD ACTIONS

CCB#	WBS#	Title	Action
80-29	55N9431	FMIRC	Cancelled
80-29			
Rev. 1	55N9431	FMIRC	Approved
80-31	5N4J060	Sample System Shielding	Deferred
80-46	54J040A	WGPS Vault Exhaust	Approved
80-47	53AMB04	Cladding Thermocouples	Approved
80-50	5N00000	LOFT Q80-3 Baseline	Approved
80-59	54J040H	WGPS Third Isolation & Pressure Reducing Valves Mod.	Approved
80-60	54J040E	WGPS Remote Oxygen Anal. Mod.	Approved
80-64	5F7C700	Ultrasonic Density Detectors	Deferred
80-65	55LPY01	Experimental Physics	Approved
80-66	54K460A	Initiation of CIS on High CV Radiation Level	Approved
80-67	54JTM01	Evaluate Critical Valve Position Indication	Approved
80-68	53AMA11	Transit Time Flowmeter	Approved
80-69	5N8VMXX	Real Time Computer Models For LOFT Oper. Augmentation Program	Deferred
80-70	4292C00	189 A6048 Program Planning and Analysis	Approved
(PBF 80-13)			
80-71	5N6XJ00	Common Support - Quality	Approved
80-73	54J04	WGPS Redundant Cam Task	Approved
80-74	54J04	WGPS Spare Parts Task	Approved
80-78	54H0180K	BS-RABV Removal	Deferred
80-79	54JTAN001	Line Item Support TAN-TSF Upgrade	Approved
80-81	5XXMR80	Revision of Management Reserve Alignments	Cancelled
80-84	51BEP01R5	RELAP 5 Support	Approved

LOFT CAPITAL EQUIPMENT STATUS REPORT THROUGH FEBRUARY

Schedule 189a	TITLE	Prior Year Uncosted	Current Year Funds	Total Available to Cost	Current Year Costs	Outstanding Commitments	Balance less Costs & Comm.	Estimate to Complete	Balance
500001	Integral System Design & Fab.	101,730	-0-	101,730	4,562	32,991	64,177	93,283	3,555
500004	LOFT Operations	126,419	-0-	126,419	48,240	-0-	78,179	76,849	1,330
500005	UT & Requalification Program	218,034	-0-	218,034	-0-	158,722	59,312	220,400	[2,366]
TOTAL DOE		466,183	-0-	466,183	52,802	191,713	201,668	390,532	2,519
A-6061	Experimental Measurements	788,769	789,421	1,578,190	446,261	231,008	900,921	1,120,379	11,550
A-6084	Integral System Design & Fab.	689,139	1,421,579	2,110,718	141,971	198,262	1,770,485	1,972,725	[3,978]
A-6088	LOFT Operations	18,091	89,000	107,091	14,880	-0-	92,211	91,480	731
TOTAL NRC		1,495,999	2,300,000	3,795,999	603,112	429,270	2,763,617	3,184,584	8,303
TOTAL LOFT		1,942,182	2,300,000	4,242,182	655,914	620,983	2,965,285	3,575,116	10,822