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Idaho Falls, Idaho 83401

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for H. P. Pearson, Supervisor
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Report No. LO-MR-79-001

Date: November 1979

INTERNAL TECHNICAL REPORT

Title: LOFT MONTHLY PROGRESS REPORT
FOR OCTOBER 1979

Organization: LOFT Program

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Author: N. C. Kaufman,
LOFT Project Director

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INRC Report No. 1 Technical
Acoustical Report

Checked By: _____

Approved By: 

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LOFT MONTHLY PROGRESS REPORT FOR OCTOBER 1979

DIRECTOR'S MONTHLY SUMMARY

During October, plant work continued ahead of schedule toward performance of LOFT Experiment L3-1 in late November. L3-1 will be the first LOFT nuclear test of a small break. Specifically, the reactor will be operated at a power level of 50 megawatts just before initiation of a small break in the inlet (cold) leg. The break size has been selected in conjunction with emergency core cooling system (ECCS) flow to result in a prolonged and continued depressurization of the plant. That depressurization will end when the pressure reaches that of the low-pressure ECCS (about 200 psi).

The FY-80 baseline budget and schedule were approved during October. The budget is based on a no problem, or target, schedule to assure funding sufficient for continued performance at a maximum rate. Additionally, schedule dates have been identified to which the project can commit as a result of a small contingency allowance for unanticipated problems. The planned program will prove very challenging because of the schedule rate of test performance and the variety of tests involved. Success will require a still higher level of project performance.

October costs reflect manpower levels slightly greater than budgeted and significant uncoded material. Also included are the first costs associated with the Nuclear Regulatory Commission (NRC) purchase of inventories of special process spare parts. Overall, these costs forecast no significant problem areas.

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ACCOMPLISHMENTS

LOFT Integral System Design and Fabrication

1. Conceptual plans were prepared and submitted to Department of Energy Idaho Operations (DOE-ID) to request general plant project funding to install grounding systems on the Test Area North (TAN) 13.8 kilovolt (kV) distribution system and the LOFT 480 volt (V) and 2300 V electrical power systems. The grounding of the TAN 13.8 kV system was recommended in the report of electrical incidents at TAN on August 21 and 31.

A new one-line diagram of the TAN area 13.8 kV distribution system has been prepared and a purchase requisition issued to test all major transformers on this system. The testing was recommended to determine if any undetected damage was caused by the overvoltages in the system in August.

2. The thermometers have been replaced in diesel generator DG-B closed cooling systems with thermocouples and a remote indicator. The thermometers were replaced because they were inaccessible and presented a personnel safety hazard.
3. Single-line communications equipment has been installed between room 201, the polar crane operator, and the crane for use while performing load testing of the crane to the requirements of procedure DOP 74-500-ST.
4. Vital power has been provided to control valve CV-P138-31, one of two parallel valves from the suppression tank to the pressure reduction sump. The other control valve, CV-P138-30, is powered from commercial power. Now, the two control valves are powered from independent power sources for increased reliability of operation.

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5. An electrical heating system has been installed in the air-cooled condenser to prevent freezing during cold-weather operation.
6. The facility temperature monitoring (FTM) system has been changed to receive power from the vital power system. The FTM currently monitors approximately 120 plant and facility temperatures for use in operating the LOFT Facility.
7. A hot waste, liquid level indicator system has been installed to permit both local and remote indication in the main control room.
8. A secondary coolant system (SCS) nitrogen remote control function has been installed to permit the control of nitrogen to the SCS from the main control room.
9. Work is in progress to install the operations information augmentation system. This system will provide the operators with a graphic display of certain plant system parameters on three-color graphic terminals in the main control room.
10. A safety analysis was completed on operating the LOFT reactor with a new center fuel bundle installed. The analysis was documented and released as LTR LO-08-79-137.
11. The LOFT decay heat computer program has been readied for use during L3-1. The program will accept power history input manually or from the direct power level recording of the power range monitor program.
12. Zero power physics testing has been performed to verify expected core performance following the recent center fuel module replacement. The physics testing was interrupted before completion, but the results to date are

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to verify proper core performance. The remaining tests will be used to further establish baseline data on the new core.

13. Technical specifications for power operation using the new center fuel module were submitted to DOE-ID for approval.
14. Technical specifications for physics testing with the new center fuel module were approved by DOE-ID.
15. Modifications were made to the loss-of-coolant experiment (LOCE) control system to permit additional functions for the L3-1 test sequence.
16. System checkout (SO 93.03) was completed on the plant protective system (PPS) flow instrument upgrade.
17. An analysis was conducted that indicated any hydrogen and oxygen generated during L3-1 would probably be undetectable by the present primary coolant system gas sampling method.
18. A photograph of the lower core support structure after the center fuel module was removed showed some white spots. An evaluation of the spots was made; the spots are probably boric acid crystals.
19. A high chloride content in the Irradiated Fuel Storage Facility in TAN-607 signaled a chemistry problem. Further checking showed the demineralized water plant (DMW) was producing bad water. A new ion exchanger and new resin are being purchased for the DMW plant. A letter recommending changes in the TAN-607 chemistry specifications and sampling frequencies has been written.

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20. As a result of recommendations contained in LTR 113-59, four overstressed emergency core cooling (ECC) suction line supports were reworked to reduce their stress loads so they can meet LOFT seismic requirements.
21. A hydrogen addition system, a hydrogen-plus-total-gas-analyzer system, and a rotameter were installed in the primary coolant system (PCS) sample sink. These additions will permit better analysis and control of the gases in the PCS.
22. The cycle log study, LTR LO-11-79-069, (a count of fatigue cycles incurred in LOFT) is in the approval cycle.
23. Readiness reviews for the L3-1 test were held for all LOFT Plant Support Branch systems.
24. A replacement air compressor for PA-C-1 was received, and a final design review was conducted for its installation. This compressor is a nonreciprocating type and will alleviate the vibration problem associated with the old compressor. The old compressor will be installed at TAN-607 as a backup for their present compressor.
25. Specification T-20 (for valves) was revised and issued for procurement of ASME Section III valves for LOFT use.
26. The nitrogen source for the air-cooled condenser was modified to preclude the possibility of instrument air entering the secondary coolant system.
27. Work on the S/N 005 corner fuel module for Core II was completed, and the fuel module was placed in the TAN-615 storage locker.

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28. Procurement activities for Reload Core II upper structures were finished, and a contract was awarded to L&S Machine Co., Latrobe, Pennsylvania.
29. The inspection vessel stackup on the TAN-607 LOFT vessel mockup was completed for the training required for dimensional and channel spacing measurements to be performed on the A1 fuel module.
30. Final design drawings were released on the downcomer stalk cask and fabrication planning activities were started.

LOFT Operations

1. All in-service inspection testing was required before L3-1 was satisfactorily completed.
2. Testing was completed on the hot and cold portions of pre-L3-1 plant testing, DOP 01-005.
3. The critical operations portion of DOP 01-005 was begun.
4. The prerequisites for small-break nuclear testing were started (EOP L3-1).
5. PPS flow computer checkout, SO 93.03, was completed.
6. Testing continued on the secondary and water gas systems.

LOFT Experimental Measurements

1. Three core flowmeters have been assembled, tested, and shipped for the modular drag disc turbine transducer (MDTT). Two D3 meters were shipped to Exxon for the F1 fuel bundle and one B2 meter was shipped to TAN-615 for the A3 fuel bundle.

2. Design modifications aimed at improving drag disc performance have been incorporated in a unit and tested. A prototype MDTT will be fabricated and fully tested during the next reporting period. Analyses (stress, thermal, etc.) have been requested where required.
3. Fabrication of the new amplifiers and drivers is complete. Acceptance procedures for these units are being reviewed. Fabrication of the prototype period electronics is scheduled to be completed the first week in November.
4. Results of the failure analysis on the failed units removed after the L3-0 test have been compiled and published. In general, the recommendations for fixes have been completed or are being worked on. No determination was made as to the cause of the drag disc pedestal failure. Additional metallographic analysis on the pedestals will be conducted.
5. Changes were made to the Performance Measurement Information System and a completely new FY-81 budget. Some items deleted from the FY-80 budget were the fabrication and testing of a heated thermocouple liquid level transducer (LLT) and the fabrication of one upper plenum LLT.
6. An updated list of LLTs in storage was prepared. The list identifies the type and serial number of each LLT.
7. Calibrations and final adjustments were made to the LLT signal conditioning electronics for LE-34P, 1ST, and 2ST prior to LOFT physics testing for L3-1.
8. The LLT performance test data was digitized and a review started.

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9. The transit time flowmeter (TTF) electronics were set up and calibrated. Two accumulator blowdowns were performed so that data from the TTF could be obtained. This data was subsequently reduced and evaluated. It was found that the TTF was performing satisfactorily.
10. Design work was started by LOFT Engineering Design personnel on the flow vibration probe.
11. A prototype rake (the Galveston Rake) has been taken to ARA-III. Initial testing of the rake's vibration response has begun.
12. The PC-3 gamma densitometer system (detectors and casks, actuator box, and required cables) was reinstalled and checked out. The source and calibration shims operate, but the detectors register no activity. Work is underway to identify the problems and correct them.
13. The BL-1, PC-1, and PC-2 nuclear-hardened gamma densitometers have been checked out and verified to be operational.
14. Two detectors have been placed near the pressurizer surge line for background monitoring during L3-1. All necessary cables to the detectors have been connected. Information from these detectors will be used in the design of densitometers needed for test L3-4.
15. The electronics required to automatically store and expose the PC-3 source have been completed and checked. They will be installed and operationally checked before L3-1.
16. The photomultiplier tube housing design has been changed to eliminate the problem of the copper inner sheath

collapsing on the photomultiplier tubes. Housings are now being fabricated to this design and the appropriate drawings are being revised.

17. Three free field pressure transducers completed last month were calibrated and sent to TAN.
18. Three free field pressure transducers were completed and calibration-acceptance testing begun.
19. Installation of PdE-PC-27, PdE-PC-28 (pump suction), and PdE-RV-5 (reactor vessel upper plenum) was completed and the transducers and cables checked out.
20. Control system design for PdE-SV-01 (suppression tank level) was completed. Materials were procured.
21. A facility change form for installation of the PdE-SV-01 (suppression tank level) control switch in the main control room was prepared and routed for signatures.
22. Four CEC-1000 absolute pressure transducers were ordered to supply reference pressure for the suppression tank. Design of an adaptor for the transducers to the suppression tank flush mounts was completed. Drawings were made and the review process began.
23. Final cabling hook up to both pitot tube rakes was completed. Two of the thermocouples and one of the strain gauges' cables were found to have openings. These were located and corrected.
24. A spectrum analyzer was installed in DAVDS along with an X-Y plotter to monitor the structural integrity of the rakes.

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25. An operational check of the pitot tube rakes and associated measurements was completed; the system is functioning satisfactorily.
26. A requisition of upper end box linear variable differential transformers (LVDT) was prepared and held until a Control Board (CCB) action for funding is complete.
27. Agreement was reached that the instrumentation to be provided for tests L3-5, L3-6, and L3-4 will consist of a low energy densitometer upstream of the orifice, together with a full flow drag plate and a turbine downstream of the orifice.
28. The use of beryllium as a window for the low-energy source to shoot through is also being evaluated. Beryllium appears to be compatible with LOFT chemistry. A supplier has been found.
29. A tour was made of Semiscale to investigate use of their three-inch spool piece. They use grey-lock hubs for pipe connection. Drawings of their design were obtained.
30. The two F1 ultrasonic density detectors, fabricated with the wrong cable last month, were repaired by replacing the shield cable (at no cost to the project). These two are currently being tested.
31. All four sets of production electronics have been modified and repaired where necessary. Installation at TAN will begin in early November, subject to available manpower.
32. All construction work was completed for the pulsed neutron activation system. The generators, neutron monitors, and detectors were installed. The neutron monitors and detectors functioned as required. However, the generators

failed to trigger at first. The problem was traced to cabling problems, which were resolved. A data tape was generated with known plant flow for use in checking the data analysis programs.

33. Development was completed on a reliable eddy current test technique to identify defects in small diameter zircaloy tubing for cladding thermocouples.
34. The residual tubes from the qualification lot of zircaloy tubing were eddy current tested.
35. Thermocouple qualification procedure TP-122-QT and acceptance test procedure TP-122-ATP were reviewed and signed off.
36. Qualification testing on the three thermocouple vendors has been completed. The final report from instrumentation is to be submitted and received by November 5.
37. Fabrication of the A3 module instruments is complete at Kaman Sciences. During calibration testing, it was discovered that Kaman had ordered electronics that did not include the latest temperature compensation feature. Four sets of electronics were returned to Schaevitz for modification on a priority basis. These units are scheduled to be returned to Kaman by November 5. Four sets of electronics were retained at Kaman as backup units as LVDTs are in specification with original electronics. This will slightly delay delivery of the LVDTs to INEL, but should not impact the assembly schedule at TAN-615.
38. Fabrication of fuel pin plenum pressure transducers and associated electronics continues to be on schedule at Kaman Sciences. The acceptance test procedure has been received and approved. Hanford Engineering Development

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Laboratory is shipping a qualification transducer to Kaman to be modified for use as a prototype to proof Exxon's assembly tooling. A change order will be written to add this to K-5797 scope of work. Delivery to Exxon is scheduled to begin the last week of December for installation into the F1 fuel bundle at Exxon.

39. Fabrication of centerline thermocouples continues to be marginally ahead of schedule requirements due to slow delivery of GFM to Kaman Sciences. Six model As and five model Bs were delivered to Exxon on October 1. This completes the requirements for the A3 fuel bundle. Source inspection is scheduled on October 31 for three model As and three model Bs.
40. Preparations for L3-1 continued with the following activities:
 - (a) Coefficients were reviewed
 - (b) The data reduction programs for FWA were started
 - (c) Transit time flowmeter programming is complete except for data reformatting for transfer of TTF data to the CDC
 - (d) Failed instrument lists were published on a semi-weekly basis. These reports will be published daily when L3-1 starts
 - (e) The instrumentation walk-through for L3-1 was completed
 - (f) Weekly reviews of instrumentation recorded on the DAVDS were conducted with Facility Division personnel.

41. A rough draft of SDD 1.4.1D was completed. This draft is being designed to allow easy addition or deletion of instruments on a test-by-test basis. To accomplish this, a modular system has been designed which uses the Measurement Capabilities List for updates.
42. The reviews for the calibration standard practice have been completed and the revised standard sent for release and distribution.
43. The analysis of Wyle small break tests began and the data required to support L3-1 were qualified. These data are being sent to the reactor vendors for use in the standard problems.

LOFT Fuel Fabrication

1. Assembly of the Reload Core I peripheral fuel modules was completed at TAN-615 with completion of the C5 (instrumented, triangular-shaped) fuel module.
2. The Reload Core 2 upper support structure supply contract was awarded to L&S Machine Co.
3. The A1 center fuel module Level II requalification examination readiness review meeting was held.

LOFT Experimental Program Planning

1. In the reduction of the Wyle small-break orifice calibration data, a report containing the engineering units data has been prepared and distributed to the L3-1 standard problem participants.
2. The Blowdown Experiment Safety Analysis (ESA) for L3-1 was completed. Documentation of the analysis is in progress.

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The most significant single failure which has been analyzed is the loss of the entire high-pressure injection system (HPIS) flow.

3. The LOFT Experimental Program Document (LEPD) has been drafted and sent out for internal review. Comments have been received and the final draft is being prepared for review and approval.
4. An extensive LOFT Data Reference (LDR) which documents the basis for selecting the plant configuration and initial conditions for the L3 series of tests has been prepared, and will be sent out for final internal review and approval.
5. Planning analyses for LOFT LOCEs L3-5 and L3-6 have been completed and are being reviewed. Personnel are participating in the design of the instrumented spool piece that will be used for these tests.
6. The contents of the Research Information Letter on LOFT L2-2 and L2-3 results were summarized and condensed for inclusion in the July - September Quarterly Report. The report number in which this summary appears is NUREG/CR-1080, EGG-2003.
7. A plan to complete the small-break scaling studies involving LOFT-Large Pressurized Water Reactor (LPWR) geometries was defined and is being discussed both by EG&G Idaho and Austria. The Austrians will participate in the study and perform computer work with the RELAP4/MOD6 code as part of the overall LOFT/LPWR scaling study. The plan is expected to begin in November.
8. Preparation of the Quick-Look Report (QLR) for LOCE L3-1 was completed through the first draft stage. Experimental

data and code prediction comparisons were defined for inclusion in the report.

9. Preparation was completed for presentation of two papers in November. A paper entitled "Blowdown Hydraulic Influence on Core Thermal Response in LOFT Nuclear Experiment L2-3" by D. L. Reeder will be presented at the Winter American Nuclear Society (ANS) meeting. A paper entitled "Analysis of LOFT Loss-of-Coolant Experiments L2-2, L2-3, and L3-0," by L. P. Leach and J. H. Linebarger will be presented at the WRSR meeting.
10. In connection with the analysis of the self-powered neutron detector (SPND) data, a task was defined and implemented to perform gamma ray transport calculations using the ANISN code and BUGLE library cross sections. The calculations are to determine gamma flux dependency on coolant density in the core for the purpose of analyzing the SPND single variations. The SPNDs are also gamma sensitive and show a high degree of correlation with other measurements such as cladding thermocouples in indicating coolant density variations.
11. Development of a RELAP5 model for LOFT small-break experiments has shown progress. Comparisons of calculations with the nonnuclear Small Break Experiment L3-0 are showing good agreement. This work will become part of the LOFT-LPWR scaling study.
12. Wyle small-break orifice calibration data were reviewed and qualified. A report on Wyle data was distributed to DOE and various vendors to aid in their predictions of LOFT L3-1.
13. The Experiment Data Report (EDR) plot request and preliminary draft were completed in preparation for LOFT L3-1.

14. Recommendations and programming requests for COPERA were transmitted to N. L. Norman and R. L. Curtis. The recommendations were the outcome of an extensive review of all COPERA functions for the LOFT small-break series.
15. Several meetings were held to discuss instrumentation setup and calibrations for LOFT L3-1. Specific meetings were called concerning the pulsed neutron activation (PNA) measurements and the data reduction processes needed for the PNA.
16. A review of all instruments in LOFT was completed. Recommendations on which instruments could be deleted were transmitted to Duane Hanson, LOFT Experimental Measurements Branch.
17. The transient testing with LOFT L3-1 and L3-2 size nozzles was completed and resumption of the original test program occurred this month. A total of eight transient tests were completed.
18. The small-break nozzle test series for Semiscale in the Blowdown Facility was completed.
19. The installation of process control equipment and instruments was completed, enabling the control system temperature measurements to be independent of the data acquisition system.
20. All major components were delivered for the two-phase flow loop and final construction is continuing.

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Summary of Austrian-Funded Tasks

1. Task 5FAC1 -- SGAE Management

Status: Negotiations are continuing between NRC and SGAE to define the scope of in-kind work to be performed in Austria.

Summary of Netherlands-Funded Tasks

1. Tasks 5FNC1 -- ECN Management

Status: The status of ECN-funded tasks was presented in a joint meeting of LOFT foreign participants held in the NRC facilities at Silver Spring, Maryland on October 31.

2. Task 5FNC3 -- RPI Subcontract

Status: As part of the task to develop a two-phase model for orifice flow, modifications to the air-water loop at Rensselaer Polytechnic Institute have been completed and tests are proceeding to obtain experimental data to verify the models.

3. Task 5FNC4 -- INEL Support

Status: Inactive.

Summary of FRG/JAERI-Shared Tasks

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

Status: Reported in LOFT Experimental Program Planning accomplishments.

2. Task 5F9C3 -- TRAC Code Studies

Status: Reruns of L2-2 and L2-3 steady-state post-test analysis have been completed. L2-2 and L2-3 transient posttest analyses are planned for November.

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Summary of FRG-Funded Tasks

1. Task 5F7C1 -- FRG Management

Status: The status of FRG-funded tasks was presented in a joint meeting of LOFT foreign participants held at the NRC facilities at Silver Spring, Maryland on October 31.

2. Task 5F7C3 -- Core Instrumentation

Status: The tests to size the removable orifices for the LOFT lower core support plate have been scheduled for February 1980.

3. Task 5F7C4 -- Miscellaneous Tasks

Status: The only active task is a subcontract for the services of Dr. S. Banerjee, consultant for two-phase phenomena. The duration of the contract has been extended to February 1980. Dr. Banerjee's services were not used this month.

4. Task 5F7C5 -- Steam Probe

Status: A LOFT management decision has been made to end this task with the completion of the design phase. A \$10,000 contingency and \$50,000 of task funds were returned to the FRG reserve via CCB action 80-4. The remaining \$11,000 of funds have been input to complete the design phase by January 1980.

Summary of Japanese-Funded Tasks

1. Task 5F8C1 -- JAERI Management

Status: The status of JAERI-funded LOFT tasks was presented in a joint meeting of LOFT foreign participants held at the NRC facilities at Silver Spring, Maryland on October 31.

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2. Task 5F8C3 -- Additional Instruments

Status: Task inactive.

3. Task 5F8C4 -- Pressure Balanced Drag Turbine

Status: The final report has been written and reviewed. The report has been sent to the author, Dr. J. Cole, University of Arkansas, to incorporate reviewers' comments.

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

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

A presentation for the Seventh Water Reactor Safety Research Meeting was prepared.

The paper for the ANS/ASME Topical Meeting on Reactor Thermal-Hydraulics was finalized.

5. Task 5F8C6 -- Reevaluation of LOFT Experiments

Status: This task is complete except for revision of the final report. The task was accomplished by foreign participants in the LOFT Program, resulting in a savings of budgeted labor costs. The remaining \$30,000 was returned to JAERI reserve via CCB action 80-4.

6. Task 5F8C7 -- Miscellaneous Code Studies

Status: No change.

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SUMMARY SCHEDULE

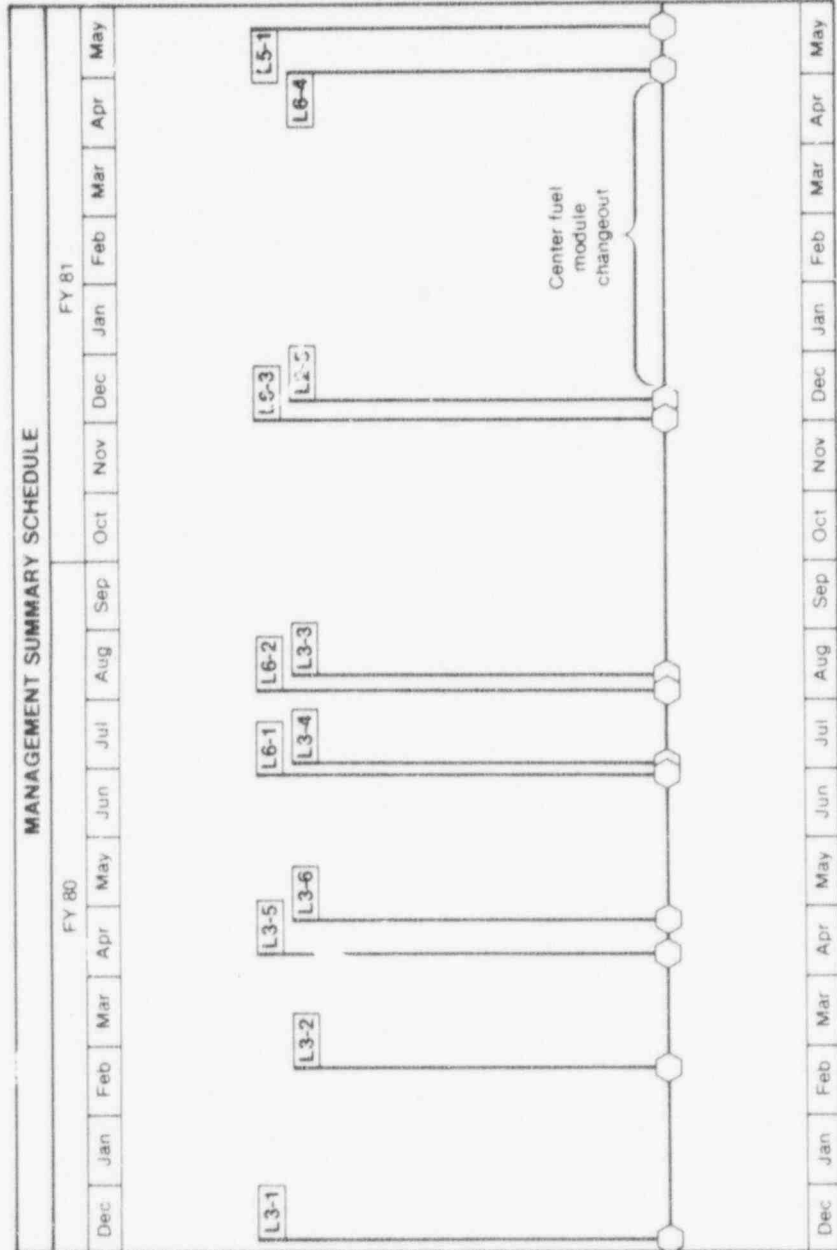


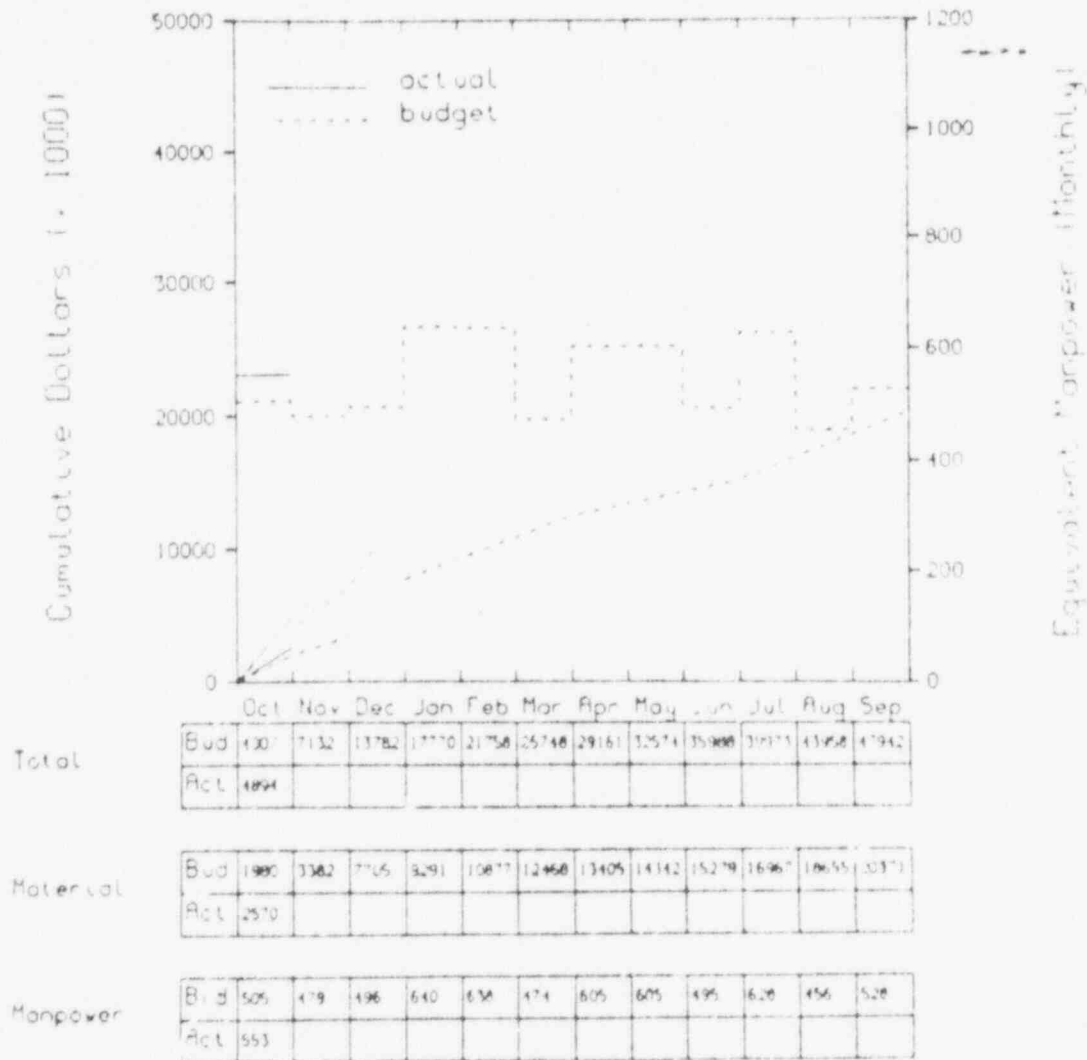
Figure 1. LOFT management summary schedule.

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COST CHARTS AND VARIANCE ANALYSIS

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LOFT Program Cost/Budget Summary LOFT OVERALL FUNDING-080-2 BASELINE



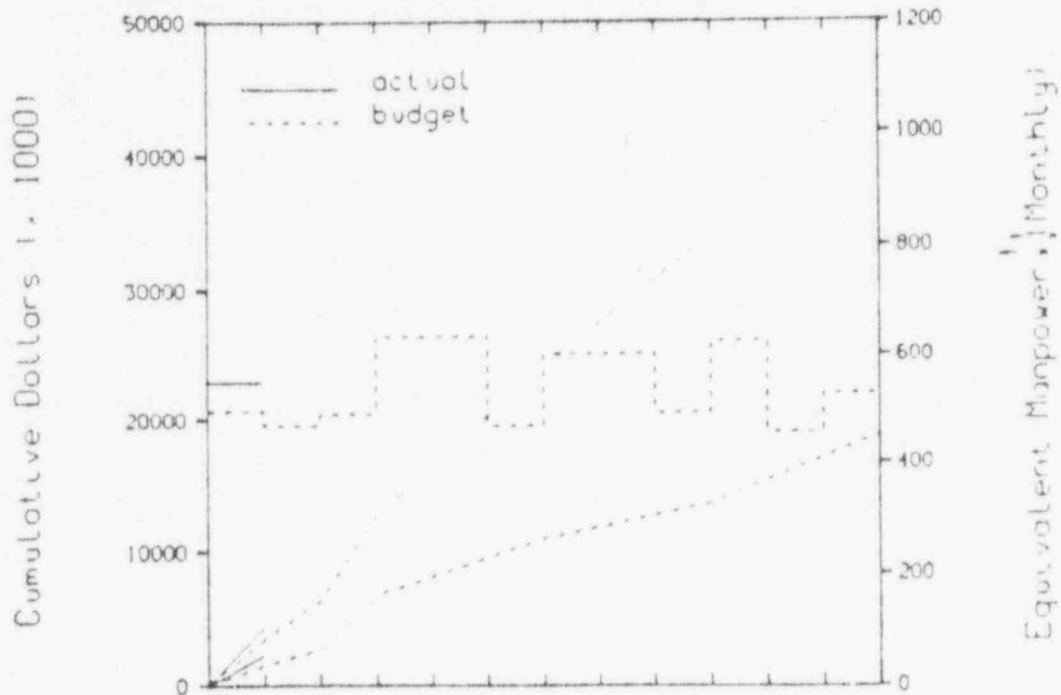
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LOFT Program Cost/Budget Summary
LOFT-NRC OPERATING FUNDING-1st Level 5n



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	7500	16360	12730	18515	20300	24086	27158	30830	34203	38181	42159	46138
Act	4387											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	1511	2689	6759	8159	9559	10960	11855	12750	13645	15332	17019	18732
Act	2272											

Manpower

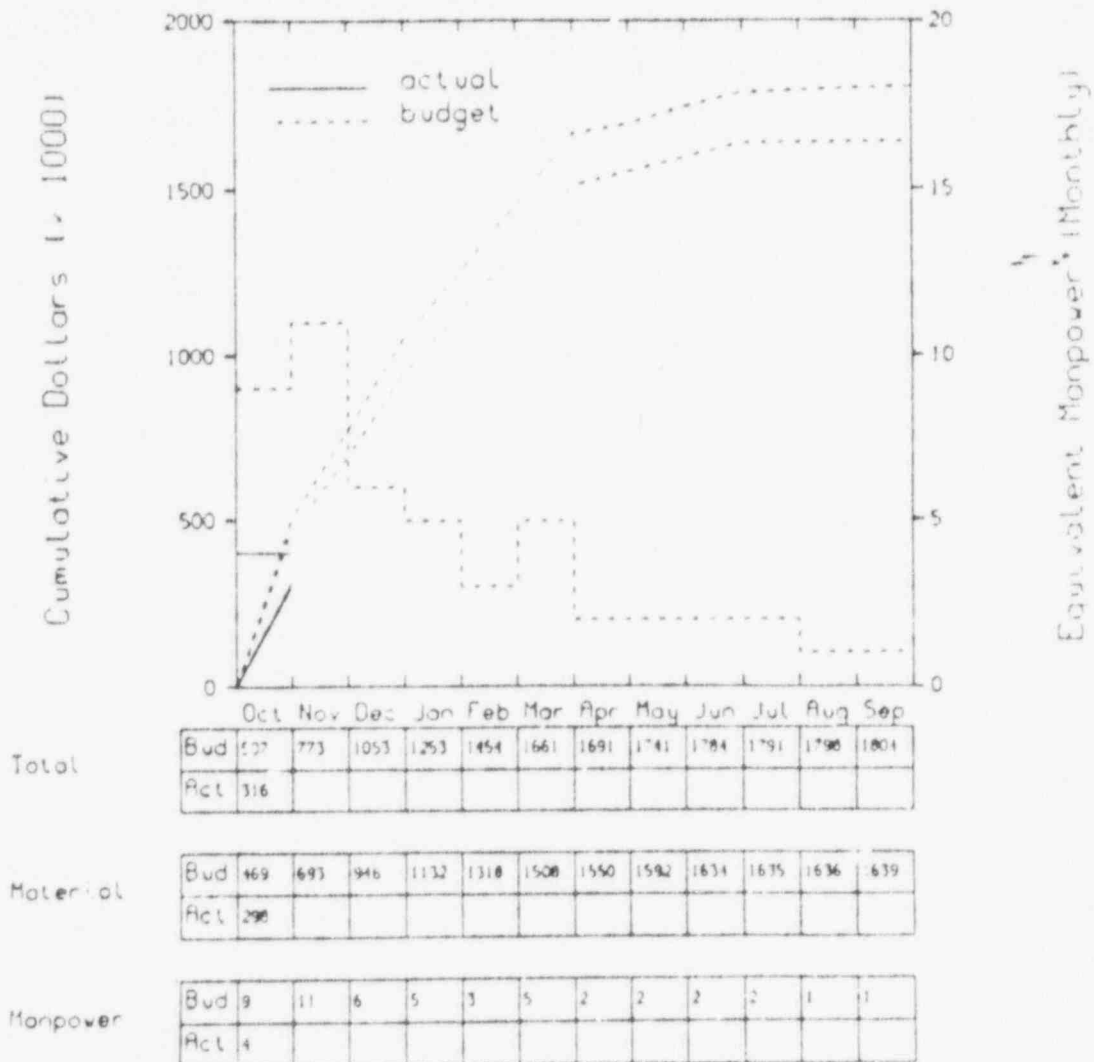
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	496	468	490	635	635	469	603	603	493	626	455	527
Act	549											

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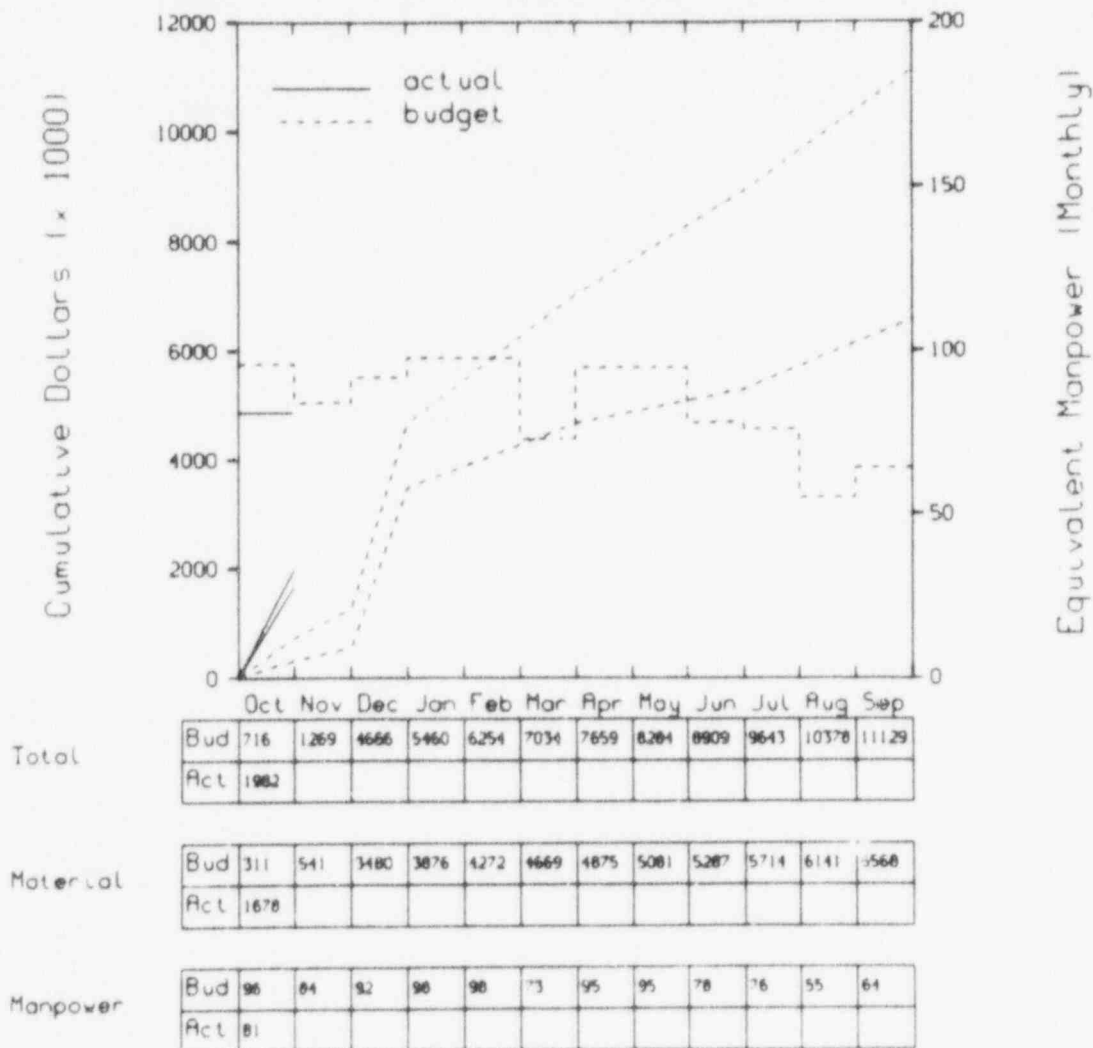
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LOFT Program Cost/Budget Summary LOFT-FOREIGN FUNDING-1st Level SF



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LOFT Program Cost/Budget Summary
NRC 189A A6107 PLANT SUPPORT-2nd Level 5n40

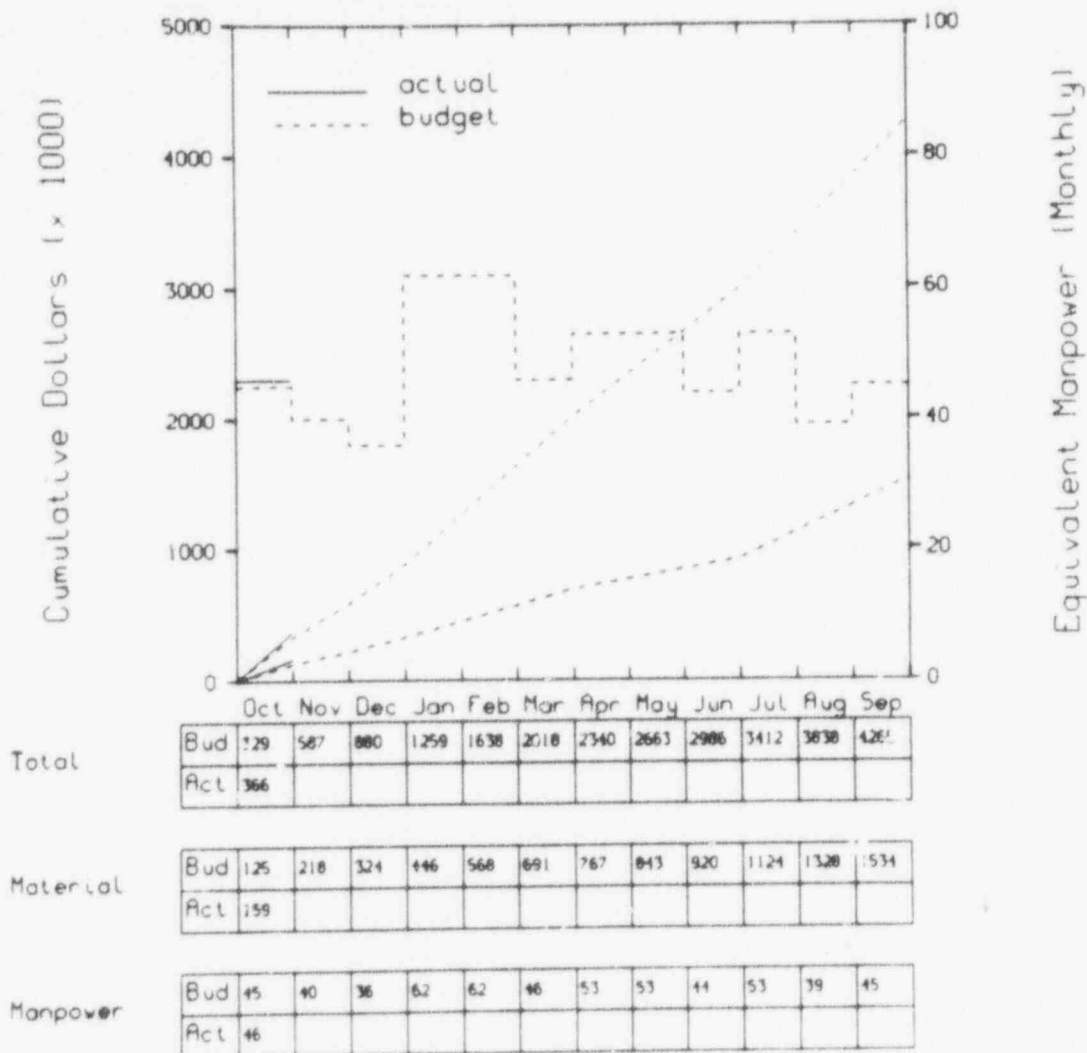


Excessive material charges have resulted from costing approximately \$1.5 million of special process spares against this activity in error. Other differences result from front end loading of manpower in one summary cost account because of an error in logic and delayed material costs. Corrective action is in process.

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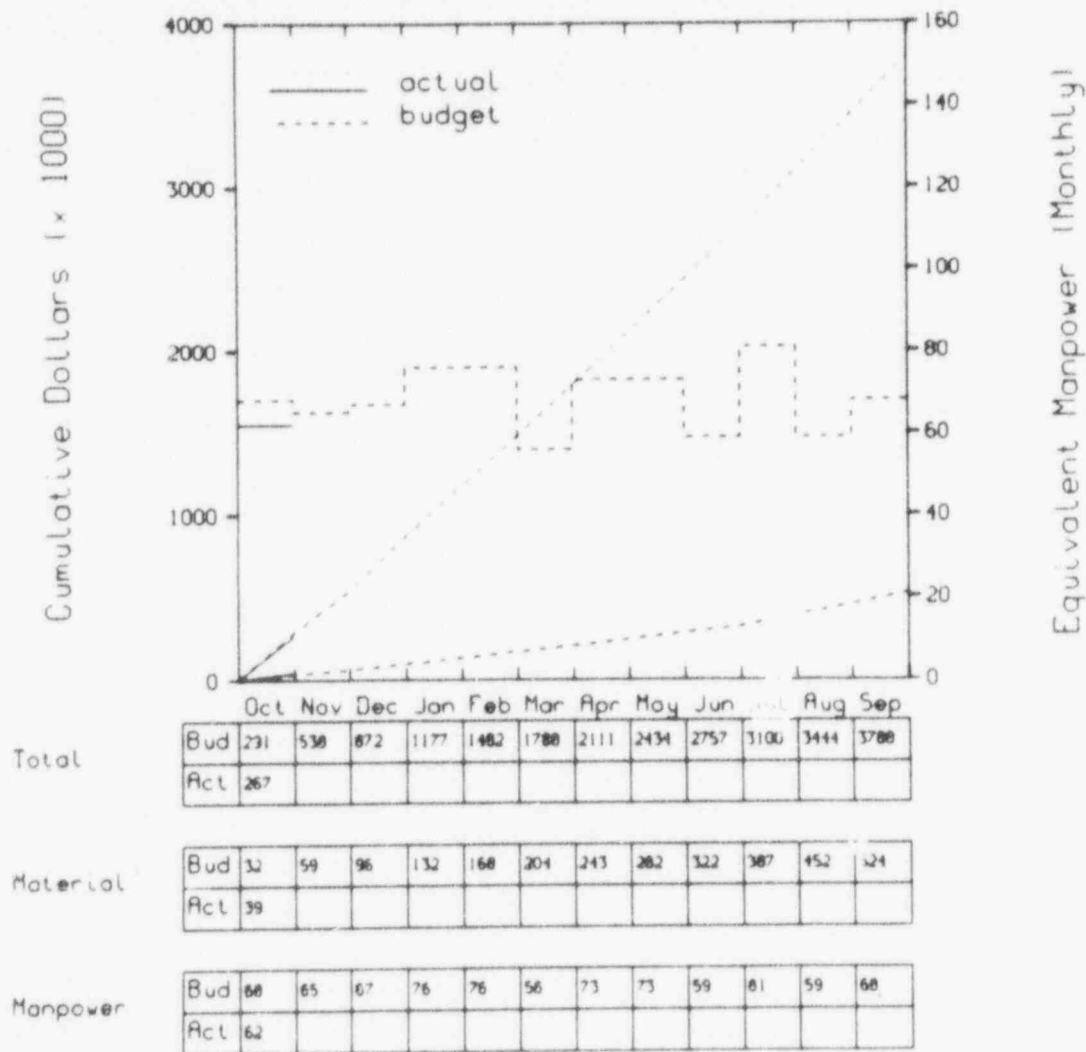
LOFT Program Cost/Budget Summary
 NRC 189A A6122 - CORE & SAFETY SUPPT-2nd Level 5n50



Material cost overrun has resulted from computer charges in excess of budget. A portion of this has resulted from high usage and a portion from higher than required charges, which will be corrected.

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LOFT Program Cost/Budget Summary
NRC 189A A6110 COMMON SUPPORT-2nd Level 5n60

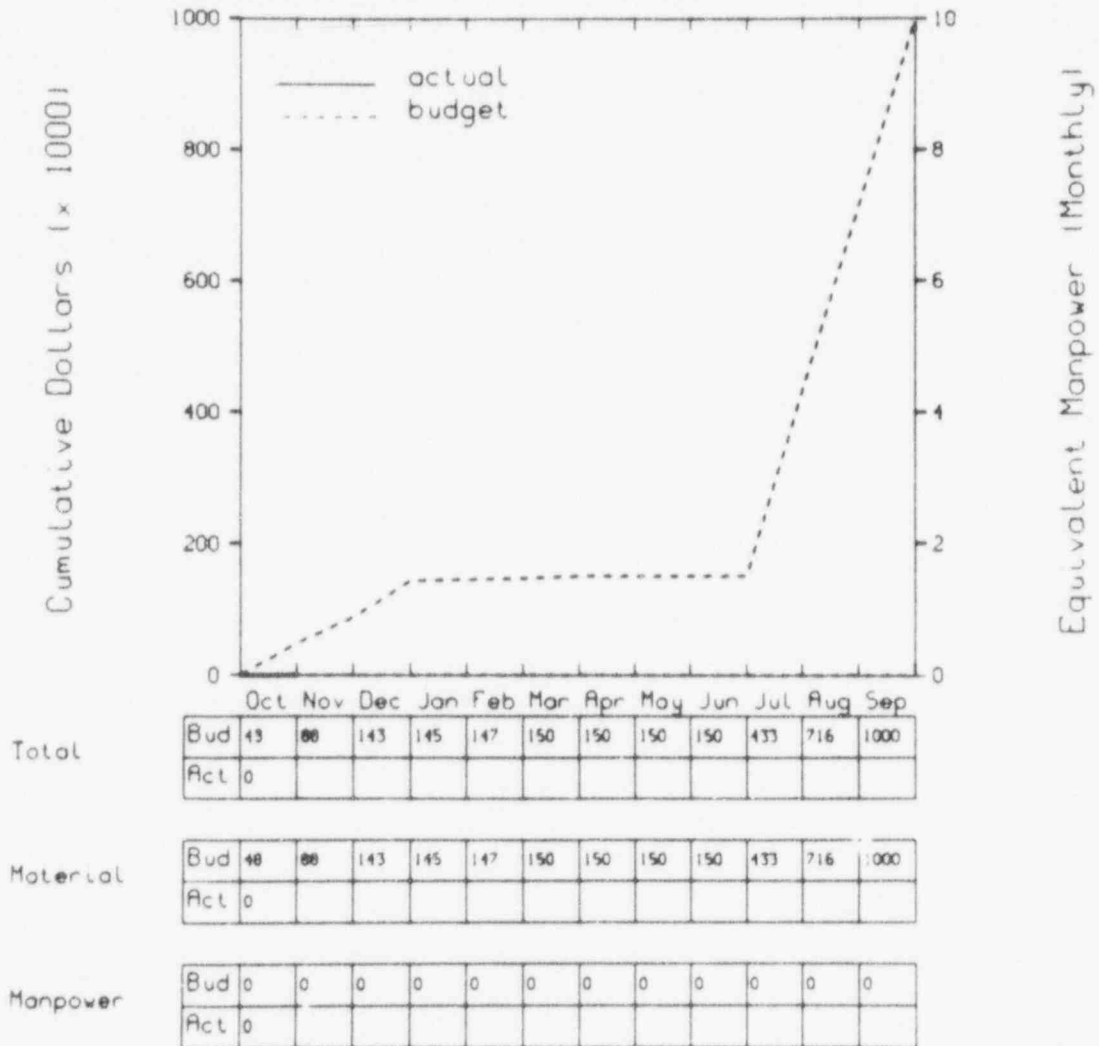


No significant variance.

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LOFT Program Cost/Budget Summary
A6108 AUGEM OPER CAPABILITY-2nd Level 5n80



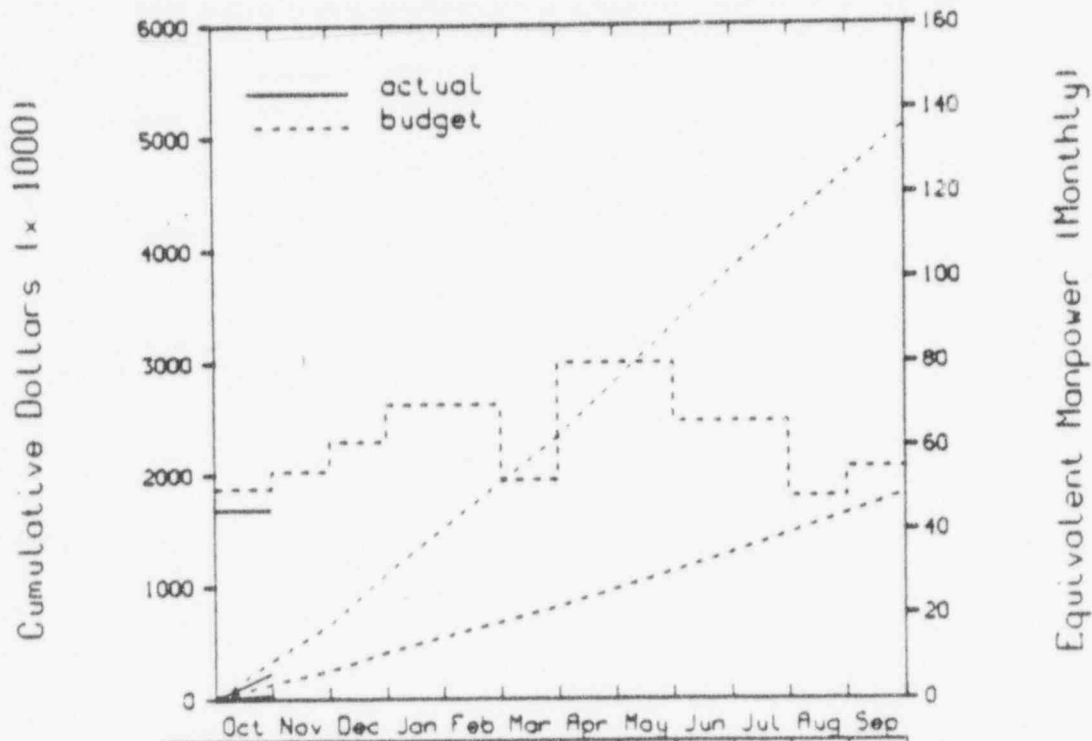
No significant variance.

24000007

74080000

90008046

LOFT Program Cost/Budget Summary
NRC 189A A6048 - EXPER PROGRAM-2nd Level 5n10



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	313	657	1113	1520	1927	2335	2830	3325	3820	4246	4672	5098
Act	228											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	137	251	412	546	680	815	974	1133	1292	1468	1644	1822
Act	34											

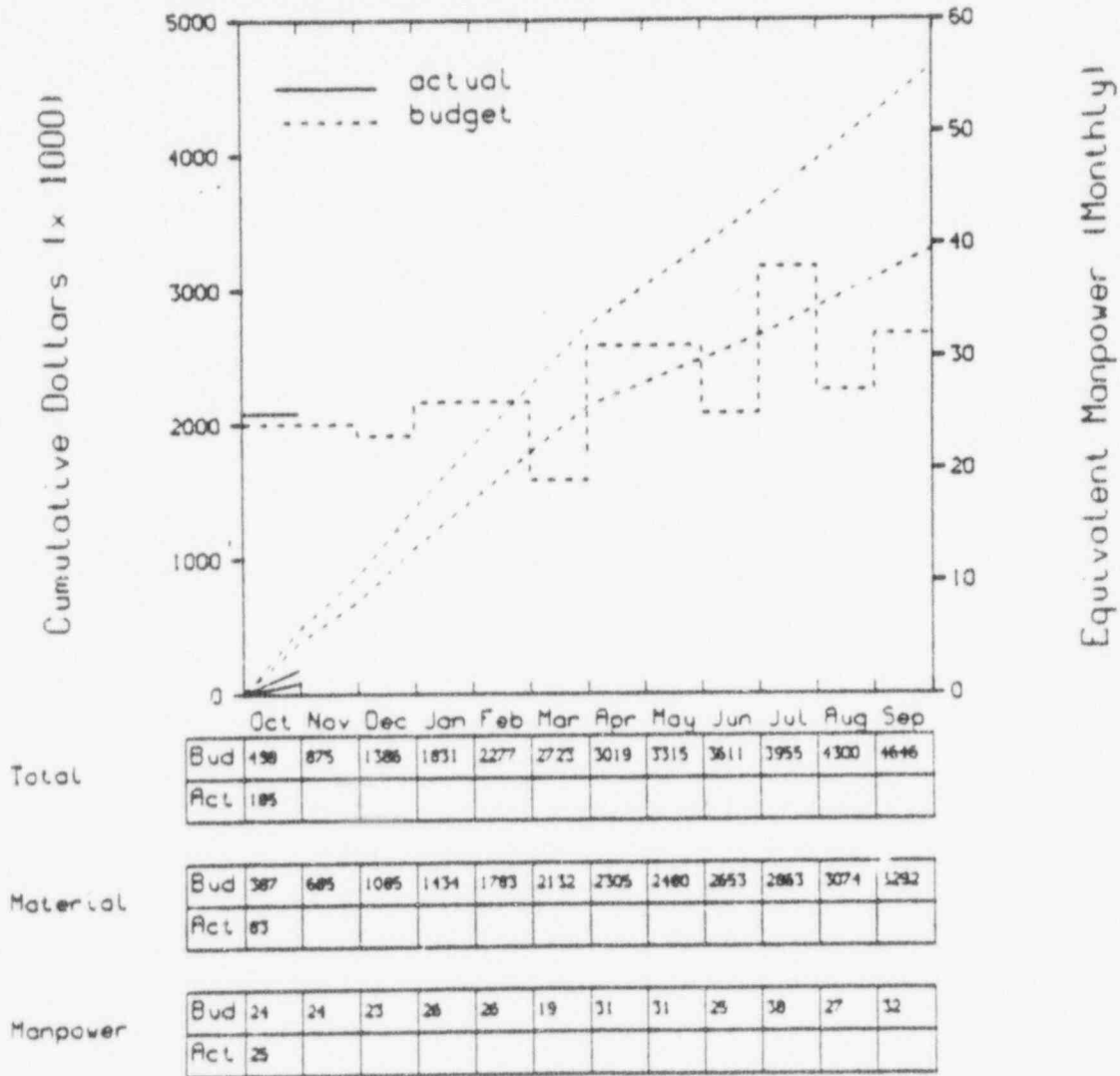
Manpower

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	50	54	61	70	70	82	90	90	96	96	98	95
Act	45											

84080009

90008047

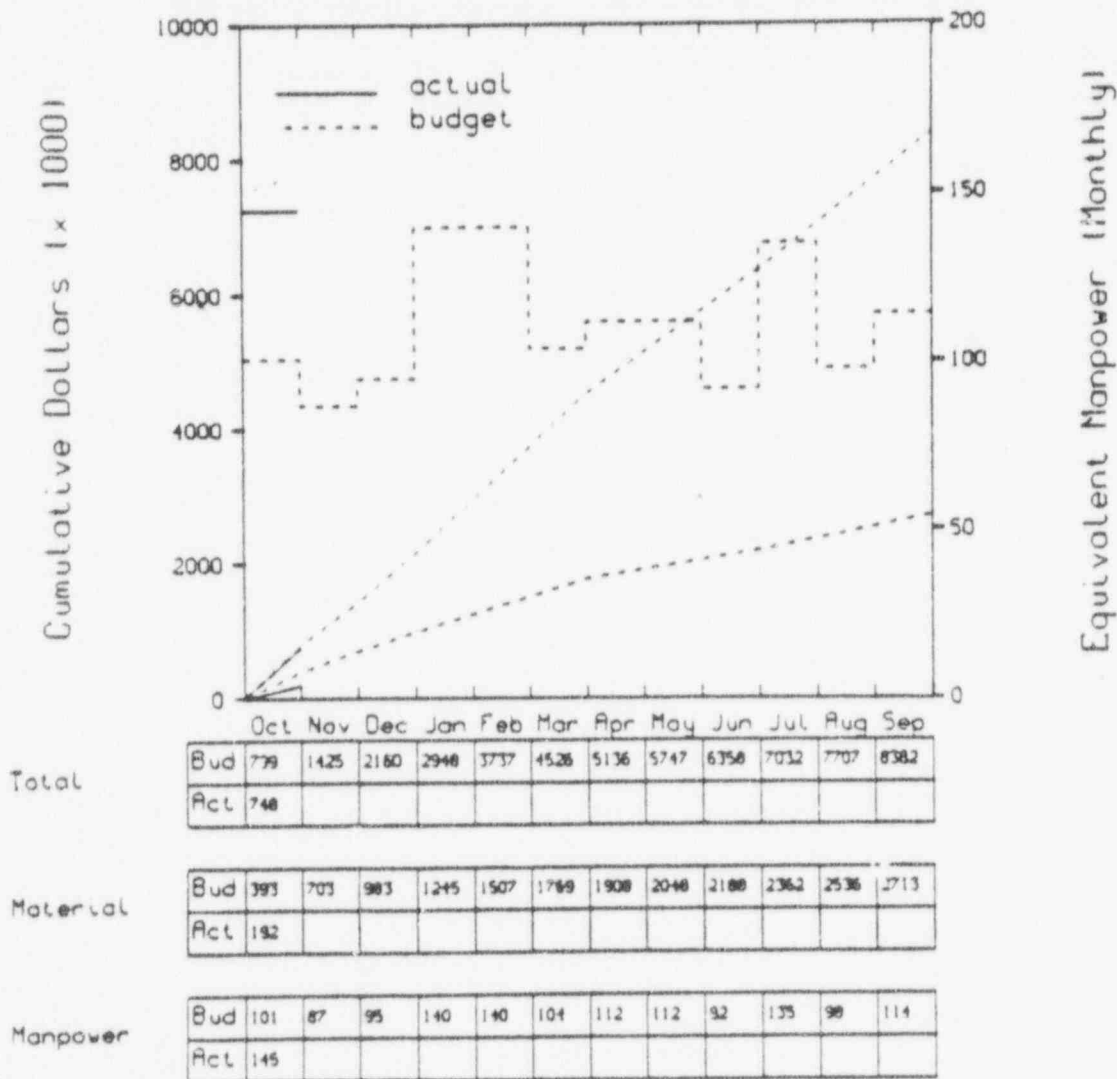
LOFT Program Cost/Budget Summary
NRC 189A A6053 FUEL-2nd Level 5n20



PA08000000

90008048

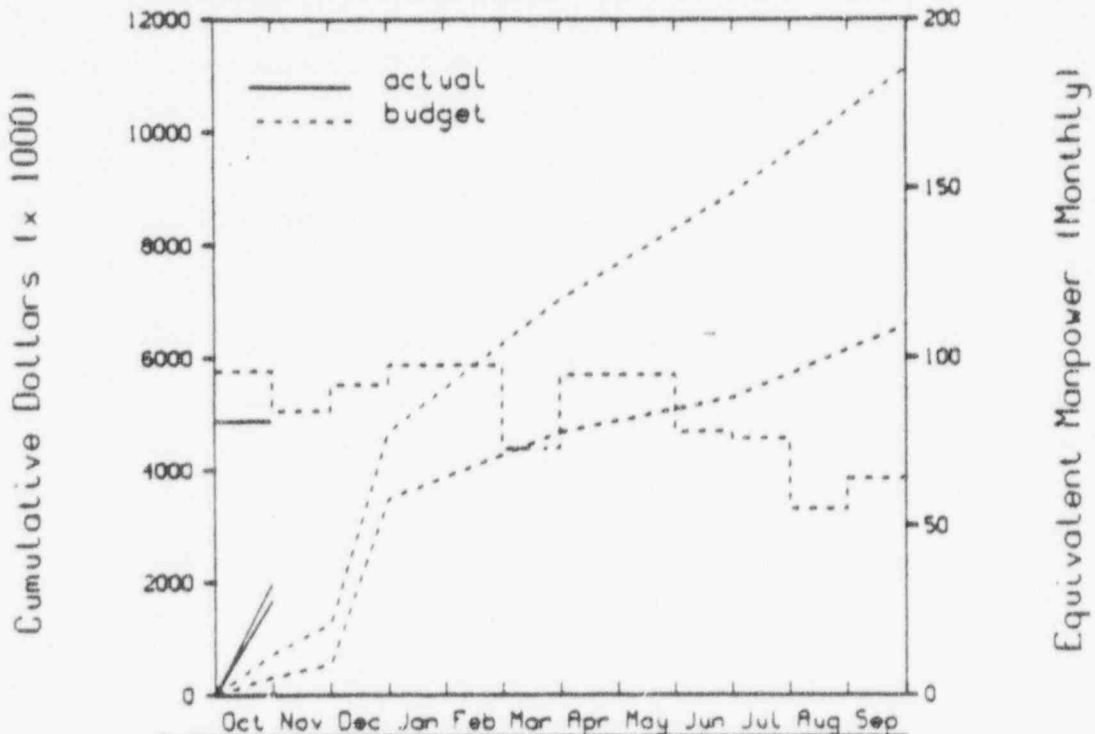
LOFT Program Cost/Budget Summary
NRC 189A A6043 EXPER INSTR-2nd Level 5n30



90008049

84080008

LOFT Program Cost/Budget Summary
NRC 189A A6107 PLANT SUPPORT-2nd Level 5n40



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	716	1289	4660	5460	6254	7034	7859	8204	8909	9643	10378	11129
Act	1982											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	311	541	3480	3876	4272	4669	4875	5081	5287	5714	6141	6568
Act	1678											

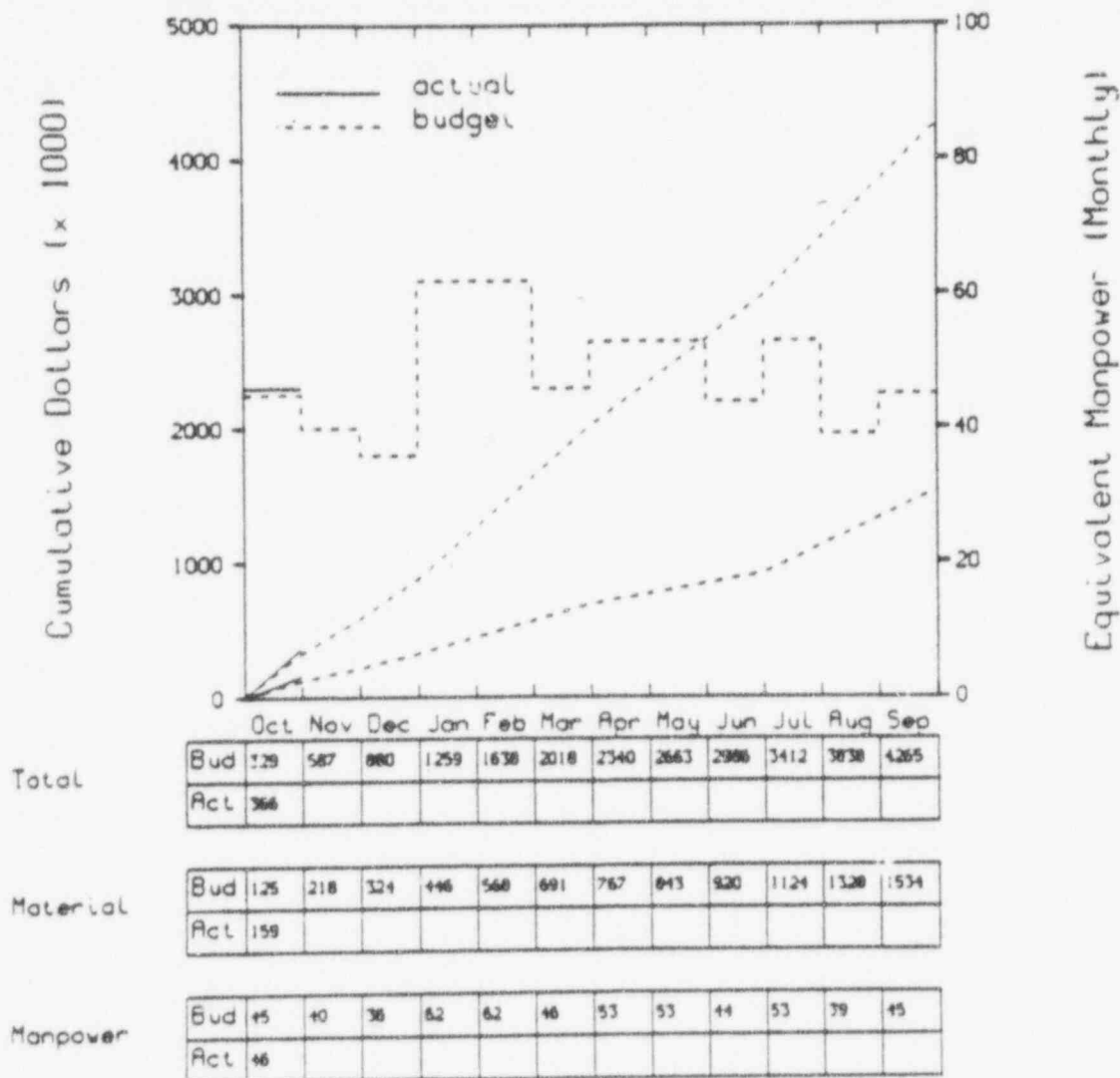
Manpower

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	96	84	92	90	90	73	95	95	78	76	95	64
Act	81											

90008050

PA000000
10080000

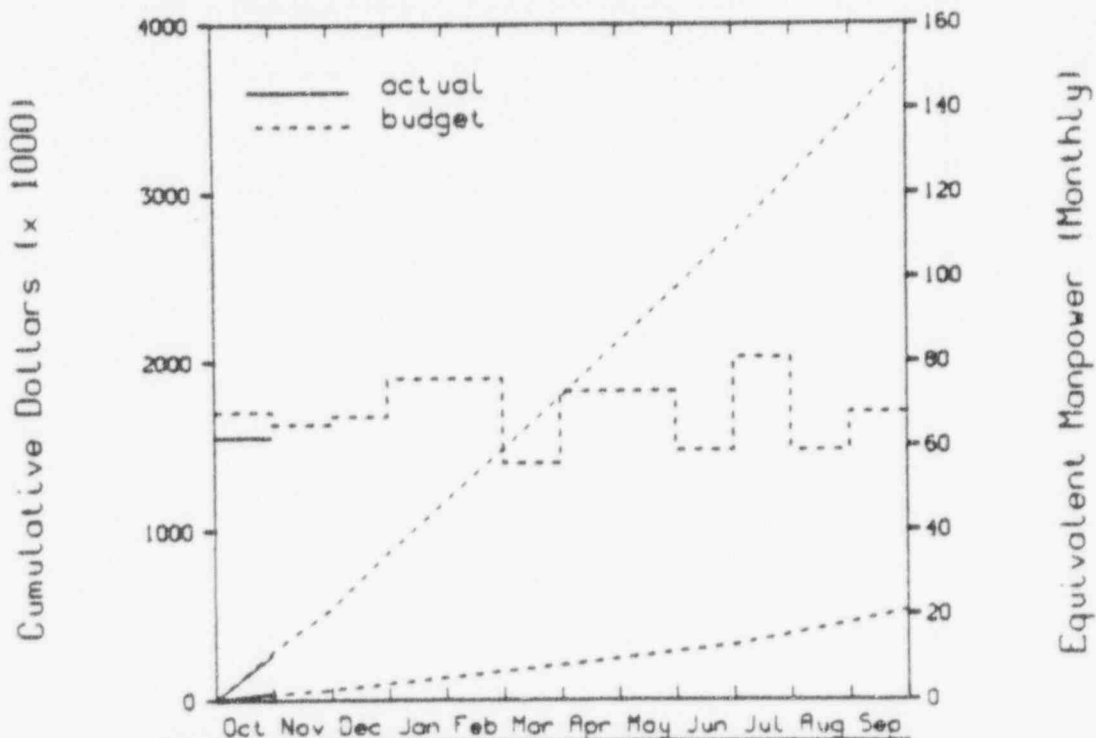
LOFT Program Cost/Budget Summary
 NRC 189A A6122 - CORE & SAFETY SUPPT-2nd Level 5n50



90008050

90008051

LOFT Program Cost/Budget Summary
NRC 189A A6110 COMMON SUPPORT-2nd Level 5n60



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	231	538	872	1177	1482	1788	2111	2434	2757	3100	3444	3788
Act	267											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	32	58	96	132	168	204	243	282	322	387	452	524
Act	39											

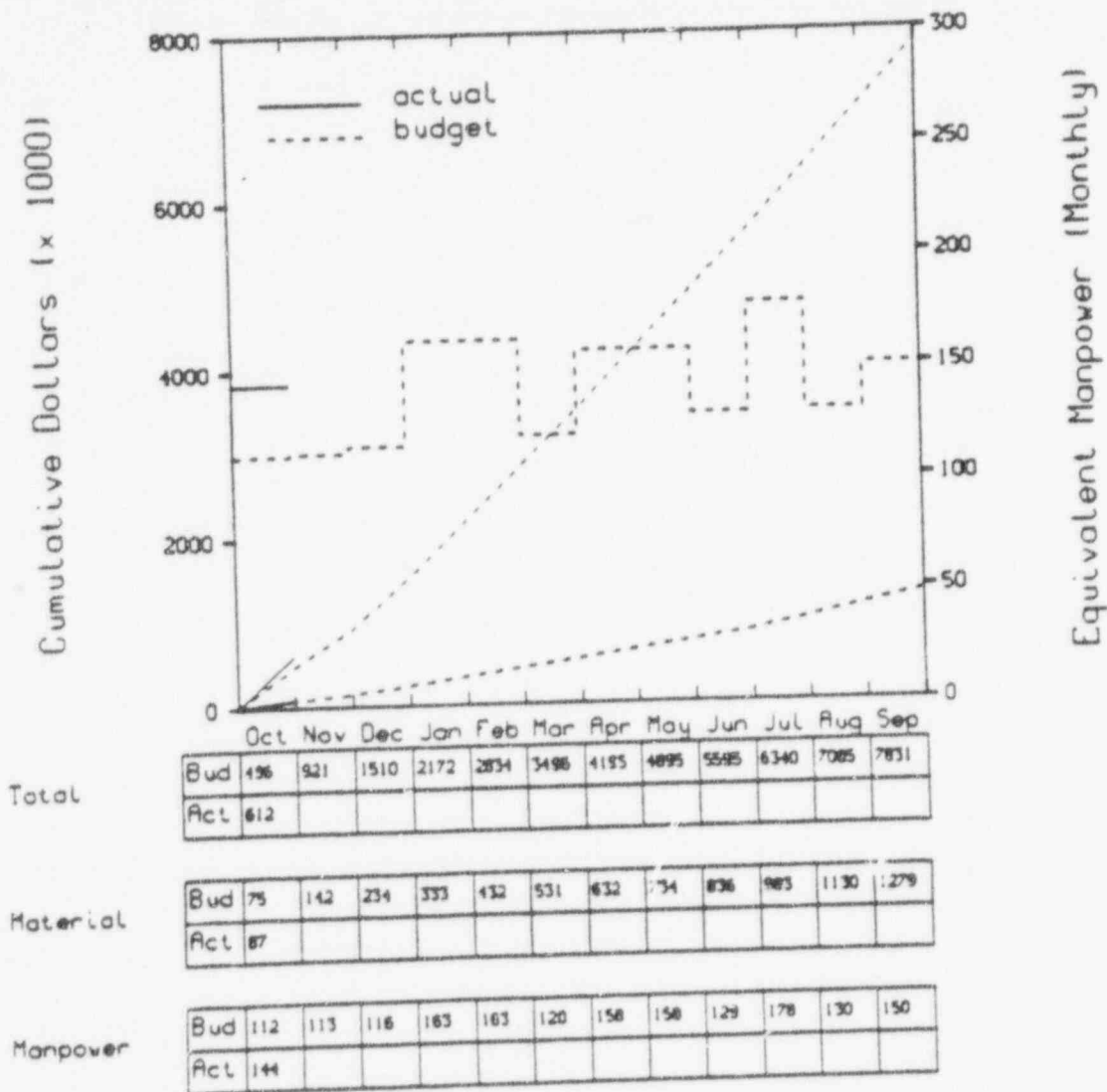
Manpower

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	68	65	67	76	76	56	73	73	59	81	59	68
Act	62											

00008052

90008052

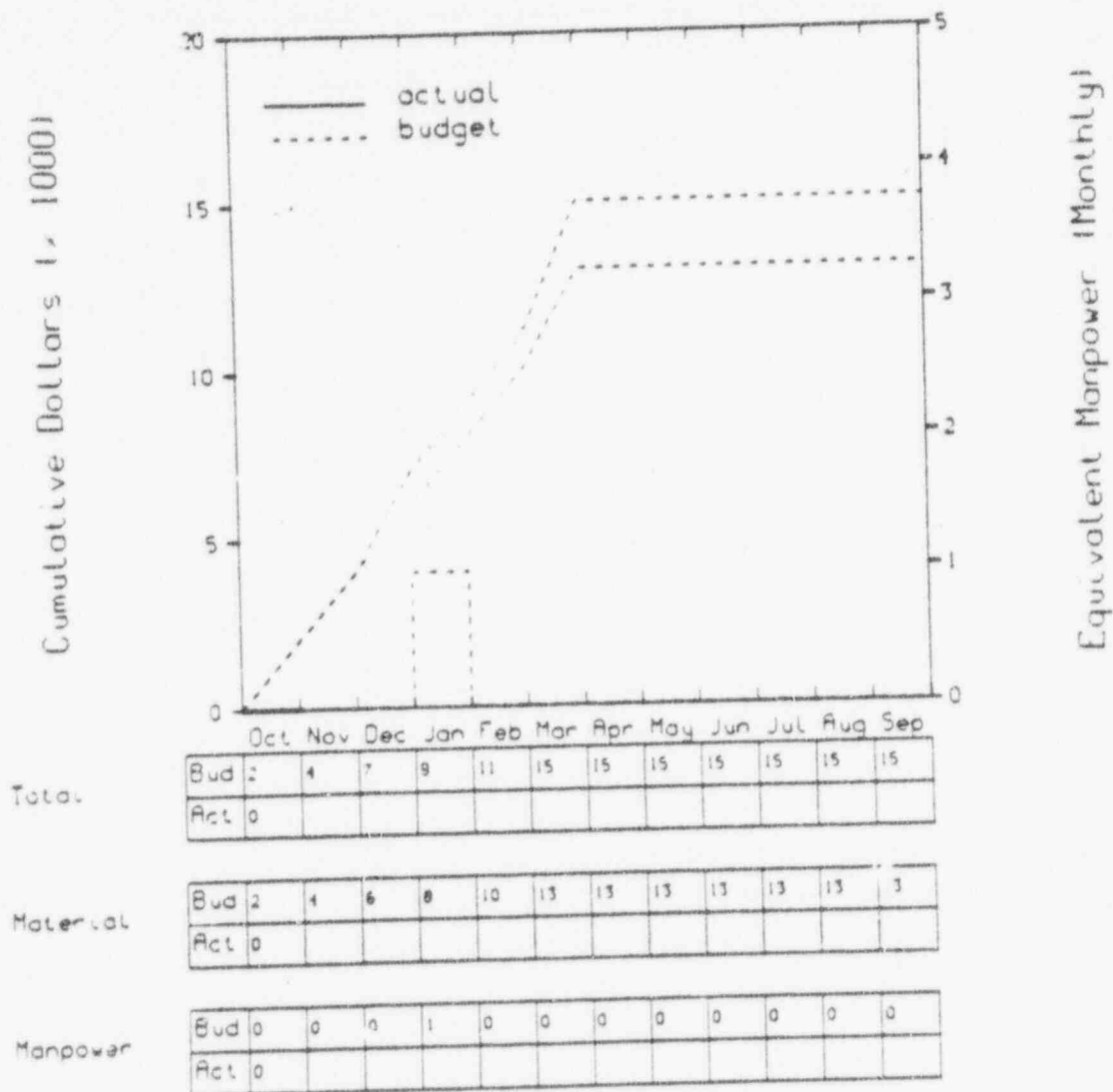
LOFT Program Cost/Budget Summary
NRC 189A A6054 FACILITY OPERATIONS-2nd Level 5n70



90008053

52080009

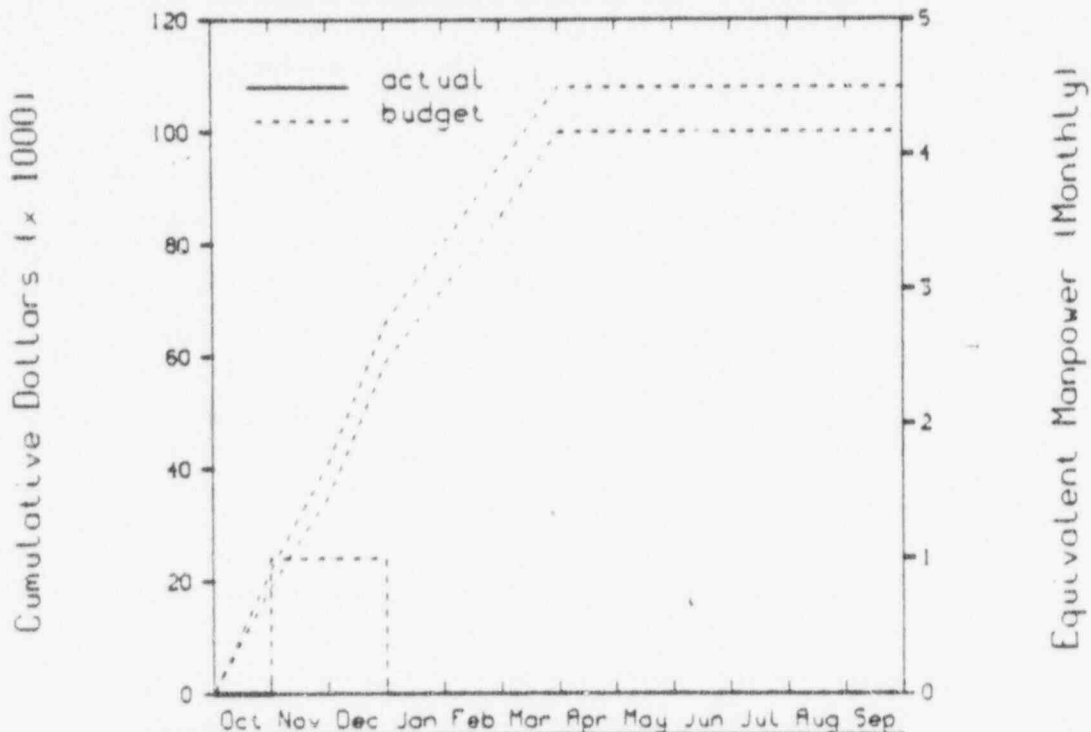
LOFT Program Cost/Budget Summary
A6273 - AUSTRIAN FUNDS-2nd Level 5fac



22080000P

90008054

LOFT Program Cost/Budget Summary
A6271 - NETHERLAND FUNDS-2nd Level 5fnc



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	22	41	66	90	94	108	108	108	108	108	108	108
Act	0											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	19	35	59	72	85	100	100	100	100	100	100	100
Act	0											

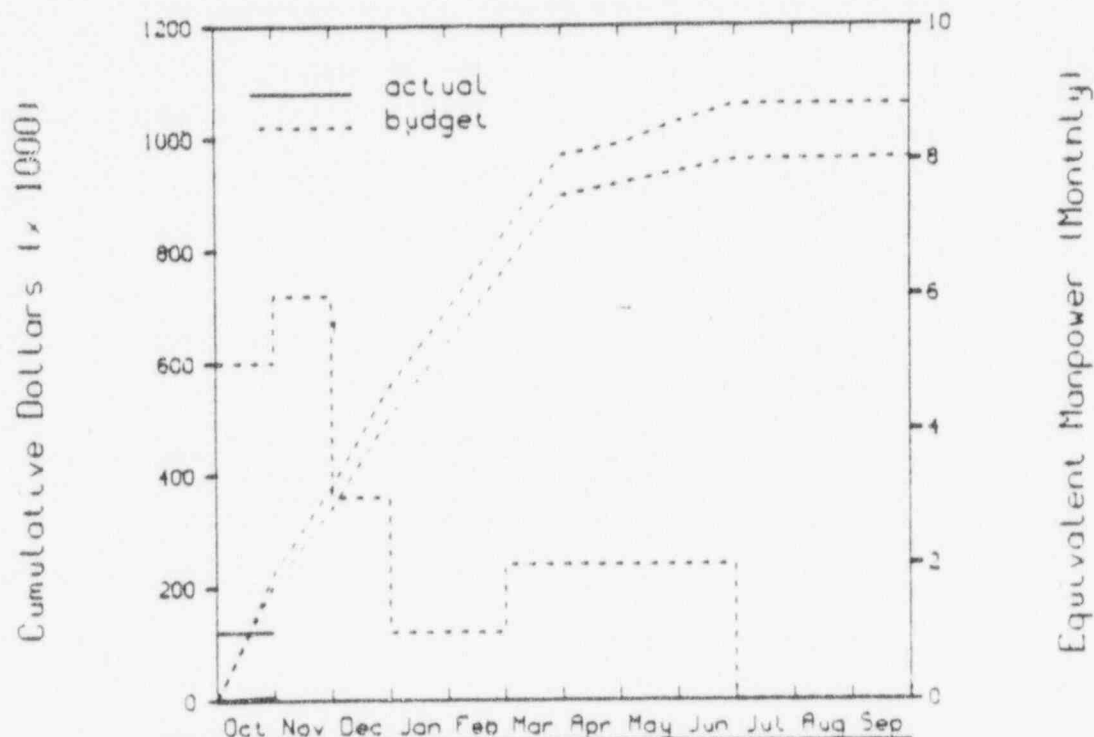
Manpower

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	0	1	1	0	0	0	0	0	0	0	0	0
Act	0											

42080608

90008055

LOFT Program Cost/Budget Summary
A6104 - GERMAN FUNDS-2nd Level 517c



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	227	381	558	694	831	970	989	1028	1059	1059	1059	1059
Act	6											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	208	342	504	635	756	898	919	940	961	962	962	964
Act	3											

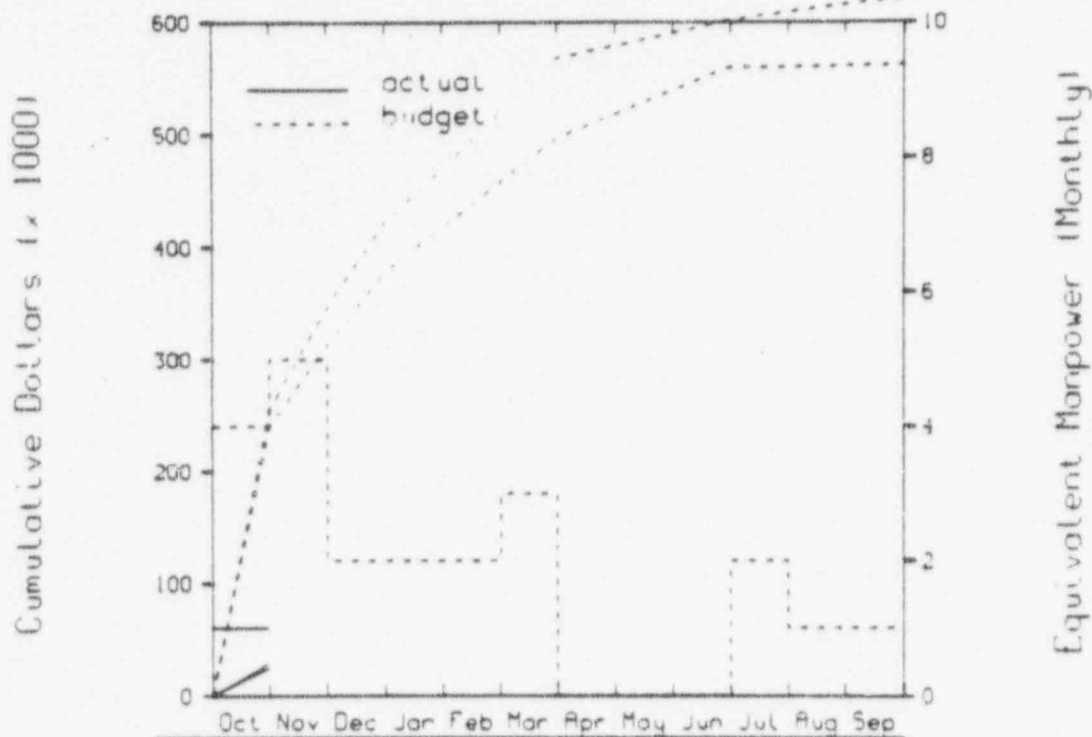
Manpower

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	5	6	3	1	1	2	2	2	2	0	0	0
Act	1											

2208000P
1208000P

90008056

LOFT Program Cost/Budget Summary
A6111 - JAPANESE FUNDS-2nd Level 5f8c



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	256	347	422	470	518	568	579	590	602	609	616	622
Act	29											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	240	313	378	418	458	497	518	539	560	580	561	562
Act	25											

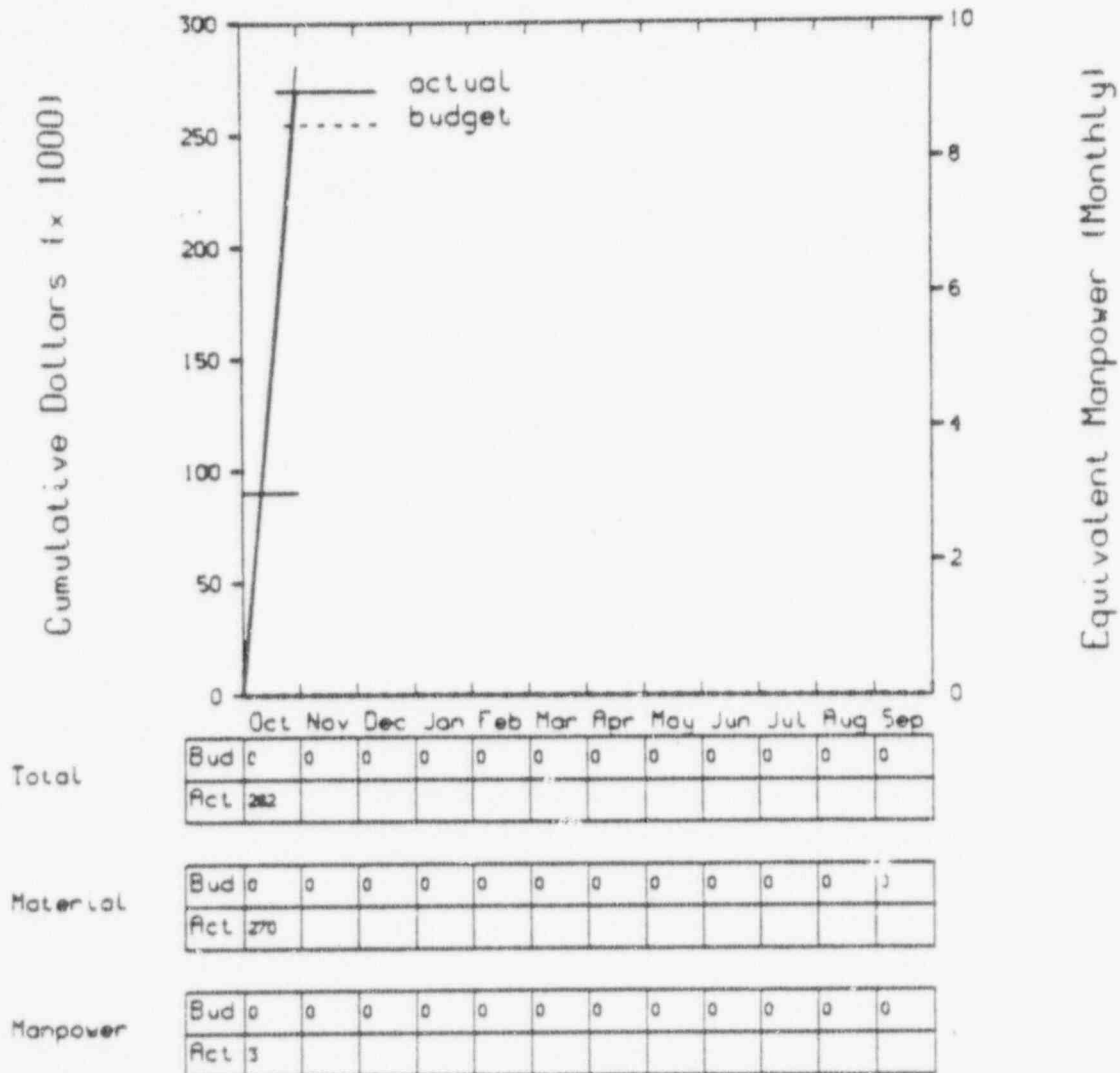
Manpower

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	4	5	2	2	2	3	0	0	0	2	1	1
Act	1											

82080009

90008057

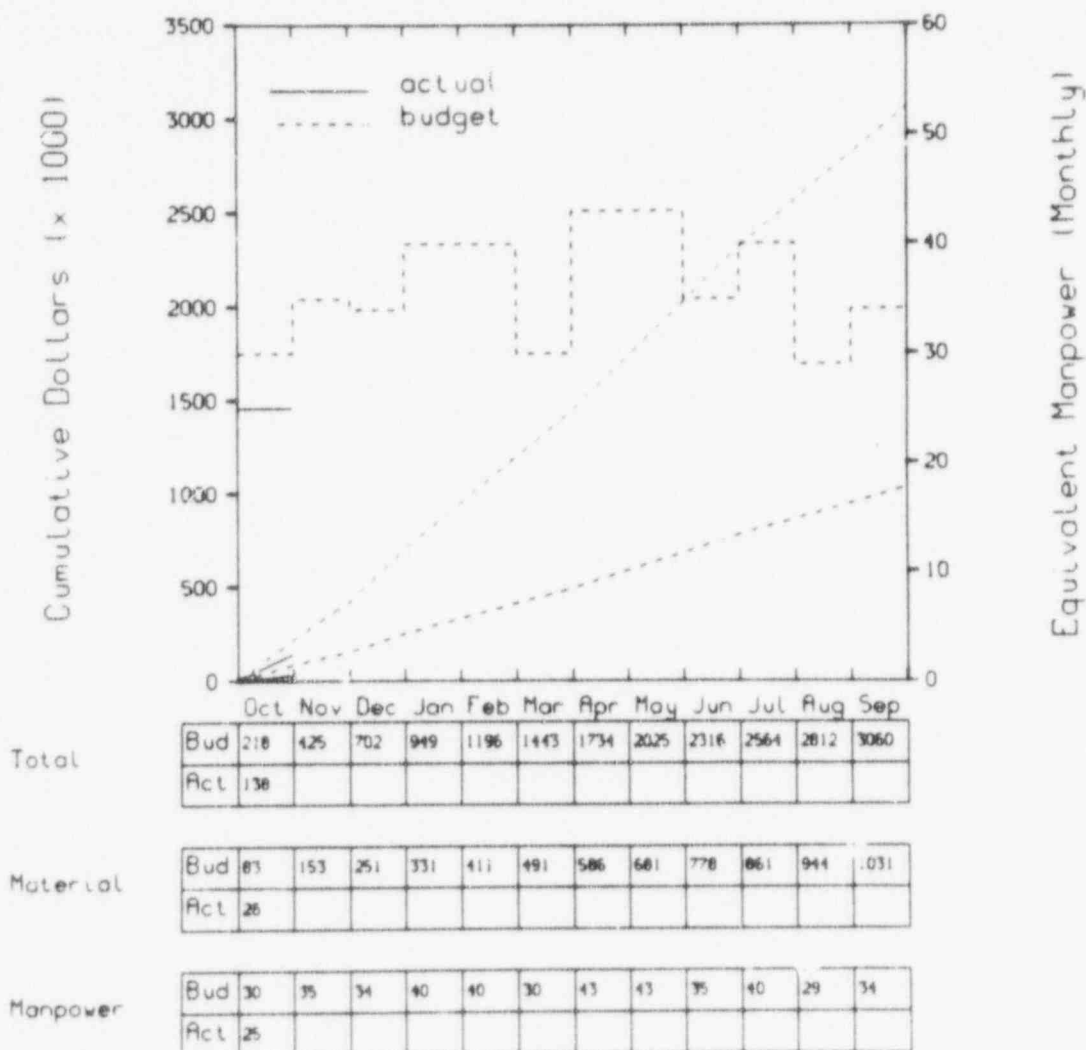
LOFT Program Cost/Budget Summary
 A61045 - SHARED FOREIGN FUNDS-2nd Level 5f9c



90008058
 90008058

90008058

LOFT Program Cost/Budget Summary
 Exper Program - Program Plan & Eval-3rd Level 5n1b

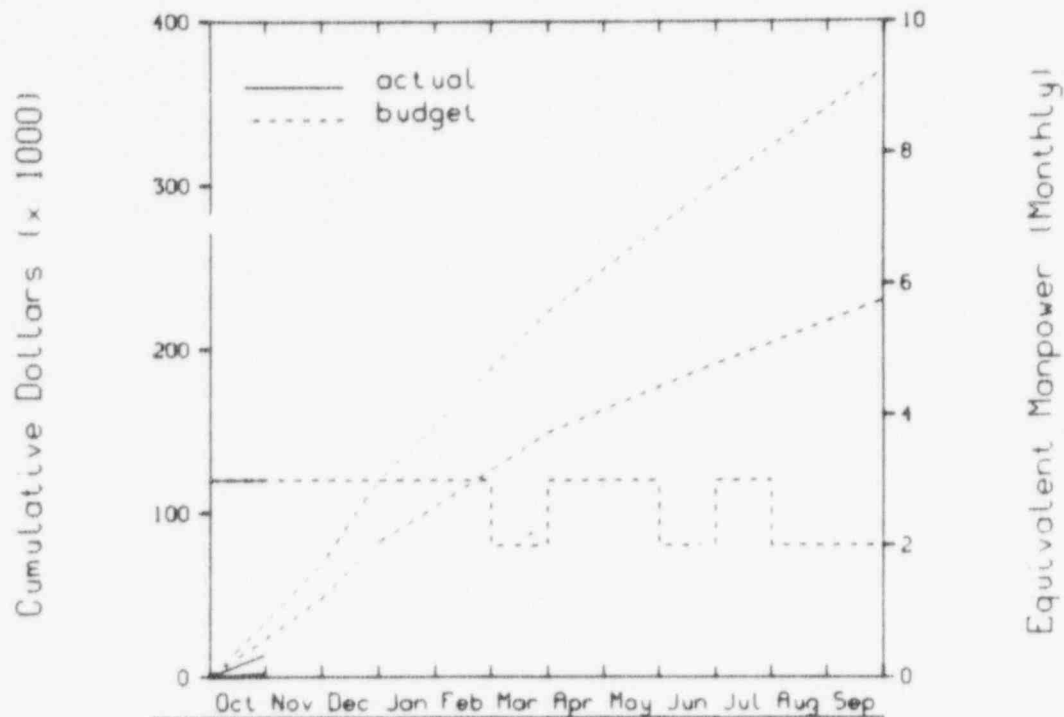


Computer changeover and overload caused a delay in expenditures, which will be made up in next few months.

90008059

82080009

LOFT Program Cost/Budget Summary Electric Heater Rod Eval-3rd Level Snic



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	13	69	120	154	180	223	249	275	301	324	347	370
Act	13											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	23	48	82	104	126	149	163	177	191	204	217	230
Act	2											

Manpower

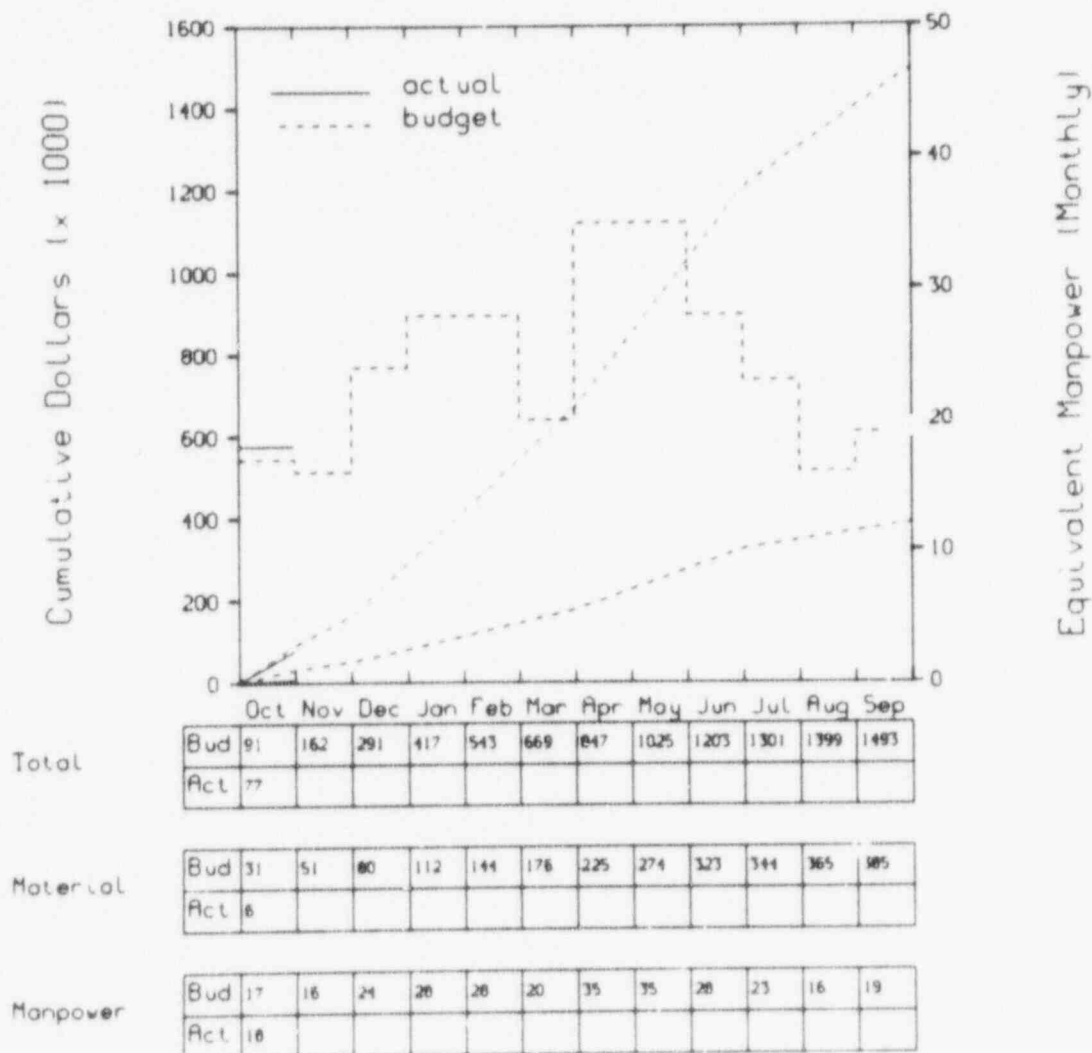
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	3	3	3	3	3	2	3	3	2	3	2	2
Act	3											

The underrun in material costs is caused by nonpayment of work accomplished by suppliers of fuel bundles, control rod components and upper support structures and a one month delay in awarding the contract for the Reload Core II fuel bundles. Progress payments to partially compensate for the discrepancies will start in November and recovery is expected by year-end.

13080000

90008060

LOFT Program Cost/Budget Summary
 Exper Program - LOFT Data Systems-3rd Level 5n1e

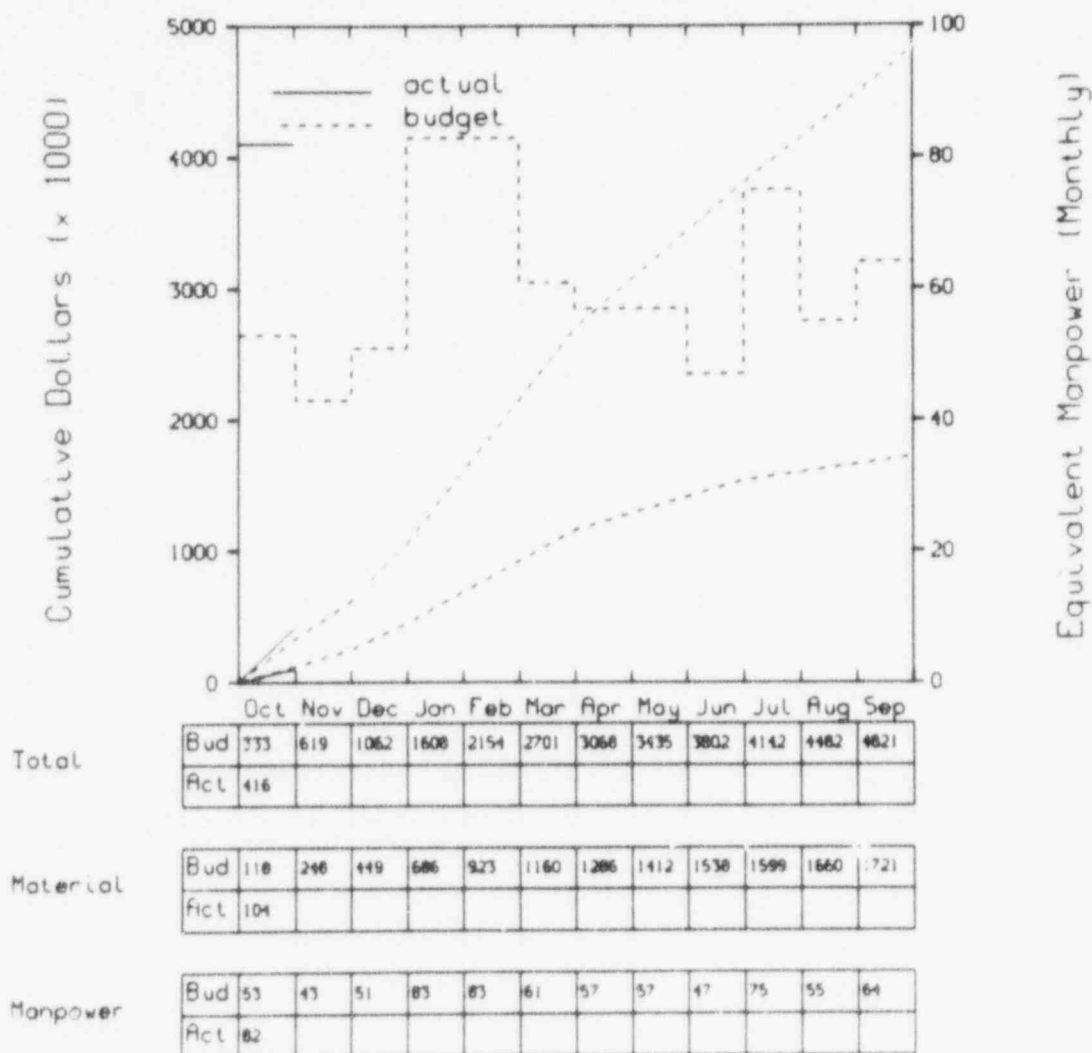


Computer changeover and overload caused delays in expenditures, which will be made up in next few months.

90008061

08080009

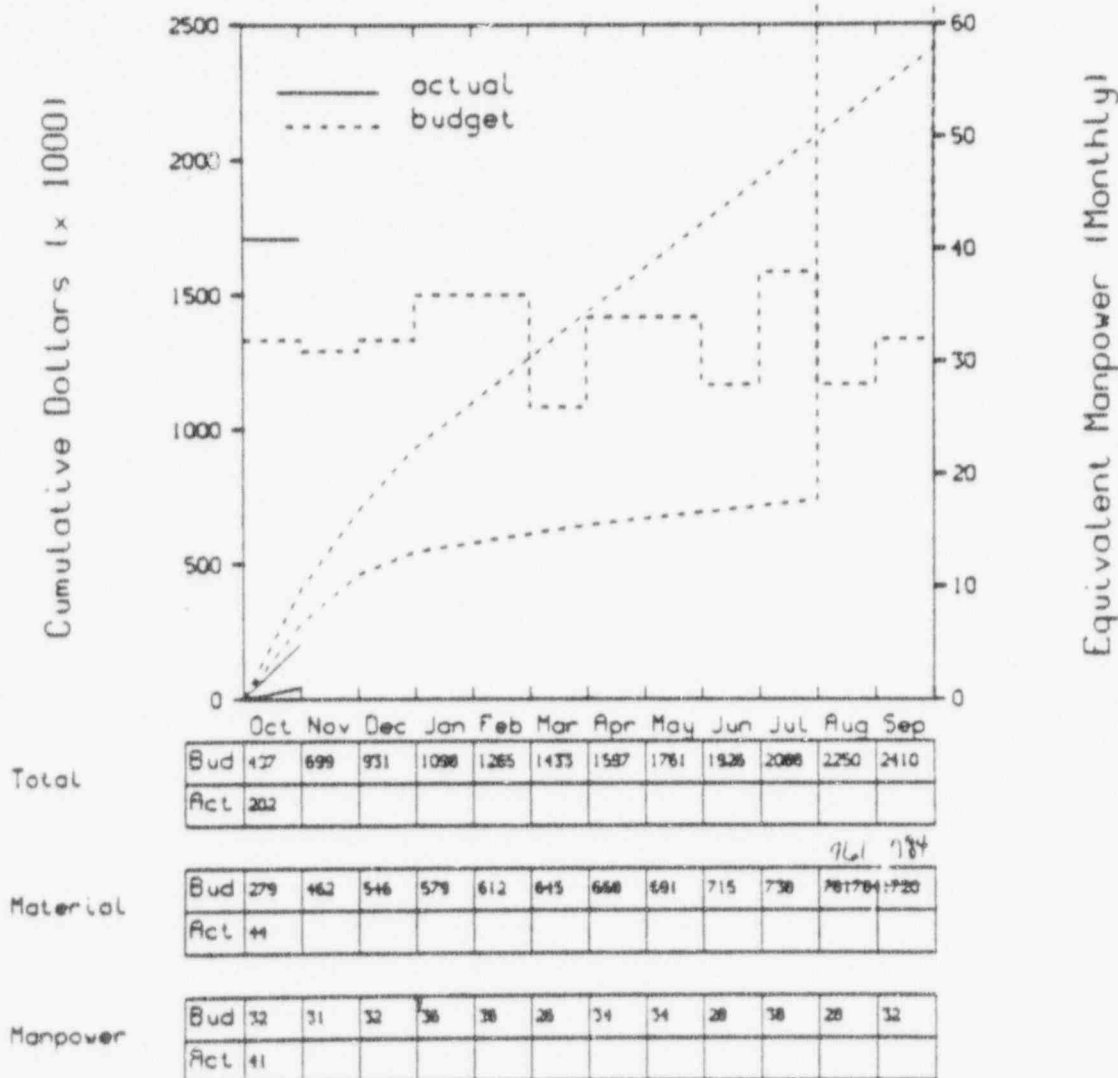
LOFT Program Cost/Budget Summary
 Exper Instr - Exper Meas Br 6110-3rd Level 5n3a



Funds were removed from operating budget into capital equipment. A CCB is now being written to move funds from management reserve back into the operating budget, thus resolving cost variance difference. The CCB is being prepared and is not reflected above.

90008062

LOFT Program Cost/Budget Summary
 Exper Instr - Test Support Br 6140-3rd Level 5n3c



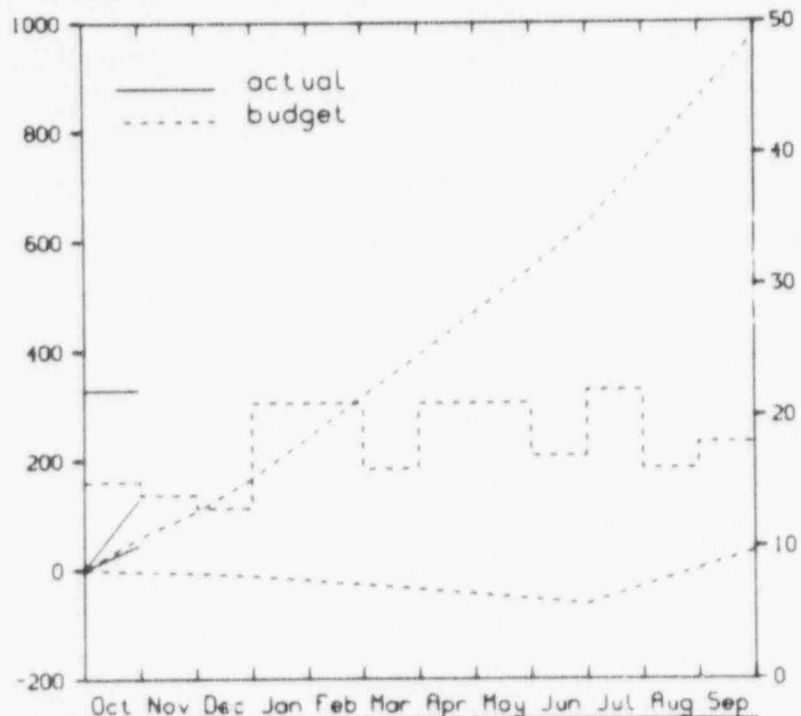
The manpower overrun reflects additional crafts usage to accelerate facility modification work in the blowdown facility and data system. Materials underrun reflects delayed payments for the Wyle test program and the two-phase loop boiler installation activities. Corrective action will adjust budgets to reflect actual spending rate.

50080000

90008063

LOFT Program Cost/Budget Summary Advance Instrumentation-3rd Level 5n3g

Cumulative Dollars ($\times 1000$)



Equivalent Manpower (Monthly)

Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	53	106	166	241	316	391	470	549	629	744	859	974
Act	130											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	-4	-7	-12	-20	-26	-36	-45	-54	-64	-32	0	32
Act	45											

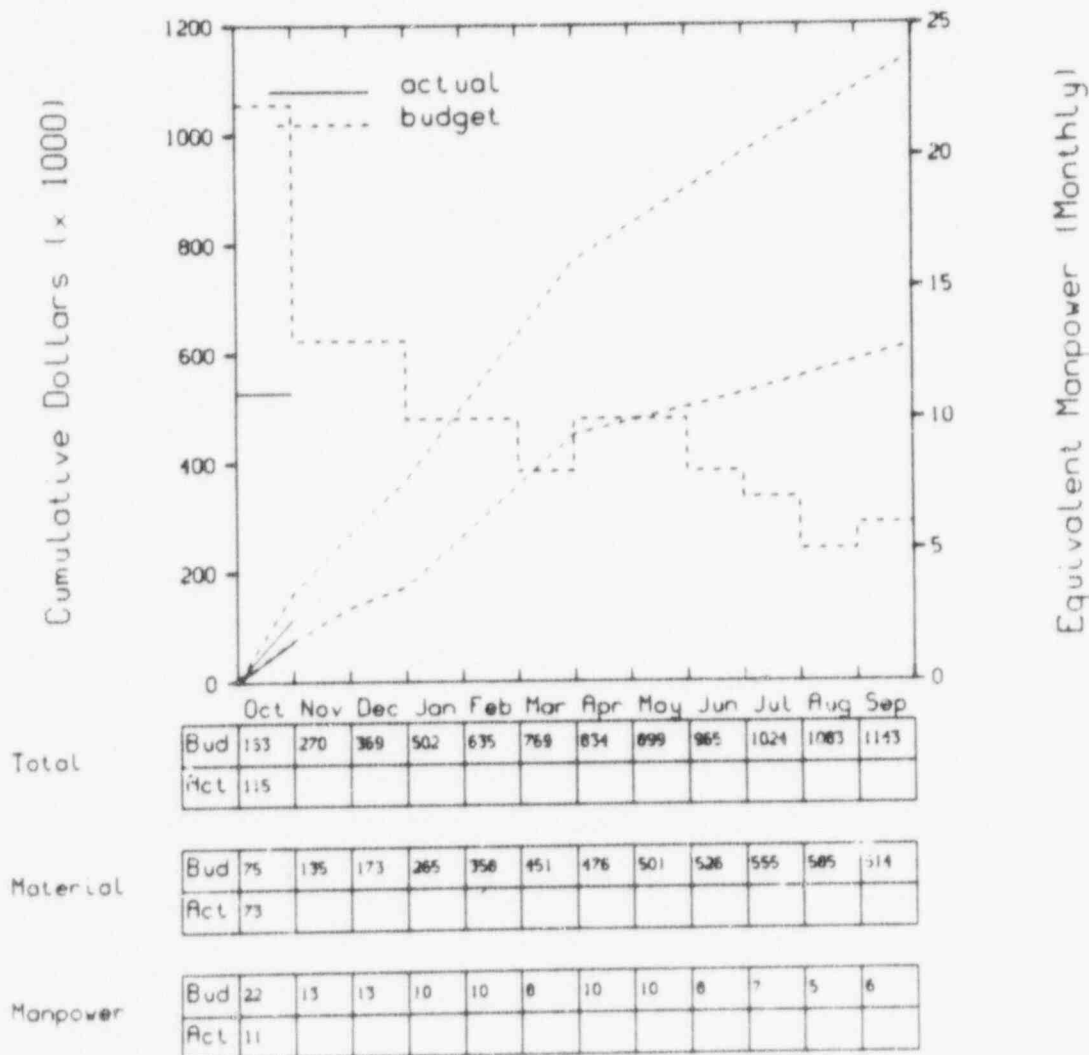
Manpower

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	15	14	13	21	21	16	21	21	17	22	16	16
Act	22											

The PMS network does not reflect work actually being performed -- the problem will be corrected.

90008064

LOFT Program Cost/Budget Summary
PLANT SUPPORT - PLANT SYSTEMS NO 3-3rd Level 5n4h

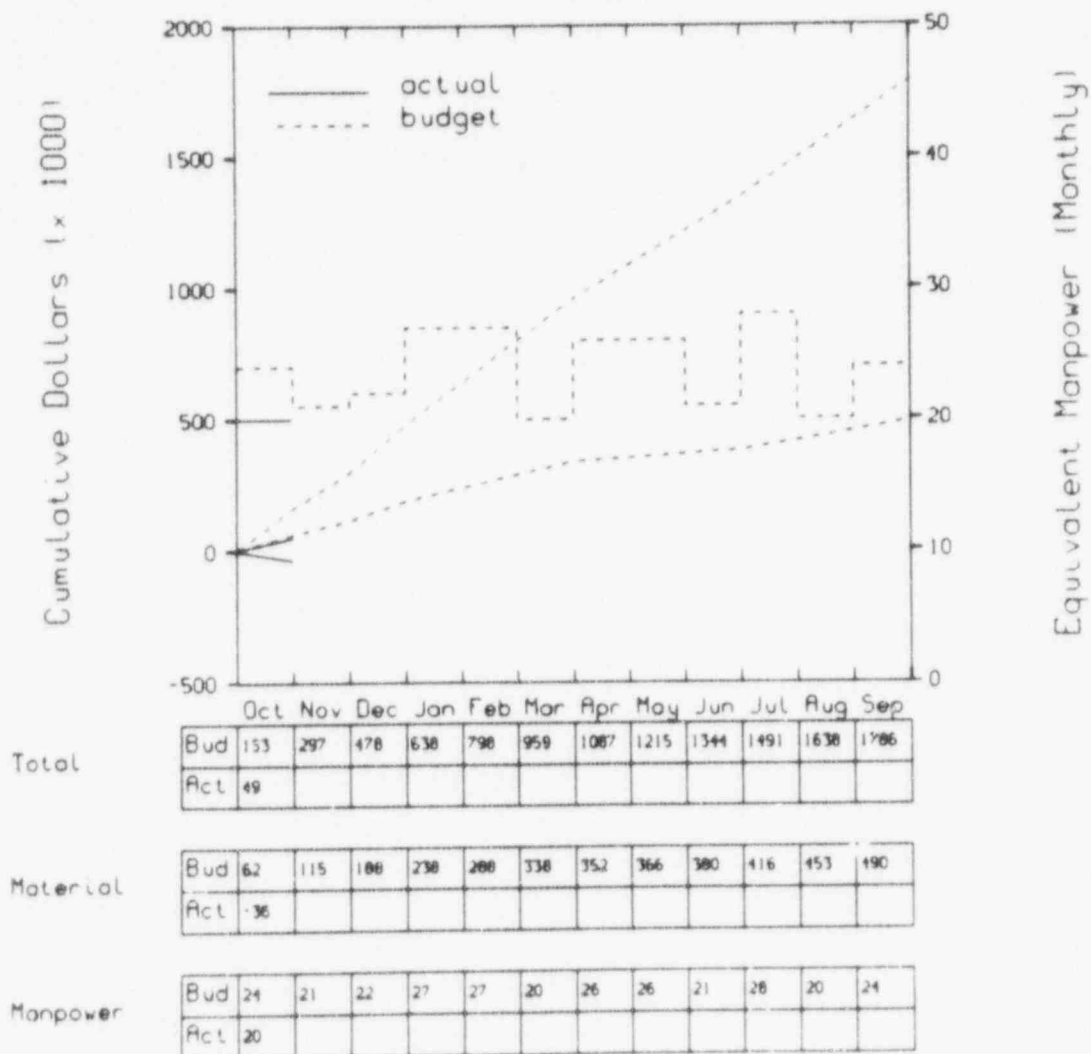


Manpower was loaded against the fiscal year in lieu of test support dates.
New logic has been submitted to correct this.

48080000

90008065

LOFT Program Cost/Budget Summary
PLANT SUPPORT - PLANT SYSTEMS NO 1-3rd Level 5n4i

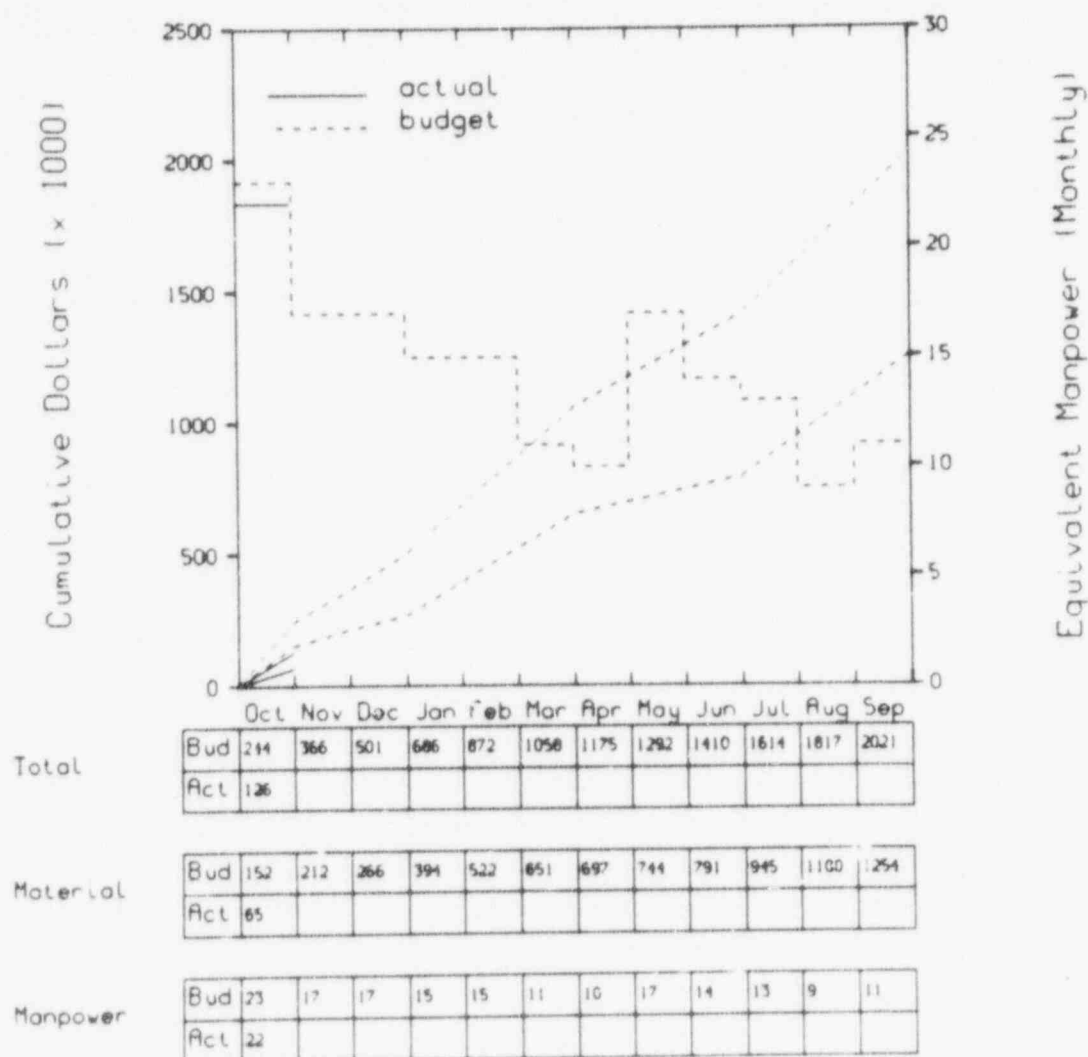


Material credit was not balanced with appropriate charges in accordance with work performance time period.

7808000P

90008066

LOFT Program Cost/Budget Summary
PLANT SUPPORT - PLANT SYSTEMS NO 2-3rd Level 5n4j

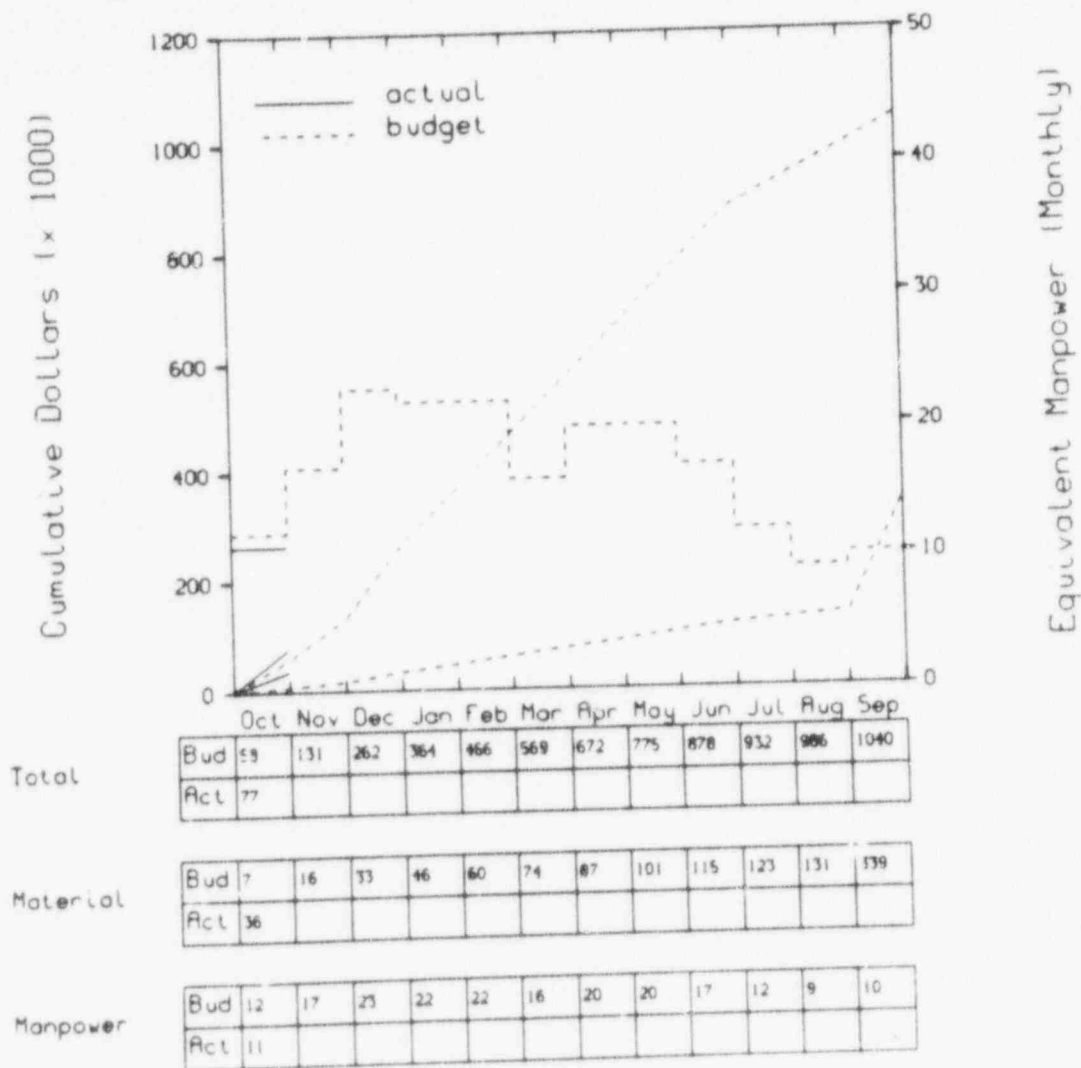


Work was deferred to later milestone because of design problems and work by construction not accrued against appropriate time period.

90008067

90008067

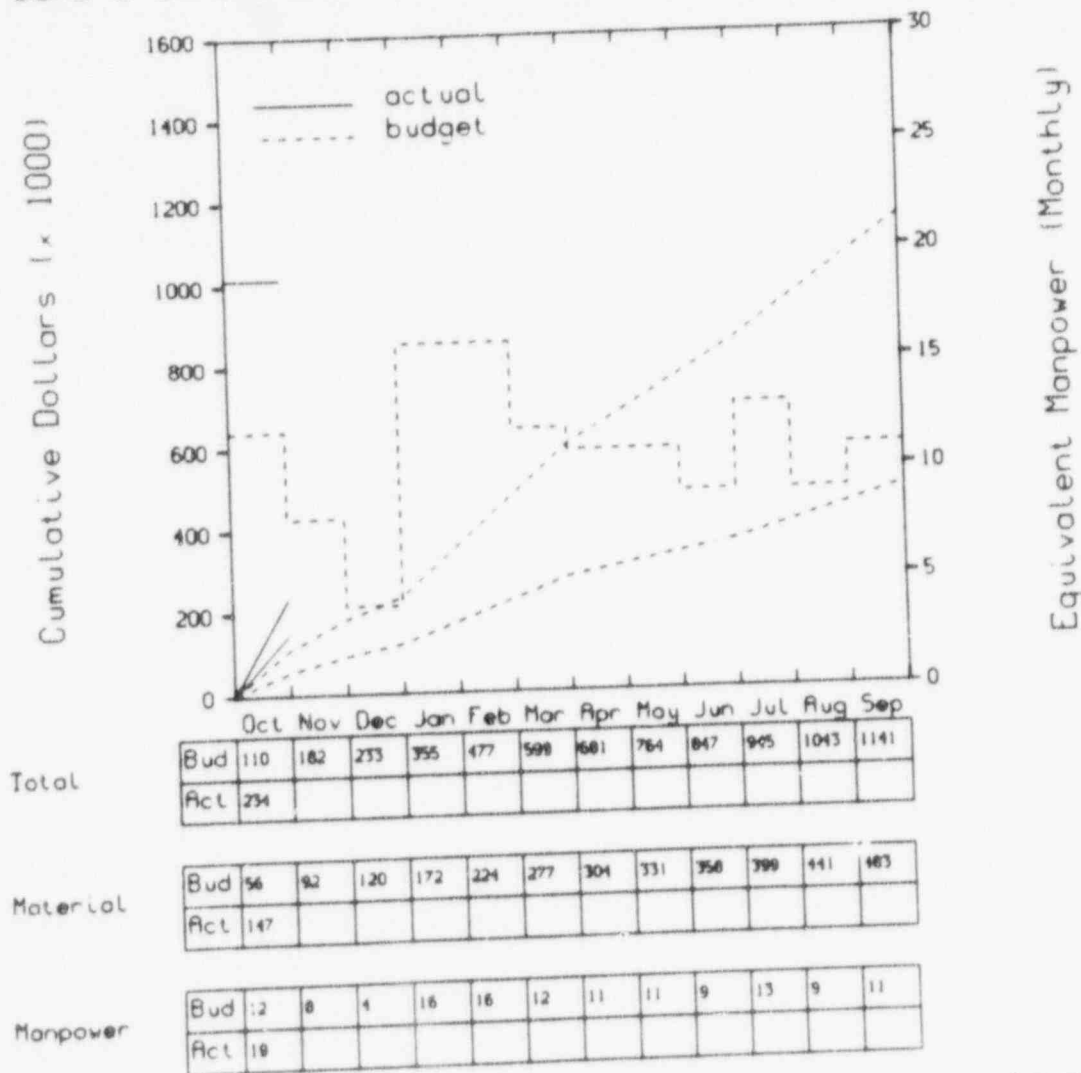
LOFT Program Cost/Budget Summary
PLANT SUPPORT - P&C I&E SUPPORT-3rd Level 5n4p



The total and material cost overrun is presumed due to FY-79 material costs that were not accrued and should have been. This will be verified and appropriate corrective action taken.

90008068

LOFT Program Cost/Budget Summary
CORE & SAFETY SUPT - PROTECT & CONTROL-3rd Level 5n5k

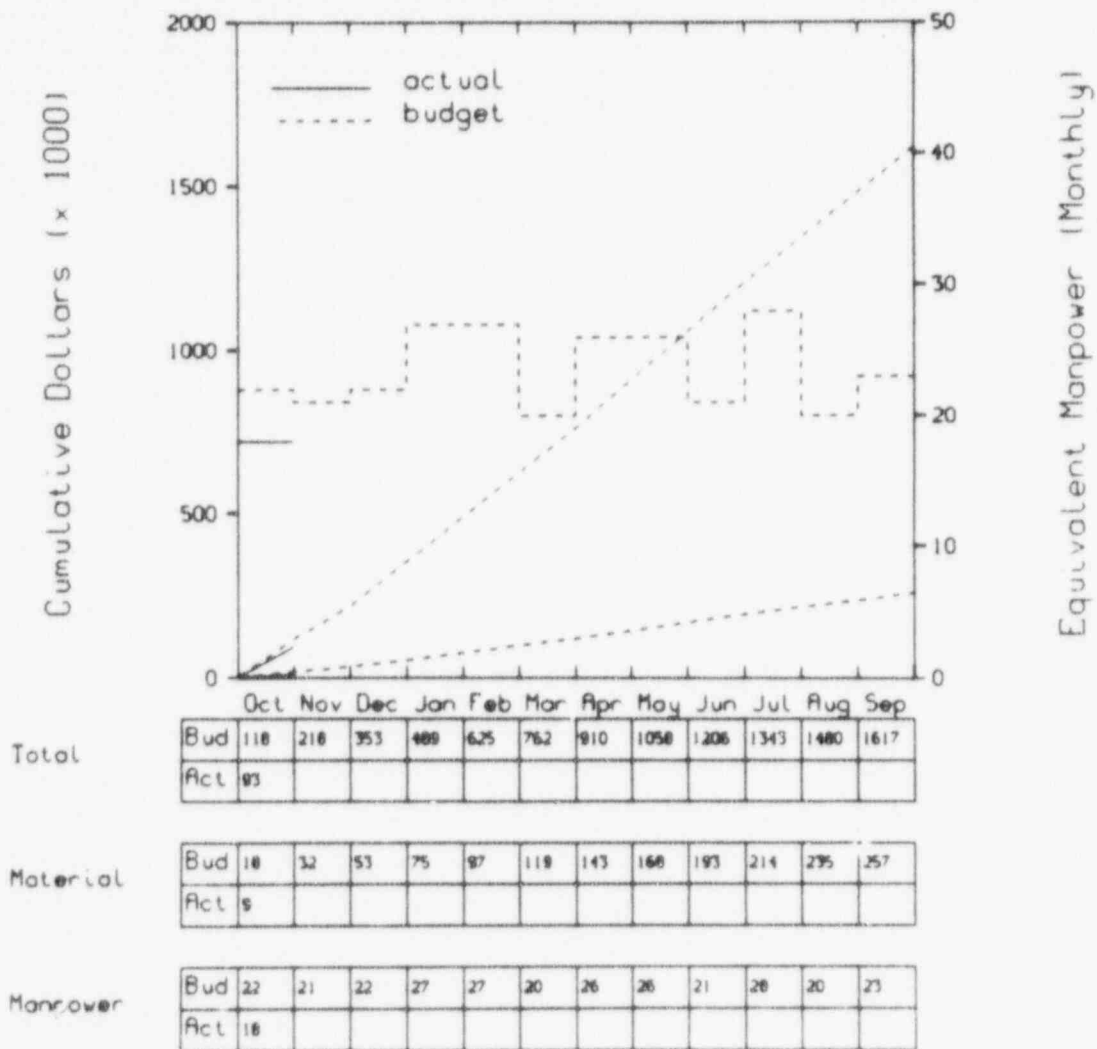


Variance against this number is due to computer charge overrun because increased charges associated with Rockwell computer and an under estimate of running time required for small break analysis, along with a potential over recovery that will be corrected.

88080000

90008069

LOFT Program Cost/Budget Summary
CORE & SAFETY SUPT - REACTOR SYSTEMS-3rd Level 5n5l

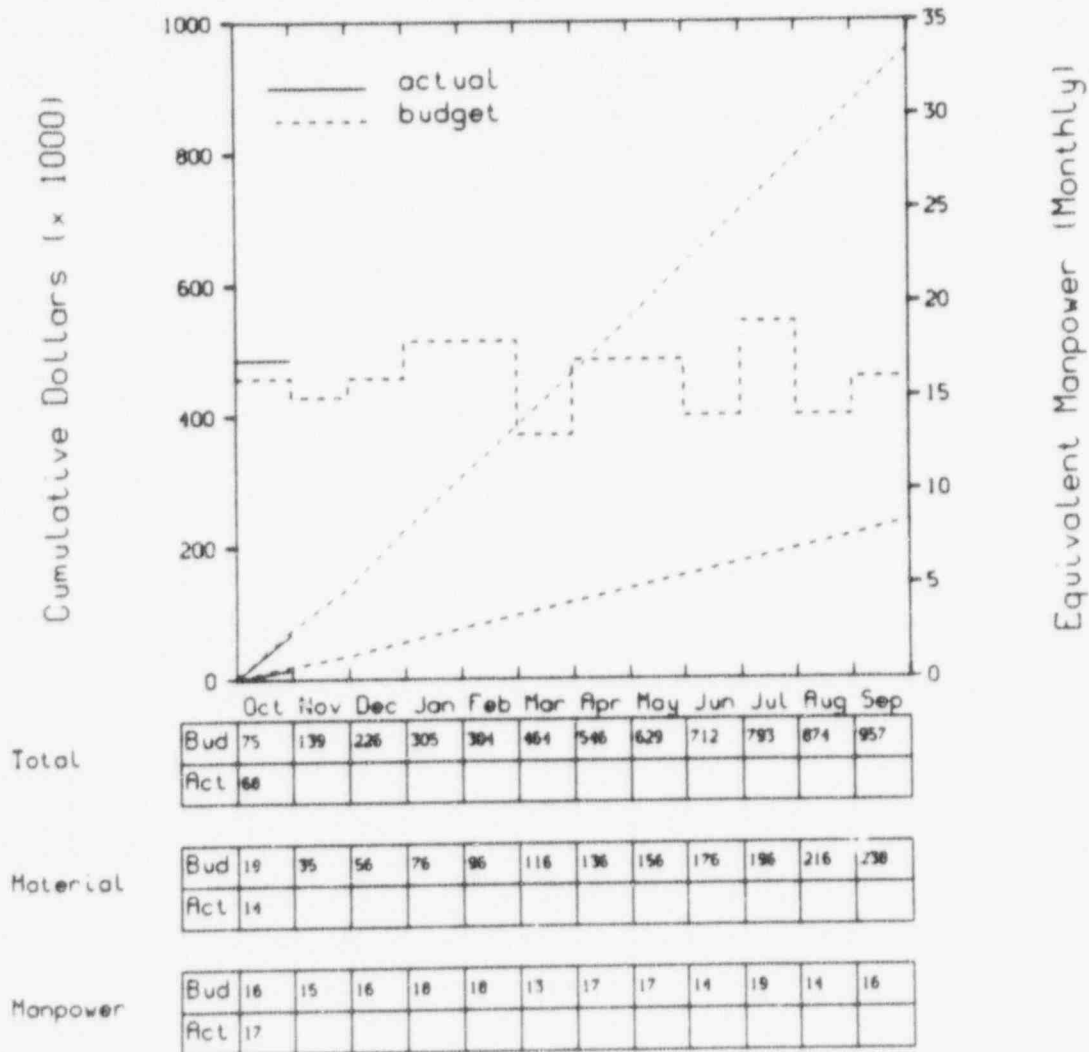


A portion of the amount showing as budget is actually FY-81. With respect to the FY-80 budget, no significant variance.

90008070

11000000

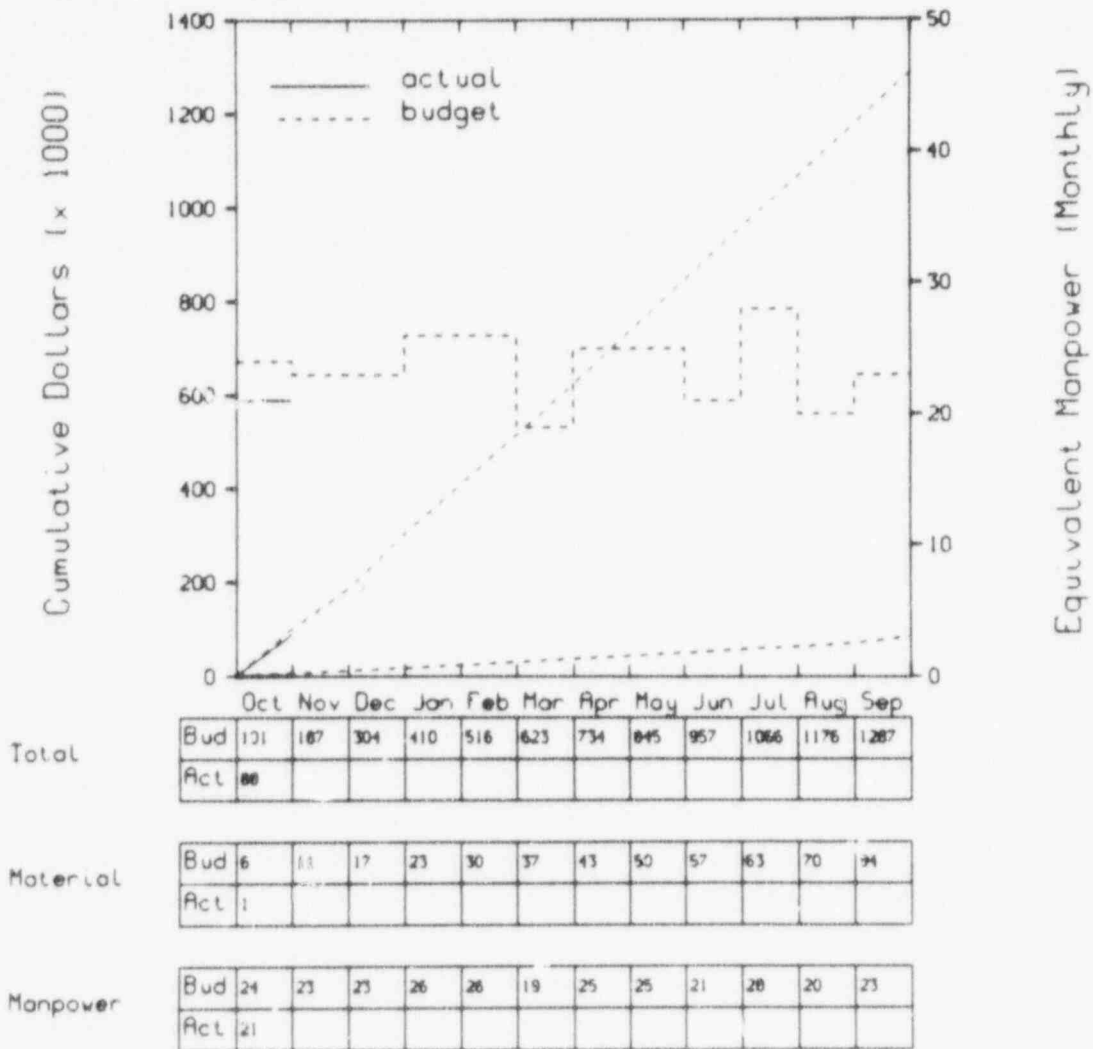
LOFT Program Cost/Budget Summary
COMMON SUPPORT - CDCS/TECH SOPT-3rd Level 5n6m



No significant variance.

90008071

LOFT Program Cost/Budget Summary
COMMON SUPPORT - QUALITY-3rd Level 5n6x

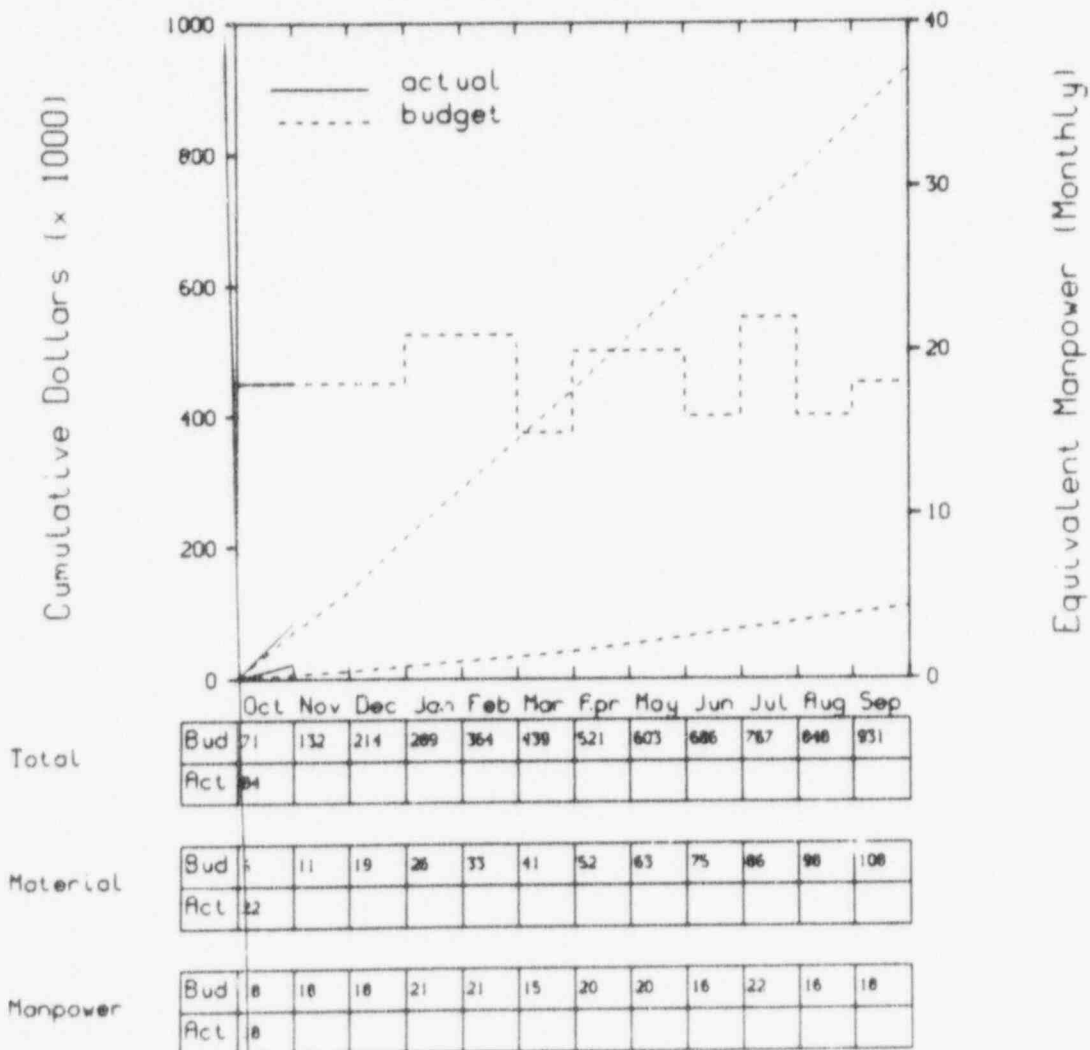


No significant variance.

11080002
2008013
21080002

90008072

LOFT Program Cost/Budget Summary
COMMON SUPPORT - PLANS - BUDGETS-3rd Level 5n6y

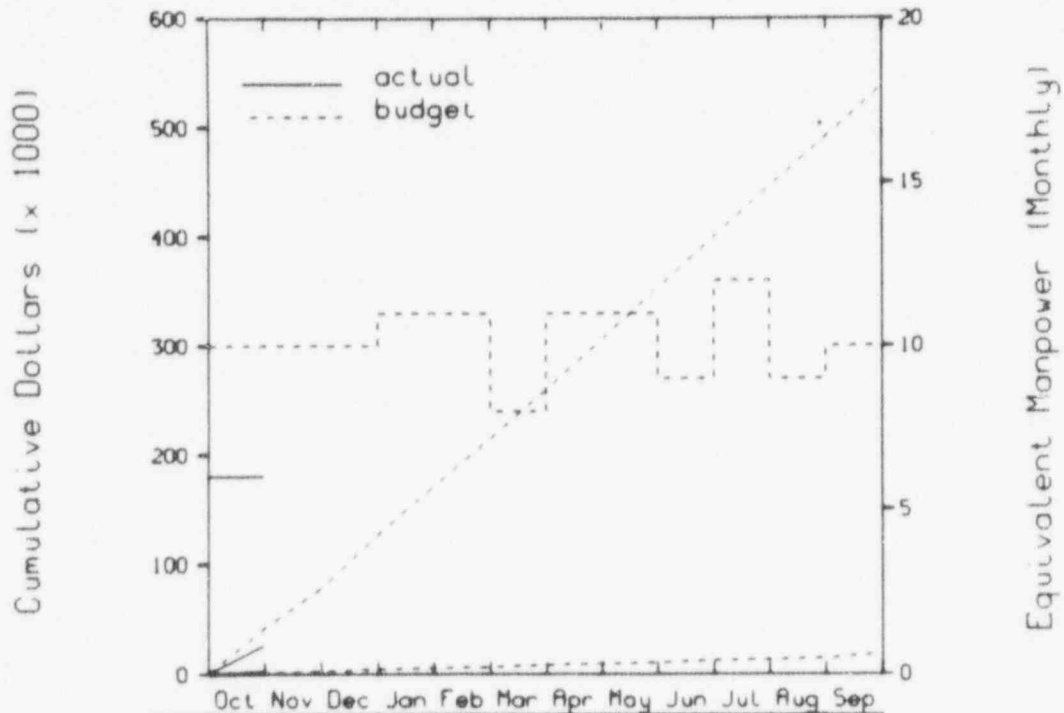


Nonlabor items (\$15,000) carried over from FY-79 were accrued to this account pending identification of proper account. Corrective action will be taken in December business.

90008073

90008073

LOFT Program Cost/Budget Summary COMMON SUPPORT-SAFETY-3rd Level 5n62

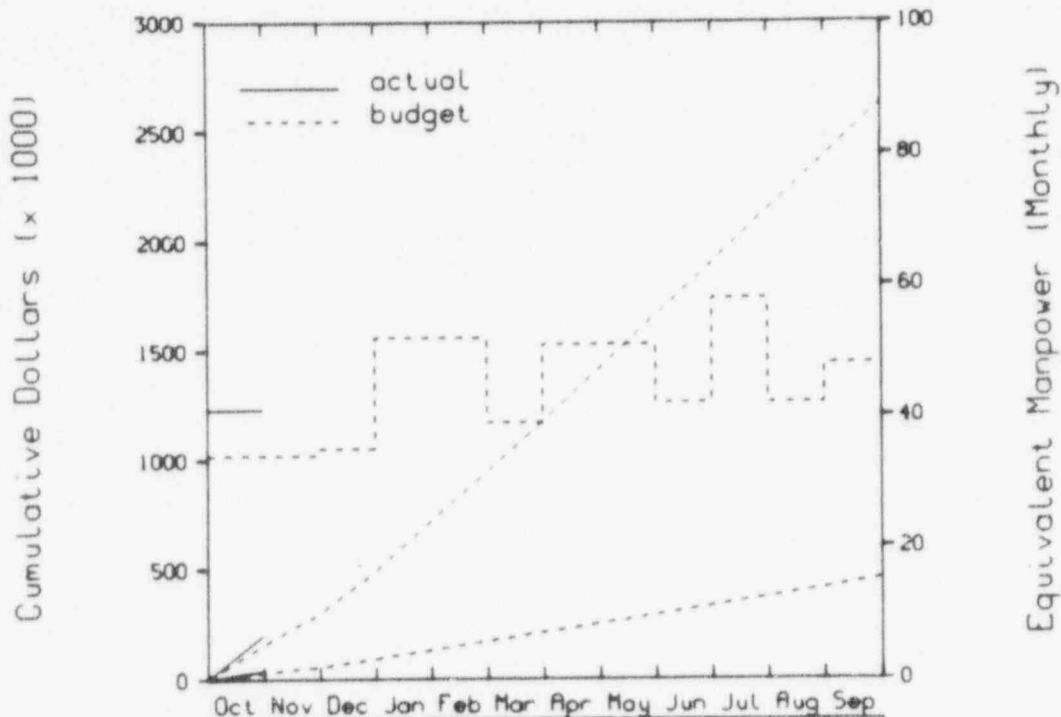


		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total	Bud	42	78	127	171	215	260	306	353	400	446	492	538
	Act	26											
Material	Bud	1	2	4	5	6	8	9	10	12	13	14	16
	Act	2											
Manpower	Bud	10	10	10	11	11	8	11	11	9	12	9	10
	Act	6											

Understaffing plus reassignment of personnel to hot shop upgrade due to their schedule slippage caused the underrun.

90008074

LOFT Program Cost/Budget Summary LOFT OPERS BRANCH-3rd Level SnS



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	158	299	490	718	946	1174	1416	1658	1900	2142	2384	2626
Act	199											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	29	55	91	130	169	208	249	289	330	370	410	455
Act	38											

Manpower

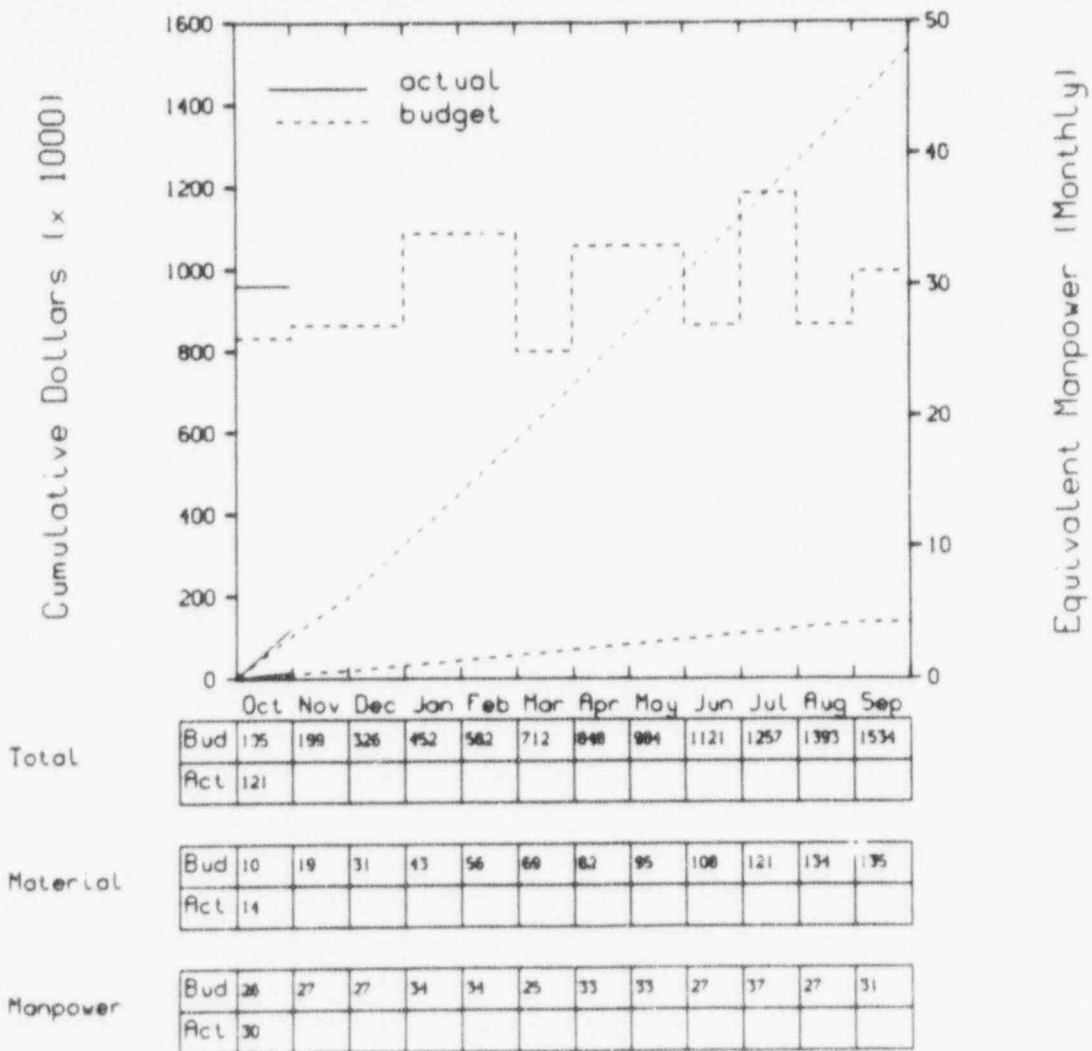
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	34	34	35	52	52	39	51	51	42	58	42	48
Act	41											

The manpower overrun was due to unexpected overtime usage resulting from preparation L3-1.

45080000

90008075

LOFT Program Cost/Budget Summary LOFT TEST & DATA-3rd Level 5nT



The manpower overrun due to unexpected overtime usage resulting from preparations for L3-1.

25080000

90008076

25080000

LOFT Program Cost/Budget Summary
LOFT FACILITY SUPPORT-3rd Level 5n7u

Cumulative Dollars (x 1000)

Equivalent Manpower (Monthly)

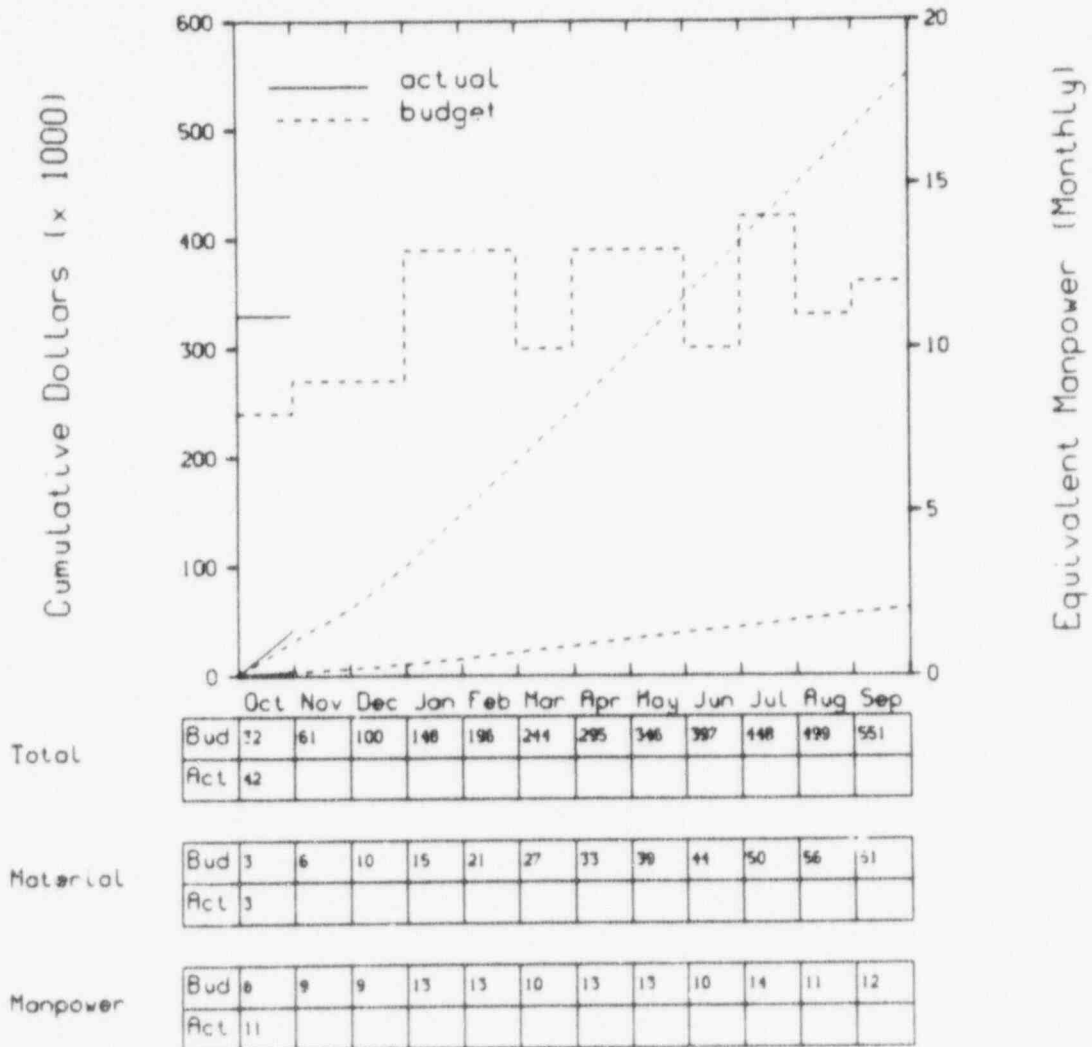
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total	Bud												
	Act												
Material	Bud												
	Act												
Manpower	Bud												
	Act												

The manpower overrun due to unexpected overtime usage resulting from preparations L3-1 and increased usage of personnel from outside the LOFT Facility Division.

85080009

90008077

LOFT Program Cost/Budget Summary OUTSIDE SERVICE SUPPORT-3rd Level 5n

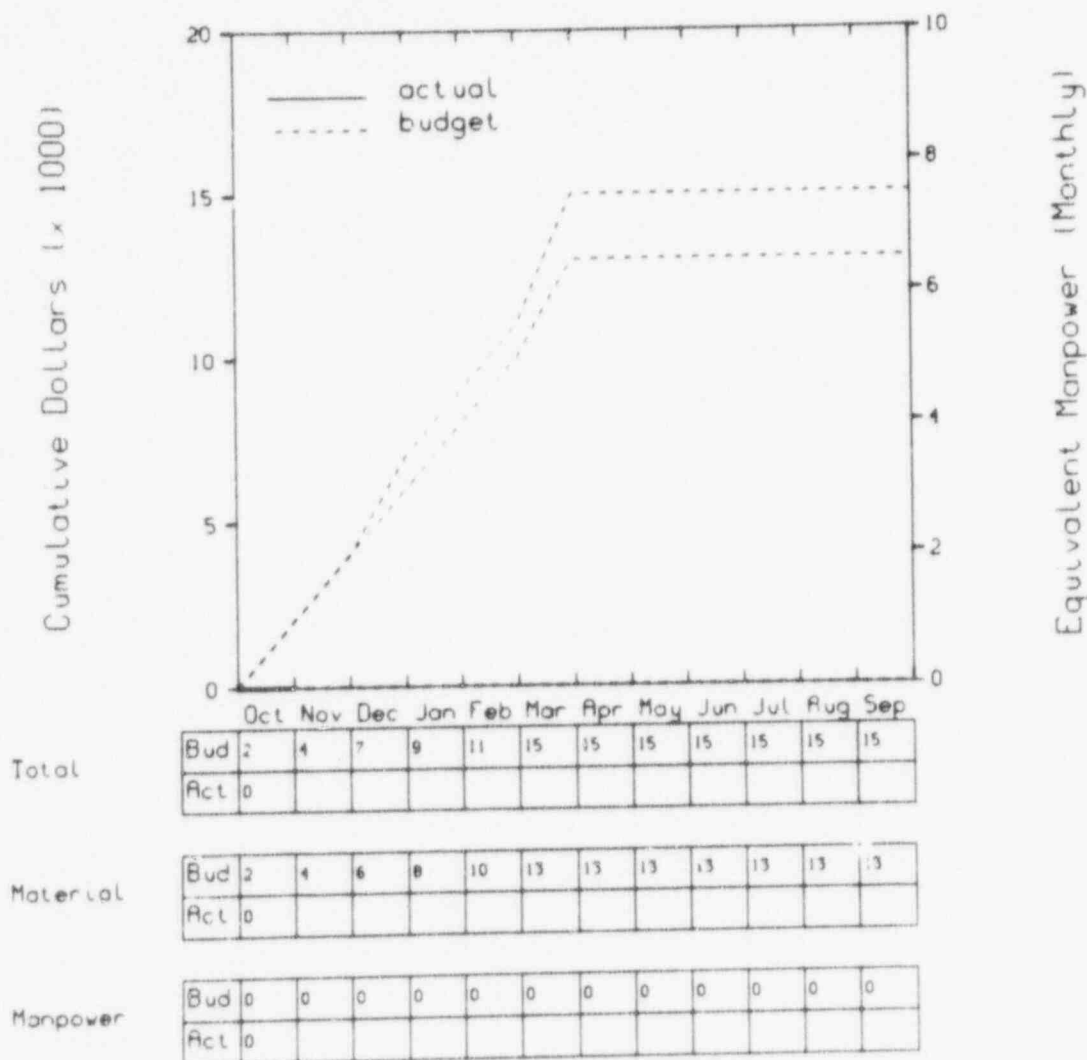


The manpower overrun was due to unexpected overtime usage resulting from preparation for L3-1.

910800000800000

90008078

LOFT Program Cost/Budget Summary Management-3rd Level 5fac10

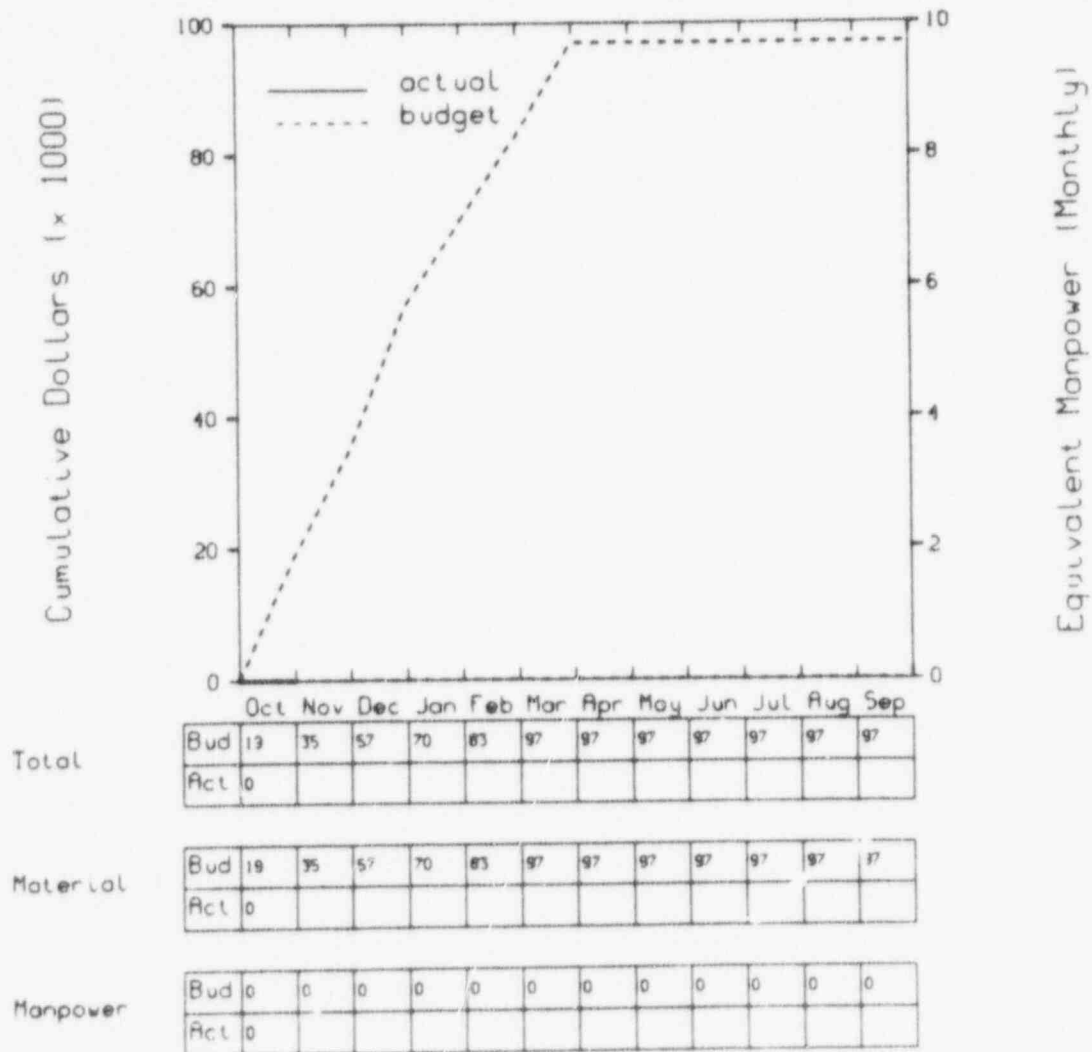


5GAE management task budget includes 5GAE reserve of \$12,000.

90008079

85080008

LOFT Program Cost/Budget Summary Management-3rd Level 5fnc10

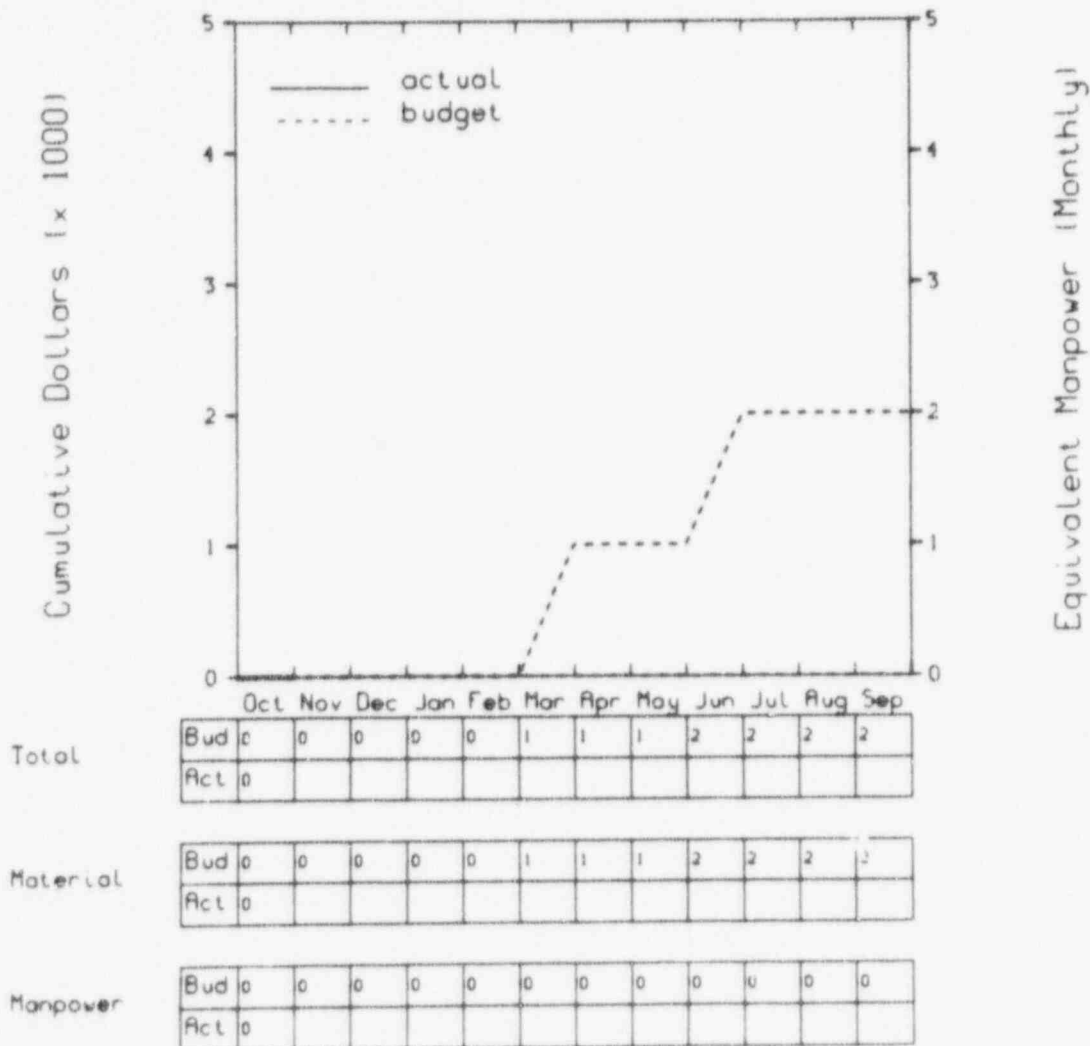


The budget for ECN management task includes a contingency of \$3,000 and an ECN reserve of \$92,000.

18080000
91080000

90008080

LOFT Program Cost/Budget Summary
RPI Subcontract-3rd Level 5fnc30

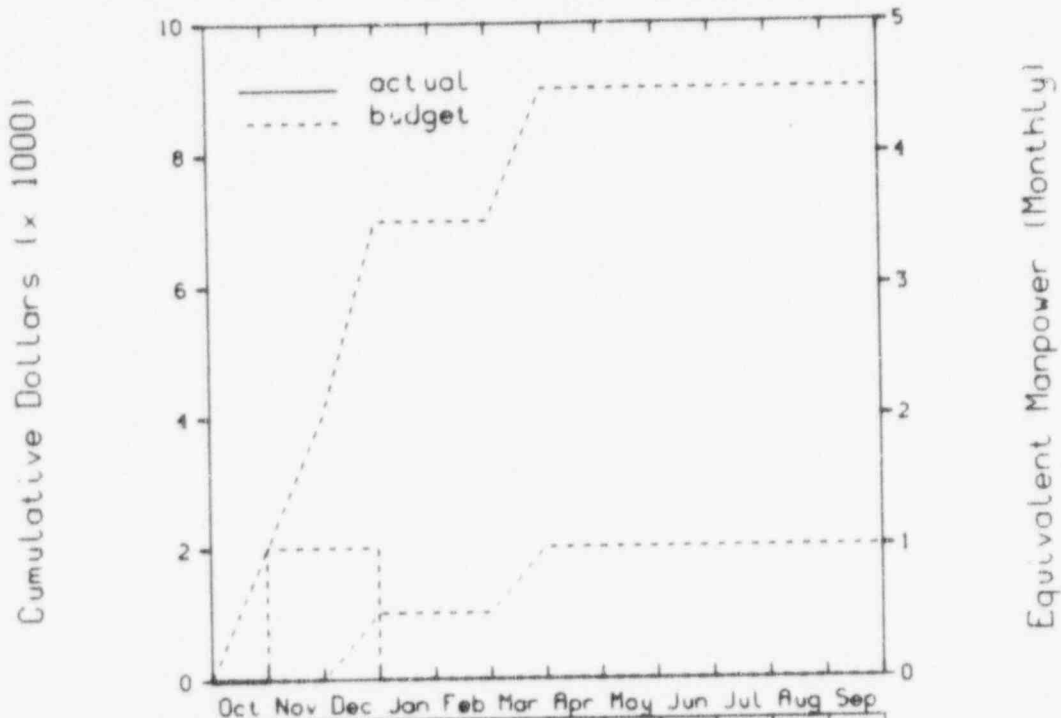


This task involves a subcontract that was paid with balance accrued during FY-79. The scheduled completion of the task is May 1980.

No significant variance.

90008081

LOFT Program Cost/Budget Summary INEL Support-3rd Level 5fnc50



Total

Bud	2	4	7	7	7	9	9	9	9	9	9	9
Act	0											

Material

Bud	0	0	1	1	1	2	2	2	2	2	2	2
Act												

Manpower

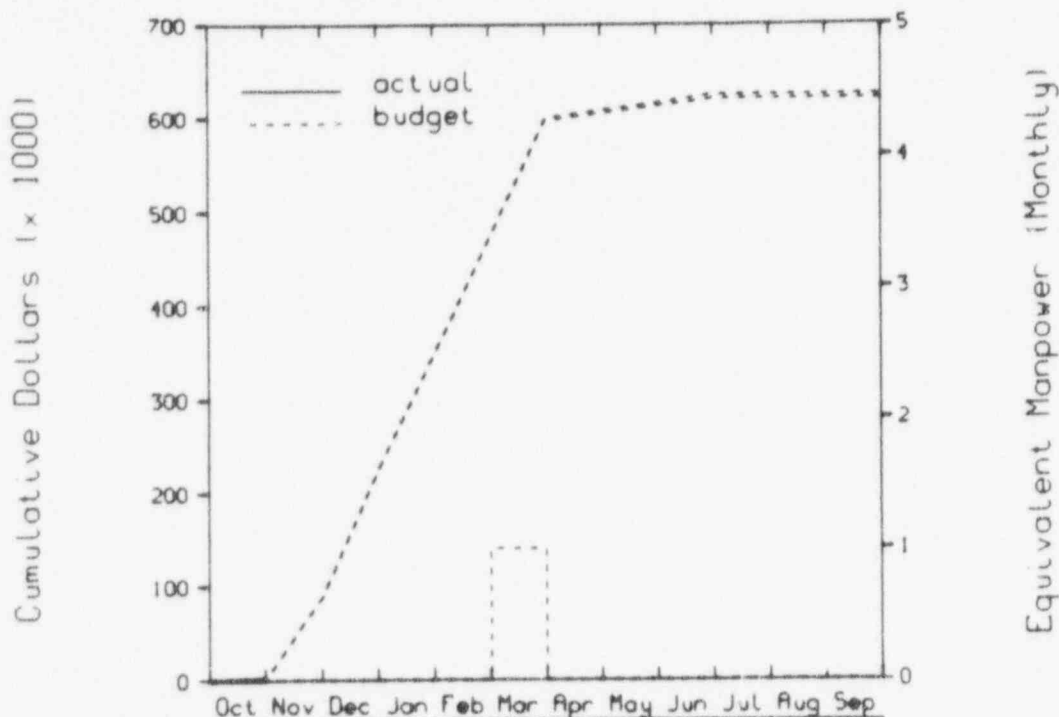
Bud	0	1	1	0	0	0	0	0	0	0	0	0
Act	0											

The task will remain inactive until INEL support for RPI subcontract (5FNC30) is requested by subcontractor.

38080008

90008082

LOFT Program Cost/Budget Summary Management-3rd Level 5f7c10



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	0	89	224	349	474	600	608	616	625	625	625	625
Act	2											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	0	89	224	348	472	587	605	613	620	620	620	620
Act	0											

Manpower

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	0	0	0	0	0	1	0	0	0	0	0	0
Act	0											

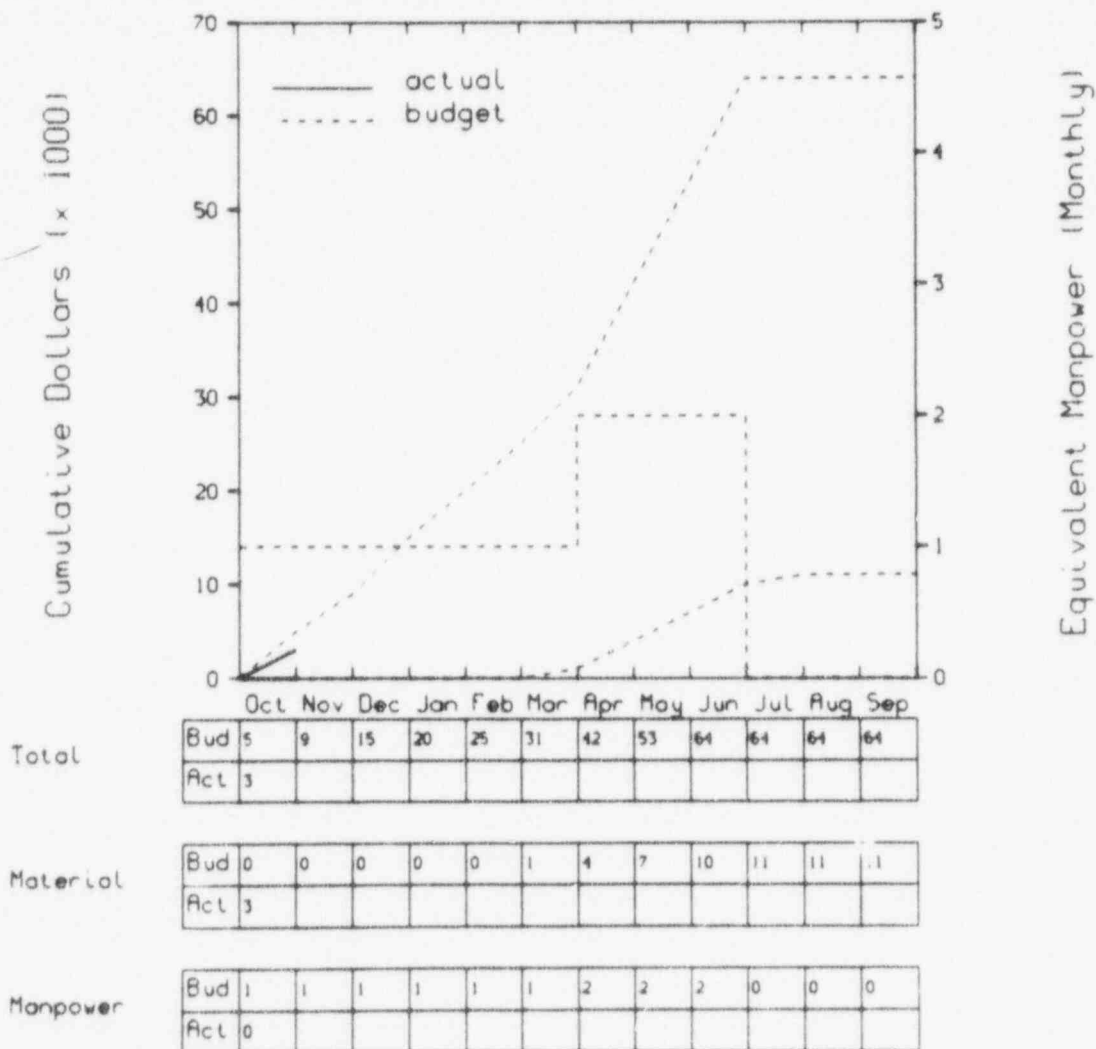
The budget for FRG management task includes a FRG reserve of \$536,000 and a FRG contingency of \$83,000.

No significant variance.

90008083

58080009

LOFT Program Cost/Budget Summary
Fuel Instruments-3rd Level 5f7c30

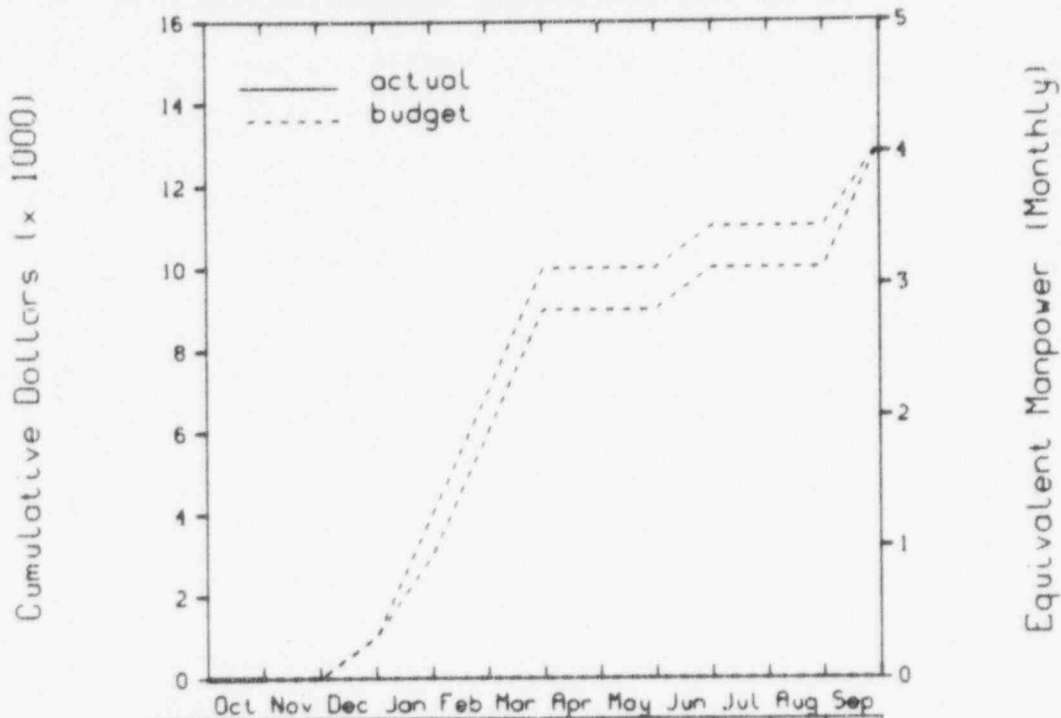


Fabrication of fuel instruments (UDD probes) was delayed pending resolution of design problem.

28080000
28080000

90008084

LOFT Program Cost/Budget Summary
Short Term Tasks-3rd Level 5f7c40



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	0	0	1	3	6	9	9	9	10	10	10	13
Act	0											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	0	0	1	4	7	10	10	10	11	11	11	13
Act	0											

Manpower

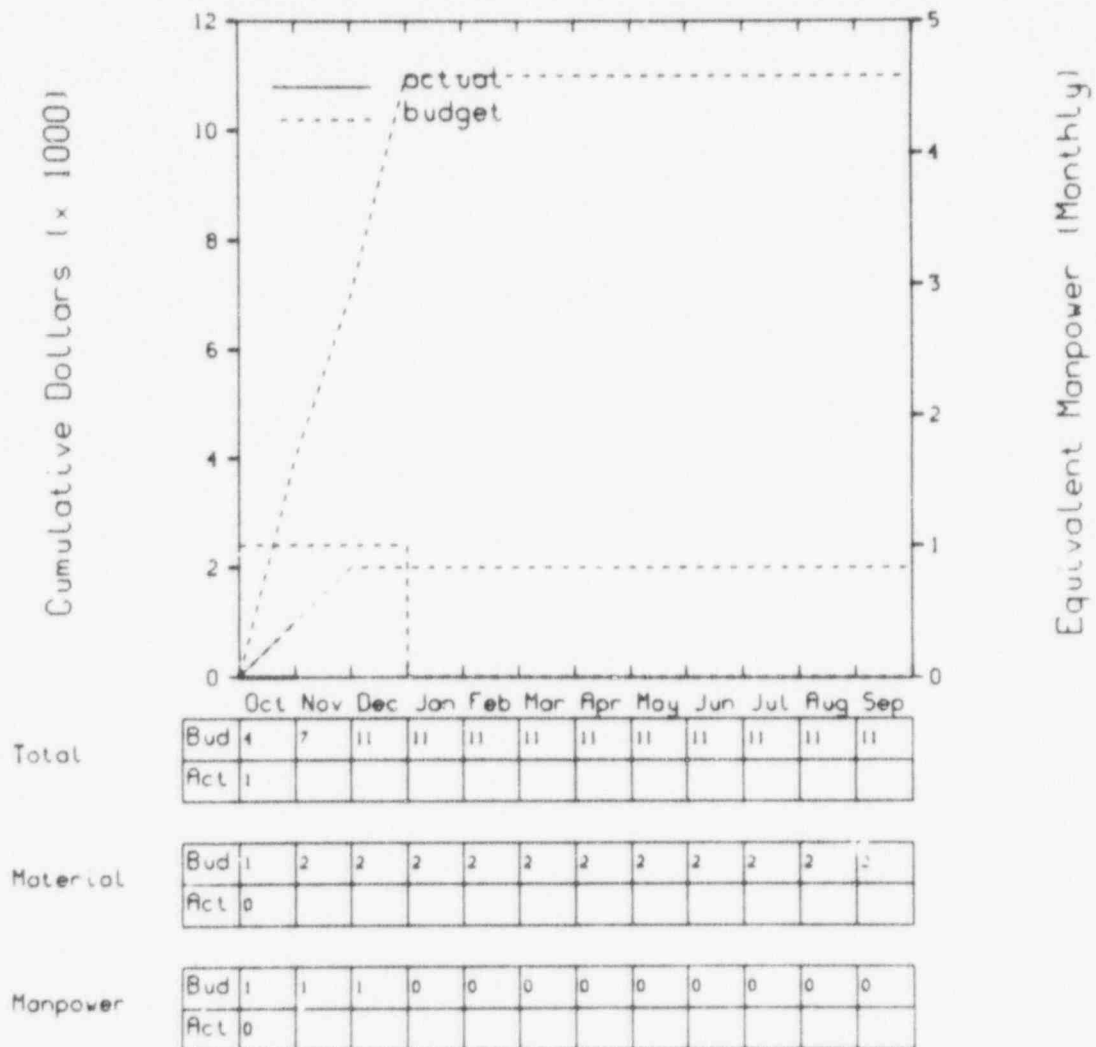
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	0	0	0	0	0	0	0	0	0	0	0	0
Act	0											

No significant variance.

90008085

90008085

LOFT Program Cost/Budget Summary Steam Probe-3rd Level 5f7c50

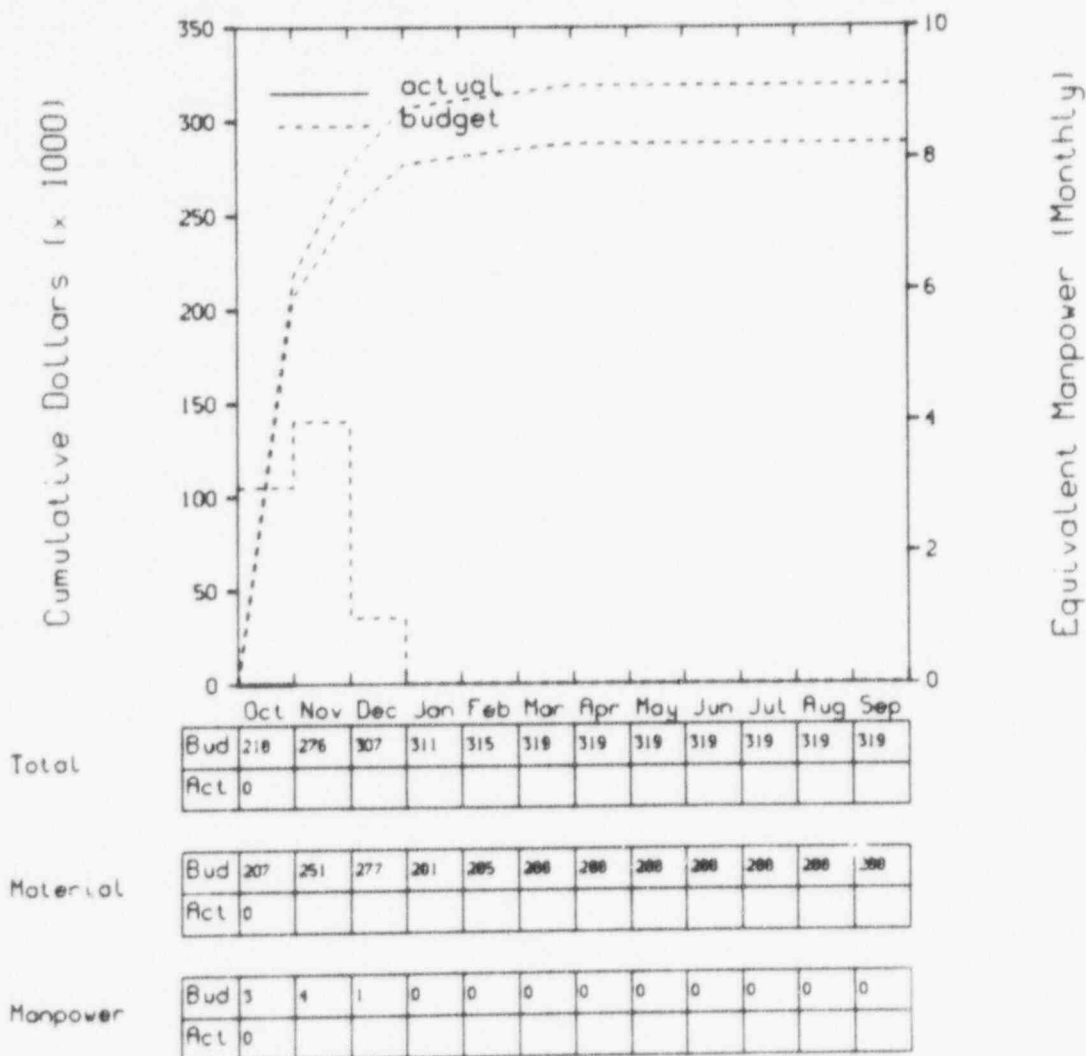


Task delayed due to utilization of investigator on higher priority tasks.

0808000000

90008086

LOFT Program Cost/Budget Summary
Shared Tasks - Steady State Tests-3rd Level 5f7c92

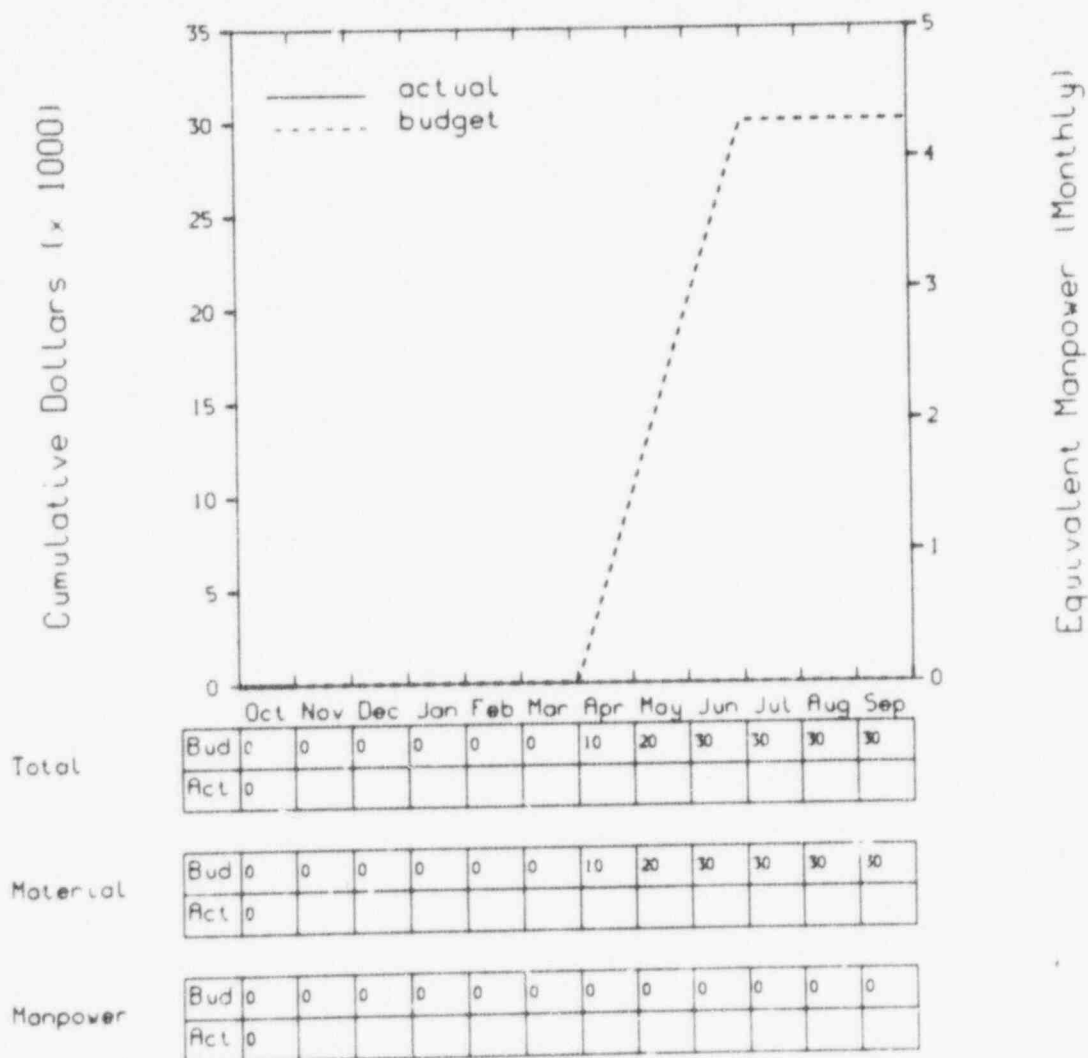


A cost transfer has been initiated to transfer October actuals of \$134,000 to this task. Task is on schedule and within budget.

90008087

28080000

LOFT Program Cost/Budget Summary
 Shared Tasks - Trac Code Studies-3rd Level 5f7c9j

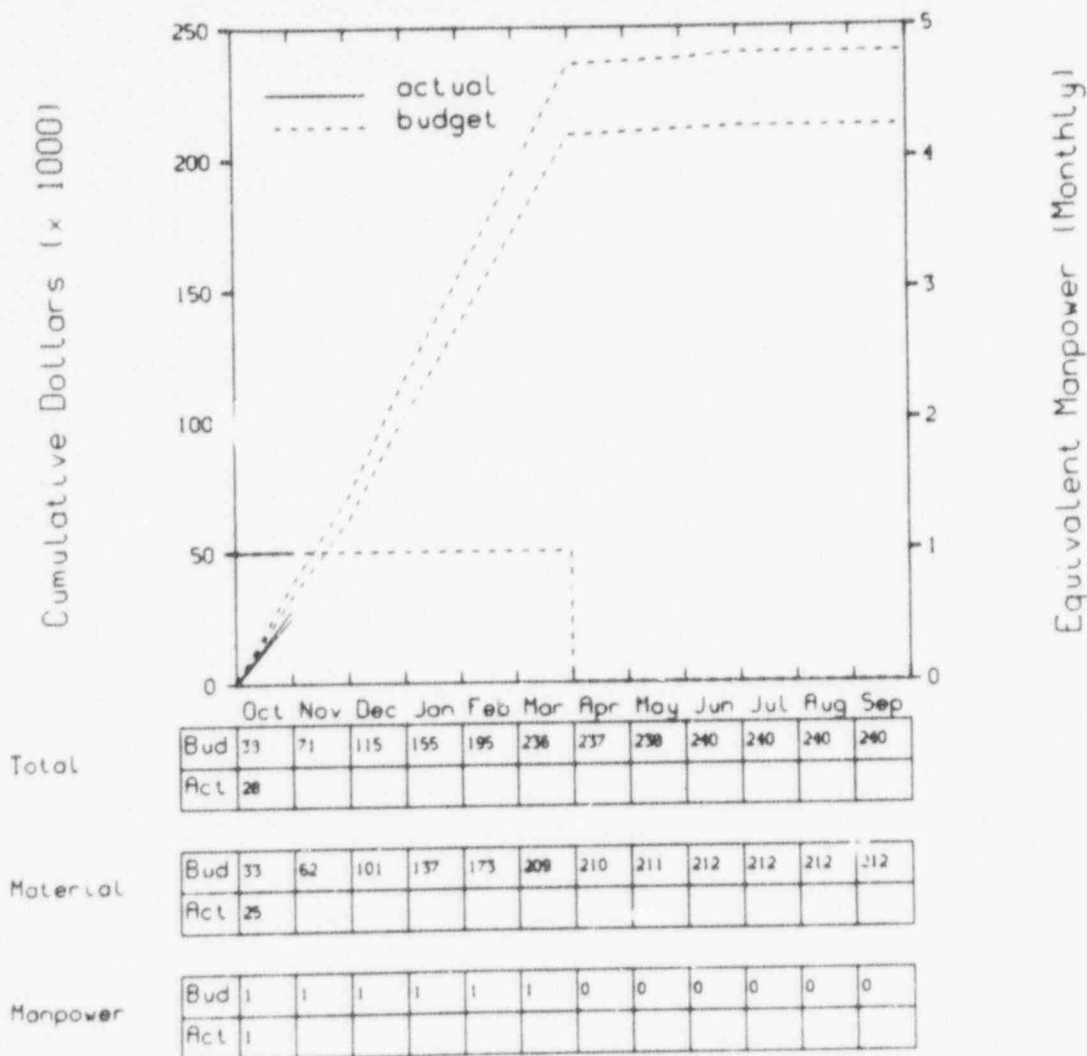


No significant variance.

PROBATION

90008088

LOFT Program Cost/Budget Summary Management-3rd Level 5f8c10

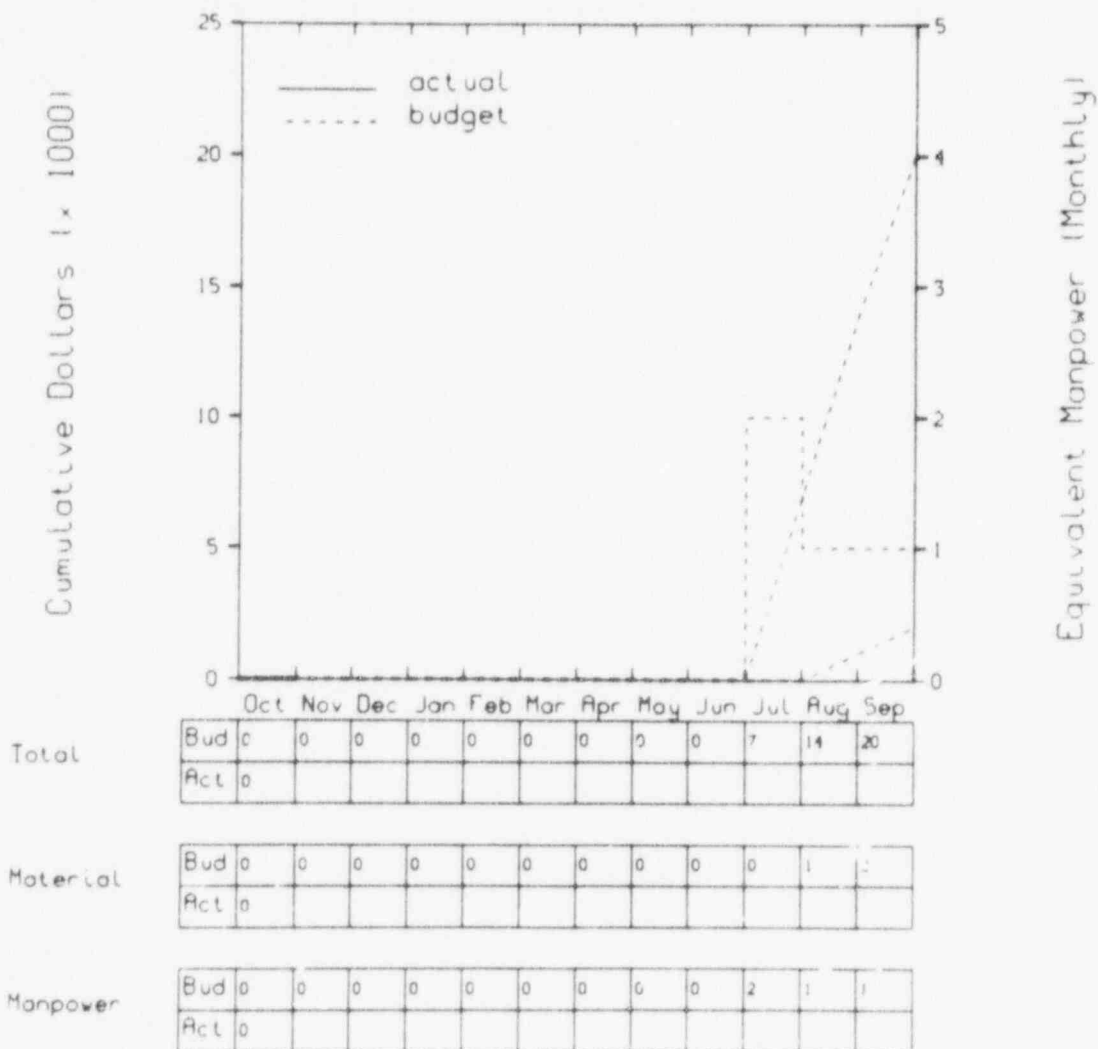


The budget for JAERI management task includes a contingency of \$85,000 and a JAERI reserve of \$153,000. Indicated charges of \$26,000 are in error by \$24,685. The incorrect charges will be transferred to correct task actuals.

90008089

88080008

LOFT Program Cost/Budget Summary
 DTT - Advanced-3rd Level 5f8c40



No significant variance.

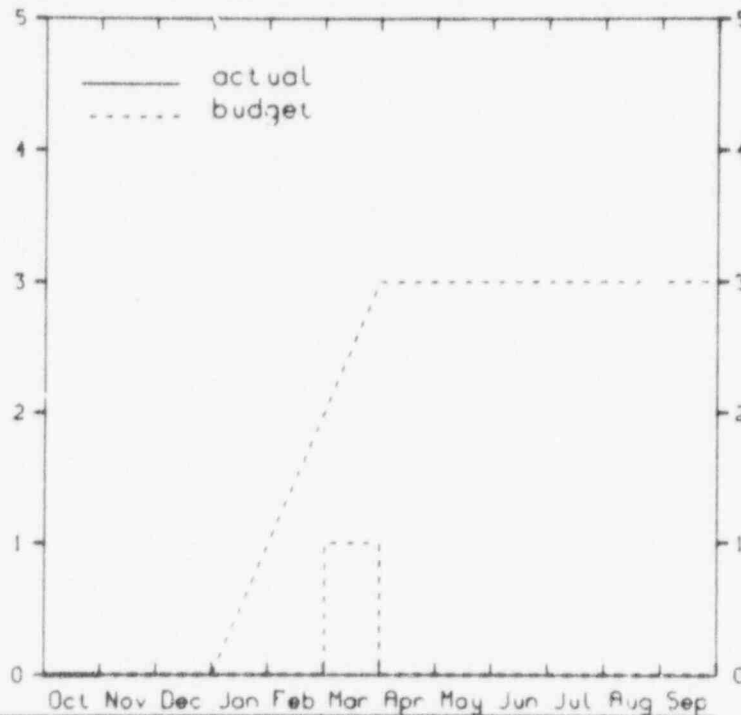
93080000

90008090

19080000

LOFT Program Cost/Budget Summary
Re-eval LOFT Exps-3rd Level 5f8c60

Cumulative Dollars ($\times 1000$)



Equivalent Manpower (Monthly)

Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	0	0	0	1	2	3	3	3	3	3	3	3
Act	0											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	0	0	0	0	0	0	0	0	0	0	0	0
Act	0											

Manpower

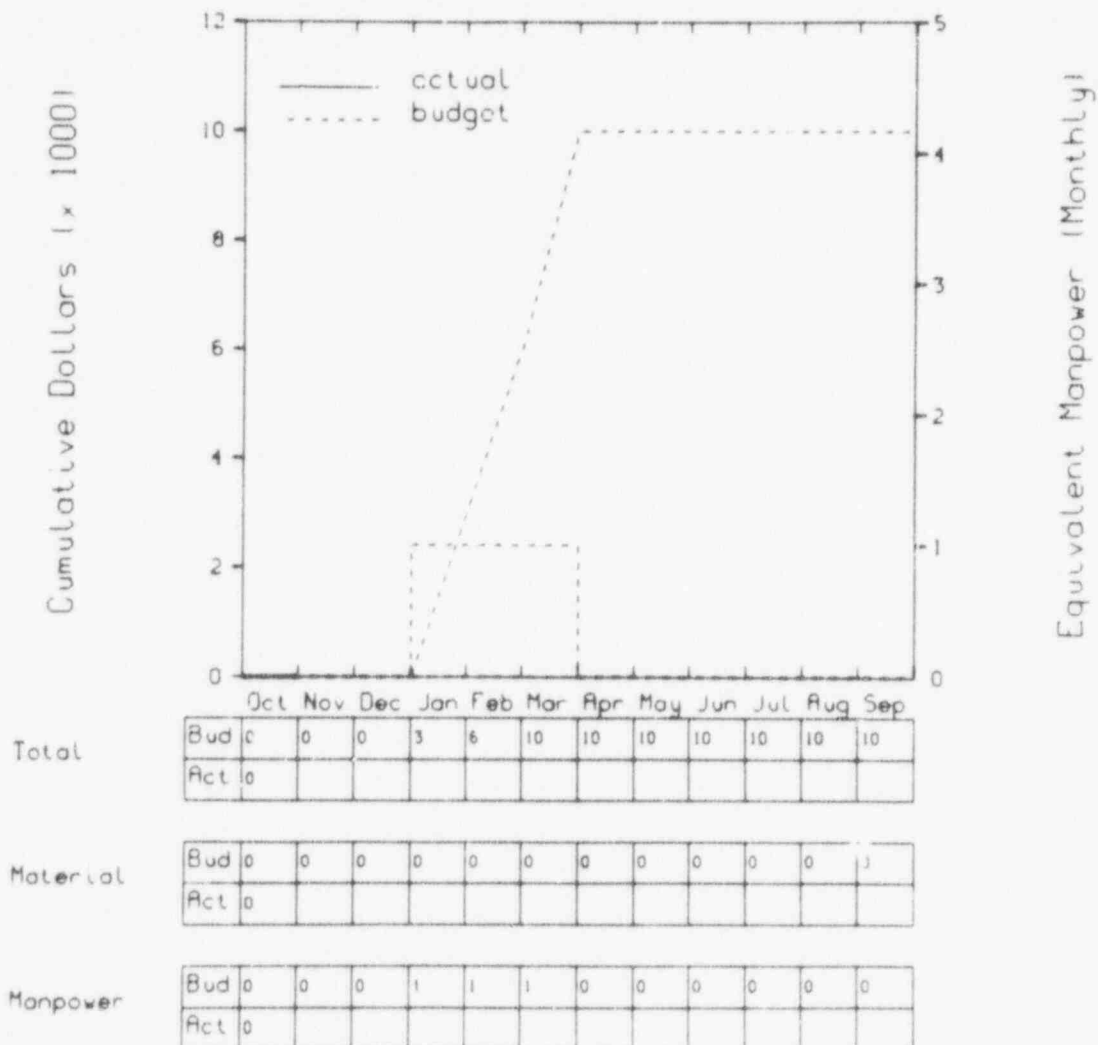
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	0	0	0	0	0	1	0	0	0	0	0	0
Act	0											

No significant variance.

90008091

90008091

LOFT Program Cost/Budget Summary
Code Studies-3rd Level 5f8c70



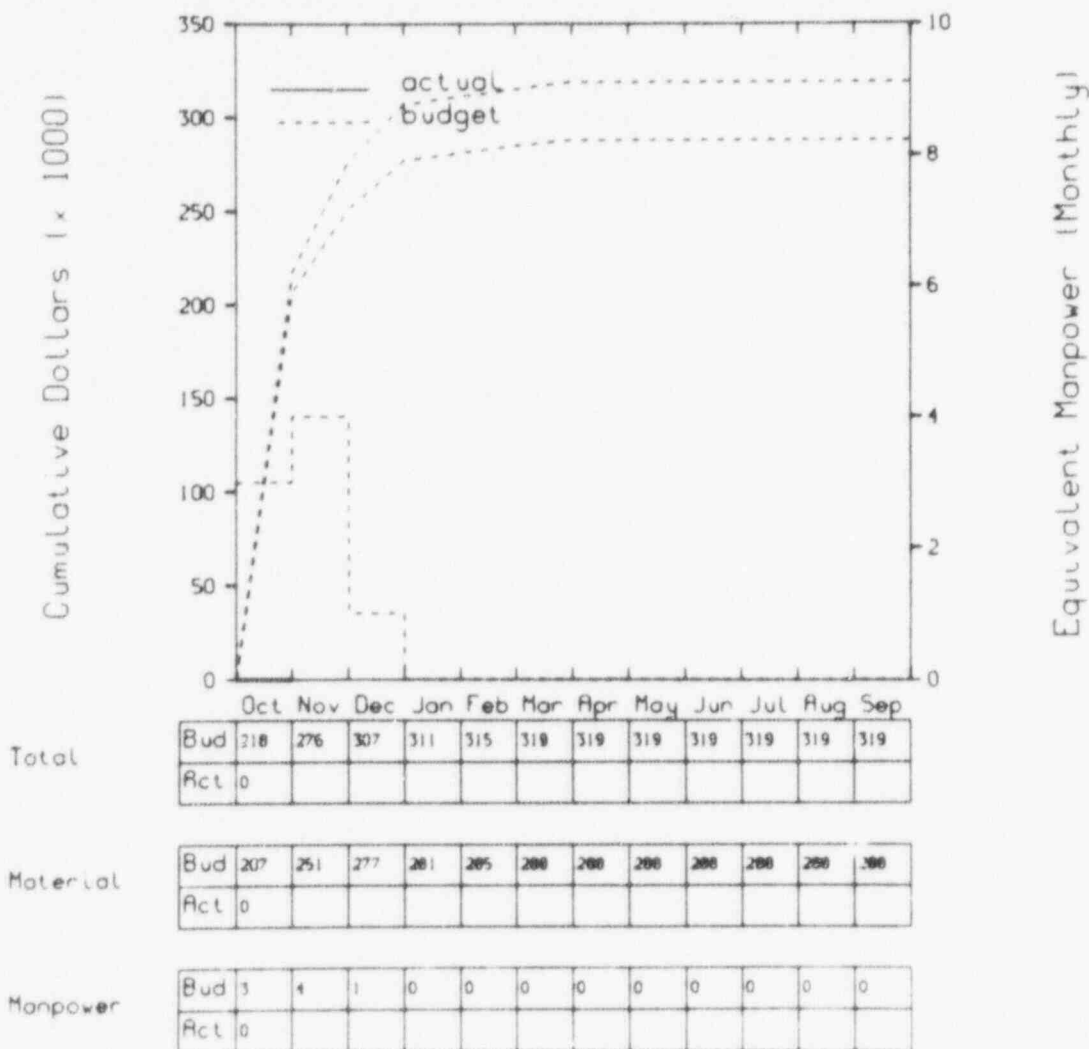
No significant variance.

2808000R

90008092

1808000V

LOFT Program Cost/Budget Summary
Shared Tasks - Steady State Tests-3rd Level 5f8c92

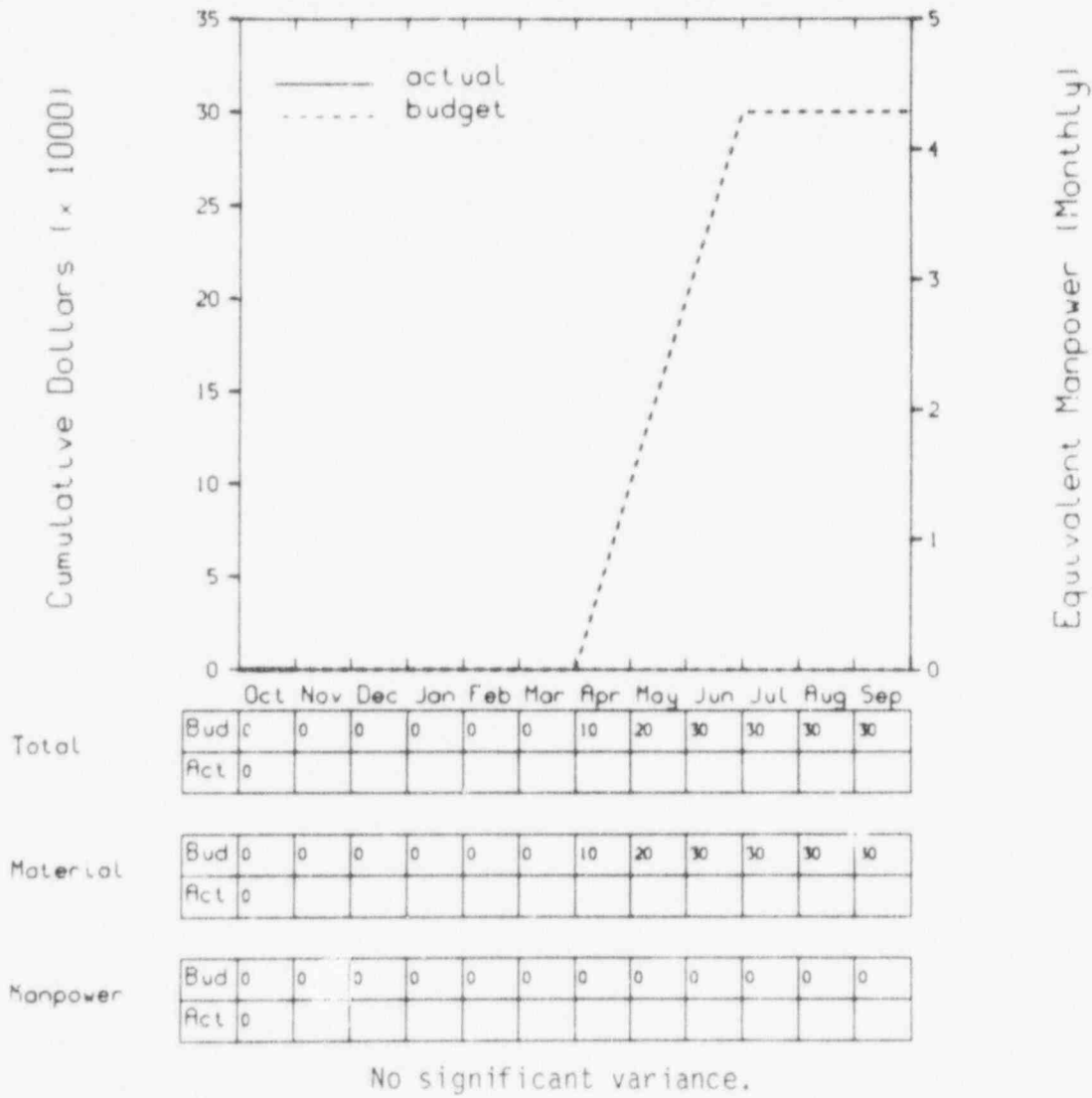


October actuals of \$134,000 were erroneously charged to WRS 5F9C3. A cost transfer has been initiated. Task is within budget and on schedule.

SP080004

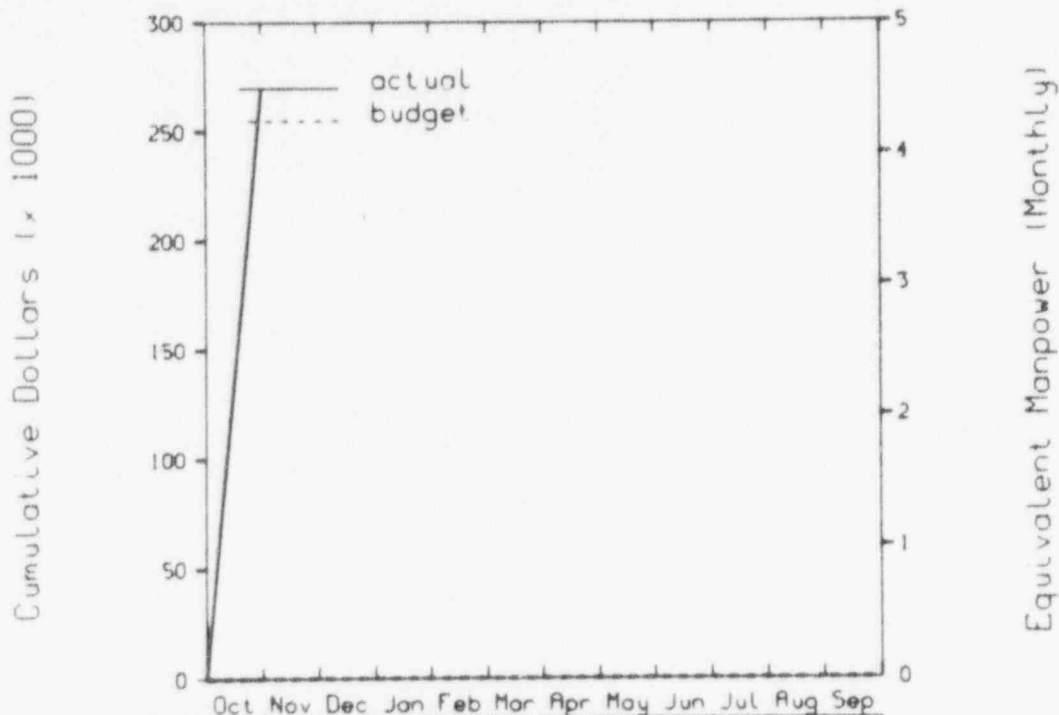
90008093

LOFT Program Cost/Budget Summary
Shared Tasks - Trac Code Studies-3rd Level 5f8c93



90008094

LOFT Program Cost/Budget Summary
Trac Code Studies-3rd Level 5f9c30



Total

Bud	0	0	0	0	0	0	0	0	0	0	0	0
Act	270											

Material

Bud	0	0	0	0	0	0	0	0	0	0	0	0
Act	270											

Manpower

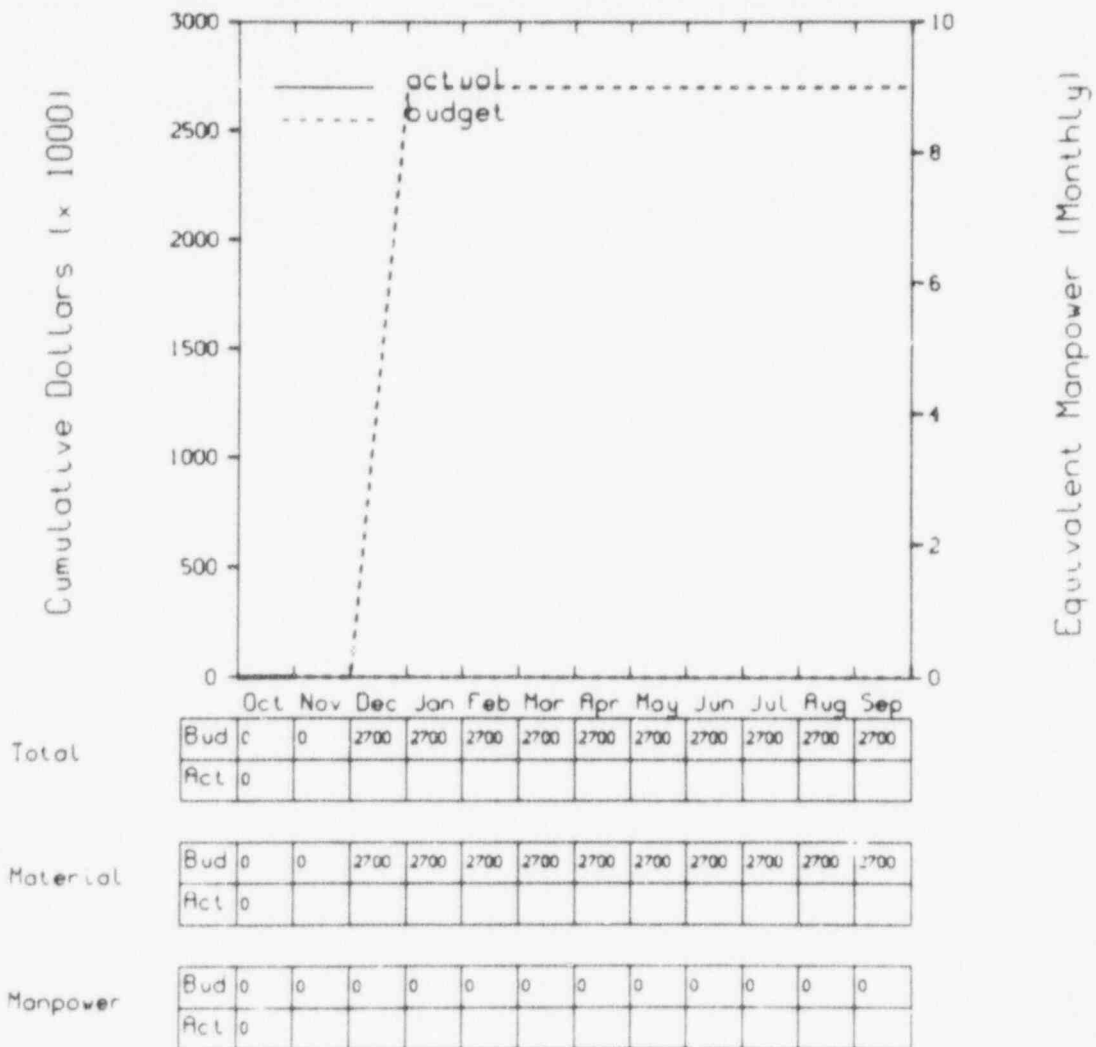
Bud	0	0	0	0	0	0	0	0	0	0	0	0
Act	0											

This WBS number is used to accumulate actuals for transfer of one-half to FRG account 5F7C93 and one-half to JAERI account 5F8C93. Actual charges indicated are in error and will be transferred to correct tasks.

49080000

90008095

LOFT Program Cost/Budget Summary
Spec Process Spares-3rd Level 5nsp

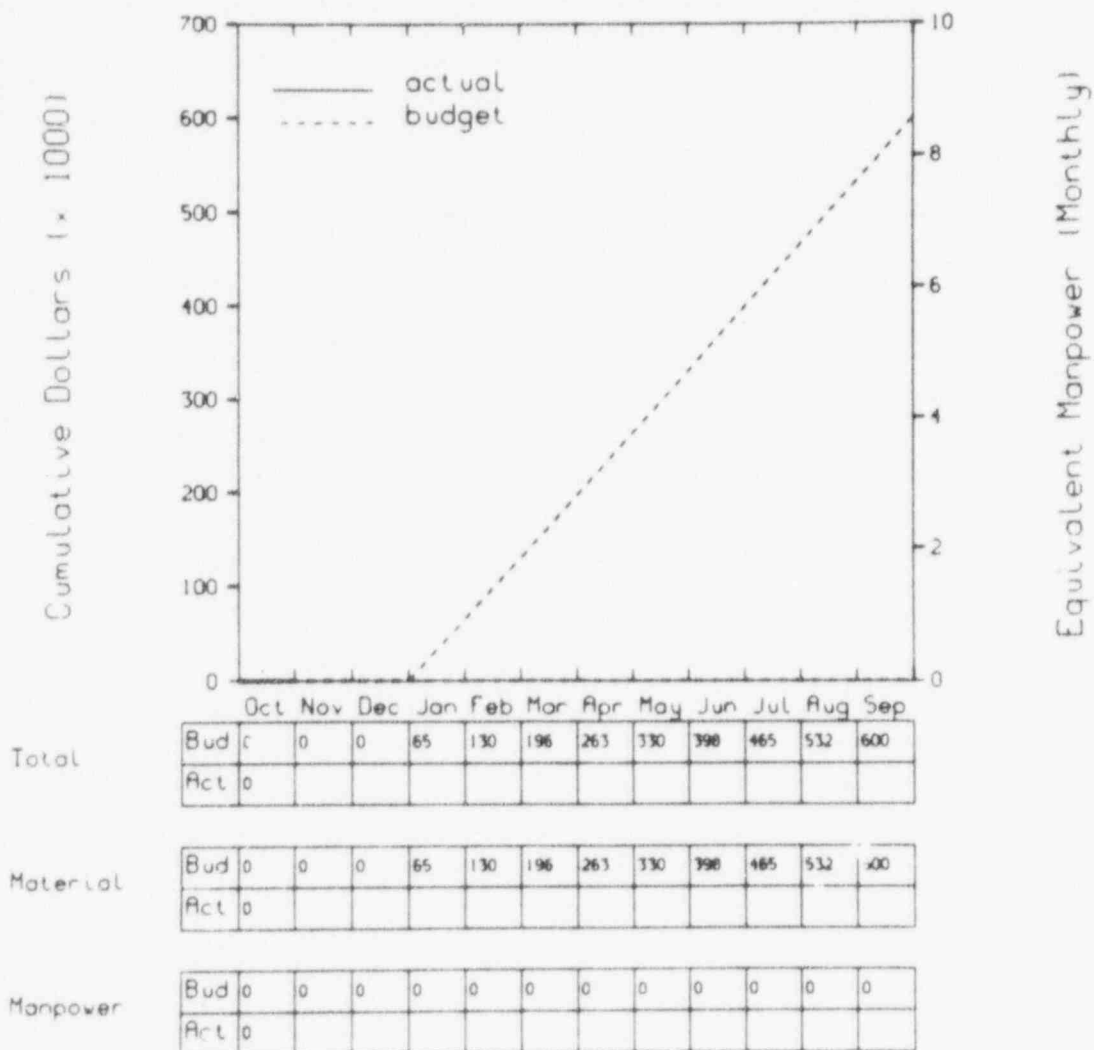


A portion of the LOFT special process spares were inadvertently put through accounting system before they were scheduled.

90008096
90008096

90008096

LOFT Program Cost/Budget Summary
THREE-MILE ISLAND SUPPORT-3rd Level 5ntm

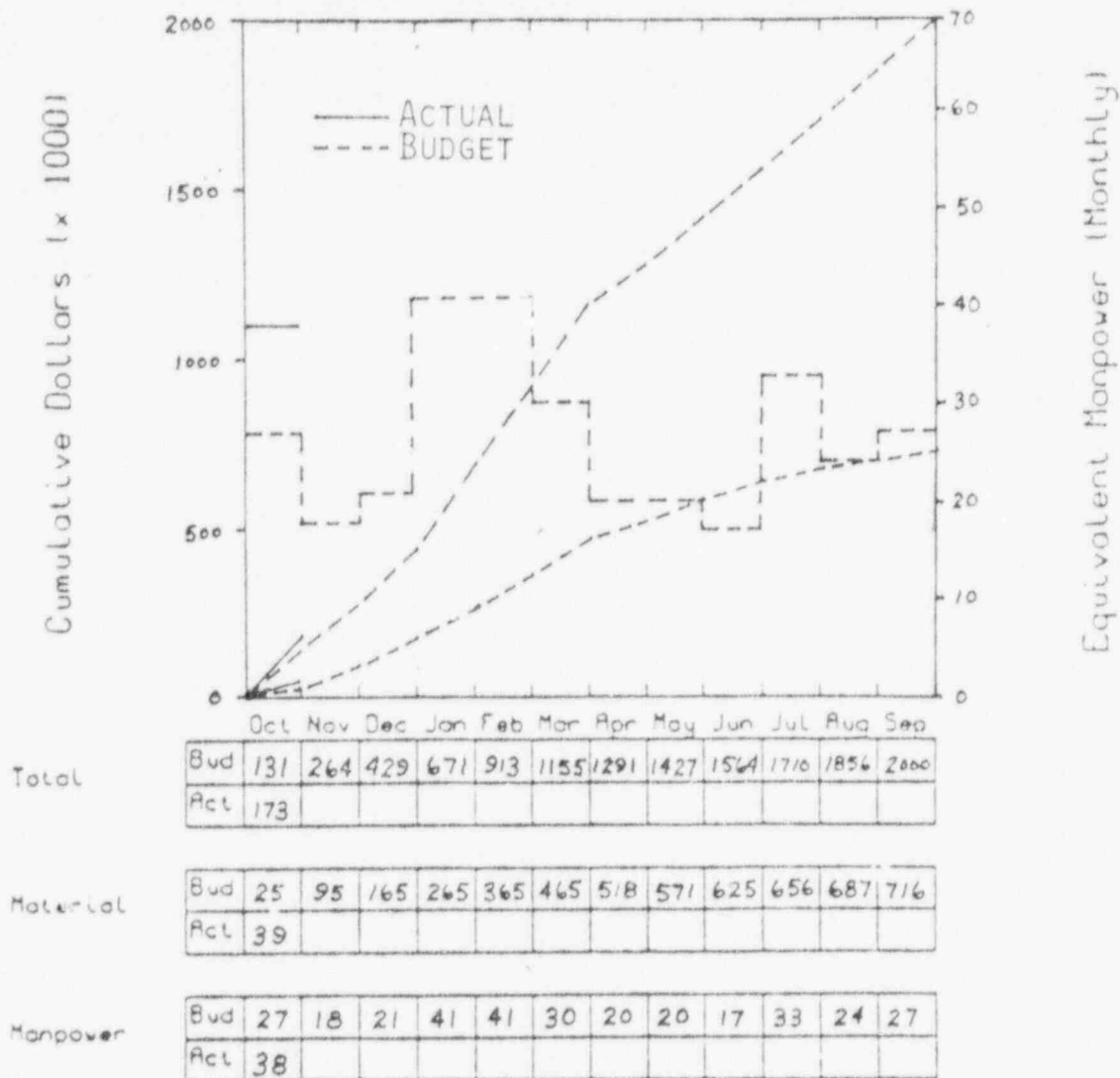


No significant variance.

90008097

89080000

LOFT Program Cost/Budget Summary
EXP MEAS - MEAS SYST A - 4TH LEVEL 5N3AMA

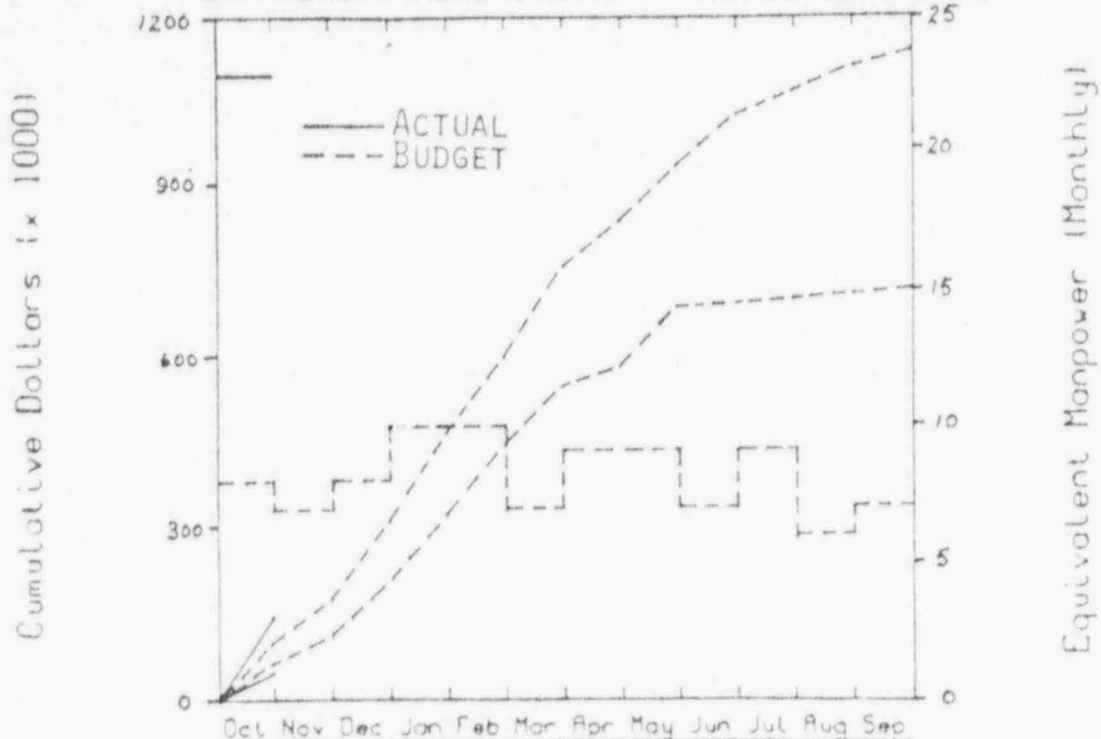


Work scheduled for after January 1 began early.

90008098

LOFT Program Cost/Budget Summary

EXP MEAS - MEAS SYST B - 4TH LEVEL 5N3AMB



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	98	161	300	449	598	742	835	923	1011	1052	1093	1134
Act	144											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	66	103	201	312	423	534	584	683	690	699	708	714
Act	48											

Manpower

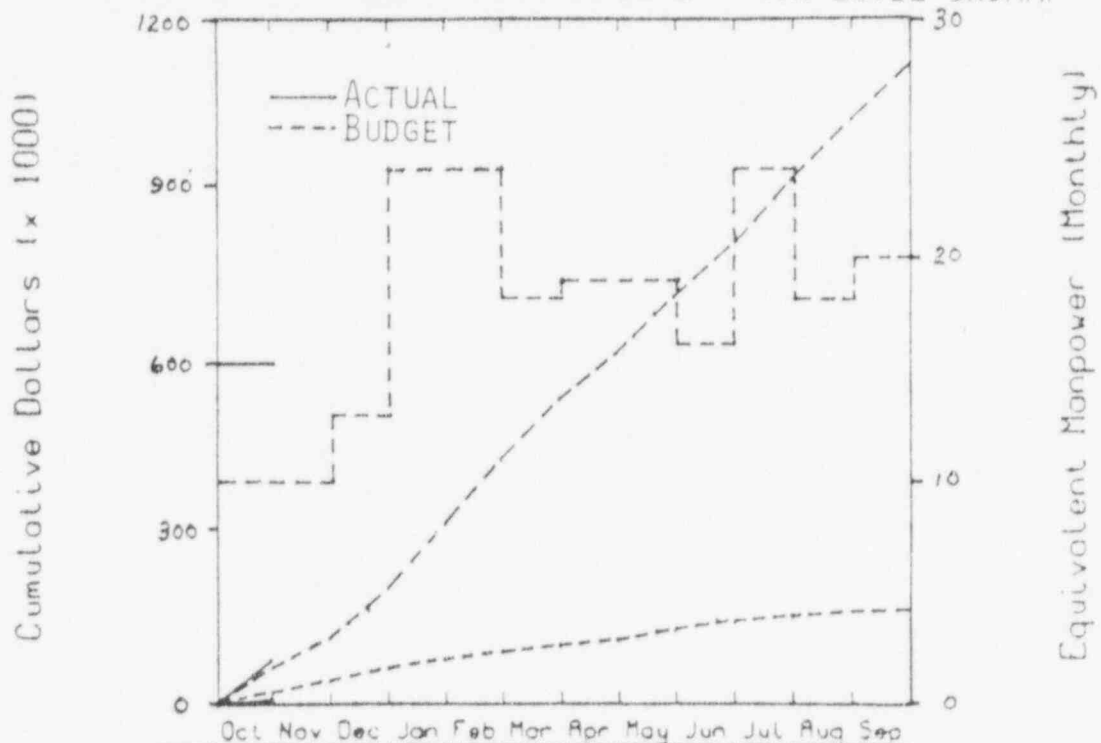
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	8	7	8	10	10	7	9	9	7	9	6	7
Act	23											

Scope was transferred from RCE to Operating -- a CCB is in process but is not reflected above. With the included, spending is within acceptable limits.

8908000P

90008099

LOFT Program Cost/Budget Summary
EXP MEAS - MEAS PERFORMANCE 1 - 4TH LEVEL 5N3AMP



Total

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	58	110	196	304	412	520	613	706	799	902	1005	1106
Act	62											

Material

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	16	31	53	68	83	98	108	118	128	138	148	153
Act	3											

Manpower

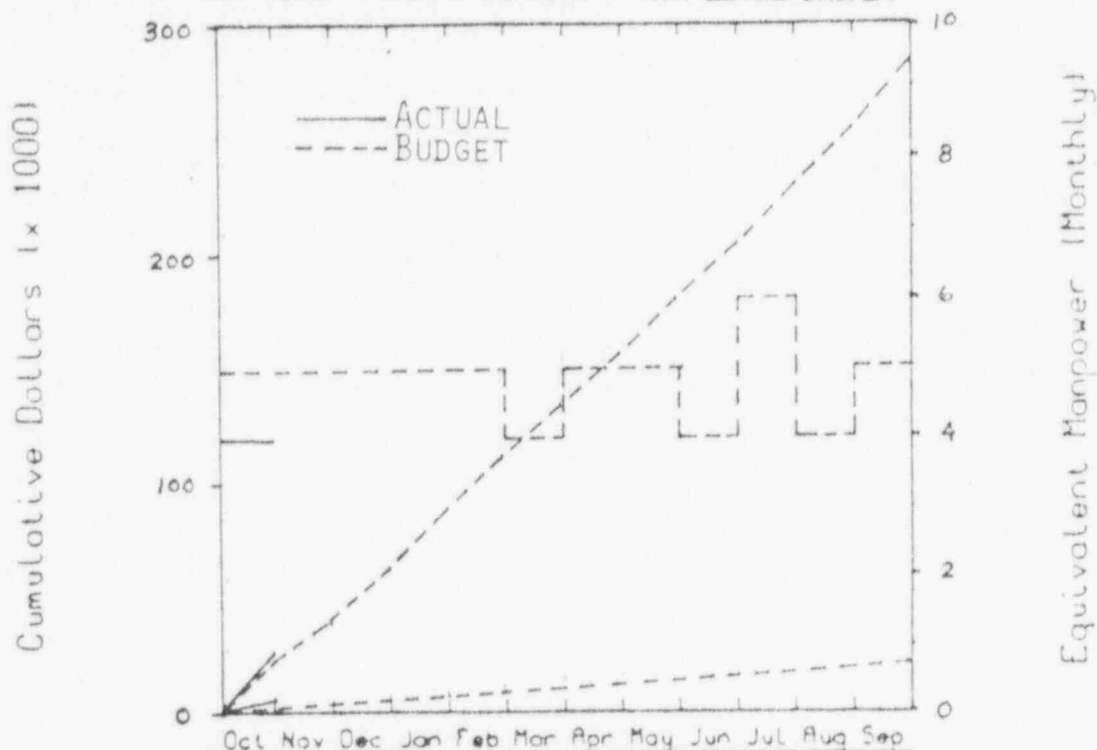
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Bud	10	10	13	24	24	18	19	19	16	24	18	20
Act	15											

No significant variance.

90008100

90008100

LOFT Program Cost/Budget Summary
EXP MEAS - DAVDS SUPPORT - 4TH LEVEL SN3ADV



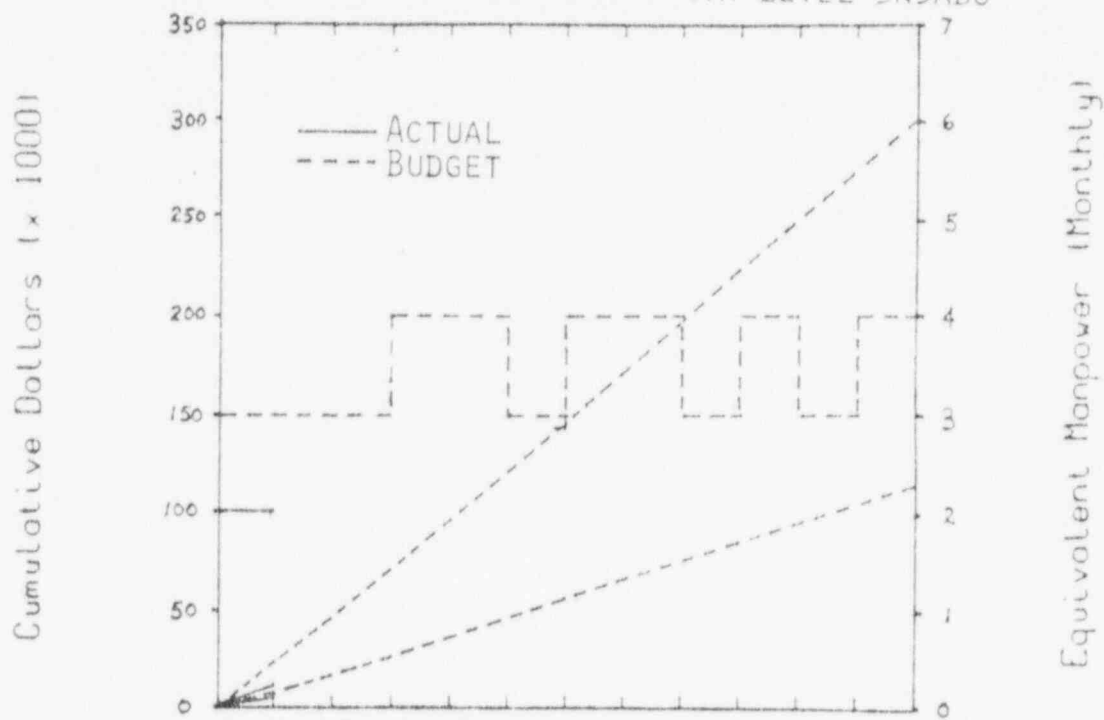
Total	Bud	22	40	65	88	111	134	158	182	206	230	254	278
	Act	25											
Material	Bud	2	3	5	7	9	11	12	14	16	18	20	22
	Act	6											
Manpower	Bud	5	5	5	5	5	4	5	5	4	6	4	5
	Act	4											

No significant variance.

90008101

00180000

LOFT Program Cost/Budget Summary
EXP MEAS - BRANCH SUPPORT - 4TH LEVEL 5N3ABS



Total

Bud	24	44	71	96	121	146	172	198	224	250	276	303
Act	13											

Material

Bud	9	17	28	37	46	56	66	76	86	96	106	114
Act	8											

Manpower

Bud	3	3	3	4	4	3	4	4	3	4	3	4
Act	2											

Four weeks of work were missed due to illness and time off without pay, thus not being charged to manpower actuals, allowing cost variance difference.

90008102

Performance Analysis

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>
5N2D000	488	389	185
5N4K000	88	55	81
5N4P00	58	23	77

For 5N2D000, the underrun in material costs is caused by

1. Nonpayment of work accomplished by suppliers of fuel bundles, control rod components, and upper support structure;
2. A one-month delay in rewarding the contract for the Reload Core II fuel bundles.

Progress payments to partially compensate for the discrepancy will start in November and recovery is expected by year-end.

for 5N4K000, there is no significant variance.

For 5N4P000, the total and material cost overrun is presumed due to FY-79 material costs that should have been accrued. Appropriate corrective action will be taken.

90008103

50180009

BUDGET STATUS REPORT

TABLE 1. LOFT FY-80 SUMMARY BUDGET STATUS REPORT
NUCLEAR REGULATORY COMMISSION
(In Thousands of Dollars)

LOFT WBS#	189 #	Q80-2-1 (CCB 80-2)	Approved CL.I CCBs	Current PMB # Q80-2-1	Approved CL.II CCBs	Current BAC
5N1XX	A6048	4,923		4,923		4,923
5N2XX	A6053	4,470		4,470		4,470
5N3XX	A6043	8,205		8,205		8,205
5N4XX	A6107	10,784		10,784		10,784
5N5XX	A6122	4,089		4,089		4,089
5N6XX	A6110	3,713		3,713		3,713
5N7XX	A6054	7,695		7,695		7,695
5N8XX	A6108	<u>1,000</u>		<u>1,000</u>		<u>1,000</u>
5NXXX		44,879	0	44,879	0	44,879
		NRC discretionary reserves				50
		NRC management reserves				<u>1,211</u>
		Total NRC funding (FY-80)				46,140

90008104

20180002

TABLE 2. LOFT FY-80 SUMMARY BUDGET STATUS REPORT OF LOFT FOREIGN FUNDS
(In Thousands of Dollars)

LOFT WBS#	189 #	Q80-2-1 (CCB 80-4)	Approved CL.I CCBS	Current PBM # Q80-2-1	Approved CL.II CCBS	Current FY-80 Budget	Authorized Spending Limit
5FAXX		9		9		9	9
5FNXX		12		12		12	12
5F7XX		402		402		402	402
5F8XX		340		340		340	340
5F9XX		0		0		0	0
5FXXX		763	0	763	0	763	763
		Foreign contingency reserves				171	171
		Foreign management reserves				743	743
		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 fund received to date				8,707	8,707

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

90008105

CHANGE CONTROL BOARD ACTIONS

TABLE 3. OCTOBER CHANGE CONTROL BOARD ACTIONS

CCB#	Title	WBS#	Allocation (\$)			Action
			FY-80	FY-81	Total	
80-1	Q80-1 baseline	5NXXX	--	--	N/A	Approved
80-2	Q80-2-1 baseline	5NXXX1	--	--	N/A	Approved
80-4	Foreign-funded baseline	5FXXXX	--	--	N/A	Approved
80-11	Discretionary reserves	544MRX	50,000	--	50,000	Approved

90008106

90008106

TABLE 4. LOFT CAPITAL EQUIPMENT STATUS REPORT THROUGH OCTOBER
(In Dollars)

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	3,695	22,575	75,460	94,480	3,555
500004	LOFT Operations	126,419	0	126,419	5,069	5,358	115,992	119,520	1,830
500005	VT and Requalification Program	218,034	0	218,034	0	122,630	95,404	218,000	34
Total DOE		446,183	0	446,183	8,764	150,563	286,856	432,000	5,419
A6061	Experimental Measure- ments	788,770	784,200	1,572,970	90,472	251,566	1,230,932	1,481,298	1,200
A6084	Integral System Design and Fabrication	689,139	1,426,800	2,115,939	48,585	123,231	1,944,123	2,022,684	44,670
A6088	LOFT Operations	18,091	89,000	107,091	0	1,461	105,630	106,360	731
Total NRC		1,496,000	2,300,000	3,796,000	109,057	376,258	3,280,685	3,610,342	46,601
Total LOFT		1,942,183	2,300,000	4,242,183	117,821	526,821	2,567,541	4,042,342	52,020

CAPITAL EQUIPMENT SUMMARY