Report No. LO-MR-003

Date: February 1980

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Title: LOFT MONTHLY PROGRESS REPORT
FOR JANUARY 1980

Organization: LOFT Program

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CONTENTS

DIRECTOR'S MONTHLY SUMMARY	1
ACCOMPLISHMENTS	2
LOFT OPERATIONS	7
LOFT EXPERIMENTAL MEASUREMENTS	7
LOFT FUEL FABRICATION	11
LOFT TEST SUPPORT	12
SUMMARY OF AUSTRIAN-FUNDED (SGAE) TASKS	17
SUMMARY OF NETHERLANDS-FUNDED (ECN) TASKS	17
SUMMARY OF GERMAN/JAPANESE SHARED TASKS	18
SUMMARY OF GERMAN-FUNDED (FRG) TASKS	18
SUMMARY OF JAPANESE-FUNDED (JAERI) TASKS	19
PERFORMANCE ANALYSIS	87

FIGURE

1. LOFT management summary schedule	20
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TABLES

1. Foreign-funded Cost and Summary Schedule as of January 1980	21
2. LOFT FY-80 Summary Budget Status Report Nuclear Regulatory Commission	88
3. LOFT FY-80 Summary Budget Status Report of LOFT Foreign Funds	89
4. January Change Control Board Actions.	90
5. LOFT Capital Equipment Status Report Through January.	91

LOFT MONTHLY PROGRESS REPORT FOR JANUARY 1980

DIRECTOR'S MONTHLY SUMMARY

During January, the LOFT Project focused on preparing for the next small-break experiment. That test, L3-2, is scheduled for February 6. The test will simulate a break size corresponding to a failure in a one-inch pipe for a 1000 MW(e) commercial power plant. It will be the second small break experiment in LOFT to use nuclear heat.

Overall costs for January are very close to budget (greater than 1%). The costing rate will require continued close monitoring. The manpower rate is higher than budgeted and the material rate is less than budgeted. Detailed investigation has shown that these are intentional resource changes, reflecting decisions on the most effective method of work conduct. Thus, they do not indicate a future budget problem.

ACCOMPLISHMENTS

LOFT INTEGRAL SYSTEM DESIGN AND ABRICATION

1. Master LOFT Technical Report (LTR) 128-5 for the Containment Isolation System (CIS) was completed.

Orders were placed for 16 American Society of Mechanical Engineers (ASME) Section III valves to upgrade the CIS.
2. Installation was completed of the halon fire suppression systems in traversing in-core probe (TIP) room 218 and preamp room 219.
3. A brace was installed in the shaft below the sampling room in the liquid waste storage building. Installation of this brace completes the seismic modifications necessary for the waste storage system.
4. The liquid waste transfer piping was modified to be compatible with the new 5000-gallon transfer trailer.
5. The halogen adsorber vessel efficiency test was completed. The decontamination factor of this unit was determined to be $7 \times 10^7 \pm 39\%$.
6. The Waste Gas Processing System (WGPS) was purged dry, the new recombiner heater was installed, and the system was readied for leak testing.
7. Assembly of the spare 110-degree downcomer is complete except for final assembly of the instrumentation penetration stalk portion. Completion is expected in February.

8. A new, three-dimensional PDQ7 computer model of the LOFT reactor was developed and checked out. This model uses 26 axial depletion planes compared with 20 in the previous model. This increase allows (a) a more accurate axial definition of power distribution and (b) closer placement of the control rods for allowed critical conditions.
9. The new, three-dimensional LOFT PDQ7 model was used to calculate best estimated power distributions for loss-of-coolant experiment (LOCE) L3-2.
10. The circuit breaker for diesel generator B was tested and found to be defective. The breaker was returned to General Electric where it was repaired. It was returned and will be reinstalled in March.
11. Thirty-one absolute pressure transducers were rewired at the transducer in the containment and at Station K in room 219 to provide calibration for excitation monitoring.
12. The seismic system was evaluated to assess compliance with the master facility drawing of the seismic instrumentation. The system was brought into compliance with the drawing.
13. A temperature monitor was installed on the secondary coolant system (SCS) feedwater motor at CV-P4-8.
14. Seven intermittent electrical connections (thermocouples) in the electrical penetration assembly in the containment were repaired.
15. The SCS blowdown flow measurement, which measures secondary coolant blowdown flow from the steam generator, was completed.
16. Local alarms and a main control room alarm for deaerator malfunction were provided.

17. Cable connectors were replaced with terminal boards for the remote-reading nuclear instrumentation.
18. Interlocks were completed for containment isolation fans E-14 and E-15.
19. Two system design descriptions (SDD) have been approved by the Department of Energy-Idaho Operations Office (DOE-ID). SDD 1.3.14B for Heating and Ventilating System 8 and SDD 1.2.14B, "Containment Personnel Airlocks System," were approved in January, and two others are awaiting DOE-ID approval. Of the 67 design descriptions being revised, 32 are currently in the approval chain.
20. The experiment safety analysis (ESA) for the conduct of the L3-2 experiment was issued for DOE-ID approval.
21. The technical specifications for the L3-2 experiment and four additional changes required to operate the plant were issued for DOE-ID approval.
22. The Technical Advisory Group (TAG) issued a draft recommendation for upgrade of Test Area North (TAN) emergency preparedness to EG&G management for review.
23. Safety documentation of prescram and blowdown transients was completed and issued as LTRs LO-08-79-143 (prescram) and LO-08-80-145 (blowdown transients).
24. The safety issues for the L3-2 experiment were prepared and issued to inform management of safety concerns associated with the conduct of the experiment.
25. The technical specification damage criteria for the conduct of the L6 experiment series were submitted to DOE-ID for approval.

The supporting underlying probability theory and the quantification of the risk for the experiments were documented and issued as LTRs LO-11-80-087 and LO-11-79-086.

26. The design of the intact cold leg modification for the L3-5 and L3-6 experiments was completed with the final design review. Completion of this modification will provide break initiation and flow characterization capabilities for these intact cold leg, small-break tests.
27. Entry was made into Accumulator A to make and record measurements to verify standpipe height. The standpipe height was satisfactory, and no adjustment was necessary for the L3-2 experiment.
28. Requisitions to replace three valves were sent to procurement. This action is part of the program effort to replace deficiently performing valves.
29. Contracts were awarded for a graphics display system and a large-disc memory system to augment the LOFT automatic ultrasonic test (AUT) system capability. The graphics display (gray-scale) system will improve the man-machine interface of the AUT system and will also provide significantly more information for a volumetric inspection. The large-disc memory system will provide concurrent data acquisition and analysis capability, will provide more efficient use of the present system control and analysis functions, and will improve AUT software development capability.
30. A task to improve the methods of tracking and documenting fatigue life status of LOFT Class 1 piping and components is continuing. As part of this effort, the fatigue cycle status of the Class 1 portion of the plant was reassessed for L3-2. The study determined that no Class 1 component fatigue life limits were being approached for this experiment.

31. A contract for sight glasses for the emergency core system Accumulator A has been awarded. These sight glasses will assist in better defining the accumulator water level before an experiment.
32. LTR LO-06-79-004, "Operation of Decon System," has been completed and is being reviewed.
33. The bid package for the mobile decontamination solution handling unit for the decontamination system has been sent to eight additional vendors. The previous request for bids resulted in receiving only one bid, and this bid was in excess of the current funding level for this unit.
34. The spent resin transport plan for the spent resin transfer system has been completed and submitted to the Safety Division and the Waste Management Office for review. LOFT personnel are currently working with these two organizations by providing classifications and resolving problem areas.
35. Preparation of the procedures and work package for assembly of the A-3 fuel module has been completed and is awaiting final approval and release. Assembly is scheduled to start in February.
36. For the LOFT air sweep system, the design and planning have been completed for assembly and installation of the containment building header. Installation is awaiting fabrication of components and an acceptable work window in the containment vessel.
37. Specification E-544 for the facility temperature monitor was completed and is being reviewed.

LOFT OPERATIONS

1. All outstanding work items and plant testing necessary to commence the L3-2 experiment operating procedure (EOP) were finished.
2. All portions of the L3-2 EOP up to and including reactor criticality were completed.
3. Signals were added to the Prime computer system so that all signals were available for the L3-2 test.
4. Modifications to the Radioactive Waste Transfer System were completed, giving LOFT the capability of transferring high-level liquid waste if it becomes necessary.

LOFT EXPERIMENTAL MEASUREMENTS

1. The test modular drag disc turbine transducer (MDTT), containing the design modifications performed satisfactorily during final tests. A group assembled to review the design agreed that design modification criteria had been met. Test data and supporting analyses of the design modifications were submitted. A design prototype is being fabricated. Drawing revisions and revised assembly and test procedures have been prepared for fabrication of the prototype.
2. Fabrication of MDTTs for flow testing is continuing. The B3 MDTT is completed, and the dummy units are expected to be completed February 1. Fabrication of the balance of the required instruments for test and evaluation use will continue during February with completion about March 1.
3. The following nuclear-hardened gamma densitometer detectors are working and have been calibrated: BL-1A, BL-1B, BL-1C, PC-1B, PC-1D, PC-2B, PC-2D, and BL-2A. BL-1A and BL-2A use discrete component preamplifiers.

4. The blowdown tank liquid level transducer, PdE-SV-01, was installed, and the control system was checked out.
5. Low-range differential pressure transducers were installed to improve low flow measurement of the emergency core coolant (ECC) rakes.
6. All components except photomultiplier tube assemblies are on hand to build the gamma densitometer and drag screen.
7. Fabrication of the drag screen is completed except for properly positioning the drag screen in the three-inch pipe.
8. Fabrication of all liquid level transducers (LLTs) was completed on or ahead of schedule. They were shipped to TAN-615 for installation into the LOFT downcomer instrument stalks.
9. The LLT signal conditioning electronics are set up for test L3-2.
10. Pump speed electronics were set up for test L3-2. Additional recording channels were set up to count the individual pulses to allow better resolution at very low pump speeds.
11. The Operation and Maintenance Manual for the ECC rake (OMM 141-23) has been released.
12. Modifications to the ECC rake transducer panels were completed. These modifications make it possible to acquire differential pressure across the rakes.
13. Installation of the 0-20-inch water transducers was completed. They were installed in parallel with existing transducers in order to extend the lower range for the small break tests.

14. Vibration tests are being conducted on a drag disc turbine rake to determine the natural resonant frequencies. Results of these tests will be used to interpret data from the flow vibration probe which is a modified DTT rake.
15. The signal conditioning electronics for the PC-2 and BL-1 transit time flowmeter (TTF) rakes were connected and set up for L3-2. The cabling for the PC-2 and BL-1 TTF rakes was checked out and all polarities verified. The signal conditioning electronics were set up for an accumulator blowdown and pump coastdown in order to check out both TTF rakes.
16. The TTF rakes were checked out using new signal conditioning electronics. The intact loop rake experienced a massive failure during steady-state testing. Flow-induced vibration was identified as the cause of the failure. A redesign effort was initiated in preparation for fabrication of a TTF for the intact loop.

PULSED NEUTRON ACTIVATION (PNA)

17. Single downstream detector design was completed on schedule for pulsed neutron activation. Installation required two shifts, and, during a three-day period, three shifts. A minimum of eight inches of lead surrounds the detector on all four sides and the back. The lead was stacked in such a manner as to minimize neutron streaming. Initial checks by triggering the generators during pipe flow indicated that the one-inch plug in front of the detectors and the six-inch collimation were too great. This required unstacking the lead brick and removing the plug. Several tests were then made by moving the detector two inches at a time and taking background readings. First approximation determined from this test revealed that a one-quarter-inch should be used with the detector 2-1/4 inches from the pipe surface. A test firing was conducted and reasonable results were obtained.

As generator life is limited, it was decided to freeze the detector location and restack the bricks. The structure was completed and all systems are working.

A calibration run at 20, 40, and 20 Hz pump speeds was performed by firing the generators and the results were satisfactory. Stress analysis was successfully completed.

FUEL ROD INSTRUMENTATION

18. Four fuel rod plenum pressure transducers were completed, calibrated, source inspected, and shipped to Exxon ahead of schedule. There are currently six transducers at Exxon.
19. Seven sheaths were delivered to Kaman Sciences. Six of these passed final inspection.
20. The 47 replacement hermetic seals for the centerline thermocouple received from EIMAC have successfully passed all additional thermal cycle testing at Hanford Engineering Development Laboratory (HEDL), and have been returned to Kaman Sciences.
21. An updated F1 instrument delivery status was given to the LOFT Fuel Design and Analysis Branch.
22. Work started to establish several foreign-funded proposals in the area of fuel instrumentation.
23. Approximately 80 good F1 Bundle Titanium Sheathed Thermocouples are now available from reworked Control Product and Semco thermocouples.
24. For permanent thermocouples in the blowdown system, TAN Manufacturing has determined a technique for freezing 14-inch pipes for debris control during drilling. They will prepare a quote. Target date for installation is between L3-3 and L6-3.

25. The design and analysis for the small break thermocouple support has been completed.
26. A feasibility study commenced to determine the applicability of the true mass flowmeter (TMFM) for LOFT experiment L3-4. The channels of communication were opened, and the TMFM was inserted in the planning for the break.
27. Qualification of Wyle large-break tests continued. Of the 28 tests conducted, 23 have been through the data integrity process.
28. Pre-LOCE data integrity checks for L3-2 were completed.
29. An uncertainty analysis for L3-1 break flow was completed. Results will be released in February.

LOFT FUEL FABRICATION

1. Change orders were issued to Exxon for the following:
 - a) Perform orifice sizing, flow distribution, and 1500-hour flow tests to verify the design of the A3 and F1 inlet flow meter installation.
 - b) Change the F1 fuel bundle prepressurized fuel rod pressure from 350 to 700 psi to obtain cladding ballooning and rupture during a large-break LOCE in LOFT.
 - c) Change one F1 instrumented fuel rod model to correct an error that was made in the A3 fuel bundle instrumented fuel rod arrangement.
 - d) Fabricate two stable-density prepressurized fuel rods for the F1 fuel bundle for evaluation of fuel densification effects.

2. A proposed paper, "Fuel Rod Stored Energy Estimates for the LOFT LOCA Tests," was sent to the American Nuclear Society for consideration for presentation at the annual meeting in Las Vegas, Nevada.
3. Improvement of the cladding thermocouple movie production computer code capability was completed. The improvements include spacer grid location, color capability, and flexibility to show data from other than LOFT tests and predictions from other than FRAP code.
4. The fuel requalification working group recommendations for fuel requalification for test L3-2 were issued to the fuel requalification review committee. Exxon Nuclear Co. reviewed the working group recommendation and attached information and judged that the appearance of the A1 center fuel bundle was comparable with that of commercial power reactor fuel bundles of similar burnup. The review committee concurred with the working group recommendation.
5. The MODCOMP computer for collection and processing of the data produced by the fuel rod defect scanner equipment was delivered (construction line item project).

LOFT TEST SUPPORT

1. The experiment operating specification (EOS) for L3-2 was extensively revised for the recovery portion of the LOCE. The revisions were incorporated in Revision 2 to the L3 series EOS.
2. The blowdown experiment safety analysis for L3-2 was completed and documented in LTR-LO-08-80-145.
3. A draft LTR that documents analysis to support a change in the L2-6 fuel prepressurization level has been prepared and is in for internal review.

4. A draft LTR that documents analysis done in support of L3-5 and L3-6 test planning has been prepared for internal review.
5. The LOFT Experimental Program Document has been reviewed and revised, and is being prepared for final internal approval.
6. Test preparations for L3-2 were begun, which include minor revisions of the EOS, review of experiment safety analysis, experiment operating procedures, and emergency recovery procedures.
7. Detailed planning for a natural circulation test to evaluate the PNA instrument performance was completed.
8. A draft EOS for L3-5 and L3-6 was prepared. Members of the program planning staff attended a meeting in Washington D.C., where it was concluded that the test should be conducted nonnuclear.
9. The L3-2 experimental prediction using both the RELAP4 and RELAP5 computer codes was completed and documented.
10. Several additional runs were completed to explain differences between the RELAP4 and RELAP5 predictions.
11. The RELAP4 model for pumps-on/pumps-off tests L3-5 and L3-6 was basically completed.
12. A pretest prediction consistency committee meeting was held to review Energy Incorporated's L6 series model to be used for the experiment prediction (EP).
13. Final review of the L2-3 posttest report was completed and the report was prepared for printing.
14. The sensitivity study to identify core bypass threshold limits in L3-1 using RELAP4 and RELAP5 is continuing.

15. A study was made to investigate potential methods to define core bypass flow and natural circulation flow using current LOFT instrumentation.
16. Preparation of the quick-look report draft for LOCE L3-2 was completed.
17. Analysis of the flow characteristics of the L3-5/L3-6 break configuration and downstream geometry was completed. Design specifications for the components resulting from the analyses were completed.
18. A letter announcing the next LOFT Review Group Meeting (February 27th and 28th) was completed. A preliminary subject agenda was defined and approved by LOFT management and NRC. A final agenda is scheduled for completion by mid-February.
19. A study of the comparison of Loft L3-1 results with Semiscale counterpart experiment S-SB-4 was made. The study showed that Semiscale is a good predictive facility for small breaks in LOFT.
20. A study of natural circulation and means of calculating it from core temperature differential was started. A code is being prepared to handle the calculation, which includes heat source terms from stored energy, core neutronics, and fission product decay.
21. Preparation of a paper on LOFT LOCE L2-3, requested by Nuclear Technology, was begun.
22. A study of the polytropic gas constant in the accumulator (N_2) was completed. A LOFT data report was drafted on the subject and is expected to be issued during the next reporting period.
23. The L3-1 experiment data report (EDR) was completed and transmitted on schedule.

24. The technical specifications for the L3-4 spoolpiece (layout and instrumentation) were completed and transmitted. L3-4 will be a small break through the PORV. The spoolpiece will be installed downstream of the PORV.
25. Paul Bayless presented L3-1 experimental data at the Massachusetts Institute of Technology. He also answered questions about EG&G Idaho.
26. Results of the L3-1 experiment were presented January 8th at the NRC Headquarters in Washington D.C. by D. L. Batt.
27. Flow multipliers were determined for L3-1 and L3-2 from Wyle data. The multipliers were given to the Analytical Model Application Section for use in the L3-1 posttest and L3-2 experiment prediction.
28. Completed and issued all information for the International Standard Problem on L3-1.
29. An ANS summary was submitted entitled, "Fuel Rod Stored Energy Estimates for the LOFT LOCA Tests," for presentation at the ANS Annual Meeting in June. The summary presents the results of FRAPCON calculations and analysis of L2-2 and L2-3 cladding response data to estimate fuel rod stored energy.
30. Calculations were completed to estimate the perturbation effect of LOFT Centerline Fuel Thermocouples. The results indicate that analysis will be required for interpretation of the thermocouple data.
31. Calculations were completed and documented describing the potential of using a scram test to estimate fuel rod stored energy. The results indicate the core T response after rapid scram can be related to steady-state stored energy.

32. FRAP-T5 calculations were completed to estimate L2-6 cladding deformation. Results indicate high pressurization (4.0 MPa) will be required to achieve significant cladding ballooning.
33. A program plan for the Swiss NEPTUN facility describing LOFT support tests was completed and mailed to Switzerland for review.
34. Data processing and analysis continued in support of publication of experimental data reports about the Wyle transient test program. Completed EDR for tests IA101, IA102, and IA103.
35. An analysis report for the single rod quench test has been completed. Preparations for the nine-rod bundle test are proceeding on a schedule compatible with heater rod delivery. Catch tank and spoolpiece design have been approved and fabrication has begun for the L3-5 spoolpiece test.

LOFT Test Support Facility (LTSF)

Analysis was completed to verify structural adequacy of the FAST Loop spool-piece. Engineering was completed to modify a valve in the Blowdown Loop to make it a quick-opening valve. Installation of position indicators for the Blowdown Loop control valves was finished.

Two-Phase Flow Loop

Testing of individual systems of the two-phase flow loop was completed. Checkout of boiler system and all preparation for boiler startup was finished. Design problems with the Natco Boiler delayed full operation of the steam side of the loop. Engineering for the remote diesel control panel was completed. Checkout of all instrumentation in the two-phase loop was completed. Five damaged transmitters were returned to the vendor for repair. MODCOMP software modifications to calculate on-line steam and water mass flow were finished.

SUMMARY OF AUSTRIAN-FUNDED (SGAE) TASKS

1. Task 5FAC1 -- SGAE Management

Status: SGAE will perform RELAP4/MOD6 scaling studies of LPWR Semiscale MOD3 and LOFT Small Break Configurations. However, a recent letter from SGAE indicated that RELAP4/MOD6 will not be operational until June 1980.

SUMMARY OF NETHERLANDS-FUNDED (ECN) TASKS

1. Task 5FNC1 -- ECN Management

Status: A proposal to compile critical flow data on pipes ranging in size from less than an inch to 30 inches has been started.

2. Task 5FNC3 -- Rensselaer Polytechnic Institute (RPI) Subcontract

Status: The modeling activities required to handle critical flow are continuing. The frozen droplet model will limit the application to orifices with an L/D 3. Steam tables are being added to the model in order to obtain the proper derivatives of v_f and v_{fg} at the vena contracta which are required in Lahey's model of critical mass flow at the orifice.

Seven graduate students are working on this project but only one is receiving any support.

3. Task 5FNC4 -- INEL Support

Status: Drawings of MDTT rake were reviewed and information assembled for shipment to P. Kamath at RPI. The Engineering Data Report (EDR) from LOFT broken loop cold leg simulation at Wyle was finished and processing was started to reformat data for RPI use.

SUMMARY OF GERMAN/JAPANESE SHARED TASKS

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

Status: Reported elsewhere.

2. Task 5F9C3 -- TRAC Code Studies

Status: No change.

SUMMARY OF GERMAN-FUNDED (FRG) TASKS

1. Task 5F7C1 -- FRG Management

Status: CCBs that were submitted to DOE for approval for a task to modify the Two-Phase Loop to include a vertical test section and low flow rate capability to support LOFT core instrumentation calibration were withdrawn. The CCBs will be resubmitted at a later date.

2. Task 5F7C3 -- Core Instrumentation

Status: Arrangements have been made for final calibration of the orifice to be completed in connection with flow testing at Exxon. This task will be closed out.

3. Task 5F7C4 -- Miscellaneous Tasks

Status: Processing was completed of Wyle transient test data for LOFT intact loop cold leg tests, with data from the ECC pitot tube rake included.

4. Task 5F7C5 -- Steam Probe

Status: A letter was obtained that summarized results of testing done at ARA and forwarded with conclusions and recommendations to management for review.

5. Task 5F7C8 -- LOFT State Vector

Status: A CCB has been submitted to prepare a cost and schedule estimate for a LOFT state vector for instantaneous evaluation of a pressurized water reactor system status, evaluate it with data from LOFT experiments, and submit recommendations to NRC for use in evaluating licensee-developed state vectors.

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 in February 1980.

2. Task 5F8C6 -- Reevaluation of LOFT Experiments

Status: This task is complete except for revision of a final report which has been rescheduled for completion in February.

3. Task 5F8C8 -- Suppression Catch Tank

Status: Uncertainties in the calibration of the LOFT small break instrumentation will be improved as a result of a suppression catch tank weighing system. CCB No. 80-52 was approved and provided the funding to fabricate and assemble the catch tank.

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 JANUARY 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	10.5	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
			<u>German Tasks</u>													
156	156	152.2	5F7C1 FRG Management	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0
1618	1618	1618	5F7C2 Completed Tasks													
1006	1006	939	5F7C3 Core Instruments	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0
50	50	28	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	948	5F7C92 Shared - Steady State Tests	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0
50	50	49	5F7C93 Shared - TRAC Code Studies	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0
<u>JAERI Tasks</u>															
202	202	175.5	5F8C1 JAERI Management	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0
750	750	750	5F8C2 Completed Tasks	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0
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

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
20	20	10	5F8C7 Miscellaneous Codes	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0
800	750	748	5F8C92 Shared Steady State Tests	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0
50	50	31	5F8C93 Shared - TRAC Code	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0
43	41	1	5F8C8 Suppression Tank For Blowdown Facility												

LOFT Program Cost/Budget Summary LOFT OVERALL FUNDING

The NCR operating and foreign-funded budgets reflect the LOFT Q80-3-1 baseline approved in January. Refer to the Director's Monthly Summary for comments.

EG&G IDAMO INC.

LOFT - NRC OPERATING FUNDING

TOTAL PROGRAM

BUDGET	3368	6000	12501	15793	19269	23776	27266	30291	33825	36556	40146	43814
ACTUAL	4387	8043	13186	16395								

MATERIAL

BUDGET	1486	2610	6752	8054	9397	11201	12388	13267	14321	15074	16084	17774
ACTUAL	2272	4837	6254	7892								

MANPOWER

BUDGET	489	447	486	529	568	530	560	517	498	542	512	481
ACTUAL	549	577	582	588								

BUDGET

ACTUAL

The budget reflects the LOFT Q80-3-1 Baseline approved in January. Refer to the Director's Monthly Summary and the Summary Cost Account cost graphs for detailed cost versus budget comments.

EG&G IDAHO INC.

LOFT - FOREIGN FUNDING

NUMER 5F000.0000

TOTAL PROGRAM

BUDGET	510	731	999	1246	1380	1551	1599	1684	1675	1689	1711	1720
ACTUAL	316	310	718	951								

MATERIAL

BUDGET	474	663	911	1131	1258	1386	1437	1482	1480	1495	1506	1514
ACTUAL	298	458	832	1045								

MANPOWER

BUDGET	9	8	4	7	4	4	2	5	1	3	2	0
ACTUAL	4	6	7	8								

BUDGET

ACTUAL

The year-to-date budget includes reserve and contingency of approximately \$282,000. Corrective action has been initiated to correct the distribution of the reserves.

EG&G IDAHO INC.

NRC 189A A6048 - EXPER PROGRAM

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	388	572	872	1282	1623	2088	2542	2935	3401	3736	4147	4562
ACTUAL	228	528	1028	1485								

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	108	194	320	428	529	651	788	923	1078	1179	1301	1529
ACTUAL	34	108	321	549								

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	48	50	58	61	84	83	78	63	60	63	55	44
ACTUAL	45	54	55	58								

BUDGET

ACTUAL

The year-to-date overrun reflects the increased costs associated with the scientific computer. These accounts will be monitored for corrective action.

EG&G IDAHO INC.

NRC 189A A6053 - FUEL

NUMBER 5N2000000

TOTAL PROGRAM

BUDGET	479	858	1381	1712	2149	2712	3021	3293	3600	3781	4024	4355
ACTUAL	185	805	1038	1294								

MATERIAL

BUDGET	388	684	1080	1352	1688	2123	2311	2465	2626	2679	2757	2962
ACTUAL	83	601	730	836								

MANPOWER

BUDGET	22	22	22	20	26	25	29	26	31	35	33	30
ACTUAL	25	28	21	41								

BUDGET

ACTUAL

See 5N3000000 for comment.

EG&G IDAHO INC.

NRC 189A A6043 - EXPER INSTR

NUMBER 5H3000000

TOTAL PROGRAM

BUDGET	723	1292	2029	2759	3524	4499	5149	5671	6296	6803	7481	8066
ACTUAL	748	1881	2577	3325								

MATERIAL

BUDGET	446	737	1111	1464	1805	2284	2567	2772	2986	3148	3337	3567
ACTUAL	192	821	947	992								

MANPOWER

BUDGET	77	69	77	101	114	96	90	78	81	94	93	91
ACTUAL	145	141	145	157								

BUDGET

ACTUAL

The year-to-date variance is primarily a result of realignment of the budget to reflect the Q80-3-1 baseline. Costs are being accumulated in this schedule 189a that will be transferred to other accounts in the near future.

EG&G IDAHO INC.

NRC 189A A6107 - PLANT SUPPORT

TOTAL PROGRAM

BUDGET	688	1245	4797	5505	6195	7022	7775	8335	8974	9487	10133	10807
ACTUAL	1992	3329	4183	4984								

MATERIAL

BUDGET	267	492	3452	3763	4624	4482	4683	4824	5027	5220	5485	5878
ACTUAL	1878	2720	3877	3184								

MANPOWER

BUDGET	88	88	112	108	88	88	108	88	88	78	68	62
ACTUAL	81	84	102	88								

BUDGET

ACTUAL

The year-to-date variance reflects a materials budget for items not yet received. In addition, some work has been delayed as a result of the plant not being available for work, and delays associated with conceptual design difficulties.

EG&G IDAHO INC.

NRC 189A A6122 - CORE & SAFE SPT

NUMBER SMS000000

TOTAL PROGRAM

BUDGET	310	951	920	1000	1420	1890	2152	2431	2707	2945	3217	3764
ACTUAL	300	664	1311	1875								

MATERIAL

BUDGET	107	100	275	350	405	630	730	820	892	950	1074	1319
ACTUAL	150	200	602	753								

MANPOWER

BUDGET	44	40	34	30	53	40	44	42	36	42	44	43
ACTUAL	40	42	40	45								

BUDGET

ACTUAL

The overrun continues to reflect computer charges higher than anticipated and hot shop charges above budgeted number. Additional detail is provided on the Summary Cost Account reports.

EG&G IDAHO INC.

NRC 189A A6110 - COMMON SUPPORT

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	298	537	872	1148	1424	1707	2000	2302	2705	3043	3422	3778
ACTUAL	267	520	820	1087								

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	33	61	99	130	161	202	237	273	315	348	392	495
ACTUAL	39	96	130	157								

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	60	65	67	68	69	67	68	68	67	73	70	65
ACTUAL	62	58	68	57								

BUDGET

ACTUAL

The year-to-date variance is a result of not staffing the safety support as planned. Corrective action is being taken.

EO&O IDAMO INC.

NRC 189A AG054 - FACILITY OPER

WAFER 5N7000000

TOTAL PROGRAM											
BUDGET	400	922	1511	2004	2081	3468	4111	4798	5931	8144	8058
ACTUAL	612	1204	1908	2937							7726

MATERIAL											
BUDGET	76	144	236	324	414	533	626	723	837	927	1046
ACTUAL	67	178	288	344							1271

MANPOWER											
BUDGET	112	113	118	141	148	142	148	146	143	156	146
ACTUAL	144	181	141	142							

See 5N8000000 for comment.

EG&G IDAHO INC.

A6108 - AUGEM OPER CAPABILITY

TOTAL PROGRAM

BUDGET	60	111	180	237	294	360	428	498	568	617	662	755
ACTUAL	0	62	206	487								

MATERIAL

BUDGET	60	111	180	237	294	360	428	498	568	617	662	755
ACTUAL	0	25	180	356								

HANPOWER

BUDGET	0	0	0	0	0	0	2	8	0	0	0	0
ACTUAL	0	0	8	10								

BUDGET

ACTUAL

The estimated budget values do not reflect the current revised plan submitted to PMS-IV. The actuals shown include about \$200,000, which should have been charged to CE funding. A cost transfer request has been written.

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								

MATERIAL

BUDGET	2	4	6	8	10	13	13	13	13	13	13	13
ACTUAL	0	0	0	0								

MANPOWER

BUDGET	0	0	0	0	0	0	0	0	7	0	0	0
ACTUAL	0	0	0	0								

BUDGET

ACTUAL

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

EG&G IDAHO INC.

A6271 - NETHERLANDS FUNDS

NUMBER SFNC00000

TOTAL PROGRAM

	BUDGET	10	33	53	70	85	90	93	95	98	101	104	107
ACTUAL		0	0	0	0								

MATERIAL

	BUDGET	10	20	40	63	70	82	85	88	91	94	97	99
ACTUAL		0	0	0	0								

MANPOWER

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

This includes 54,000 for reserve. The year-to-date budget is within \$4,000 of planned.

EG&G IDAHO INC.
A6104 - GERMAN FUNDS

NUMBER 5F7C00000

TOTAL PROGRAM

BUDGET	238	355	508	724	829	929	992	998	1002	1004	1011	1017
ACTUAL	6	102	150	403								

MATERIAL

BUDGET	218	319	508	682	763	853	878	904	906	908	915	920
ACTUAL	3	98	148	497								

MANPOWER

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

BUDGET

ACTUAL

About \$100,000 of the year-to-date underrun represents a charging error incorrectly charging to 5F8C92. The balance of the underrun represents delays in spending on other projects and a reduction in the cost of foreign project management.

EO&G IDAHO INC.

A6111 - JAPANESE FUNDS

NUMBER 9FBC00000

TOTAL PROGRAM

BUDGET	295	339	383	432	474	526	540	558	560	569	581	591
ACTUAL	29	135	174	487								

MATERIAL

BUDGET	239	311	347	377	487	447	480	478	480	480	482	482
ACTUAL	25	128	180	489								

HANPOWER

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

BUDGET

ACTUAL

No significant variance.

EO&G IDAHO INC.
MANAGEMENT

TOTAL PROGRAM

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

MATERIAL

BUDGET	2	4	0	0	10	13	13	13	13	13	13	13	13
ACTUAL	0	0	0	0									

MANPOWER

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

BUDGET

ACTUAL

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

EG&G IDAHO INC.

MANAGEMENT

TOTAL PROGRAM

BUDGET	13	23	38	50	62	63	63	63	63	63	63	63
ACTUAL	0	0	0	0								

MATERIAL

BUDGET	13	23	38	49	61	63	63	63	63	63	63	63
ACTUAL	0	0	0	0								

BUDGET

ACTUAL

MANPOWER

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

Presently inactive. Includes reserve and contingencies of \$54,000 for the Netherlands work.

EG&G IDAMO INC.
RPI SUBCONTRACT

NUMBER WFNC8888

TOTAL PROGRAM

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

MATERIAL

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

BUDGET

ACTUAL

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	0
ACTUAL	0	0	0	0	0							

No significant variance.

EG&G IDAHO INC.

INEL SUPPORT

NUMBER SFHC70000

TOTAL PROGRAM

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

MATERIAL

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

MANPOWER

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

BUDGET

ACTUAL

Work has been delayed.

EG&G IDAHO INC.

MANAGEMENT

NUMBER SF 7C10000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	50	127	180	253	340	362	362	362	362	362	362
ACTUAL	2	3	3	8								

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	50	127	180	253	340	358	358	358	358	358	358
ACTUAL	0	1	1	8								

MANPOWER

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

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	5	5	13	13								

MATERIAL

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

MANPOWER

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

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
SHORT TERM TASKS

NUMBER SF7C48880

TOTAL PROGRAM

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

MATERIAL

BUDGET	0	0	0	0	0	0	0	0	0	2	8	13
ACTUAL	0	0	0	0								

HANPOWER

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

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								

MATERIAL

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

MANPOWER

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

BUDGET

ACTUAL

This activity has incurred delays due to higher priority work associated with the Wyle Test data reporting. Activity is planned to resume next month.

EO&O IDAHO INC.

SHARED TASKS - STEADY STATE TEST

TOTAL PROGRAM

BUDGET	226	267	401	511	528	528	528	528	528	528	528	528
ACTUAL	0	13	15	397								

MATERIAL

BUDGET	215	267	379	489	500	500	500	500	500	500	500	500
ACTUAL	0	13	15	397								

MANPOWER

BUDGET	3	3	6	0	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0								

BUDGET

ACTUAL

This account should have costs of an additional \$100,000 incorrectly charged to 5F8C92. After this \$100,000 correction, no significant variance will exist.

EG&G IDAMO INC.

MANAGEMENT

NUMBER WFS010000

TOTAL PROGRAM

BUDGET	28	52	85	112	138	174	177	177	177	177	177	177
ACTUAL	28	40	18	22								

MATERIAL

BUDGET	24	44	71	94	117	148	148	148	148	148	148	148
ACTUAL	25	30	4	4								

MANPOWER

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

BUDGET

ACTUAL

No significant variance. This account includes a reserve and contingency of \$77,000.

EO&G 10, 40 INC

DIT - ADVANCED

NUMBER SFBC40000

TOTAL PROGRAM

BUDGET	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	0	0	0	0	0	0	9	20	20
ACTUAL	1	1	0	0								

MATERIAL

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

MANPOWER

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

BUDGET

ACTUAL

No significant variance.

LABOR IDAHO INC
RE EVAL LOFT EXPS

NUMBER 578060000

TOTAL PROGRAM

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

MATERIAL

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

MANPOWER

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

No significant variance.

EG&G IDAHO INC.
CODE STUDIES

NUMBER 9F8C78888

TOTAL PROGRAM

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

MATERIAL

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

MANPOWER

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

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

SUPPRESSION CATCH TANK

NUMBER SF8CB0000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	12	25	41	42	42	43	43	43	44
ACTUAL	0	0	0	1								

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	7	15	25	25	25	25	25	25	25
ACTUAL	0	0	0	0								

MANPOWER

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

BUDGET

ACTUAL

No significant variance.

EO&G IDAHO INC.

SHARED TASKS - STEADY STATE TEST

NUMBER SF8C98000

TOTAL PROGRAM

BUDGET	226	267	298	298	298	298	298	298	298	298	298	298
ACTUAL	0	13	15	397								

MATERIAL

BUDGET	215	267	278	278	278	278	278	278	278	278	278	278
ACTUAL	0	13	15	397								

MANPOWER

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

BUDGET

ACTUAL

This account shows an overspend of \$100,000 due to a charging error. The \$100,000 should have been charged to 5F7C5.

EG&G IDAHO INC.

SHARED TASKS - TRAC CODE STUDIES

TOTAL PROGRAM

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

MATERIAL

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

BUDGET

ACTUAL

HANPOWER

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

A cost reduction of \$76,000 is due to incorrect charges being corrected. Actuals still show incorrect charges that are being researched.

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

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	208	403	671	903	1109	1408	1677	1936	2230	2455	2768	2957
ACTUAL	130	322	500	932								

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	78	144	240	326	391	478	568	652	753	835	943	1012
ACTUAL	26	82	178	379								

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	29	33	33	39	34	37	39	38	34	35	27	26
ACTUAL	25	29	31	33								

BUDGET

ACTUAL

Increased computer costs and large computer usage during January caused excessive actuals. New computer cost algorithms and more reasonable computer usage should keep costs within budget for remainder of year.

EG&G IDAHO INC

ELEC HEATER ROD EVAL

NUMBER SNIC00000

TOTAL PROGRAM

BUDGET	3	6	10	14	17	22	24	26	28	29	30	30
ACTUAL	13	35	65	82								

MATERIAL

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

MANPOWER

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

The actual cost to date for the Swiss Reflood work is \$14,000. The costs shown above include \$70,000 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	183	291	366	487	651	840	973	1143	1252	1349	1427
ACTUAL	77	184	370	451								

MATERIAL

BUDGET	30	49	78	100	131	166	226	266	320	338	353	364
ACTUAL	6	19	134	158								

MANPOWER

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

BUDGET

ACTUAL

The material charging rate for January 1980 still reflects the increased costs of the CYBER 176 System. The actual expenditure rate in the next two to three months, will approach the planned costs due to the new charging algorithms for the Cyber 176.

EG&G IDAHO INC.

FUEL - REFUEL DESIGN & ANALYSIS

NUMBER 542000000

TOTAL PROGRAM

BUDGET	450	800	1270	1600	2012	2543	2823	3004	3340	3507	3715	3890
ACTUAL	174	773	964	1167								

MATERIAL

BUDGET	304	676	1068	1336	1669	2100	2284	2434	2591	2641	2714	2780
ACTUAL	83	597	710	816								

MANPOWER

BUDGET	17	16	15	14	16	19	22	21	25	29	26	25
ACTUAL	23	22	16	35								

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 fabrication. Recovery by year-end is expected.

EG&G IDAHO INC.

POST TEST EXAM

NUMBER 342F00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	21	49	83	107	137	169	198	219	251	273	309	331
ACTUAL	11	32	74	98								

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	4	8	12	15	18	23	27	30	35	38	42	46
ACTUAL	0	4	10	20								

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	5	7	7	6	7	6	6	5	6	6	6	5
ACTUAL	2	5	5	5								

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

EXPR INST - EXPR MEAS BR 6110

TOTAL PROGRAM

BUDGET	263	518	948	1434	1991	2584	3091	3383	3730	4018	4388	4682
ACTUAL	416	721	1180	1652								

MATERIAL

BUDGET	84	180	411	641	886	1240	1423	1528	1623	1690	1755	1799
ACTUAL	104	155	252	382								

MANPOWER

BUDGET	45	39	45	60	62	65	57	44	50	60	60	60
ACTUAL	62	71	79	94								

BUDGET

ACTUAL

About \$128,000 of the overrun is attributed to the transfer of funds to management reserve and delays in CCBs transferring this work to foreign funds. CCBs are in progress to adjust the remaining overage.

EG&G IDAHO INC.

EXPR INST - TEST SUPT BR 6140

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	412	630	948	1018	1161	1348	1591	1854	2037	2193	2174	2320
ACTUAL	262	901	1006	1179								

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	285	395	466	516	538	565	587	609	635	656	663	704
ACTUAL	44	580	491	520								

HANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	32	31	32	32	32	31	32	32	31	34	33	30
ACTUAL	41	47	43	38								

BUDGET

ACTUAL

The continued budget overrun is reflective of early accomplishments of work schedule in first quarter. The work schedule is being restored to the normal rate, and labor usage is being brought into check.

EG&G IDAHO INC.

EXPR INST - ADVANCE INST BR 3720

NUMBER 5N3000000

TOTAL PROGRAM

BUDGET	78	144	234	307	381	478	557	634	728	802	899	973
ACTUAL	130	299	391	490								

MATERIAL

BUDGET	78	144	234	307	381	478	557	634	728	802	899	973
ACTUAL	45	87	104	111								

MANPOWER

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

BUDGET

ACTUAL

A CCB action has been submitted to reflect the current work scope. The cost allocation to Semiscale and 3-D will begin in February.

EG&G IDAHO INC.

PLANT SUPPORT - PLANT SYS NO 3

TOTAL PROGRAM

BUDGET	228	385	590	753	889	1029	1110	1181	1228	1258	1303	1354
ACTUAL	119	178	242	322								

MATERIAL

BUDGET	98	170	247	348	433	519	549	585	578	587	597	616
ACTUAL	73	99	130	153								

MANPOWER

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

BUDGET

ACTUAL

To support the program's small-break test sequence, funding scheduled for the first and second quarters was held until final test definition could be established. This has accounted for approximately \$160,000 of the variance shown. The balance of the variance is attributed to plant availability and undelivered material currently on order.

EG&G IDAHO INC

PLANT SUPPORT - PLANT SYS NO 1

NUMBER 5NY100000

TOTAL PROGRAM

BUDGET	87	163	270	389	482	603	728	829	906	1069	1232	1391
ACTUAL	49	149	208	346								

MATERIAL

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

MANPOWER

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

No significant variance.

EG&G IDAHO INC

PLANT SUPPORT - PLANT SYS NO 2

TOTAL PROGRAM												
BUDGET	232	378	543	668	781	874	1162	1285	1430	1602	1815	2038
ACTUAL	126	226	422	483								

MATERIAL												
BUDGET	145	227	310	373	431	557	653	706	786	913	1069	1244
ACTUAL	65	82	176	181								

MANPOWER												
BUDGET	21	18	17	16	13	13	23	17	13	11	11	11
ACTUAL	22	22	19	15								

This WBS includes two facility accounts supporting the Automatic Ultrasonic Testing and Inservice Inspection Programs. These accounts are controlled by the support organization and used to support LOFT as the work windows become available. Showing as all material dollars, the AUT and ISI Programs contribute \$126,000 to the variance shown, and is attributed to plant availability. The balance of the variance is caused by outstanding commitments on undelivered material.

EG&G IDAHO INC.

PLANT SUPPORT - P&C REACTOR CONT

TOTAL PROGRAM

BUDGET	00	200	351	530	680	903	1000	1200	1304	1498	1551	1627
ACTUAL	81	171	271	354								

MATERIAL

BUDGET	15	61	115	180	262	337	400	440	492	506	521	545
ACTUAL	7	20	41	48								

MANPOWER

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

BUDGET

ACTUAL

Approximately \$65,000 in spares funding has not been expended yet because of design delays. The major TIP systems rework has not been started as scheduled and is now being reconsidered. RV level indication design is not progressing as planned due to engineering feasibility problems. Some material procurement budget items need to be rescheduled to be consistent with present delivery schedules.

EG&G IDAHO INC.

PLANT SUPPORT - P&C I&E SUPPORT

NUMBER SNVP00000

TOTAL PROGRAM

BUDGET	96	119	239	349	438	532	646	739	826	948	981
ACTUAL	77	103	162	210							

MATERIAL

BUDGET	7	23	42	64	79	94	112	121	127	132	141	151
ACTUAL	38	110	49	90								

MANPOWER

BUDGET	12	12	20	22	19	16	20	19	19	14	10	6
ACTUAL	11	10	9	19								

BUDGET

ACTUAL

Reliability and accuracy analyses for critical instruments are behind schedule due to limited manpower availability of analytical personnel. Several radiation monitoring system upgrade activities are behind schedule due to the delayed deliveries of monitors and a shortage of design engineering personnel.

A significant fraction of available electrical design support has been diverted to support short-range pretest modifications.

EG&G IDAHO INC.

SPECIAL PROCESS SPARES

TOTAL PROGRAM

BUDGET	C	0	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
ACTUAL	1535	2418	2713	2634									

MATERIAL

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

MANPOWER

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

BUDGET

ACTUAL

This budget includes the total NRC Special Process Spares for the NRC INEL programs. The \$66,000 reflects a contract for some detectors being purchased by the Thermal Fuels Behavior Program. Corrective action will be taken in February.

EG&G IDAHO INC.

THREE MILE ISLAND SUPPORT

TOTAL PROGRAM

BUDGET	0	0	84	118	188	218	284	350	418	471	541	600
ACTUAL	0	0	48	108								

MATERIAL

BUDGET	0	0	35	64	93	131	162	192	226	258	296	328
ACTUAL	0	0	2	22								

MANPOWER

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

No significant variance.

EG&G IDAHO INC.

CORE & SAFETY SUPT - PROT & CONT

The computer cost associated with performing LOCE safety analyses was higher than anticipated. About \$250,000 from last fiscal year was charged to this fiscal year. Efforts are being made to correct this variance.

EG&G IDAHO INC.

CORE & SAFETY SUPT - REACTOR SYS

TOTAL PROGRAM

BUDGET	110	210	354	486	591	752	886	1018	1175	1301	1467	1597
ACTUAL	93	180	330	475								

MATERIAL

BUDGET	17	32	51	68	87	111	132	152	177	198	225	246
ACTUAL	9	22	40	52								

MANPOWER

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

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

CORE & SAFE SUPT - FUEL ENG & OP

NUMBER BMSH00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	81	149	231	323	414	533	626	706	799	872	950	1021
ACTUAL	39	109	200	275								

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	35	64	104	153	200	263	316	356	399	429	463	491
ACTUAL	3	19	266	208								

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	11	10	9	11	11	11	10	10	10	12	10	9
ACTUAL	0	11	11	10								

The reduction in actuals reflects an adjustment to Hot Shop charges to correct previous overcharges.

E & O IDAHO INC.

COMMON SUPT - CDCS/TECH SUPPORT

TOTAL PROGRAM

BUDGET	7%	138	224	294	360	408	535	611	703	775	871	943
ACTUAL	68	177	254	312								

MATERIAL

BUDGET	18	35	57	75	93	117	138	155	178	196	219	238
ACTUAL	14	68	82	108								

BUDGET

ACTUAL

MANPOWER

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

No significant variance. Materials costs are moving back to budget as the VSMF contract cost is spread out.

EG&O IDAHO INC.

COMMON S'PT - QUALITY

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	102	109	307	404	501	620	724	830	908	1008	1107	1200
ACTUAL	80	164	298	381								

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	6	11	17	23	29	36	42	47	54	60	67	73
ACTUAL	1	8	10	14								

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	24	22	23	24	24	23	24	24	23	25	24	22
ACTUAL	21	18	24	21								

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

COMMON SUPT - PLANS & BUDGETS

NUMBER SHSV00000

TOTAL PROGRAM

BUDGET	71	132	214	282	350	439	518	594	687	760	857	931
ACTUAL	84	128	197	282								

MATERIAL

BUDGET	7	12	20	26	33	41	50	59	70	76	89	98
ACTUAL	22	14	20	20								

MANPOWER

BUDGET	18	18	18	18	18	18	18	18	18	20	18	18
ACTUAL	18	17	16	18								

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	JUL	AUG	SEP
BUDGET	42	78	127	167	206	251	304	348	400	442	487	538
ACTUAL	26	51	80	102								

MATERIAL

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

BUDGET

ACTUAL

MANPOWER

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

The underrun of 5N6Z has been due to understaffing due to transfer of Radiological Engineers. A new engineer has been hired. Another will be on board during mid-March.

EG&G IDAHO INC
LOF1 OPERATIONS BRANCH

TOTAL PROGRAM

BUDGET	150	200	400	600	800	1175	1401	1629	1901	2116	2400	2625
ACTUAL	150	441	600	662								

MATERIAL

BUDGET	50	96	92	127	163	211	240	287	332	360	416	454
ACTUAL	50	78	124	150								

MANPOWER

BUDGET	34	34	35	40	40	47	48	48	47	51	48	48
ACTUAL	41	51	48	51								

BUDGET

ACTUAL

This overrun was due to the use of significant amounts of overtime in the first quarter of FY-80. The increase in labor budget for the balance of the year and a decrease in anticipated spending rate is expected to resolve the problem.

EG&G IDAHO INC.
LOFT TEST & DATA

NUMBER SM7TG0000

TOTAL PROGRAM

BUDGET	105	199	320	442	560	715	843	971	1125	1246	1406	1534
ACTUAL	121	246	384	481								

MATERIAL

BUDGET	10	19	30	41	53	66	80	92	107	118	133	145
ACTUAL	14	24	28	37								

MANPOWER

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

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

LOFT FACILITY SUPPORT

NUMBER 5H7U00000

TOTAL PROGRAM

BUDGET	191	382	594	811	1038	1231	1574	1817	2108	2338	2642	2895
ACTUAL	291	499	783	1092								

MATERIAL

BUDGET	33	63	103	148	178	227	267	307	384	382	442	481
ACTUAL	33	67	111	138								

BUDGET

ACTUAL

MANPOWER

BUDGET	44	44	45	53	55	53	54	54	53	58	56	54
ACTUAL	61	64	61	58								

This overrun was due to the use of significant amounts of overtime in the first quarter of FY-80. The increase in labor budget for the balance of the year and a decrease in anticipated spending rate is expected to resolve the problem.

EG&G IDAHO INC.
OUTSIDE SERVICE SUPPORT

NUMBER 5N7200000

TOTAL PROGRAM

BUDGET	32	61	101	142	186	245	292	340	388	443	503	551
ACTUAL	42	88	148	193								

MATERIAL

BUDGET	3	6	10	15	20	25	32	37	43	48	55	60
ACTUAL	3	10	14	18								

BUDGET

ACTUAL

MANPOWER

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

The labor budget was input to reflect a time lag in staffing to the anticipated manpower requirements for the fiscal year. During this time lag, overtime has been used to perform necessary work that has resulted in a successful small-break test and the subsequent work window.

EG&G IDAHO INC.

AUGMENTED OPER CAPABILITY

TOTAL PROGRAM

BUDGET	60	111	180	237	294	360	420	486	560	617	692	755
ACTUAL	0	62	200	467								

MATERIAL

BUDGET	60	111	180	237	294	360	420	486	560	617	692	755
ACTUAL	0	25	180	356								

MANPOWER

BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	0	9	9	10								

BUDGET

ACTUAL

No significant variance. A reassessment of the detailed estimate for this work is in progress.

EG&G IDAHO INC.
EXP. MEAS - BR SUPPORT

TOTAL PROGRAM												
BUDGET	23	43	70	93	115	145	169	194	223	246	276	302
ACTUAL	13	31	67	96								

MATERIAL												
BUDGET	9	16	27	39	44	55	64	74	84	93	104	111
ACTUAL	9	20	43	56								

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

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

EXP MEAS - DAVOS SUPPORT

TOTAL PROGRAM

BUDGET	22	40	65	88	108	134	158	178	205	227	255	276
ACTUAL	25	41	57	74								

MATERIAL

BUDGET	2	3	5	7	9	11	12	14	16	18	20	22
ACTUAL	8	6	6	6								

MANPOWER

BUDGET	5	5	5	5	5	5	5	5	5	5	5	5
ACTUAL	4	4	3	4								

BUDGET

ACTUAL

No significant variance. Training task on the prime computer was inadvertently charged to the wrong account. Corrective action has begun.

EG&G IDAHO INC

EXP MEAS - MEAS SYSTEM A

TOTAL PROGRAM

BUDGET	98	201	353	506	655	1124	1249	1386	1511	1640	1797	1916
ACTUAL	173	278	452	664								

MATERIAL

BUDGET	19	74	151	266	387	517	576	628	685	727	758	776
ACTUAL	39	45	64	148								

MANPOWER

BUDGET	21	14	16	34	43	28	18	18	18	25	26	26
ACTUAL	38	30	36	35								

BUDGET

ACTUAL

Funds for small-break instrumentation were transferred to management reserve. A CCB is prepared to use foreign funds for this task. In the interim, charges amounting to \$85,000 were costed to this cost account which accounts for the overrun.

EG&G IDAHO INC.

EXP MEAS - MEAS SYSTEM B

TOTAL PROGRAM

BUDGET	84	125	285	391	519	760	904	967	1011	1043	1084	1115
ACTUAL	144	237	348	489								

MATERIAL

BUDGET	38	75	178	285	366	561	665	700	713	720	728	734
ACTUAL	48	78	112	124								

MANPOWER

BUDGET	6	7	7	9	7	8	9	7	6	6	6	6
ACTUAL	23	16	15	32								

BUDGET

ACTUAL

The pulsed neutron activation task for L3-2 required an extensive effort that was not originally scheduled, therefore, a CCB is being prepared to adjust for the overrun. Development costs for qualifying vendors to produce zircaloy thermocouples have been excessive. CCFs and 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 is prepared, requesting foreign funds for this task. In the interim, \$43,000 was costed to the original charge number for this task.

EG&G IDAHO INC.

EXP MEAS - MEAS PERFORMANCE-1

TOTAL PROGRAM

BUDGET	58	110	195	278	389	501	612	678	780	863	975	1074
ACTUAL	62	134	256	339								

MATERIAL

BUDGET	18	31	52	67	88	98	105	113	124	133	144	154
ACTUAL	3	6	26	29								

MANPOWER

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

BUDGET

ACTUAL

New hires were available earlier than expected and the need for extended workweek in January was higher than originally anticipated. Manhours are high and material low because instrumentation fabrication being funded at the INEL is accrued as manhours rather than as the budgeted material dollars.

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	328	1606	242	1233	232	1196
5N4K000	179	530	116	372	83	354
5N4P000	108	348	67	194	47	209

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	7,724	286	8,010		8,010
5N4XX	A6107	10,688	65	10,753	52	10,805
5N5XX	A6122	3,616	58	3,674		3,674
5N6XX	A6110	3,710		3,710		3,710
5N7XX	A6054	7,596		7,596		7,596
5N8XX	A6108	<u>1,000</u>	<u>(245)</u>	<u>,755</u>		<u>,755</u>
5NXXX		43,294	164,000	44,933	52	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	12	33	45		45	45
5F7XX	A6104	437		437		443 ^b	443
5F8XX	A6111 ^a	453		453		453	453
5F9XX	A6104S	0		0		0	0
5fXXX		905	33	938	0	944	944
		Foreign contingency reserves				171	127
		Foreign management reserves				693	606
		Total FY-80 LOFT foreign funds				1,677	1,677
		Foreign funds spent through FY-79				6,860	6,860
		Foreign funds budgeted in FY-81				170	170
		Total foreign funds received to date				8,707	8,707

a. PBF lead rod tests are budgeted in FY-80.

b. Adjustment due to data input error.

TABLE 4. JANUARY CHANGE CONTROL BOARD ACTIONS

CCB#	WBS#	Title	Action
80-21	54HIB01	BD System Orifice Change for L3-2	Approved
80-24	5FNC6	Anal. of PNA Tech.	Approved
80-27	5N8XXX	Augmented Man Machine	Cancelled
80-28	5N3XXX	Augmented Man Machine	Approved
80-29	55N9400	FMIRC	Deferred
80-46	54J040A	WGPS Vault Exhaust Task	Deferred
80-47	53AMB040	Cladding Thermocouples	Deferred
80-48	5N1C000	Electric Heater Rod Eval.	Approved
80-53	53CLL01	INEL Two-Phase Flow Loop	Approved
80-55	5N44XX	1st & 2nd Qtr. Disc. Res.	Approved
80-62	5TMIXX	TMI Support	Approved

TABLE 5. LOFT CAPITAL EQUIPMENT STATUS REPORT THROUGH JANUARY

Schedule 189a	Title	Prior Year Uncosted	Current Year Funds	Total Available to Cost	Current Year Costs	Outstanding Commitments	Balance Less Costs and Commitments	Estimate to Complete	Balance
500001	Integral System Design and Fabrication	101,730	0	101,730	4,562	22,195	74,983	93,613	3,555
500004	LOFT Operations	126,419	0	126,419	48,039	191	78,189	74,052	7,328
500005	VT and Requalification	218,034	0	218,034	0	116,790	101,244	220,400	(2,366)
	Total DOE	446,183	0	446,183	52,601	139,166	254,416	388,062	2,517
A-6061	Experimental Measure- ments	788,769	789,421	1,588,769	329,155	194,989	1,054,046	1,233,106	15,929
A-6084	Integral System Design	689,139	1,421,579	2,089,139	114,058	127,372	1,869,288	2,004,185	(7,525)
A-6088	LOFT Operations	18,091	89,000	118,091	14,880	0	192,211	91,480	731
	Total NRC	1,495,999	2,300,000	3,795,999	458,093	322,361	3,015,545	3,328,771	9,135
	Total LOFT	1,942,182	2,300,000	4,242,182	510,694	461,527	3,269,961	3,716,836	11,501

LOFT CAPITAL EQUIPMENT STATUS

1

2

3