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Title: LOFT MONTHLY PROGRESS REPORT
FOR MARCH 1980

Organization: LOFT Program

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CONTENTS

DIRECTOR'S MONTHLY SUMMARY	1
ACCOMPLISHMENTS	2
LOFT EXPERIMENTAL MEASUREMENTS	6
PROGRAM PLANNING AND TEST EVALUATION	10
LOFT OPERATIONS	14
LOFT FUEL FABRICATION	15
LOFT TEST SUPPORT FACILITY.	16
SUMMARY OF AUSTRIAN-FUNDED (SGAE) TASKS	20
SUMMARY OF NETHERLANDS-FUNDED (ECN) TASKS	20
SUMMARY OF FRG/JAERI SHARED TASKS	21
SUMMARY OF GERMAN-FUNDED (FRG) TASKS	21
SUMMARY OF JAPANESE-FUNDED (JAERI) TASKS	22
PERFORMANCE ANALYSIS	96

FIGURE

1. LOFT management summary schedule	23
---	----

TABLES

1. Foreign-funded Cost and Summary Schedule.	24
2. LOFT Funding Summary for FY-80.	97
3. LOFT FY-80 Summary Budget Status Report Nuclear Regulatory Commission	98
4. LOFT FY-80 Summary Budget Status Report of LOFT Foreign Funds . . .	99
5. March Change Control Board Actions.	100
6. LOFT Capital Equipment Status Report.	101

LOFT MONTHLY PROGRESS REPORT FOR MARCH 1980

DIRECTOR'S MONTHLY SUMMARY

During March, evaluation of Test L3-2 continued and preparations began for the next tests, L6-5 and L3-7. Test L6-5 is the first test of the operational transient series and is a loss-of-feedwater incident. Test L3-7 is a small break, similar to L3-2, wherein the emergency coolant flow is adjusted to permit investigation of natural circulation modes. The controlling schedule items involve efforts to add instrumentation to the plant to better characterize system response. Specifically, a new hot-leg penetration will be installed and steam generator water level instrumentation will be improved.

For March, costs to date agree very well with budget. Efforts are underway to develop a new baseline program for FY-80 and FY-81 based on a revised test plan and recent budget guidance for FY-81. These efforts are targeted for mid-year review in April.

ACCOMPLISHMENTS

LOFT TECHNICAL SUPPORT

1. A modification of the pressure reduction and decontamination spray pumps is being made. Motor start interlocks will prevent accidental spray down of the containment. Work is 80% complete.
2. Trimming resistors have been installed for the local primary system operator's meters. The trimmers will enable closer calibration of meters that monitor two or three different current loops.
3. Buffered pressure and temperature signals have been provided for the primary system flow instruments. The instruments may now be removed for repair or testing without disturbing the plant protection system (PPS) pressure or temperature signals.
4. A radiation monitoring system master plan is being investigated. In conjunction with the plan, additional instrumentation will be installed at the upper and lower air locks and staging areas. It is expected that a central monitoring and data acquisition system will be installed to provide health physics personnel with radiation monitoring system read-outs from all facility instrumentation.
5. The Loss-of-Coolant-Experiment (LOCE) system upgrade is being investigated. The proposed upgrade will replace the entire LOCE control panel with a more flexible system configured for the user.
6. Installation of the meteorological recorder is complete. A field change has been issued to cover calibration procedures for the recorder. Defective instruments supplied by the National Oceanic and Atmospheric Administration (NOAA) have caused a delay in completion of the overall program.

7. Investigation of the all volatile treatment chemistry system revealed a wiring error in the automatic hydrozine injection system. This error has been corrected.
8. Circuit breaker CBB-G (diesel generator B) was installed and tested. This replaces inoperative circuit breaker AK-50.
9. The heat trace was removed from tubing to the level transmitters (LIT-Pl20-87 and -44). The heat trace was no longer needed because the tubing is now in a heated building.
10. The operational checkout of circuit breakers 2B-B-1 and -3 was completed by LOFT Facility Division (LFD). The checkout verified the availability of the circuit breakers for future use with the new air compressor or secondary coolant pump.
11. A junction box was added near electrical penetration assembly EPA 15B to allow all coaxial circuits to be used from EPA 15B, and the coaxial cables are routed from junction box JB6 to the new junction box.
12. Training of personnel for phase III examination of the A-1 fuel module was completed on the mockup in the Test Area North (TAN)-607 high bay. Training included setting up and using the channel spacing probe and television viewing systems. Pending correction of several equipment problems, set up of the equipment will begin in June 1980, in the TAN Hot Shop, and the phase III examination will be completed on the A-1 fuel module.
13. The experiment safety analysis (ESA) was completed for Loss-of-Fluid-Test (LOFT) operational transient series tests L6-1, L6-2, and L6-5. Documentation was initiated.
14. A synopsis was completed for LOFT of the implications of the Three Mile Island accident on Department of Energy (DOE) reactors.

15. The L3-7 worst-case blowdown analysis was initiated, and results have been obtained out to 3600 seconds.
16. Work has begun to define radiological safety criteria and on an approach to effectively direct the decontamination design effort.
17. A management training lecture was prepared on the philosophy behind the LOFT Technical Specifications and on their use.
18. Technical Specifications were submitted to DOE Idaho Operations Office (DOE-ID) for approval to restore emergency core cooling system (ECCS) initiation upon pressurizer level coincidence with primary coolant system pressure during shutdown modes.
19. Work was begun on the failure mode effects and consequence analysis (FMECA) for the L6 test series.
20. LOFT Technical Reports (LTRs) LO-26-80-039 and -1141-20, Supplement 1, have been completed describing the thermal and stress analysis for the steam generator tube sheet quench during small-break recovery.
21. Work is continuing on the containment isolation system upgrade. Test connections and isolation valves have been added to the industrial water penetration. Spare isolation valves were bench leak tested.
22. Waste system isolation valves were added downstream of the sump pumps. In addition, all cold waste discharge is now routed to the waste disposal pond, eliminating the use of the LOFT injection well.
23. A nitrogen purge and supply installation was completed to the electrical penetration system.
24. Radiochemistry activities continue in support of the stack monitor installation, the isotope detection system, and several plant operations.

25. The isotope detection system design requirements were completed. The Conceptual System Design Description (CSDD) has been also completed along with several design reviews pertinent to various components of the system.
26. All work has been released to the field for fabrication of the spent resin cask. Fabrication is ready to start, pending final DOE-ID approval of the Facility Change Form.
27. Final design reviews were completed for the decontamination system, including the blowdown suppression tank header and portable decontamination solution unit.
28. Thirty-five LOFT design descriptions are in the review chain, and eleven of these have been submitted to DOE-ID for approval.

LOFT EXPERIMENTAL MEASUREMENTS

1. The design modifications to improve the modular drag-disc turbine (MDTT) performance have been tested successfully in the prototype. Drawing updates are complete and check prints circulated for signature.
2. Three MDTTs are being fabricated for installation in PC-2, hot leg, during the L3-7 test. The instruments are to be completed and installed in the rake assembly during the week of April 6, 1980.
3. MDTTs to be used in testing programs outside of the LOFT program were completed and delivered to TAN.
4. The liquid level transducer (LLT) operation and maintenance manual is in final form and being routed for signatures.
5. The LLT Failure Analysis LTR was completed and reviewed for comments. It is currently being revised.
6. The LLT performance test letter was completed and is currently being reviewed.
7. All activities pertaining to the fabrication of a new transit time flowmeter (TTF) were suspended and a letter was prepared that defines the cause of a lack of data from the TTF during the small break tests.
8. The TTF operation and maintenance manual was cancelled inasmuch as the TTF will probably not be used extensively for future tests.
9. The gamma densitometer preamplifiers that were laid out and fabricated by Measurement and Control Systems Division were received and tested. The circuits were not assembled properly and do not appear to be adequate for use in the densitometer system. Preamplifiers fabricated by Physics Division will be used in the densitometer.

10. Investigations show converting the existing PC-3 densitometer to a hardened system is not feasible due to size and weight.
11. Bids for a nuclear hardened PC-3 densitometer from Science Applications, Inc. (SAI), Measurements Incorporated (MI), and NUS Corporation were received and are being evaluated.
12. Temperature and humidity testing of the gamma densitometer preamplifiers was initiated to provide information on their behavior when exposed to containment conditions.
13. A draft of an operation and maintenance manual for the gamma densitometer was prepared and is being reviewed.
14. The vibration testing of a MDTT rake assembly has been completed. A draft report was completed.
15. An FCF was completed and drawings were changed to allow level measurement in the steam generator simulator by reconnecting PdE-BL-7 and PdE-BL-12. Design of a level measurement in the steam generator simulator was completed, and work packages have been written for the installation.
16. To satisfy the task to provide small break instrumentation (SBI), the design of the upstream gamma densitometer instrument spool piece was completed, and a layout drawing was made.
17. Drawings were completed for the downstream spool piece, turbine, drag screen, and instrument mounting blocks to be used during small-break testing.
18. For small-break testing, thermocouple insertion design was completed and special purpose drawings were made.

19. For small-break testing, composite beryllium-stainless steel window design for the gamma densitometer has been completed and drawings have been prepared.
20. Final draft of the pump speed probe operation and maintenance manual, OMM 141-26, was completed and routed for review.
21. Four self-powered neutron detectors were shipped to Exxon for installation in the F1 fuel bundle.
22. An analysis was completed on pulse neutron activation (PNA) performance during L3-2 and recommendations were made for improving the system.
23. Modifications were started for L3-7 test. These modifications are primarily directed toward alleviating the detector crystal saturation by reducing neutron background.
24. Seven fuel pin plenum pressure transducers were source inspected and shipped to Exxon.
25. A specification was written on pellet/clad gap thermocouples and a final design review was held in preparation for ordering these instruments for installation in F1 and A4 modules.
26. Zircaloy filler wire has been eddy-current tested with no contaminants found and is being prepared for shipment to Exxon. The filler wire will be used in conjunction with the fuel cladding thermocouples.
27. To satisfy the requirement for titanium sheathed thermocouples on the F1 fuel bundle, 46 good thermocouples from reworked Control Product and Semco thermocouples have been shipped to Exxon. Approximately 35 more will be shipped before the project is completed. A total of 48 are needed to provide an adequate supply.

28. Upon evaluating bid responses and vendor surveys for zircaloy thermocouples, the decision has been made to manufacture the thermocouples in-house.
29. The design for the small break thermocouple support has been completed, and drawings are near completion.
30. The data integrity review for the Wyle testing was successfully completed.
31. Programming to allow verification of calibration coefficients using pump coastdown data is continuing. This program will be available on both the MODCOMP (DPS) and the CDC computers.
32. Preparations for L6-5 and L3-7 began. These include measurements capabilities list (MCL), data acquisition requirements list (DARL), and configuration table updates. The pre-LOCE data integrity programs were reviewed and upgrades were identified.
33. An analysis of pump parameters during two-phase flow transients was started. The purpose of this study is to ascertain whether it is possible to obtain void fraction from pump-measured parameters.
34. Reviews of L3-2 data were conducted with operation and instrument task managers.
35. A presentation on LOFT special features for improved LOCE monitoring and survival was made at the LOFT Review Group meeting in Salt Lake City.

PROGRAM PLANNING AND TEST EVALUATION

1. The L3-7 experiment operating specification (EOS) was prepared, reviewed and comments incorporated for final typing, and will be ready for DOE/NRC approval the second week of April.
2. The L6 series EOS review meeting was held and comments are being incorporated in the draft.
3. Energy Incorporated completed their analysis for tests L6-1, L6-2, and L6-5, and the draft copy of their report has been reviewed by EG&G.
4. The Pretest Prediction Consistency Committee (PPCC) has reviewed and approved the model for operational transient analysis used by Energy Incorporated.
5. The L5-1 computer scoping studies were completed and documentation is being prepared.
6. Preliminary design and experimental evaluation of the L5 blowdown nozzle has been initiated.
7. The Post-test Analysis Report for Loss-of-Fluid Test (LOFT) loss-of-coolant experiment (LOCE) L2-3 was completed and distributed.
8. Papers on "Post-CHF (Critical Heat Flux) Heat Transfer and Quenching" and "LOFT L2-2 and L2-3 Results" were accepted for the American Society of Mechanical Engineers (ASME) winter annual meeting.
9. The RELAP5 experiment prediction (EP) analysis for small break test L3-7 was run successfully to one-hour transient time. Indications of reflux cooling were evident.

10. Reformatting of the RETRAN output tape to LOFT Data Bank format was initiated as part of the preparation of the L6-1, L6-2, and L6-5 experimental prediction document.
11. The L3-2 Experiment Data Report (EDR) is on schedule. The author copy has been reviewed and the EDR has been type-set.
12. Various meetings were held for preparation of the L6-5, L3-7, and L3-4 tests.
13. A proposal for a critical flow scaling study was developed and submitted for approval. This study would provide information necessary to model various size breaks.
14. A seminar called "Two Phase Flow and Flashing in Control Valves" was presented.
15. Various LOFT data references (LDRs) were completed and distributed, which included "L3-1 and L3-2 Initial Conditions and Justifications" and "L3-1 Suppression Tank Mass Flow Rate Calculations".
16. A paper titled, "Results of Small Break LOCA Experiments in the LOFT Reactor System with Comparison to Code Calculations" was completed for the American Nuclear Society-Eastern Nuclear Society (ANS-ENS) International Meeting on Thermal Reactor Safety (April 1980).
17. One staff member completed a trip to Japan where presentations on LOFT experiment results were given.
18. An agenda for an Advisory Committee Reactor Safeguards (ACRS) subcommittee meeting on natural circulation was prepared. The meeting will be held in late April.

19. A summary of LOFT LOCE L3-2 was written for the Executive Summary Quarterly.
20. A summary of results of LOCE L3-2 was prepared for the Water Reactor Research Document (WRRD) quarterly.
21. A historical summary of LOFT experiments was written and was made into slides and tables.
22. An ACRS subcommittee meeting on anticipated transients without scram (ATWS) in pressurized water reactors (PWRs) and boiling water reactors (BWRs) was attended in Washington.
23. A report, RE-P-80-030, originated and funded by Experiment Analysis (EA) was completed in March 1980 by Reactor Physics Branch. The title is "Neutron Fluxes at the LOFT-I SPND Locations for Uniformly Rewet Conditions After the L2-3 LOCE," and the authors are G. E. Putnam and B. L. Rushton. The report is part of the task to determine applicability of SPNDs to sense liquid level and liquid density changes in PWR cores.
24. The Blowdown Facility tests to evaluate cooling effects of cladding thermocouples were compared to LOFT L2-2 and L2-3 data. The comparison shows the surface thermocouples responded in a similar fashion for L2-2, and L2-3 high pressure quench conditions. The Blowdown Facility results suggest the surface thermocouples may be indicating coolant temperatures rather than cladding temperatures during the rapid cooling transient observed in the LOFT tests.
25. Review meetings were held to discuss using embedded cladding thermocouples on the inside cladding surface. Recent PBF tests (TC-1 and PR-1) show the success of internal fuel rod temperature measurements, and previous LOFT Test Support Facility tests with electric heater rods have shown that small embedded thermocouples can be fabricated. Proposals are underway to use embedded cladding thermocouples to improve LOFT cladding temperature measurements.

26. A meeting was held to review EG&G plans for severe core melt program needs. General plans to be presented to NRC should be followed closely by LOFT to identify how LOFT could become a significant contribution.

LOFT OPERATIONS

Work has been completed on the installation of the new PAC-1 air compressor. Operational testing is being done at this time and is expected to be complete early in April.

LOFT FUEL FABRICATION

1. Change orders were issued to Exxon Nuclear for (a) improvement of the FI fuel bundle test instrumentation arrangement, and (b) improvements in protecting, handling, and testing the fragile instrumentation.
2. Exxon completed the core mounting plate orifice size testing. The purpose of the testing was to determine the required orifice size when inlet flow meters are installed on the bottom of a fuel bundle. The test results showed a 3.350-inch-diameter orifice will fulfill the requirement.
3. Thermal Analysis Branch determined, on the basis of their analysis, that the inlet flowmeters would not significantly affect the fuel bundle flow distribution. A proposal was prepared to cancel the expensive (160K) laser-doppler velocimeter flow distribution test at Exxon.
4. Fuels Technology Branch prepared a technical requirements specification for the fuel module cutting and transfer device.
5. A prioritized list of fuel bundle post irradiation examinations (PIE) was prepared in support of the Project Management Division effort to develop a comprehensive construction-line-item and Fuels and Materials Division management plan for supporting the planned LOFT fuel examinations.

LOFT TEST SUPPORT FACILITY (189a A6043)

1. 53CE01 Test Engineering - LOFT Test Support Facility

- (a) 53CBE01DS Processing efforts in support of data integrity review, analysis, and EDR preparation of Wyle Transient Test Program data was continued.
- (b) 53CBE01GN Work package cost estimates for FY-80 and FY-81 test programs were continued. Detailed schedules of FY-80 test programs were developed. Requirements for production MDTT Rake, Transient Time Flowmeter, and LOFT Secondary System Relief Valve Testing were developed and conceptual test plans completed. Cost estimate and conceptual test plan for PBF Check Valve and Flow Shroud Leakage Test was completed. Obtained requirements for feasibility study for using nuclear reactor primary coolant system pump current/void fraction relationship for providing pump trip signal in the event of a small break LOCA. This feasibility study will also address testing of a full scale B & W pump in an existing Bingham-Willamette test loop to obtain data related to the above question and subsequent degradation tests to develop the Two-Phase Loop pump characteristic curve.
- (c) 53CBE0151 The work package for the Nine Rod Test has been completed. The test vessel and the external thermocouples for the REBEKA rods are being fabricated. The FEBA rods have arrived at INEL site.
- (d) 53CBE0155 Data integrity review for Wyle Transient Test Program mass flow data was completed. Two EDR's were published. Analysis of data continued.
- (e) 53CBE0162 Data were acquired and reviewed from single phase S. O. testing in the Two-Phase Loop. A letter report documenting preliminary results was prepared.

- (f) 53CEE0163 The test plan for the DTT Testing in the Two Phase Loop has been completed.
- (g) 53CEE0172 The work package for the Instrumentation Calibration for L3-5/6 has been completed. The catch tank has been installed. The spool piece for L3-5/6 is being fabricated.
- (h) 53CEE0173 The proposal for the Nelson-Chen Post CHF Test has been approved by the management and sent for CCB approval.
- (i) 53CEE0174 The work package for the Instrumentation Calibration for L3-4 has been completed. The EOS preliminary draft is 50% complete. The preliminary drawings for L3-4 DTT spool piece and the schematic diagram for the test have been completed.

2. 53CDA01 Data Acquisition - LOFT Test Support Facility

- (a) 53CDA01GN The preparation of a DOE-1830 implementation plan for automatic control and graphics display system for the two-phase flow loop was completed. Further information is being sought concerning in-house software requirements for getting the graphics display on line. The procurement package has been shelved until this information is obtained. Drawings of the Blowdown Facility microprocessor control system were completed and signed off.
- (b) 53CDA0151 A heater tape relay box was fabricated, installed and checked out in preparation of the Nine-Rod Bundle Test.
- (c) 53CDA0162 The data acquisition system was set up and operated in support of Two-Phase Flow Loop S. O. Testing. Two Temperature transmitters were installed on the main coolant pump to monitor bearing temperature. Several days of effort were expended in replacing failed Viatran pressure transducers and modifying their hook-up in an effort to obtain liquid level measurements in the steam tanks, moisture separator and steam separator.

- (d) 53CDA0174 Review of Instrumentation Calibration for L3-4 test requirements was completed and data and control system set-up commenced.

3. 53COP01 Operations - LOFT Test Support Facility

- (a) 53COP01 Final design of a relief valve test stand was completed. The relief valve stand is to be added to the loop to test LOFT secondary side relief valves.
- (b) 53COP0151 Two blowdown tests were conducted in preparation for the Nine-Rod quench Tests. Test heater rods were installed in the single pin vessels in order to check out the heater rod control system. Hardware from the BF-PTR-2 test was removed from the loop in preparation for installation of the quench test.
- (c) 53COP0162 The first draft of the Two-Phase Flow Loop Operating Manual has been completed and reviewed. S. O. testing of the loop has been partially completed. To date, a maximum steam flow rate of 29 Kg/s and a maximum water flow rate of 275 Kg/s have been achieved at a test section pressure of 2 MPa. Several steam leaks and problems with the main coolant pump thrust bearing had to be reworked at the cost of six working days. Additional pipe supports were added to the loop piping when initial operation indicated potential vibration problems.
- (d) 53COP0174 A preliminary design of test hardware for the L3-4 spool piece calibration was completed. The fabrication and procurement for the Blowdown Loop catch tank have been completed.

4. Foreign Funded Activities

- (a) SFNC50101 EDR's from Wyle Transient tests IA101, IA102, IA103, IIIA101, IIIA102, IIIA201, and IIIA202 were forwarded to RPI for use in evaluating DTT model and orifice flow models in transient two-phase regimes. Data from IA1 and IIIA1 series tests were forwarded to RPI in support of the above mentioned tasks.

- (b) 5F7C40100 Transmitted EDR from Wyle Transient tests IIIA101, IIIA101, IIIA102, IIIA201, and IIIA202 to Dr. S. Bannerjee for use in evaluating performance of LOFT ECC rake in transient two-phase flow.
- (c) 5F7C50101 The data report from steam probe scoping tasks was reviewed and plans made for review meeting to discuss results and future activity.

SUMMARY OF AUSTRIAN FUNDED (SGAE) TASKS

1. Task 5FAC1 -- SGAE Management

Status: No change.

SUMMARY OF NETHERLANDS FUNDED (ECN) TASKS

1. Task 5FNC1 -- ECN Management

Status: No change.

2. Task 5NC3 -- RPI Subcontract

Status:

Liquid flow calibration has been completed and the air flow calibration is in progress. All loop components are installed. Neutron tagging is expected to begin in May after LINAC upgrade is completed.

Modeling problems have been identified with the mass exchange terms between the phases. Efforts to find suitable correlations in the literature have been unsuccessful.

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

Status:

Data reports were sent to Rensselaer Polytechnic Institute (RPI) as produced during this month.

SUMMARY OF FRG/JAERI SHARED TASKS

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

Status:

This task is complete. A Change Control Board (CCB) has been submitted to use the contingency. The actual construction costs were 6% over the approved budget. Additional funds will be required to update the drawings to as-built.

2. Task 5F9C3 -- TRAC Code Studies

Status:

The studies are complete and a report is being reviewed. The report is expected by the end of June.

SUMMARY OF GERMAN FUNDED (FRG) TASKS

1. Task 5F7C1 -- FRG Management

Status: No change.

2. Task 5F7C4 -- Misc. Tasks

Status:

The preliminary design drawings for the vertical test section of the two-phase loop have been completed.

3. Task 5F7C5 -- Steam Probe

Status:

No change this month due to higher priority tasks.

4. Task 5F7C8 -- LOFT State Vector

Status:

The CCB has been approved.

SUMMARY OF JAPANESE FUNDED (JAERI) TASKS

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

Status:

The preliminary draft is complete and out for review. The final report is scheduled for completion in July.

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

Status:

The report is in technical editing and will be completed next month.

3. Task 5F8C8 -- Suppression Catch Tank

Status:

The tank fabrication is complete. The system will be assembled and calibrated next month.

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

Status:

No report was received this month from RPI.

TABLE 1. FOREIGN-FUNDED COST AND SUMMARY SCHEDULE AS OF MARCH 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	Jly	Aug	Sep
<u>Austrian Tasks</u>															
12	12	10.7	5FAC1 SGAE Management	-----o											
135	123	123	5FAC2 Completed Tasks												
<u>Netherland Tasks</u>															
10	10	8	5FNC1 ECN Management	-----o											
92	92	92	5FNC2 Completed Tasks												
117	114	112	5FNC3 RPI Subcontract	-----o											
10	10	3	5FNC5 INEL Support	-----o											
<u>German Tasks</u>															
156	156	152.2	5F7C1 FRG Management	-----o											
1618	1618	1618	5F7C2 Completed Tasks												
1006	1006	951.9	5F7C3 Core Instruments	-----o											
50	50	28	5F7C4 Miscellaneous Tasks	-----o											

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	Jly	Aug	Sep
30	30	21.5	5F7C5 Steam Probe	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o
1030	980	1005.5	5F7C92 Shared - Steady State Tests	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o
50	50	62.5	5F7C93 Shared - TRAC Code Studies	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o
10	10	0	LOFT State Vector	-----	-----	-----	-----	-----	-----	o-----	-----	-----	-----	-----	o
206	200	131.5	Small Break Instrumentation	-----	-----	-----	-----	-----	-----	o-----	-----	-----	-----	-----	o
<u>JAERI Tasks</u>															
202	202	173.2	5F8C1 JAERI Management	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o
750	750	750	5F8C2 Completed Tasks	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o
150	70	70	5F8C3 Additional Insts.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o
154	154	135	5F8C4 Advanced DDT	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o
1876	1859	1793	5F8C5 LOFT/PBF Lead Rod	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o
25	25	26.6	5F8C6 Reevaluating of LOFT Experiments	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o

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	Jly	Aug	Sep
20	20	10	5F8C7 Miscellaneous Codes	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o
800	750	775.5	5F8C92 Shared Steady State Tests	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o
50	50	31	5F8C93 Shared - TRAC Code	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o
43	41	11.2	5F8C8 Suppression Tank For Blowdown Facility	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	o

LOFT Overall Funding

2007-2008

2007-2008

LOFT Overall Funding

5xxxxxx

Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000	3001	3002	3003	3004	3005	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LOFT Program Cost/Budget Summary LOFT OVERALL FUNDING

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

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Operating	1.8	1.6	1.4	1.2	1.0	0.8	0.6	0.4	0.3	0.2	0.2
Foreign	0.8	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.3	0.2	0.1

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Operating	1.8	1.6	1.4	1.2	1.0	0.8	0.6	0.4	0.3	0.2	0.2
Foreign	0.8	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.3	0.2	0.1

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Operating	1.8	1.6	1.4	1.2	1.0	0.8	0.6	0.4	0.3	0.2	0.2
Foreign	0.8	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.3	0.2	0.1

EG&G IDAHO INC.

LOFT - NRC OPERATING FUNDING

NUMBER 5N0000000

TOTAL PROGRAM

BUDGET	2922	5407	11541	14697	18203	22491	25995	28874	32352	34945	38319	41828
ACTUAL	4163	8097	12069	14904	17706	21595						

MATERIAL

BUDGET	1019	1904	5795	6940	8229	9753	10882	11594	12500	13103	13923	15455
ACTUAL	2226	4251	5744	6547	7356	8590						

MANPOWER

BUDGET	471	445	478	530	585	538	572	522	508	541	503	477
ACTUAL	504	526	529	532	511	497						

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
LOFT - FOREIGN FUNDING

TOTAL PROGRAM

BUDGET	536	744	992	1233	1382	1520	1568	1618	1639	1663	1699	1718
ACTUAL	342	360	807	1060	1045	1123						

MATERIAL

BUDGET	476	634	836	1020	1115	1202	1236	1275	1283	1289	1300	1308
ACTUAL	299	460	838	1652	1455	1463						

MANPOWER

BUDGET	14	13	9	14	14	10	3	3	3	5	5	2
ACTUAL	10	13	14	18	14	12						

Budget includes approximately \$330,000 of management reserve and contingency funds. Corrective action is continuing.

LOFT 189a Summary

5NX--NRC 189a

5FXX--Foreign 189a

EG&G IDAHO INC.

NRC 189A A6048 - EXPER PROGRAM

NUMBER 5N1000000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	291	553	943	1244	1576	2021	2458	2822	3256	3573	3936	4330
ACTUAL	215	492	973	1397	1783	2264						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	107	190	314	421	517	641	771	875	1008	1090	1185	1397
ACTUAL	32	101	313	537	704	922						

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	44	48	56	49	62	62	75	61	59	63	51	43
ACTUAL	43	51	52	48	57	47						

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	1361	1712	2149	2712	3021	3283	3602	3781	4024	4355
ACTUAL	200	838	1082	1295	1473	1774						

MATERIAL

BUDGET	388	684	1080	1352	1688	2123	2311	2465	2626	2679	2757	2962
ACTUAL	83	602	730	836	910	1054						

MANPOWER

BUDGET	22	22	22	20	26	25	29	26	31	34	33	30
ACTUAL	30	33	24	27	25	27						

BUDGET

ACTUAL

The underrun is caused by delays in fabricating centerline and zircaloy-sheathed thermocouples and supplier delays in proceeding with fabrication of Reload Core II fuel bundles and upper support structures. A CCB action featuring mid-year adjustment to all cost accounts has been prepared that reflects the effects of these delays.

EG&G IDAHO INC.

NRC 189A A6043 - EXPER INSTR

NUMBER 5N3000000

TOTAL PROGRAM

BUDGET	382	709	1217	1834	2534	3297	3837	4227	4701	5080	5562	5850
ACTUAL	521	930	1482	2022	2643	3292						

MATERIAL

BUDGET	84	189	369	613	873	1190	1382	1498	1610	1695	1775	1725
ACTUAL	148	240	350	466	709	909						

MANPOWER

BUDGET	73	61	68	98	117	87	81	64	70	79	78	80
ACTUAL	98	87	95	109	93	82						

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

NRC 189A A6107 - PLANT SUPPORT

NUMBER 5N4000000

TOTAL PROGRAM

BUDGET	608	1135	4603	5330	5986	6850	7765	8351	9128	9661	10329	10809
ACTUAL	1982	3325	4149	4534	5204	6149						

MATERIAL

BUDGET	183	373	3305	3590	3835	4154	4534	4646	4905	5090	5363	5553
ACTUAL	1678	2720	3071	3097	3412	3778						

MANPOWER

BUDGET	100	88	109	110	102	99	122	108	95	87	71	64
ACTUAL	81	84	100	93	89	106						

BUDGET

ACTUAL

Corrective actions being taken are reflected above. A staffing problem is limiting the progress of work in one area.

EG&G IDAHO INC.

NRC 189A A6122 - CORE & SAFE SPT

NUMBER 5A5000000

TOTAL PROGRAM

BUDGET	303	539	801	1042	1473	1905	2205	2480	2754	2990	3357	3759
ACTUAL	366	664	1311	1575	1778	2088						

MATERIAL

BUDGET	104	182	267	345	541	693	789	869	938	999	1114	1315
ACTUAL	159	288	682	753	761	806						

MANPOWER

BUDGET	43	39	33	38	55	48	44	42	36	42	44	43
ACTUAL	46	42	48	45	46	44						

BUDGET

ACTUAL

Corrective action has been effective as reflected in the graphs. CCB in progress will correct the remaining over run.

EG&G IDAHO INC.

NRC 189A A6110 - COMMON SUPPORT

NUMBER 5N6000000

TOTAL PROGRAM

BUDGET	293	542	880	1158	1437	1804	2109	2415	2781	3072	3454	4244
ACTUAL	267	520	820	1057	1290	1629						

MATERIAL

BUDGET	33	61	99	130	161	202	237	273	315	348	392	926
ACTUAL	39	96	130	157	186	224						

MANPOWER

BUDGET	69	66	68	69	69	67	69	69	68	74	70	65
ACTUAL	62	58	60	57	54	59						

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	1905	2537	3203	3918						

MATERIAL												
BUDGET	76	144	236	324	414	533	628	723	837	927	1046	1271
ACTUAL	87	179	288	344	512	639						

MANPOWER												
BUDGET	112	113	116	141	146	142	146	146	143	156	149	146
ACTUAL	144	161	141	142	138	125						

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.

A6108 - AUGEM OPER CAPABILITY

NUMBER 5N8000000

TOTAL PROGRAM

BUDGET	79	148	225	293	368	437	490	540	599	646	707	755
ACTUAL	0	62	266	487	332	480						

MATERIAL

BUDGET	44	81	125	165	200	217	231	245	261	275	292	305
ACTUAL	0	25	180	356	162	257						

MANPOWER

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

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
A6273-AUSTRIAN FUNDS

NUMBER SFAC00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	2	4	7	9	12	15	15	15	15	15	15	15
ACTUAL	0	0	2	2	3	3						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	2	4	6	8	10	13	13	13	13	13	13	13
ACTUAL	0	0	0	0	0	0						

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	0						

BUDGET

ACTUAL

Slow down of activity has leveled off spending. No significant variance. The Austrian management task budget includes a \$12,000 management reserve and contingency fund.

EG&G IDAHO INC.

A6271 - NETHERLANDS FUNDS

NUMBER 5FNC00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	18	33	53	70	85	90	93	95	96	101	104	107
ACTUAL	0	0	0	0	0	2						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	16	29	48	63	78	82	85	88	91	94	97	99
ACTUAL	0	0	0	0	0	0						

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	0						

BUDGET
- - -
ACTUAL

Presently inactive. CCBs have been submitted for new projects. The Netherlands management task budget includes a \$62,000 management reserve and contingency fund.

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

TOTAL PROGRAM												
BUDGET	260	368	550	721	812	890	920	950	966	978	1000	1016
ACTUAL	31	152	238	591	599	671						

MATERIAL												
BUDGET	219	290	434	572	619	660	678	697	699	701	709	714
ACTUAL	4	100	151	464	420	429						

MANPOWER												
BUDGET	10	9	7	9	11	7	3	3	2	3	3	2
ACTUAL	7	7	8	10	12	11						

Variance is due to inactivity of some tasks and correction of inaccurate charges. A charge of \$230,000 associated with the two-phase flow loop has been incorrectly costed elsewhere. The FRG management task budget includes a \$129,000 management reserve and contingency fund.

EG&G IDAHO INC.

A6111 - JAPANESE FUNDS

NUMBER 5F8C00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	255	339	383	432	474	526	540	558	560	569	581	581
ACTUAL	29	135	174	487	443	448						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	239	311	347	377	407	447	460	478	480	480	482	482
ACTUAL	25	126	160	469	422	424						

MANPOWER

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

BUDGET

ACTUAL

No significant variance. The JAERI management task budget includes a \$127,000 management reserve and contingency fund.

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
5Nxx--NRC Summary Cost Accounts	100	85	70	55	40	25	15	10	8	6	5

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
5Fxxx--Foreign Summary Cost Accounts	50	45	35	25	15	10	8	6	5	4	3

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
5Fxxx--Foreign Summary Cost Accounts	50	45	35	25	15	10	8	6	5	4	3

Summary Cost Accounts for the years 1960 through 1970 are shown in the graph above. The NRC Summary Cost Accounts (5Nxx) and Foreign Summary Cost Accounts (5Fxxx) are shown in millions of dollars. The NRC Summary Cost Accounts show a steady decline from 100 million dollars in 1960 to 5 million dollars in 1970. The Foreign Summary Cost Accounts show a steady decline from 50 million dollars in 1960 to 3 million dollars in 1970.

EG&G IDAHO INC.

EXPR PROG - PROGRAM PLAN & EVAL

NUMBER 5N1B00000

TOTAL PROGRAM

BUDGET	197	385	642	864	1062	1348	1592	1823	2084	2290	2556	2725
ACTUAL	138	322	590	932	1167	1519						

MATERIAL

BUDGET	76	140	235	319	383	469	540	604	683	746	827	880
ACTUAL	26	82	179	379	468	634						

MANPOWER

BUDGET	27	32	32	33	32	36	38	37	33	35	33	25
ACTUAL	25	29	31	33	38	32						

BUDGET

ACTUAL

LOFT test schedule revision and inclusion of the new test L3-7 required high computer expenditures associated with planning and prediction of L3-7. These higher expenditures accrued in March due to these activities. The activities of \$164,000 are associated with computer code development support.

EG&G IDAHO INC.
ELEC HEATER ROD EVAL

NUMBER 5N1C00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	3	6	10	14	17	22	24	26	28	23	30	30
ACTUAL	0	6	13	14	15	16						

MATERIAL

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

MANPOWER

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

BUDGET

ACTUAL

We have been temporarily running under the current budget estimates for the last month due to some unanticipated delays in current projects and/or scheduling difficulties. Rescheduling of current and new tasks indicates that projected expenditures will compensate for the present situation, and that future spending requirements will be more in line with the budget.

EG&G IDAHO INC.

EXPR PROG - LOFT DATA SYSTEMS

NUMBER 5N1E00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	91	163	291	366	497	651	843	973	1145	1253	1349	1427
ACTUAL	77	164	370	451	601	729						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	30	49	78	100	131	168	226	266	320	338	353	364
ACTUAL	6	19	134	158	236	287						

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	17	16	24	15	30	25	36	24	26	27	17	18
ACTUAL	18	21	20	15	19	15						

BUDGET

ACTUAL

This overrun has been caused primarily by the costing of computer resources. The new disks and cyber 176 should help in lowering these costs in the latter half of the year.

EG&G IDAHO INC.
FUEL - REFUEL DESIGN & ANALYSIS

NUMBER 5N2000000

The underrun is caused by delays in fabricating centerline and zircaloy-sheathed thermocouples and supplier delays in proceeding with fabrication of Reload Core II fuel bundles and upper support structures. A CCB action featuring mid-year adjustment to all cost accounts has been prepared that reflects the effects of these delays.

EG&G IDAHO INC.

POST TEST EXAM

NUMBER 5N2F00000

TOTAL PROGRAM

BUDGET	21	49	83	107	137	169	198	219	252	273	309	331
ACTUAL	11	32	74	98	128	195						

MATERIAL

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

MANPOWER

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

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
EXPR INST - EXPR MEAS BR 6110

TOTAL PROGRAM

BUDGET	298	564	997	1540	2165	2842	3298	3611	3989	4288	4674	4990
ACTUAL	391	671	1091	1523	2037	2562						

MATERIAL

BUDGET	83	192	382	622	881	1209	1411	1534	1648	1729	1812	1869
ACTUAL	103	154	246	355	584	796						

MANPOWER

BUDGET	54	44	51	80	99	69	61	45	52	59	60	60
ACTUAL	76	65	71	84	71	58						

BUDGET
- - -
ACTUAL

The cost variance is the result of the delay in fabrication of Drag Disc Turbine Rakes scheduled to be constructed at this time. A CCB is being issued to reflect this change. Also a CCB is in process reducing scope in the Gamma Densitometer, Transit Time Flowmeter, and DAVDS Tasks, thus Returning Funds \$100,000 to management reserve.

EG&G IDAHO INC.

EXPR INST - TEST SUPT BR 6140

NUMBER 5N3C00000

CUMULATIVE DOLLARS (THOUSANDS)

TOTAL PROGRAM												
BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	0	0	0	0	0	4						

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

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

BUDGET

ACTUAL

No significant variance. Costs are being transferred to proper accounts.

EG&G IDAHO INC.

EXPR INST - ADVANCE INST BR 3720

NUMBER 5N3G00000

TOTAL PROGRAM

BUDGET	84	145	220	294	369	456	539	615	712	792	887	973
ACTUAL	130	259	391	498	607	726						

MATERIAL

BUDGET	1	-3	-12	-9	-7	-19	-27	-35	-37	-33	-36	-40
ACTUAL	45	87	104	111	125	113						

MANPOWER

BUDGET	19	17	17	17	18	18	21	19	18	20	18	20
ACTUAL	22	23	23	25	23	22						

BUDGET

ACTUAL

The branch is overrun and is cutting back. The allocation to Semiscale and 3-D has not been processed. A CCB to reflect amended work scope is not forthcoming as Budget Control and monitoring are being transferred to WRRD and will be removed from the LOFT PMS-IV WBS.

EG&G IDAHO INC.

SPECIAL PROCESS SPARES

NUMBER 5NSP00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
ACTUAL	1535	2418	2713	2634	2730	2731						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
ACTUAL	1535	2418	2713	2634	2730	2731						

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	0						

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
THREE MILE ISLAND SUPPORT

No significant variance.

EG&G IDAHO INC.

PLANT SUPPORT - PLANT SYS NO 3

NUMBER 5N4H00000

TOTAL PROGRAM

BUDGET	229	386	591	754	890	990	1116	1188	1236	1268	1313	1364
ACTUAL	115	178	336	427	537	777						

MATERIAL

BUDGET	104	184	253	352	439	482	556	572	585	594	604	623
ACTUAL	73	99	125	147	192	279						

MANPOWER

BUDGET	30	21	30	17	13	10	13	14	7	6	6	7
ACTUAL	11	11	30	17	16	28						

BUDGET

ACTUAL

CCBs, 80-76 and 80-77 are in process to correct the frontend labor loading, returning approximately \$135,000 to management reserve. The remaining underrun is scheduled to support preparations for the small break tests.

EG&G IDAHO INC.

PLANT SUPPORT - PLANT SYS NO 1

NUMBER 5N4100000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	87	162	266	385	479	611	743	844	980	1084	1247	1406
ACTUAL	49	149	208	346	453	596						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	1	2	3	29	30	30	55	55	71	80	117	180
ACTUAL	-36	-17	-34	15	33	37						

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	20	20	21	23	23	24	25	23	22	24	23	22
ACTUAL	20	21	20	22	22	25						

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

PLANT SUPPORT - PLANT SYS NO 2

NUMBER 5N4J00000

TOTAL PROGRAM

BUDGET	154	279	431	557	671	878	1168	1305	1552	1740	1971	2187
ACTUAL	126	226	422	483	644	882						

MATERIAL

BUDGET	59	110	170	216	259	369	519	542	678	799	964	1127
ACTUAL	65	92	176	181	281	427						

MANPOWER

BUDGET	23	20	19	20	18	18	34	27	21	18	12	13
ACTUAL	22	22	19	15	16	18						

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

PLANT SUPPORT - P&C REACTOR CONT

NUMBER 5N4K00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	86	198	350	528	699	905	1095	1213	1373	1467	1563	1642
ACTUAL	81	171	271	354	437	590						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	14	58	111	183	257	331	402	433	484	497	511	534
ACTUAL	7	20	41	49	59	108						

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	15	17	18	25	23	23	25	18	19	19	14	11
ACTUAL	18	20	15	17	17	17						

BUDGET

ACTUAL

Shortage of engineering manpower continues to delay scheduled design and procurement activities.

EG&G IDAHO INC.

PLANT SUPPORT - P&C I&E SUPPORT

NUMBER 5N4P00000

TOTAL PROGRAM

BUDGET	52	109	201	290	378	483	603	707	824	887	949	986
ACTUAL	77	183	162	210	261	336						

MATERIAL

BUDGET	5	19	33	46	58	67	97	107	113	118	127	137
ACTUAL	36	110	49	50	58	78						

MANPOWER

BUDGET	11	11	16	19	19	18	20	21	21	15	10	6
ACTUAL	11	10	9	15	12	12						

BUDGET

ACTUAL

Shortage of engineering manpower continues to delay scheduled design and procurement activities.

EG&G IDAHO INC.

CORE & SAFETY SUPT - PROT & CONT

NUMBER 5N5K00000

TOTAL PROGRAM

BUDGET	110	184	234	277	430	584	661	727	753	792	909	1017
ACTUAL	234	365	574	724	701	801						

MATERIAL

BUDGET	55	91	120	135	208	277	302	325	329	343	399	447
ACTUAL	147	247	370	464	385	414						

MANPOWER

BUDGET	12	9	4	6	18	14	10	9	3	5	10	12
ACTUAL	19	12	12	13	13	11						

BUDGET
- - - -
ACTUAL

A CCB is in process which would realign the current budget with expenditures. The excess expenditures resulted from the analysis required to understand the small break phenomena so that the small break safety analysis could be prepared for the initiation of the L-3 series experiments.

EG&G IDAHO INC.

CORE & SAFETY SUPT - REACTOR SYS

NUMBER 5WSL00000

TOTAL PROGRAM

BUDGET	112	207	336	442	571	730	860	990	1144	1268	1431	1556
ACTUAL	93	180	339	475	585	741						

MATERIAL

BUDGET	15	27	44	57	74	96	113	130	152	170	194	212
ACTUAL	9	22	46	82	100	119						

MANPOWER

BUDGET	21	20	21	21	26	23	24	23	23	25	24	22
ACTUAL	18	18	25	23	22	24						

BUDGET

ACTUAL

No significant variance; however, computer charges are somewhat greater than anticipated.

EG&G IDAHO INC.

CORE & SAFE SUPT - FUEL ENG & OP

NUMBER SWSN000000

TOTAL PROGRAM												
BUDGET	81	149	231	323	472	591	684	764	857	930	1017	1079
ACTUAL	39	100	398	376	491	546						

MATERIAL												
BUDGET	35	64	104	153	258	321	374	414	457	486	521	549
ACTUAL	3	19	266	208	275	274						

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

BUDGET
- - - -
ACTUAL

Costs are slightly below budget and indicate good recovery when compared to previous reports.

EG&G IDAHO INC.

COMMON SUPT - CDCS/TECH SUPPORT

NUMBER 5N6M00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	74	138	224	294	365	458	535	611	703	775	871	943
ACTUAL	68	177	254	312	370	458						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	19	35	57	75	93	117	136	155	178	196	219	238
ACTUAL	14	69	92	106	119	146						

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	16	16	16	16	16	16	16	16	16	17	17	15
ACTUAL	17	17	14	13	13	13						

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
COMMON SUPT - QUALITY

NUMBER 5N6X00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	105	194	315	415	514	645	754	862	992	1094	1229	1332
ACTUAL	88	164	289	381	473	593						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	6	11	17	23	29	36	42	47	54	60	67	73
ACTUAL	1	8	10	14	20	20						

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	24	23	24	24	24	24	24	24	24	26	25	23
ACTUAL	21	18	24	21	20	21						

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

COMMON SUPT - PLANS & BUDGETS

NUMBER 5N6Y00000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	71	132	214	282	350	439	516	594	687	760	857	931
ACTUAL	84	128	197	262	323	404						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	7	12	20	26	33	41	50	59	70	78	89	98
ACTUAL	22	14	20	28	36	44						

MANPOWER

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

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
COMMON SUPT - SAFETY

NUMBER 5N6Z00000

TOTAL PROGRAM												
BUDGET	42	78	127	167	208	261	304	348	400	442	497	538
ACTUAL	26	51	80	102	124	174						

MATERIAL												
BUDGET	1	3	4	6	7	9	10	11	13	14	16	18
ACTUAL	2	5	8	10	11	15						

MANPOWER												
BUDGET	10	9	10	10	10	10	10	10	10	11	10	9
ACTUAL	6	6	5	5	5	8						

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 and manpower is more in line this month. 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	1628	1901	2116	2400	2626
ACTUAL	199	441	689	862	1149	1413						

MATERIAL

BUDGET	30	56	92	127	163	211	249	287	332	369	416	454
ACTUAL	38	78	134	150	254	317						

MANPOWER

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

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.
LOFT TEST & DATA

NUMBER 5N7100000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	105	199	326	442	560	715	843	971	1125	1246	1406	1534
ACTUAL	121	246	364	481	607	734						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	10	19	30	41	53	68	80	92	107	118	133	145
ACTUAL	14	24	28	37	52	54						

MANPOWER

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	26	27	27	31	31	30	31	31	31	33	32	31
ACTUAL	30	34	28	32	32	27						

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	2642	2885
ACTUAL	251	489	783	1002	1211	1479						

MATERIAL

BUDGET	33	63	103	140	178	227	267	307	354	392	442	481
ACTUAL	33	67	111	138	184	242						

MANPOWER

BUDGET	44	44	45	53	55	53	54	54	53	58	56	54
ACTUAL	61	64	61	58	50	47						

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.
OUTSIDE SERVICE SUPPORT

NUMBER SN7200000

TOTAL PROGRAM

BUDGET	32	61	101	142	186	245	292	340	398	443	503	551
ACTUAL	42	89	148	193	235	293						

MATERIAL

BUDGET	3	6	10	15	20	26	32	37	43	48	55	60
ACTUAL	3	10	14	19	22	27						

MANPOWER

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

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.
AUGMENTED OPER CAPABILITY

NUMBER 5N8V00000

TOTAL PROGRAM

BUDGET	79	148	225	293	368	437	490	540	599	646	707	755
ACTUAL	0	62	266	487	332	480						

MATERIAL

BUDGET	44	81	125	165	200	217	231	245	261	275	292	305
ACTUAL	0	25	180	356	162	257						

MANPOWER

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

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

MANAGEMENT

NUMBER SFAC10000

CUMULATIVE DOLLARS (THOUSANDS)

EQUIVALENT MANPOWER MONTHLY

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	2	4	7	9	12	15	15	15	15	15	15	15
ACTUAL	0	0	2	2	3	3						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	2	4	6	8	10	13	13	13	13	13	13	13
ACTUAL	0	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	0						

No significant variance. A \$12,000 management reserve and contingency fund is included in this budget.

EG&G IDAHO INC.
MANAGEMENT

NUMBER 5FNC10000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	13	23	38	50	62	63	63	63	63	63	63	63
ACTUAL	0	0	0	0	0	0						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	13	23	38	49	61	63	63	63	63	63	63	63
ACTUAL	0	0	0	0	0	0						

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	0						

BUDGET

ACTUAL

Presently inactive. A \$62,000 management reserve and contingency fund is included in this budget.

EG&G IDAHO INC.

RPI SUBCONTRACT

NUMBER 5FNC30000

TOTAL PROGRAM

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

MATERIAL

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

No significant variance.

EG&G IDAHO INC.

INEL SUPPORT

NUMBER 5FNC50000

TOTAL PROGRAM

BUDGET	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
BUDGET	2	4	7	9	9	9	9	9	9	9	9	9
ACTUAL	0	0	0	0	1	2						

MATERIAL

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

MANPOWER

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

This task will be reduced in scope and \$4,500 will be returned to the management reserve.

EG&G IDAHO INC.

MANAGEMENT

NUMBER SF7C10000

TOTAL PROGRAM												
BUDGET	0	17	46	69	92	132	141	141	141	141	141	141
ACTUAL	2	3	3	9	9	9						

MATERIAL												
BUDGET	0	17	46	69	92	129	137	137	137	137	137	137
ACTUAL	0	1	1	6	6	6						

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

No significant variance. A \$129,000 management reserve and contingency fund is included in this budget.

EG&G IDAHO INC.
FUEL INSTRUMENTS
NUMBER 5F7C30000

TOTAL PROGRAM												
BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	3	3	13	13	13	13						

MATERIAL												
BUDGET	0	0	0	0	0	0	0	0	0	0	0	0
ACTUAL	3	3	13	13	13	13						

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

BUDG

ACTU

The Task is inactive. Funding of \$64,000 was returned to management reserve and an actual charge of \$13,000 was overlooked. Efforts are being made to correct the error.

EG&G IDAHO INC.
SHORT TERM TASKS

NUMBER SF7C40000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	1	1	2	3	3	4	5	5	6	9	16	22
ACTUAL	0	0	0	0	5	14						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	0	0	0	0	0	0	2	8	13
ACTUAL	0	0	0	0	0	2						

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	1	1						

BUDGET

ACTUAL

Variance is due to completion of work ahead of schedule.

EG&G IDAHO INC.

STEAM PROBE

NUMBER 5F7C50000

TOTAL PROGRAM

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

MATERIAL

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

MANPOWER

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

BUDGE

ACTUA

Inactive task.

EG&G IDAHO INC.

SHARED TASKS - STEADY STATE TEST

NUMBER 5F7C92000

TOTAL PROGRAM

BUDGET	226	287	401	511	528	528	528	528	528	528	528	528
ACTUAL	0	13	15	397	325	324						

MATERIAL

BUDGET	215	267	379	489	506	506	506	506	506	506	506	506
ACTUAL	0	13	15	397	325	324						

MANPOWER

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

BUDGET
--
ACTUAL

A CCB will be written as soon as total costs are finalized.

EG&G IDAHO INC.

SHARED TASKS - TWO PHASE FLOW

NUMBER 5F7C93000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	0	0	0	10	28	30	30	30	30
ACTUAL	0	82	117	41	62	62						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	0	0	0	10	28	30	30	30	30
ACTUAL	0	82	117	41	62	62						

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	0						

BUDGET

ACTUAL

The overrun is due to changes in computer charging algorithms. A CCB correcting this is in process.

EG&G IDAHO INC.
MANAGEMENT

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	28	52	85	112	139	174	177	177	177	177	177	177
ACTUAL	28	40	18	22	22	19						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	24	44	71	94	117	146	149	149	149	149	149	149
ACTUAL	25	30	4	4	4	2						

MANPOWER

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

BUDGET

ACTUAL

This budget includes management reserve and a contingency fund of \$127,000. No significance variance.

EG&G IDAHO INC.

DTT - ADVANCED

NUMBER 5F8C40000

TOTAL PROGRAM

	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	0	0						

MATERIAL

	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	0	0						

MANPOWER

	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	0	0						

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.

RE-EVAL LOFT EXPS

NUMBER 5F8C60000

TOTAL PROGRAM

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

MATERIAL

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

BUDGET

ACTUAL

The Task is completed, except for final report. Corrective action is under way to re-align budget.

EG&G IDAHO INC.

CODE STUDIES

NUMBER 5FBC70000

TOTAL PROGRAM

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

MATERIAL

	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	0						

MANPOWER

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

BUDGET

ACTUAL

The Task has been delayed. Corrective action is under way to re-align budget.

EG&G IDAHO INC.
SUPPRESSION CATCH TANK

NUMBER 5F8C80000

TOTAL PROGRAM													
BUDGET	0	0	0	12	25	41	42	42	43	43	43	43	44
ACTUAL	0	0	0	1	5	11							

MATERIAL													
BUDGET	0	0	0	7	15	25	25	25	25	25	25	25	25
ACTUAL	0	0	0	0	3	8							

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

No significant variance. Costs for material purchases from the outside have not yet been costed.

EG&G IDAHO INC.

SHARED TASKS - STEADY STATE TEST

NUMBER SF8C92000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	226	287	298	298	298	298	298	298	298	298	298	298
ACTUAL	0	13	15	397	325	324						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	215	267	276	276	276	276	276	276	276	276	276	276
ACTUAL	0	13	15	397	325	324						

MANPOWER

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

BUDGET

ACTUAL

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

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	0	0	0	10	28	30	30	30	30
ACTUAL	0	82	117	41	62	62						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	0	0	0	0	0	0	10	28	30	30	30	30
ACTUAL	0	82	117	41	62	62						

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	0						

BUDGET

ACTUAL

Overrun is due to changes in computer charging algorithms. CCB action is in process.

LOFT Cost Accounts

5N3Axx--NRC Cost Accounts

EG&G IDAHO INC.
EXP MEAS - BR SUPPORT

NUMBER 5N3ABS000

TOTAL PROGRAM

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	23	43	70	93	116	145	170	194	223	246	277	302
ACTUAL	13	31	67	86	116	146						

MATERIAL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BUDGET	9	16	27	36	44	56	65	74	85	93	105	115
ACTUAL	8	20	43	56	78	97						

MANPOWER

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

BUDGET
- - - - -
ACTUAL

No significant variance.

EG&G IDAHO INC.

EXP MEAS - DAVDS SUPPORT

NUMBER 5N3ADV000

TOTAL PROGRAM

BUDGET	22	40	65	86	106	134	156	178	205	227	255	276
ACTUAL	25	41	57	74	89	115						

MATERIAL

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

MANPOWER

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

BUDGET

ACTUAL

A CCB, not yet reflected in baseline, is in process reducing scope and returning funds (\$20,000) to management reserve.

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

TOTAL PROGRAM												
BUDGET	104	212	377	633	946	1233	1373	1494	1651	1778	1933	2051
ACTUAL	161	253	397	579	705	883						

MATERIAL												
BUDGET	22	79	160	281	408	541	604	659	719	761	792	810
ACTUAL	39	45	60	144	184	246						

MANPOWER												
BUDGET	22	15	18	38	54	32	19	16	20	24	26	25
ACTUAL	35	26	31	27	23	23						

BUDGET

ACTUAL

Drop Disc Turbine Rakes scheduled to be built (for L2-5) at this time, have been delayed until later in the year. A CCB is in process PMS/CAPS, will reflect this change. Also a CCB not yet reflected in the baseline is in process, reducing scope in the Gamma Densitometer and Transit Time Flowmeter Tasks and Returning Funds (\$80,000) to management reserve.

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

NUMBER 5N3AMB000

TOTAL PROGRAM

BUDGET	93	161	290	452	613	816	962	1027	1072	1104	1146	1177
ACTUAL	130	212	314	446	668	834						

MATERIAL

BUDGET	34	63	137	232	340	493	597	632	646	653	663	669
ACTUAL	47	77	110	122	266	367						

MANPOWER

BUDGET	14	11	11	16	13	10	10	7	6	6	6	6
ACTUAL	20	13	13	30	18	11						

BUDGET

ACTUAL

No significant variance.

EG&G IDAHO INC.
EXP MEAS - MEAS PERFORMANCE-1

TOTAL PROGRAM												
BUDGET	56	108	194	277	384	513	638	718	838	933	1064	1174
ACTUAL	62	134	256	339	458	584						

MATERIAL												
BUDGET	16	31	52	67	80	110	132	155	182	204	232	254
ACTUAL	3	6	28	29	49	78						

MANPOWER												
BUDGET	10	10	13	17	24	19	24	13	18	19	20	20
ACTUAL	15	18	21	21	24	17						

BUDGET

ACTUAL

- 1) The majority of expected instrument procurement, fabrication, and testing was completed in the first part of FY-80.
- 2) A CCB to adjust PMS, is not reflected in the Q80-3-3 baseline or graph.

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).

	BCWS		BCWP ^a		ACWP	
	Month	Year-To-Date	Month	Year-To-Date	Month	Year-To-Date
5N2D000	530	2543			233	1577
5N4K000	205	905			153	590
5N4P000	105	482			75	335

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.

a. Process of rebaseline.

TABLE 2. LOFT FUNDING SUMMARY FOR FY-80
(In Thousands of Dollars)

<u>Funds</u>	<u>Current FIN Plan No. 5</u>	<u>Current Budget File (Q80-3-3)</u>
LOFT Foreign Funds	1,877	1,718
LOFT Lead Rod Tests		170
Total	1,877	1,888 ^a
NRC Operating Funds	45,791	41,828
Electric Heat Rod Evaluation		328
Computer Code Support		233
TC-2 Tests		234
LTSF		2,320
PWR/BWR Task Group		700
Standard Problem Analysis		150
Total	45,791	45,793
Total LOFT Funding	47,668	47,681
a. CCB to correct \$11,000 variance is in process.		

BUDGET STATUS REPORT

TABLE 3. LOFT FY-80 SUMMARY STATUS REPORT
NUCLEAR REGULATORY COMMISSION
(In Thousands of Dollars)

WBS#	189 #	Q80-3-0 (CCB 80-50)	Approved CL.I CCB	Current PMB # Q80-3-3	Approved CL.II CCBs	Current BAC
5N1XX	A6048	4,741	-0-	4,741	--	4,741
5N2XX	A6053	4,219	-0-	4,219	--	4,219
5N3XX	A6043	8,011	155	8,166		8,166
5N4XX	A6107	10,805	47	10,852	--	10,852
5N5XX	A6122	3,674	40	3,634		3,634
5N6XX	A6110	3,710	35	3,745	--	3,745
5N7XX	A6054	7,596	-0-	7,596		7,596
5N8XX	A6108	<u>755</u>	<u>-0-</u>	<u>755</u>	<u>---</u>	<u>755</u>
5NXXX		43,511	197	43,708	-0-	43,708
NRC discretionary reserves						50
NRC management reserves						<u>382</u>
Total NRC funding (FY-80)						44,140

TABLE 4. 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	673		673		673	673
5F8XX	A6111	453		453		453	453
5F9XX	A6104S	<u>0</u>	<u> </u>	<u>0</u>	<u> </u>	<u>0</u>	<u>0</u>
5FXXX		1174	0	1174	0	1174	1174
		Foreign contingency reserves				127	127
		Foreign management reserves				<u>376</u>	<u>376</u>
		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				<u>170</u>	<u>170</u>
		Total foreign funds received to date				8,707	8,707

TABLE 5. MARCH CHANGE CONTROL BOARD ACTIONS

CCB#	WBS#	TITLE	FY-80	FY-81	TOTAL FY-80,81 FUNDS	SOURCE OF FUNDS	BOARD ACTION
80-31	5N4J060	Sample System Shielding (TMI)	102,000			NRC	Deferred
80-64	5F7C7XX	Ultrasonic Density Detectors	81,000			Foreign	Approved
80-69	5N8VMXXX	Operator Augmentation Program	361,000			NRC	Cancelled
80-78	54H180K	BS-RABV Removal	104,000			NRC	Deferred
80-85	54P76XX	Radiation Monitoring System	14,000			NRC	Deferred
80-87	54P76AC	Radiation Monitoring System	164,000	53,000	217,000	NRC	Deferred
80-88	54P76AD	Radiation Monitoring System	61,000			NRC	Deferred
80-91	54K680K	Electrical Power (Vital)	45,000			NRC	Deferred
80-95	5F7CAXX	Small Break Instrumentation	206,000			Foreign	Approved
80-63	5NXXXXX	FY-1981 Budget Call				NRC	Information Only
80-72	5F7C8XX	State Vector Development	10,000			Foreign	Approved
80-82	54H1909	Replace V2357 Check Valve	10,000	22,000	32,000	NRC	Approved
80-90	5N5KSA99	Safety Support	22,000			NRC	Approved
80-92	53AMP03	Noise Diagnostic Instrumentation	100,000			NRC	Approved
			100,000				
80-96	5F7C922	Boiler Installation	230,000(a)			Foreign	Approved
80-99	54IBS16	Status Data base	15,000			NRC	Approved
80-101	5N3C000	LTSF	2,320,000			NRC	Approved
			2,320,000				
80-102	5F7C3XX	Core Inst.-Fab, Insta-l.	64,000			Foreign	Approved
80-103	54K920D	Secondary Coolant Sys. Instru.	-0-			NRC	Approved

(a) Funds were allocated under CCB 80-50

TABLE 6. LOFT CAPITAL EQUIPMENT STATUS REPORT THROUGH MARCH

Schedule 189a	Title	Prior Year Uncosted	Current Year Funds	Total Available to Cost	Current Year Costs	Outstanding Commitments	Balance Less Costs and Commitments	Estimate ¹ to Complete	Balance
4CA101	Integral System Design and Fabrication	101,730	-0-	101,730	4,562	32,991	64,177	93,613	3,555
4CA102	LOFT Operations	126,419	-0-	126,419	50,100	9,800	66,519	74,990	1,329
4CA103	UT and Requalifi- cation Program	218,034	-0-	218,034	4,588	161,821	51,625	215,812	(2,366)
Total DOE		466,183	-0-	466,183	59,250	204,612	182,321	384,415	2,518
A-6061	Experimental Measurements	788,769	789,421	1,578,190	505,507	308,585	764,098	1,063,544	9,139
A-6084	Integral System Design	689,139	1,421,579	2,110,718	271,721	181,686	1,657,311	1,843,008	(4,011)
A-6088	LOFT Operations	18,091	89,000	107,091	14,880	4,141	88,070	91,480	731
Total NRC		1,495,999	2,300,000	3,795,999	792,108	494,412	2,509,479	2,998,032	5,859
Total LOFT		1,942,182	2,300,000	4,242,182	851,358	699,024	2,691,800	3,382,447	8,377