WHC-EP--0331-1

DE90 013862

Defense Waste and Environmental Restoration Programs

Fiscal Year 1990 Quarterly Status

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Date Published
April 1990

Prepared for the U.S. Department of Energy
Assistant Secretary for Defense Programs

Westinghouse Hanford Company
P.O. Box 1970
Richland, Washington 99352

Hanford Operations and Engineering Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930

Printed in the United States of America

DISCLM-2.CHP (2-89)

Defense Waste and Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
January - March 1990

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NOTE: All dollars are Expense Funded ONLY - unless otherwise noted.

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PROGRAM OVERVIEW

NOTE: All dollars are Expense Funded ONLY - unless otherwise noted.

Defense Waste and Environmental Restoration Programs
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FINANCIAL STATUS OVERVIEW
($000s)

Program	Budget (BCWS)	Cost (ACWP)	Earned Value (BCWP)	Cost Variance	Schedule Variance	FY Budget
Waste Operations	81,140	75,783	76,199	416	(4,941)	180,169
Waste Technology	4,208	3,767	3,637	(130)	(571)	10,690
TOTAL Defense Waste ...	85,348	79,550	79,836	286	(5,512)	190,859
Environmental Restoration - Remedial Action	35,952	30,005	30,813	808	(5,139)	72,952
ERRA - RDDT&E	1,968	1,644	1,883	239	(85)	5,950
Decommissioning & Environmental Operations	5,505	4,673	4,949	276	(556)	12,749
Shippingport	1,751	753	1,751	998	0	1,751
Hanford Site Landlord Program	798	662	731	69	(67)	2,037

Defense Waste and Environmental Restoration Programs
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FINANCIAL STATUS OVERVIEW
($000s)

Program		Budget (BCWS)	Cost (ACWP)	Earned Value (BCWP)	Cost Variance	Schedule Variance	FY Budget
ASSESSMENT PROGRAMS							
* HEMP							
	Operation	2,259	1,999	2,208	209	(51)	5,486
	Liquidation	(2,743)	(2,743)	(2,743)	0	0	(5,486)
* Environmental Monitoring							
	Operation	6,201	5,681	6,038	357	(163)	11,598
	Liquidation	(5,964)	(5,964)	(5,964)	0	0	(11,598)
* Solid Waste Management							
	Operation	8,082	6,647	7,228	581	(854)	18,379
	Liquidation	(8,983)	(8,983)	(8,983)	0	0	(18,379)
* 340 Building Liquid Waste Operations							
	Operation	879	714	879	165	0	1,804
	Liquidation	(835)	(836)	(836)	0	(1)	(1,804)

* Excludes G&A and Service Assessment Overhead

Defense Waste/Environmental Restoration Programs
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Abbreviations and Acronyms

A/E ..... Architect/Engineer
AATS ..... Automated Action Tracking System
ACD ..... Advanced Conceptual Design
ACDR ..... Advanced Conceptual Design Report
ACWP ..... Actual Cost of Work Performed
ADM ..... Action Description Memorandum
ADS ..... Activity Data Sheet
AFE ..... Alternative Flowsheet Evaluation
AMU ..... Aqueous Makeup
ARCL ..... Allowable Residual Contamination Level
ATP ..... Acceptance Test Procedure
AWVP ..... Annual Waste Volume Projection

BAT ..... Best Available Technology
BCE ..... B Plant Chemical Sewer
BCP ..... B Plant Process Condensate
BCSR ..... Boeing Computer Services, Richland
BCWP ..... Budgeted Cost of Work Performed
BCWS ..... Budgeted Cost of Work Scheduled
BDAT ..... Best Demonstrated Available Technology
BWIP ..... Basalt Waste Isolation Project

CADD ..... Computer-Aided Design Drafting
CC ..... Complexant Concentrate
CDR ..... Conceptual Design Report
CENRTC ..... Capital Equipment Not Related To Construction
CERCLA ..... Comprehensive Environmental Response, Compensentation and Liability Act
COCA ..... Consent Order Compliance Agreement
CR ..... Change Request
CRC ..... Certification Review Committee
CST ..... Core Sample Truck
CWL ..... Cool Water Line

CY ..... Calendar Year

D&D ..... Decontamination and Decommissioning
DFDPO ..... Defense Facilities Decommissioning Program Office
DIL ..... Drainable Interstitial Liquid
DOE-HQ ..... U.S. Department of Energy - Headquarters
DOE-RL ..... U.S. Department of Energy - Richland Operations Office
DPRR ..... Decommissioning Project Readiness Review
DSS ..... Double-Shell Slurry
DST ..... Double-Shell Tank
DW/ER ..... Defense Waste and Environmental Restoration
DWP ..... Detailed Work Procedure
DWIP ..... Dangerous Waste Implementation Plan
DWMP ..... Defense Waste Management Plan
DWPF ..... Defense Waste Processing Facility

EAC ..... Estimate at Completion
Ecology ..... Washington State Department of Ecology
EIS ..... Environmental Impact Statement
EPA ..... Environmental Protection Agency
ERRA ..... Environmental Restoration Remedial Action
ES ..... Enginering Study

FDC ..... Functional Design Criteria
FOMP ..... Field Office Management Plan
FOWP ..... Field Office Work Proposal
FS ..... Feasibility Study
FSAR ..... Final Safety Analysis Report
FY ..... Fiscal Year
FYTD ..... Fiscal Year-to-Date

GE ..... Grout Equipment
GF ..... Grout Facility

Defense Waste/Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
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Abbreviations and Acronyms

GF ..... Funding related to DW/ER
GMP ..... Gable Mountain Pond
GPP ..... General Plant Project
GSA ..... General Services Administration
GTF ..... Grout Treatment Facility

HAZWMP ..... Hazardous Waste Management Plan
HDW-EIS ..... Hanford Defense Waste-Environmental
..... Impact Statement
HEC ..... Hanford Environmental Compliance
HEHF ..... Hanford Environmental Health Foundation
HEIS ..... Hanford Environmental Information System
HEME ..... High-Efficiency Mist Eliminator
HEMP ..... Hanford Environmental Management Plan
HIP ..... Hanford Inventory Program
HLAN ..... Hanford Local Area Network
HMID ..... Hanford Material Inventory Data Base
HRA ..... Hanford Remedial Action
HSFP ..... Hanford Surplus Facilities Program
HSWMU ..... Hanford Site Waste Management Units
HSWPAP ..... Hanford Site-Wide Performance Assessment
..... Program
HTAC ..... HEIS Technical Advisory Committee
HVAC ..... Heating, Ventilation, and Air Conditioning
HWMP ..... Hanford Waste Management Plan
HWMTP ..... Hanford Waste Management Technology Plan
HWVP ..... Hanford Waste Vitrification Plant

IDB ..... Integrated Database
INEL ..... Idaho National Engineering Laboratory
IRM ..... Information Resource Management
IX ..... Ion Exchange

K ..... Thousands of Dollars
KEH ..... Kaiser Engineers Hanford
KEI ..... Kaiser Engineers International

LANL ..... Los Alamos National Laboratories
LAR ..... Letter Analysis Report
LERF. . . . . Liquid Effluent Retention Facility
LLBG ..... Low-Level Burial Ground
LOE ..... Level of Effort
LSIS ..... Large-Scale Information System
LSSS ..... Large-Scale Scientific System

MAP ..... Management Action Plan
ModuTank ..... Temporary, smaller storage tanks
MOU ..... Memorandum of Understanding
MS ..... Milestone

NAS ..... National Academy of Science
NCAW ..... Neutralized Current Acid Waste
NCRW ..... Neutralized cladding removal waste
NEPA ..... National Environmental Policy Act
NOD ..... Notice of Deficiency
NPH ..... Normal Paraffin Hydrocarbon
NRDWL ..... Nonradioactive Dangerous Waste Landfill
NSTF ..... Near-Surface Test Facility
NWHWC ..... NorthWest Hazardous Waste Research Development &
..... Demonstration Center

OAC ..... Official Acceptance of Construction
ODFDP ..... Office of Defense Facilities Decommissioning Programs
ODIS ..... Onsite Discharge Information Report
OSHA ..... Occupational Safety & Health Act

Defense Waste/Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
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Abbreviations and Acronyms

ORNL ..... Oak Ridge National Laboratory
OSS ..... Operational Services Support
OTP ..... Operability Test Procedure
OU ..... Operable Unit
PA ..... Performance Assessment
PAP ..... Performance Assessment Plan
PCB ..... Polychlorinated biphenyl
PFP ..... Plutonium Finishing Plant
PHP ..... Pneumatic Hydropulse
PMS ..... Project Master Schedule
PNL ..... Pacific Northwest Laboratory
PSCM ..... Pilot-Scale Ceramic Melter
PSAR ..... Preliminary Safety Analysis Report
PSE ..... Preliminary Safety Evaluation
PSW ..... Phosphate/Sulfate Waste
PTSO ..... Projects Technical Support Office
PUREX ..... Plutonium and Uranium Extraction Reduction
..... Facility

QA ..... Quality Assurance
QARD ..... Quality Assurance Requirements Document
QWP ..... Quarterly Waste Projections

RCD ..... Reference Conceptual Design
RCDR ..... Reference Conceptual Design Report
RCR ..... Review Comment Record
RCRA ..... Resource Conservation and Recovery Act
RD&D ..... Research Development & Demonstration
RDDT&E ..... Research Development Demonstration Testing
..... & Evaluation
RI ..... Remedial Investigation
RI/FS ..... Remedial Investigation/Feasibility Study
ROD ..... Record of Decision
RPR ..... Radiation Problem Report
RPT ..... Radiation Protection Technologist
RSI ..... Radiation Sterilizers, Inc.
RMW ..... Radioactive Mixed Waste
RWP ..... Radiation Work Procedure

SAR ..... Safety Analysis Report
SARA ..... Superfund Amendments and Reauthorization Act
SCADA ..... Supervisory Control and Data Acquisition System
SCR ..... Site Characterization Report
SOW ..... Statement of Work
SR ..... Savannah River
SRDR ..... Supplement Design Requirement Document
SRS ..... Savannah River Site
SSDP ..... Shippingport Station Decommissioning Project
SST ..... Single-Shell Tank

TCE ..... Trichloroethylene
TGE ..... Transportable Grout Equipment
TGF ..... Transportable Grout Facility
Tri-Party Agreement ..... Hanford Federal Facility Agreement &
..... Consent Order
TPP ..... Technical Program Plan
TRG ..... Technical Review Group
TRU ..... Transuranic
TRUEX ..... Transuranic Extraction
TRUSAF ..... Transuranic Storage and Assay Facility
TSD ..... Treatment, Storage, and Disposal

UST ..... Underground Storage Tank

WAPS ..... Waste Acceptance Preliminary Specification
WBS ..... Work Breakdown Structure

Abbreviations and Acronyms

WCP .....Waste Compliance Plan
WESF .....Waste Encapsulation and Storage Facility
Westinghouse Hanford.....Westinghouse Hanford Company
WFQ .....Waste Form Qualification
WIDS .....Waste Information Data System
WIPP .....Waste Isolation Pilot Plant
WQR.....Waste Form Qualification Report
WRAP.....Waste Receiving and Processing Facility
WSCF .....Waste Sampling and Characterization Facility
WVDP.....West Valley Demonstration Project
WVP .....Waste Volume Projections

Definitions

Budgeted Cost of Work Scheduled
(BCWS) is the planned value for work that is scheduled in a given time period. The BCWS is expressed in dollars per time period. It is the plan against which progress is measured

Budgeted Cost of Work Performed
(BCWP) is the value of work actually completed during the measurement period. It is equal to the planned value for the work which was finished.

Actual Cost of Work Performed
(ACWP) is the actual applied or accrued costs incurred within a given time period. The ACWP includes labor, material, and other direct costs, together with the associated overheads. These costs are reported via time cards, invoices, vouchers, etc., depending upon the type of cost and its source.

Estimate At Completion
(EAC) is a point estimate of the final cash requirements for any particular program/project or portion thereof. It is the sum of the actual costs to date plus a forecast of the cost of authorized work remaining.

Schedule Variance
(SV) equals BCWP minus BCWS. Schedule variance indicates whether more or less work was done than was scheduled to be done. A positive SV indicates work is ahead of schedule. A negative SV indicates the work is behind schedule.

Cost Variance
(CV) equals BCWP minus ACWP. Cost variance indicates whether the work actually performed cost more or less than it was planned to cost. A positive CV indicates less was spent than planned for the amount of work completed. A negative CV is over cost indicating more was spent than planned for the completed work.

Defense Waste/Environmental Restoration Programs
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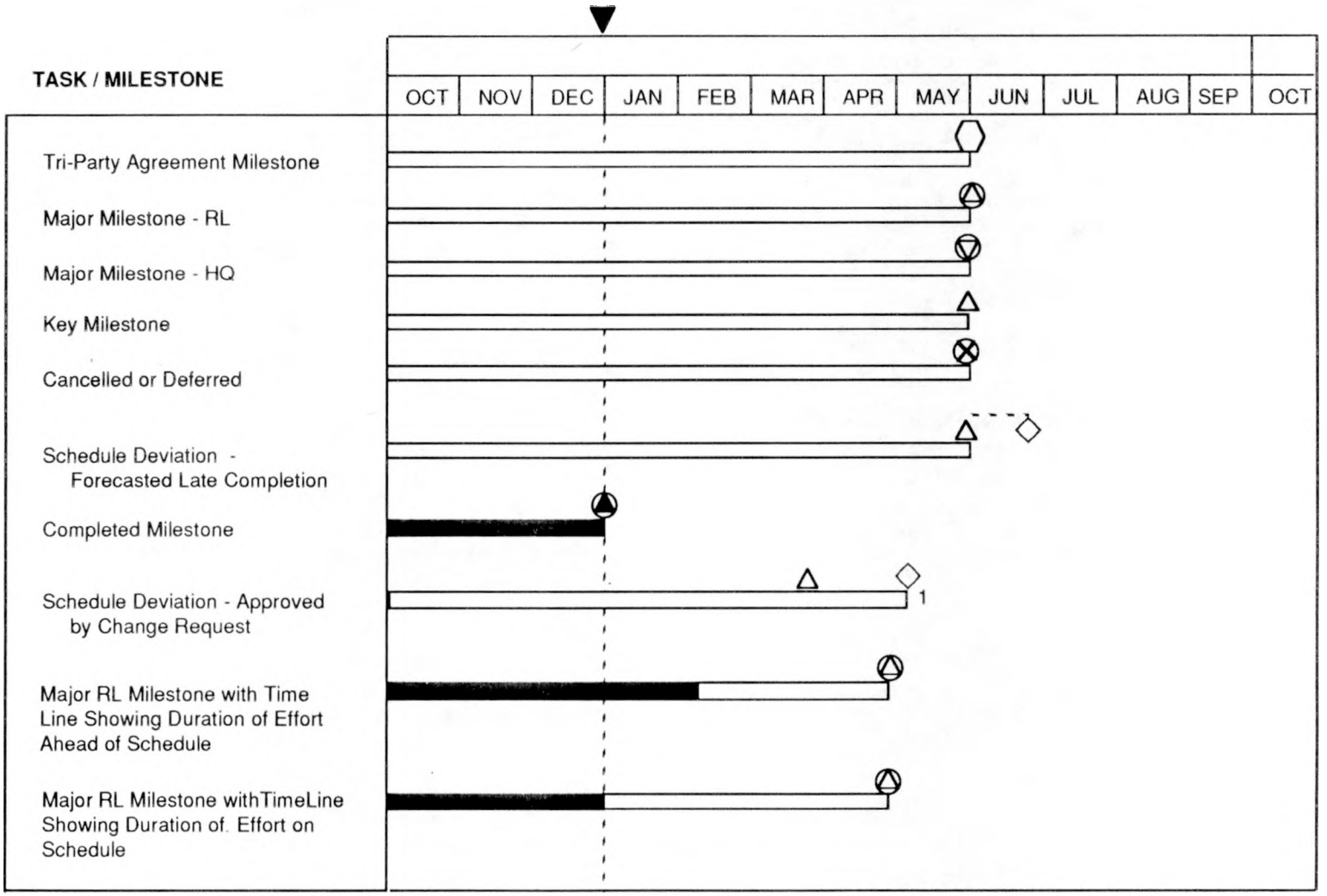
MILESTONE LEGEND



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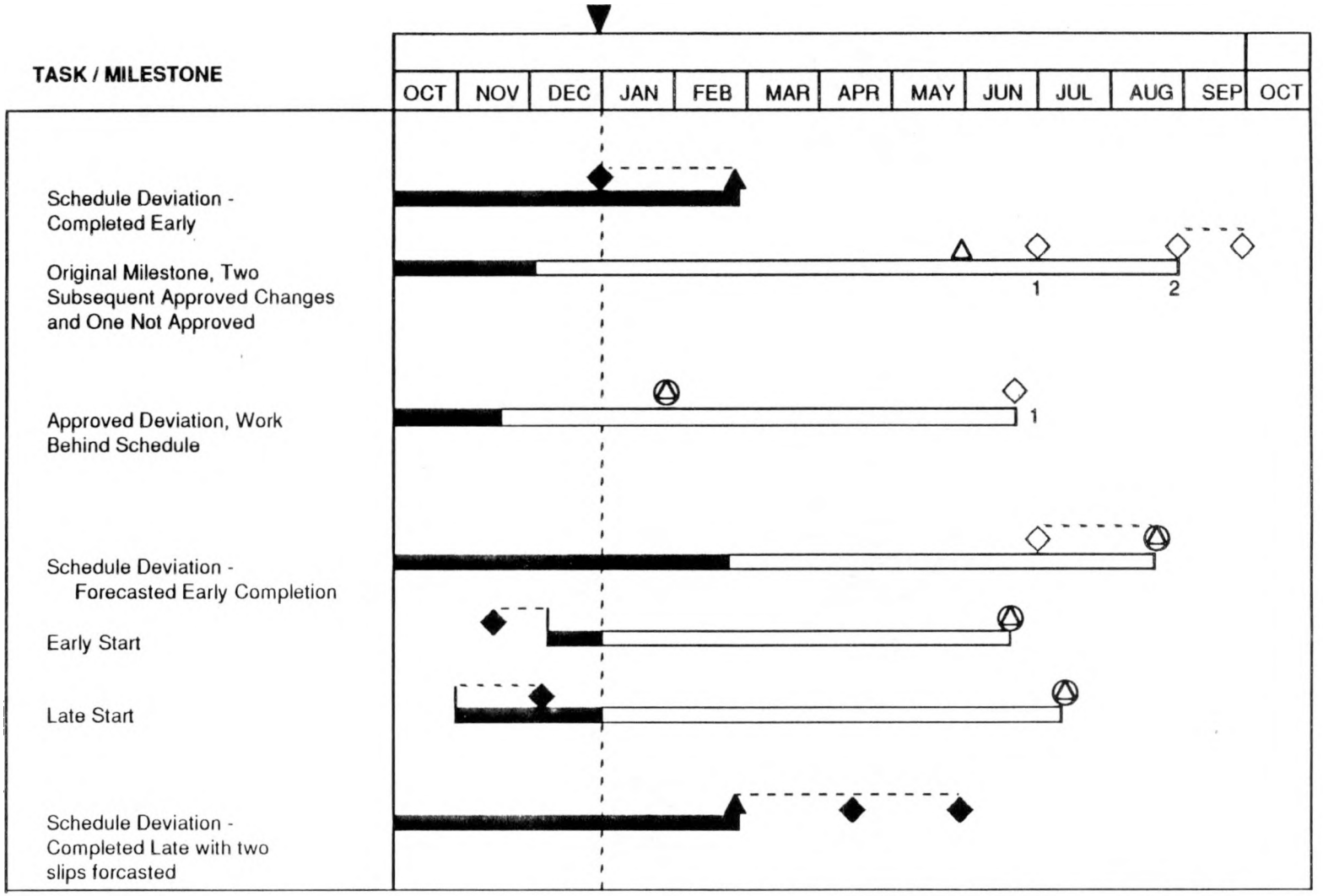
MILESTONE LEGEND



Defense Waste/Environmental Restoration Programs
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INTEGRATED TRI-PARTY AGREEMENT MILESTONE SUMMARY

NOTE: All dollars are Expense Funded ONLY - unless otherwise noted.

Defense Waste/Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
INTEGRATED TRI-PARTY AGREEMENT

January - March 1990
EXECUTIVE SUMMARY

The reporting presented herein provides a current status of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) from the perspective of financial performance.

The basis for the report is the workscope and work breakdown structure (WBS) associated with activity data sheets (ADS) which are prepared to support the U.S. Department of Energy-Headquarters (DOE-HQ) five-year planning process. This report reflects information as submitted in the April 25 submittal of the Five-Year Plan. As changes are made to the milestone assignation and to inclusion in the Tri-Party Agreement scope in the final approved plan, the information presented will also change.

The report format is intended to reflect the work assigned by program for the appropriate interim or major milestone. It will not reconcile to funding level, as a program may fund work that is not Tri-Party Agreement related or work that supports milestones that are the responsibility of another program. Only those activities identified as supporting a specific milestone or a special administrative tracking number are included in the report. Other high priority work not supporting a specific milestone, even though essential to completing the Tri-Party Agreement, is not included in this report.

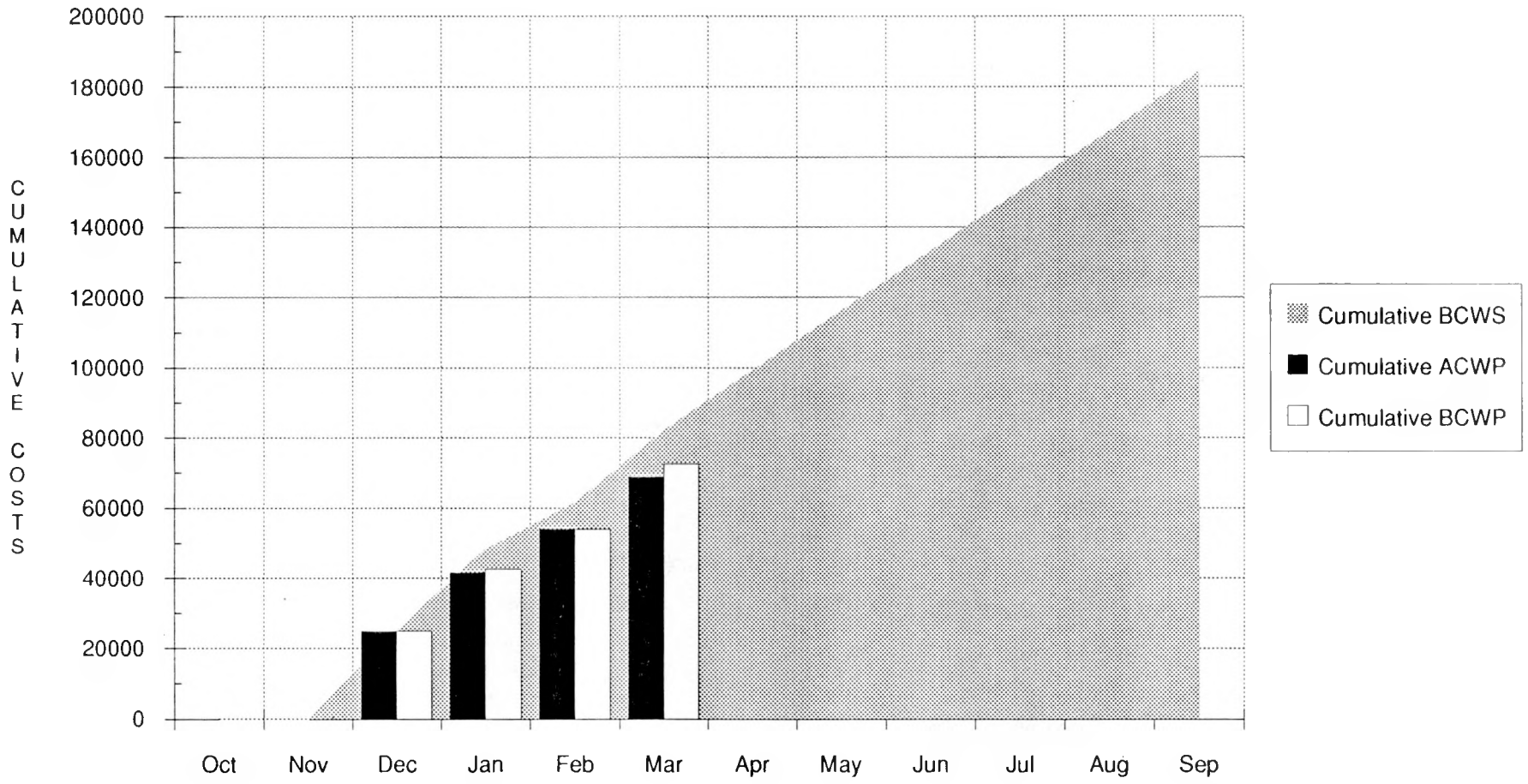
Currently, only expense-funded dollars are included in the report. Reconciliation for capital-funded dollars between year of authority and year of obligation is still being considered. It is the intent to add these in the future. Work for which the Pacific Northwest Laboratory (PNL) is responsible and directly funded is intended to be included in this report and will be in the future. March costs were not immediately available.

The following explains the milestone assignation. The control point for measurement of TPA planning, budgets, and cost is an individual ADS. In some cases, the workscope on a single ADS may support more than one milestone. For tracking purposes, each ADS supporting the Tri-Party Agreement is assigned to a single major milestone. The workscope supporting the ADS will be included in planning, budget, cost, and performance data for that milestone.

An assessment program provides for the payment to the Washington State Department of Ecology for their administration costs of the Tri-Party Agreement and for Westinghouse-Hanford Company costs of Tri-Party Agreement administration. Since Tri-Party Agreement administration is not directly related to any specific milestone, but is incremental as a consequence of the Tri-Party Agreement, such costs will be assigned an administrative tracking number of M-00 if not commingled with another milestone on an ADS.

L.L. Powers

Defense Waste/Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
INTEGRATED TRI-PARTY AGREEMENT MILESTONES
January - March 1990
($ 000s)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
BCWS			25053	48269	61454	82084						184275
ACWP			25053	41662	54161	68967						
BCWP			25053	42599	54084	72544						
Cost Var			0	937	-77	3577						
Sched Var			0	-5670	-7370	-9540						

Defense Waste/Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
INTEGRATED TRI-PARTY AGREEMENT MILESTONES
Defense Waste/Technology Programs - March 1990
($ in 000s)

MILESTONE	Fiscal Year-To-Date Budget (BCWS)	Cost (ACWP)	Earned Value (BCWP)	Cost Variance	Schedule Variance	FY 1990 Budget
M-01 ... Complete 14 Grout Campaigns of Double-Shell Tank Waste by 09/94 and Maintain Currency with Waste Feed Thereafter	13,470	8,930	9,978	1,048	(3,492)	33,183
M-02 ... B Plant Pretreatment	18,412	18,252	17,603	(649)	(809)	38,162
M-04 ... Provide Annual Reports of Tank Waste Treatability	40	45	32	(13)	(8)	63
M-05 ... Complete Single-Shell Tank Interim Stabilization	2,262	1,544	2,057	513	(205)	6,866
M-11 ... Complete Construction and Initiate Operations of Expanded Laboratory Hot Cells for High-Level RMW (Projects)	232	233	232	(1)	0	232
M-14 ... Complete Construction and Initiate Operations of a Low-Level Mixed Waste Laboratory (Projects)	1,867	1,785	1,845	60	(22)	3,228
M-17 ... Complete Liquid Effluent Treatment Facility and Upgrades for Phase I Effluents	5,940	4,909	5,151	242	(789)	9,330
M-18 ... Complete WRAP Module I Construction and Initiate Operations	652	351	606	255	(46)	2,884
M-19 ... Complete WRAP Module II Construction and Initiate Operations	0	0	0	0	0	0
M-20 ... Submit Part B Permit Applications or Closure Plans for All RCRA TSD Units	1,250	1,239	1,355	116	105	4,734
M-23 ... Achieve Compliance with Interim Status Requirements	239	143	201	58	(38)	405
M-24 ... Install RCRA Groundwater Monitoring Wells	0	0	0	0	0	0
M-25 ... Provide Annual Reports of Studies/Efforts that are in Progress to Identify Alternatives to Land Disposal of Radioactive Mixed Waste	117	53	117	64	0	248
TOTAL - Defense Waste Programs	44,481	37,484	39,177	1,693	(5,304)	99,335

NOTE: The status reports are sorted by the program ultimately responsible for the milestone, rather than the funding program. Totals are not intended to correlate to any program funding level.

Defense Waste/Environmental Restoration Programs
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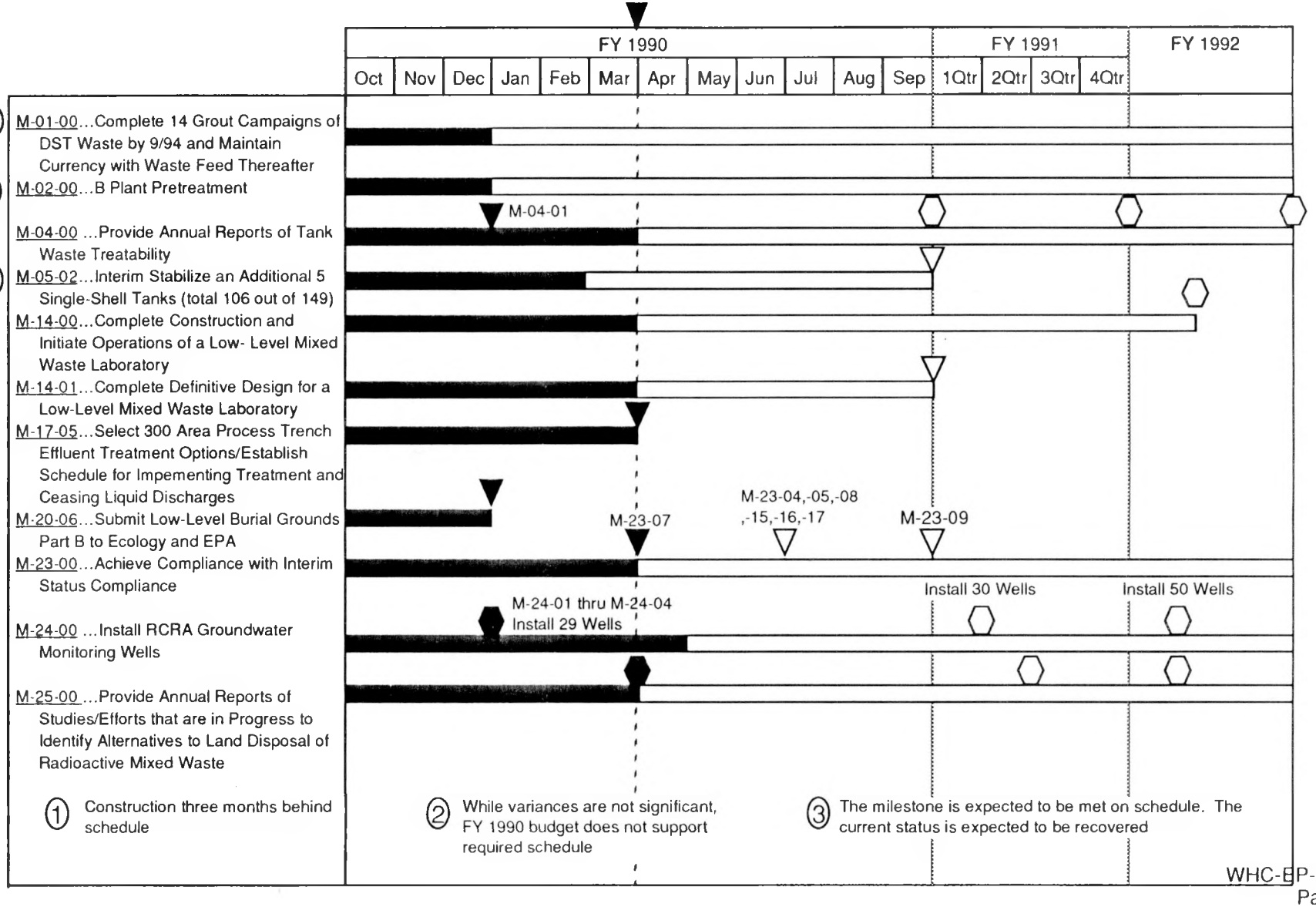
INTEGRATED TRI-PARTY AGREEMENT MILESTONES
Defense Waste/Technology Programs - March 1990



Defense Waste/Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
INTEGRATED TRI-PARTY AGREEMENT MILESTONES
Environmental Restoration Programs - March 1990
($ in 000s)

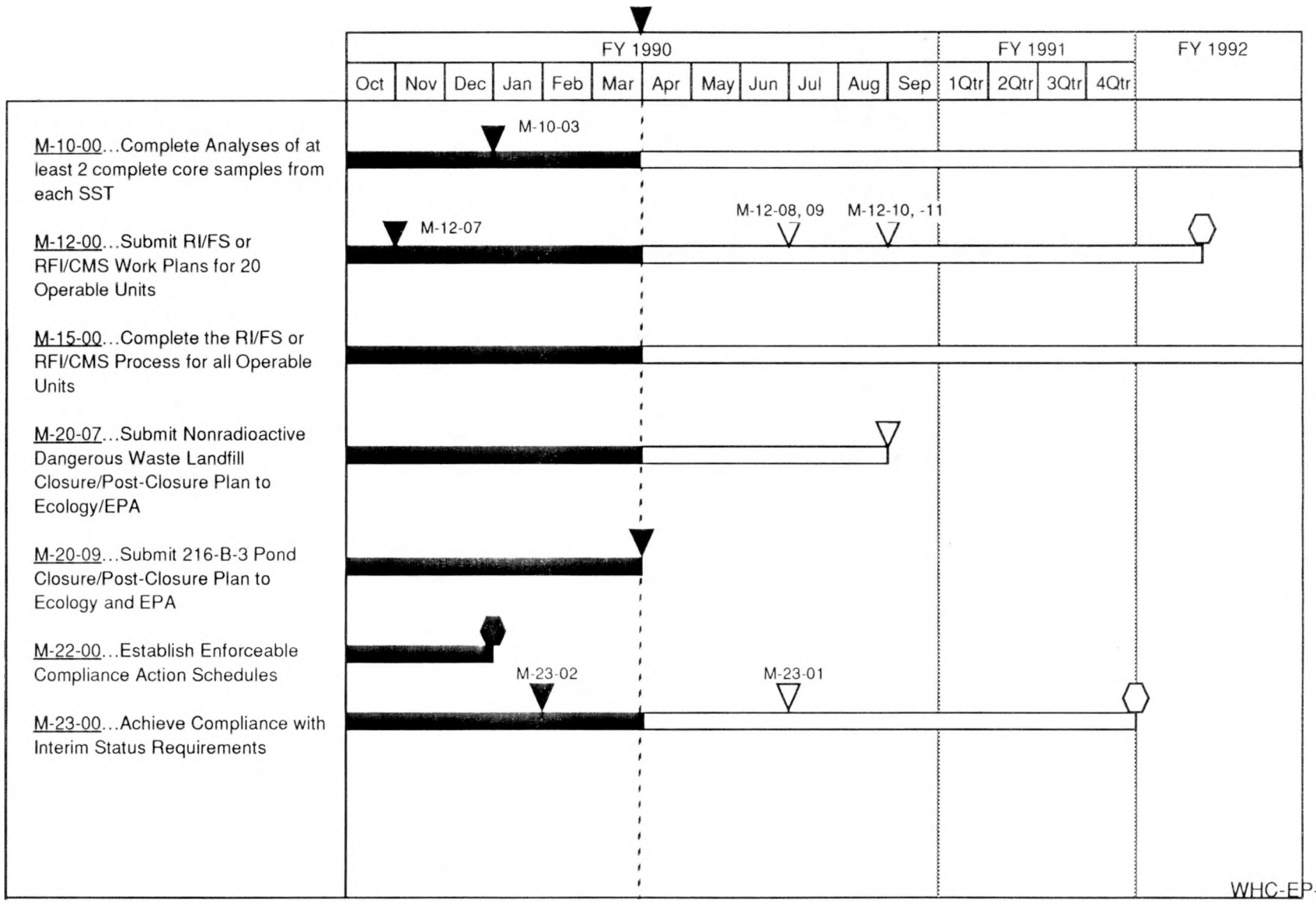
MILESTONE	Fiscal Year-To-Date Budget (BCWS)	Cost (ACWP)	Earned Value (BCWP)	Cost Variance	Schedule Variance	FY 1990 Budget
M-00 ... Tri-Party Agreement Administration	146	131	146	15	0	1,429
M-06 ... Develop Single-Shell Tank Waste Retrieval Technology and Complete Scale-Model Testing	0	0	0	0	0	0
M-07 ... Initiate Full-Scale Demonstration of Waste Retrieval Technology	2,335	1,555	2,016	461	(319)	6,677
M-08 ... Initiate Full-Scale Tank Farm Closure Demonstration Project	0	0	0	0	0	0
M-09 ... Complete Closure of all 149 Single-Shell Tanks	0	0	0	0	0	0
* M-10 ... Complete Analyses of at Least Two Complete Core Samples from Each Single-Shell Tank	4,816	5,126	4,282	(844)	(534)	8,373
M-12 ... Submit RI/FS or RFI/CMS Work Plans for 20 Operable Units	0	0	0	0	0	0
M-13 ... Submit Six RI/FS or RFI/CMS Work Plans	0	0	0	0	0	0
** M-15 ... Complete the RI/FS or RFI/CMS Process for all Operable Units	20,667	17,184	18,215	1,031	(2,452)	44,462
M-16 ... Complete the Remedial Actions for All Operable Units	0	0	0	0	0	0
M-17 ... Complete Liquid Effluent Treatment Facility/Upgrades for Phase I Effluents	1,738	909	929	20	(809)	2,156
M-20 ... Submit Part B Permit Applications or Closure Plans for All RCRA TSD Units	438	310	340	30	(98)	600
M-21 ... Submit RCRA Interim Status Compliance Assessments for All TSD	0	0	0	0	0	0
M-22 ... Establish Enforceable Compliance Action Schedules	0	0	0	0	0	0
M-23 ... Achieve Compliance with Interim Status Requirements (excluding Groundwater Monitoring and Closure Plans)	0	0	0	0	0	0
TOTAL - Environmental Restoration Programs	30,140	25,215	25,928	713	(4,212)	63,697

*M-10: The schedule for M-10-00 is statused in accordance with approved CR M-10-90-1 which reduces the required samples for CY 1990. The CR reduced the number of samples in the current year (the current schedule shows reduced number of samples). Associated program change EFE002-90 when approved will effect changes in the financial baseline which will eliminate the schedule variance.

**M-15: Midyear program CR E2G006-90 which adjusts funding levels for the approved program activities when approved will effect changes in the financial baseline which will eliminate the schedule variance.

NOTE: The status reports are sorted by the program ultimately responsible for the milestone, rather than the funding program. Totals are not intended to correlate to any program funding level.

Defense Waste/Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
INTEGRATED TRI-PARTY AGREEMENT MILESTONES
Environmental Restoration Programs - March 1990

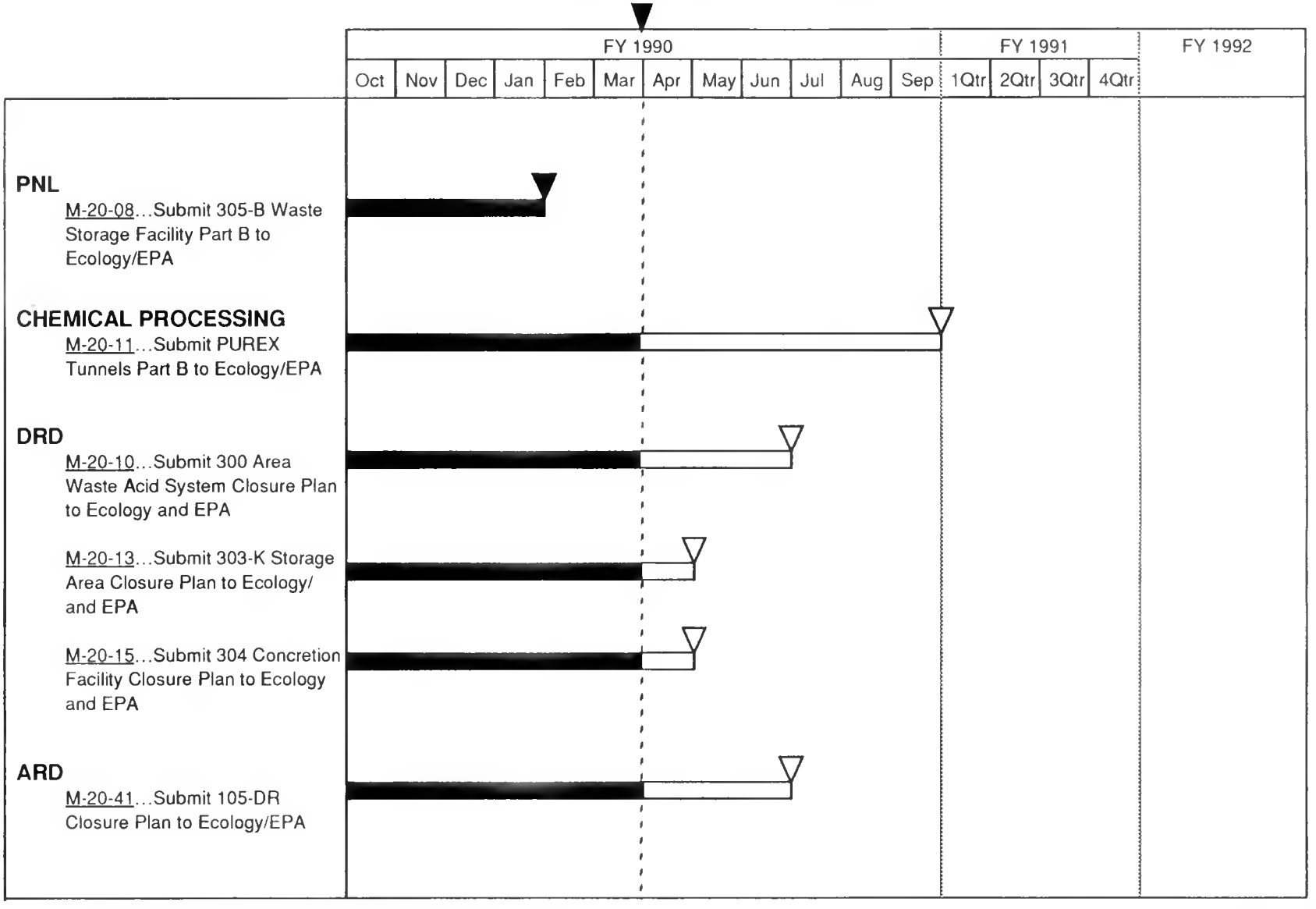


Defense Waste/Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
INTEGRATED TRI-PARTY AGREEMENT MILESTONES
Other Programs - March 1990
($ in 000s)

MILESTONE	Fiscal Year-To-Date Budget (BCWS)	Cost (ACWP)	Earned Value (BCWP)	Cost Variance	Schedule Variance	FY 1990 Budget
M-03 ... Initiate Hanford Waste Vitrification Operations	5,584	4,940	5,559	619	(25)	17,541
M-20 ... Submit Part B Permit Applications or Closure Plans for All RCRA TSD Units						
...ARD	101	67	101	33	0	191
...Chemical Processing	346	319	347	28	1	759
...DRD	878	519	878	359	0	1,515
M-23 ... Achieve Compliance with Interim Status Requirements (excluding Groundwater Monitoring and Closure Plans)						
...Chemical Processing	554	423	554	131	0	1,237
TOTAL - Other Programs	7,463	6,268	7,439	1,170	(24)	21,243
GRAND TOTAL	82,084	68,967	72,544	3,576	(9,540)	184,275

NOTE: The status reports are sorted by the program ultimately responsible for the milestone, rather than the funding program. Totals are not intended to correlate to any program funding level.

Defense Waste/Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
INTEGRATED TRI-PARTY AGREEMENT MILESTONES *
Other Programs - March 1990



* Includes Interims for FY 1990 and Major through FY 1992

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DEFENSE WASTE PROGRAMS

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Defense Waste Operations
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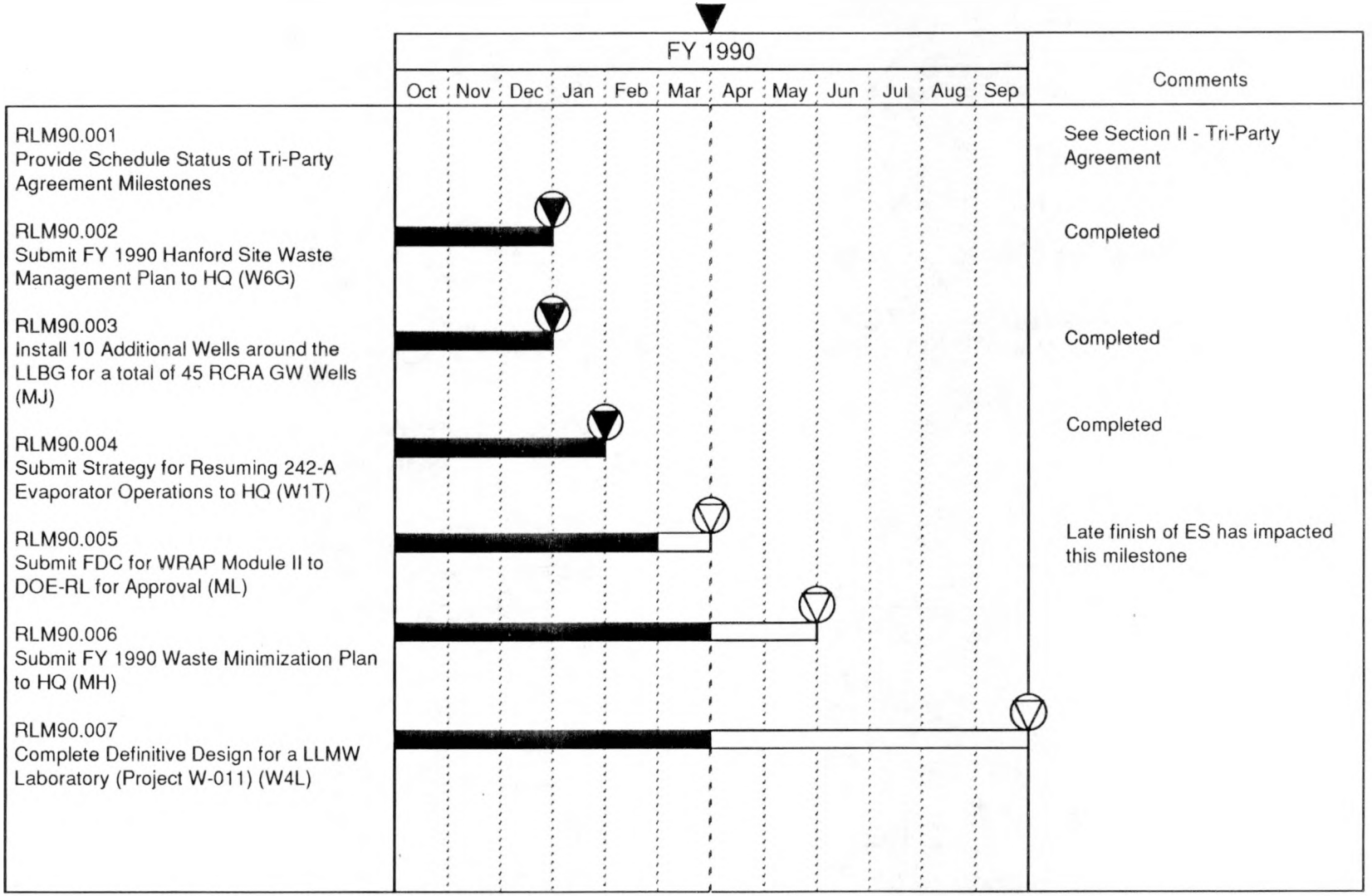
CURRENT FISCAL YEAR - HEADQUARTERS MILESTONES



Defense Waste Operations
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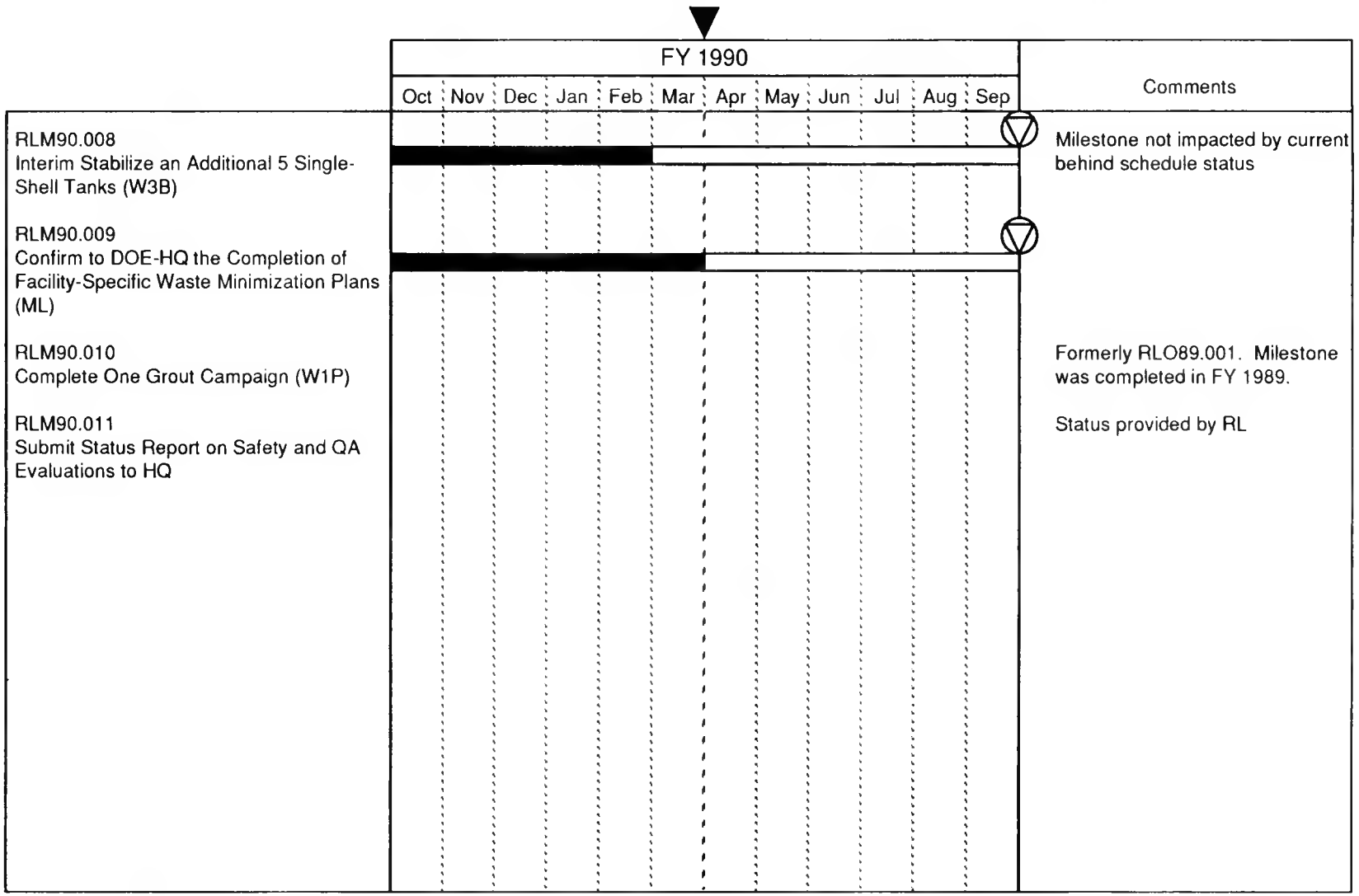
CURRENT FISCAL YEAR - HEADQUARTERS MILESTONES



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Defense Waste Programs Overview

FY 1990 FUNDING

Resolution of full funding for the Interim Retention Basins continues to be a high priority action. To date, the Liquid Effluent Retention Facility (LERF) is funded at the $7.4M level. Authorization for utilization of $4.6M CENRTC from Chemical Processing is expected from the U.S. Department of Energy-Richland Oprations Office (DOE-RL) in June. The remaining funding needed to complete the Interim Retention Basins will be transferred from existing baseline workscope yet to be determined.

Incremental funding of $1.4M to support activities on the hydrogen issue are being pursued with DOE-RL.

FY 1992 FIVE-YEAR PLAN

Updates of the FY 1992 Defense Waste and Environmental Restoration Five-Year Plan activitiy data sheets were transmitted to DOE-RL in February (2/6 and 2/28) and on March 29. These updates incorporated FY 1991 Bush budget targets as well as other DOE comments and guidance revisions. Final transmittal occured on April 26 and on May 3. Reviews of the Five-Year Plan funding workscope and requirements were conducted with the U.S. Department of Energy-Headquarters, Washington State Department of Ecology, and the U.S. Environmental Protection Agency during this period.

PROGRAM ACHIEVEMENTS

The 242-A Evaporator Restart: Effluent Retention, Treatment and Disposal Facilities Program Plan" was submitted in January to meet Department of Energy-Headquarters (DOE-HQ) (Washington, DC) milestone RLM90.004, "Submit Strategy for Resuming 242-A Evaporator Operations to DOE-HQ". The 242-A Evaporator and the Liquid Effluent Treatment Facility (LERF) Readiness Review Plan was approved on March 20.

The Westinghouse Hanford Company transmitted the functional design criteria (FDC) for Project W-E14, "241-AZ-101 Retrieval System Process Test," to the DOE-RL for approval as an expense-funded project. The project will provide development, design, and construction for installation and removal of tank equipment to support the conduct of the retrieval system process test in support of the DST waste disposal mission.

Grout vault construction is under way on DST waste disposal facilities. The placement of the diffusion barrier under the catch basins for vaults 102 through 105 is essentially complete.

The alternatives to land disposal of solid radioactive mixed wastes on the Hanford site document was transmitted two weeks ahead of schedule to the Washington State Department of Ecology (Ecology) and the U.S. Environmental Protection Agency (EPA) by the U.S. Department of Energy-Richland Operations Office (DOE-RL). This constitutes completion of the Hanford Federal Facility Agreement & Consent Order (Tri-Party Agreement [TPA]) milestone M-25-00.

Defense Waste Programs Overview

Project W-026, WRAP Facility Module 1, conceptual design plan for FY1990 advanced studies and design has been approved by the Westinghouse Hanford Company (Westinghouse Hanford) and Kaiser Engineers Hanford (KEH) and transmitted to DOE-RL.

All 149 single-shell tanks (SSTs) have been screened through 10 new criteria. On March 25 a team was organized to conduct a preliminary review of SSTs in order to determine if any of the tanks met four previously established criteria for vapor flammability potential. Screening of all SSTs produced a list of four tanks that met all of the criteria. Additional screening activities are continuing and stabilization activities on Tank 241-SX-104 are undergoing additional reviews due to hydrogen concerns.

Significant progress on the evaluation of the ferrocyanide explosion potential in SST wastes was made during the period. (PNL). Monthly temperature monitoring has been performed on the 22 tanks identified as ferrocyanide tanks. The highest tank temperature (136° F) is well below the minimum observed reaction temperature (428° F).

Since shipments have resumed from Decatur, Georgia, seventy-two special form capsules have been received at WESF. This leaves eight special form capsules remaining at Decatur for shipment to WESF. In addition, seventy-seven normal form capsules remain to be shipped at Decatur, Georgia.

Defense Waste Programs - Waste Operations
FY 1990 QUARTERLY STATUS
March 1990
FINANCIAL STATUS OVERVIEW
($ in 000s)

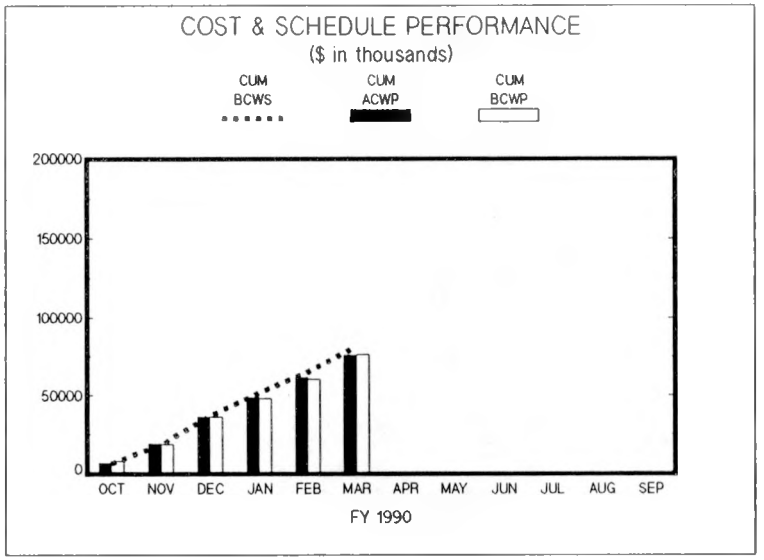
Waste Operations		Budget (BCWS)	Cost (ACWP)	Value (BCWP)	Cost Variance	Schedule Variance	Total Budget
1W1B	DST Operations and Maintenance	19,444	19,224	19,004	(220)	(440)	42,386
1W1D	Pretreatment	15,523	15,529	15,299	(230)	(224)	30,383
1W1H	Defense HLW Technology	3,283	2,840	2,726	(114)	(557)	8,285
1W1P	Grout Disposal Program	13,470	8,929	9,978	1,049	(3,492)	33,183
1W1T	Interim Retention Basins	1,920	1,870	1,870	0	(50)	2,600
1W1	Subtotal - DST Waste w/o 1W1H	50,357	45,552	46,151	599	(4,206)	108,552
	Subtotal - DST Waste with 1W1H	53,640	48,392	48,877	485	(4,763)	116,837
1W2	Solid Waste Management	1,484	1,075	1,366	291	(118)	5,019
1W3	Single-Shell Tank Waste	8,120	8,325	7,867	(458)	(253)	18,833
1W4A	Environmental Surveillance & Control	5,131	4,899	4,881	(18)	(250)	11,512
1W4L	Lab Upgrades	2,099	2,019	2,077	58	(22)	3,454
1W4X	Assessments	5,272	5,587	5,272	(315)	0	11,929
1W4	Subtotal - Environmental Support	12,502	12,505	12,230	(275)	(272)	26,895
1W5C	Cesium Capsule Recovery Effort	3,146	2,127	3,146	1,019	0	6,304
1W5E	WESF Storage & Surveillance	1,248	1,096	1,248	152	0	2,735
1W5	Subtotal - Capsules	4,394	3,223	4,394	1,171	0	9,039
1W6G	Planning and Technology	1,209	1,002	1,116	114	(93)	2,501
1W6L	Laboratories & Processes	3,083	3,085	3,083	(2)	0	7,270
1W6S	Inventories	(9)	1,016	(9)	(1,025)	0	725
1W6	Subtotal - Program Support	4,283	5,103	4,190	(913)	(93)	10,496
1W	Other	0	0	0	0	0	1,335
TOTAL WASTE OPERATIONS - w/o 1W1H		81,140	75,783	76,198	415	(4,942)	180,169
TOTAL WASTE OPERATIONS - with 1W1H		84,423	78,623	78,924	301	(5,499)	188,454

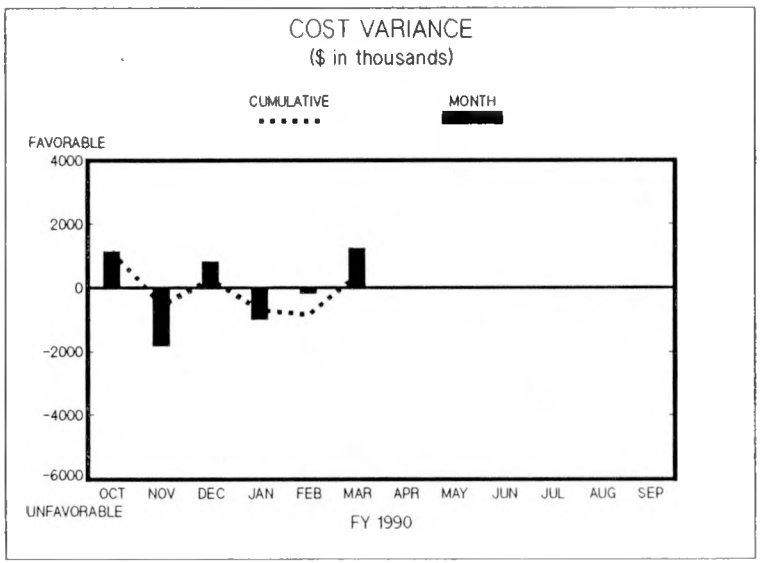
Defense Waste Programs - Technology and Assessment
FY 1990 QUARTERLY STATUS
March 1990
FINANCIAL STATUS OVERVIEW
($ in 000s)

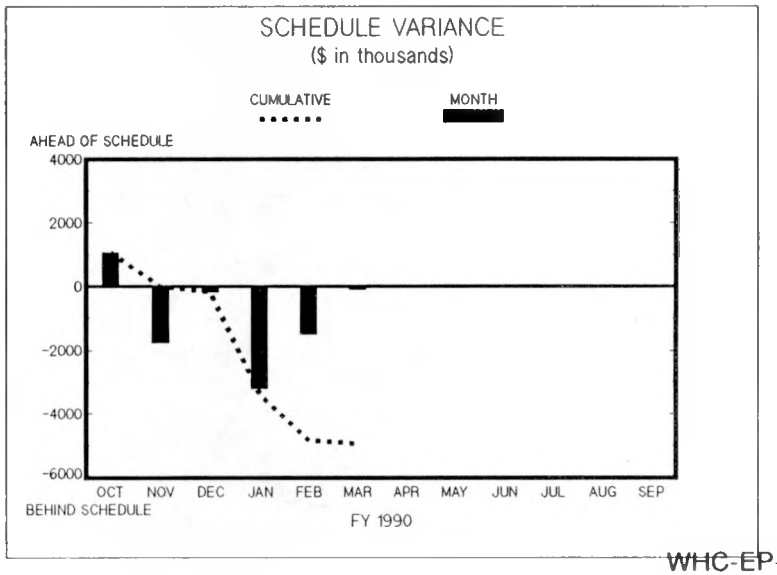
		Budget (BCWS)	Cost (ACWP)	Value (BCWP)	Cost Variance	Schedule Variance	Total Budget
1HX	Defense HLW Program Office	903	920	903	(17)	0	2,300
1HY	Defense Transuranic Waste Technology	22	7	8	1	(14)	105
1W1H	Defense HLW Technology	3,283	2,840	2,726	(114)	(557)	8,285
	TOTAL - Technology Programs...	4,208	3,767	3,637	(130)	(571)	10,690
	ASSESSMENT PROGRAMS						
* 1MJ	Environmental Monitoring Program						
	Operations...	6,201	5,681	6,038	357	(163)	11,598
	Liquidations...	(5,964)	(5,964)	(5,964)	0	0	(11,598)
* 1ML	Solid Waste Management						
	Operations...	8,082	6,647	7,228	581	(854)	18,379
	Liquidations...	(8,983)	(8,983)	(8,983)	0	0	(18,379)
* 1MS	340 Building Liquid Waste Operations						
	Operations...	879	714	879	165	0	1,804
	Liquidations...	(835)	(836)	(836)	0	(1)	(1,804)

* Excludes G&A and Service Assessment Overhead

DEFENSE WASTE OPERATIONS
MARCH 1990







DEFENSE WASTE OPERATIONS
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	7046	18460	37017	51594	65329	81140						180,119
	CUM ACWP	6958	19190	36551	48910	61331	75783						
	CUM BCWP	8121	18640	36847	48229	60484	76199						
	COST VAR	1163	-550	296	-681	-847	416						
	SCH VAR	1075	0	-170	-3365	-4845	-4941						

Cost Variance

See individual end function sections.

Schedule Variance

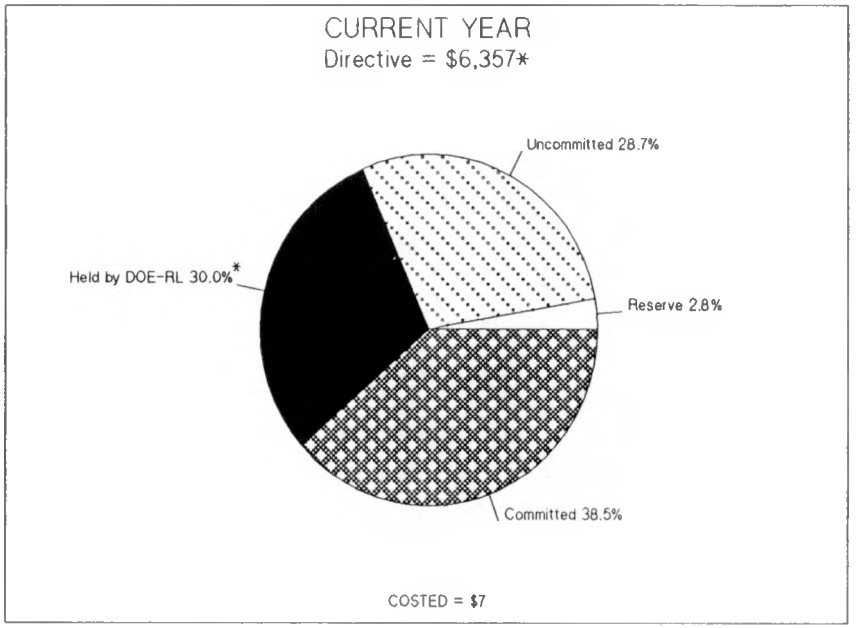
See individual end function sections.

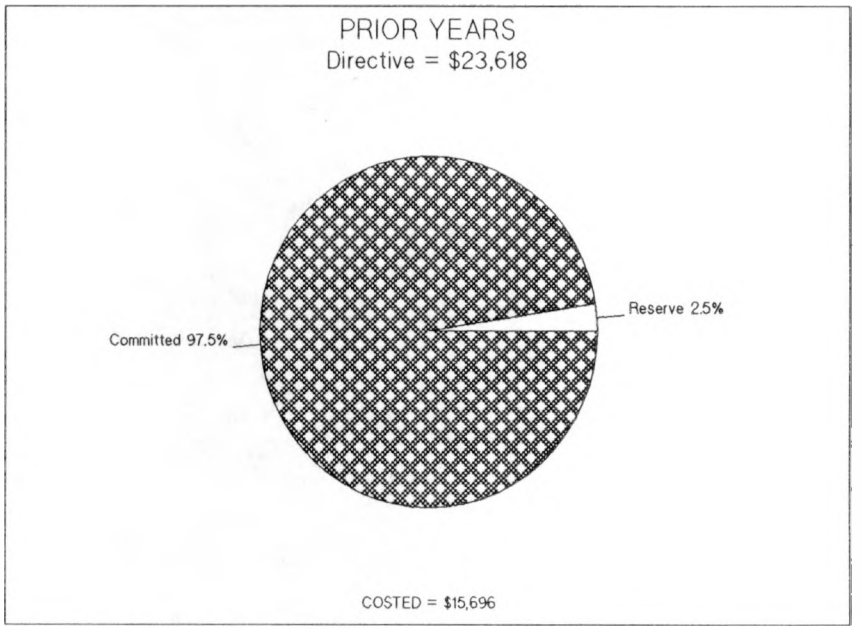
PROGRAM IMPACT/RECOVERY PLAN :

See individual end function sections.

Defense Waste Operations
FY 1990 QUARTERLY STATUS
March 1990

Capital Equipment Not Related to Construction
($ in 000s)
B&R Code: 35GF7301, Waste Management





*Funding received to date = $4,446. Remainder expected in April Financial Plan

Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Capital Equipment Not Related to Construction

($ in 000s)
B&R Code: 35GF7301, Waste Management

CENRTC Commitment Performance

	DOE Directive	Planned Committed	Actual Committed	Variance	% of Directive Committed
Current Year	$6,357	$2,449	$2,449	$0	38.5%
Prior Year	$23,618	$23,039	$23,039	$0	97.5%
TOTAL	$29,975	$25,488	$25,488	$0	85.0%

CENRTC Spending Performance

	Budget	Actual Cost	Variance
Current Year	$95	$7	$88
Prior Year	$17,268	$15,696	$1,572
TOTAL	$17,363	$15,703	$1,660

Commitment Variances

Current Year

No variance.

Partial funding ($4,446) was received December 2, 1989. The remainder is expected in the April Financial Plan.

CONCERN: Clarification of FY 1990 funding guidance, received from DOE-RL at the end of March, indicates $443 of the total Directive expected for FY 1990 ($6,357) is slated for Waste Research, Development, & Demonstration (RD&D). Previous communication with DOE-RL (beginning December 1989) indicated the $443 RD&D funding had not yet been received from DOE-HQ, but when received, would be in addition to the $6,357. This funding clarification impacts FY 1990 cost account planning currently in progress and will cause several Capital Equipment items to be deferred to FY 1991. This in turn will have a bow-wave effect in outyears. Impacts of this recent clarification have not been factored into out-year planning (Five-Year Plan).

An enhanced method of prioritizing, authorizing, and planning cost acounts is in process. Commitment of the majority of current year funding is expected in April.

Prior Year

No variance.

Approximately five percent of the U. S. Department of Energy Directive is held in Program Management Reserve to fund newly identified critical Capital Equipment needs and to cover potential cost overruns of existing accounts.

Spending Variances

Current Year

The spending variance is $88 for the following reasons:

1. Preparation of purchase requisitions, the inspection plan, and Acceptance Test Procedure (ATP) for the Cell 18 Instrument Upgrade were all scheduled and budgeted to begin on February 1. However, actual authorization of work and funding was not received by the Plant until March 7, due to ongoing cost account negotiations.
2. The Air End Compressor for B Plant has been received, but not yet costed ($30). Next month's cost processing will eliminate the associated variance.

Prior Year

The spending variance is $1,572 for the following reasons:

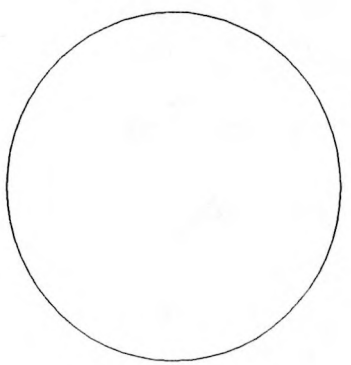
1. Two Neutralized Current Acid Waste (NCAW) mixer pumps were recently determined to be prototypical systems, to be funded expense, not capital. A Change Request should be approved in April to cancel/abandon the cost accounts and reallocate the funds to other critical capital equipment needs.
2. Two asset accounts for Pumps, Motors, and Agitators are currently underspent. However, purchase requisitions for several pumps are in place with the bids due back by April 9 which will eliminate most of the variance.
3. An account for two Spare Pumps is also underspent due to the failure of the first spare pump to operate correctly during a test run. Modifications are currently being made, and both pumps should be delivered and costed in one to two months.
4. The Double-Shell Tank Retrieval Equipment cost account has been put on hold by the Department of Energy - Richland Operations Office (DOE-RL). The DOE-RL has halted all retrieval work relating to Project W-E14 until the workscope has been officially accepted and approved by the DOE-RL.
5. Procurement of Storage Modules has been delayed by the identification of additional requirements for safety documentation. The additional safety documentation is currently being worked.

The Department of Energy Directive for prior years has been adjusted to subtract funding related to years in which all activities have been completed. Prior years include FY 1983 through FY 1988.

Defense Waste Operations
FY 1990 QUARTERLY STATUS
March 1990

Capital Equipment Not Related to Construction
($ in 000s)
B&R Code: 35GF7101, Corrective Activities

CURRENT YEAR
Directive = $249*



PRIOR YEARS

N/A

*Funding not yet received. Expected in April Financial Plan.

Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Capital Equipment Not Related to Construction
($ in 000s)
B&R Code: 35GF7101, Corrective Activities

CENRTC Commitment Performance

	DOE Directive	Planned Committed	Actual Committed	Variance	% of Directive Committed
Current Year	$249	$0	$0	$0	0.0%
Prior Year	$0	$0	$0	$0	0.0%
TOTAL	$249	$0	$0	$0	0.0%

CENRTC Spending Performance

	Budget	Actual Cost	Variance
Current Year	0	0	0
Prior Year	0	0	0
TOTAL	0	0	0

Commitment Variances

Current Year

Funding not yet received ($249,000 anticipated in the April Financial Plan). Cost account planning for Ignitable Storage Modules for the Solid Waste Program is in progress.

Prior Year

Not applicable.

Spending Variances

Current Year

Funding not yet received ($249,000 anticipated in the April Financial Plan). Cost account planning for Ignitable Storage Modules for the Solid Waste Program is in progress.

Prior Year

Not applicable.

Defense Waste Programs

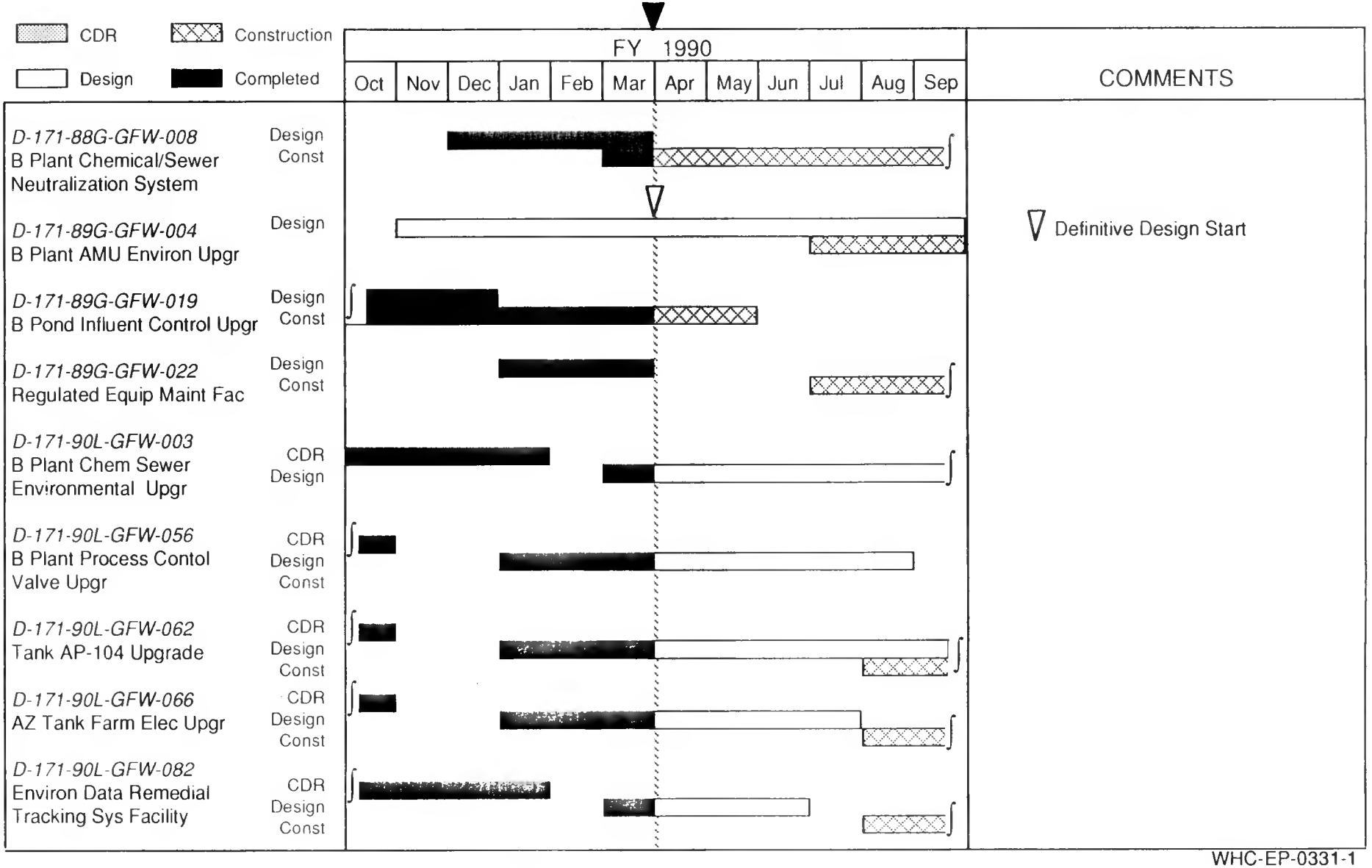
GENERAL PLANT PROJECTS

March 1990

($ in 000s)

Project Number	Title	TEC	Funding (B/A) FY 1990 & Prior	Cost To Date	Commitments To Date	Total to Date
FY 1988						
D-171-88G-GFW-008	B Plant Chemical/Sewer Neutralization Sys	1,040	766	339	94	433
FY 1989						
D-171-89G-GFW-004	B Plant AMU Environmental Upgrade	820	820	13	127	140
D-171-89G-GFW-019	B Pond Influent Control Upgrade	700	700	0	0	0
D-171-89G-GFW-022	Regulated Equipment Maintenance Facility	1,160	1,160	29	77	106
	Subtotal FY 1989...		2,680	42	204	246
FY 1990						
D-171-90L-GFW-003	B Plant Chemical Sewer Environ Upgrades	850	850	0	0	0
D-171-90L-GFW-056	B Plant Process Control Valve Upgrade	1,200	500	0	0	0
D-171-90L-GFW-062	Tank AP-104 Upgrade	1,200	1,200	0	0	0
D-171-90L-GFW-066	AZ Tank Farm Electrical Upgrade	970	970	8	132	140
D-171-90L-GFW-082	Environ Data Remedial Tracking Sys Facility	1,100	600	0	0	0
	Subtotal FY 1990...		4,120	8	132	140

Defense Waste Programs
GENERAL PLANT PROJECTS
Project Status



Defense Waste Programs

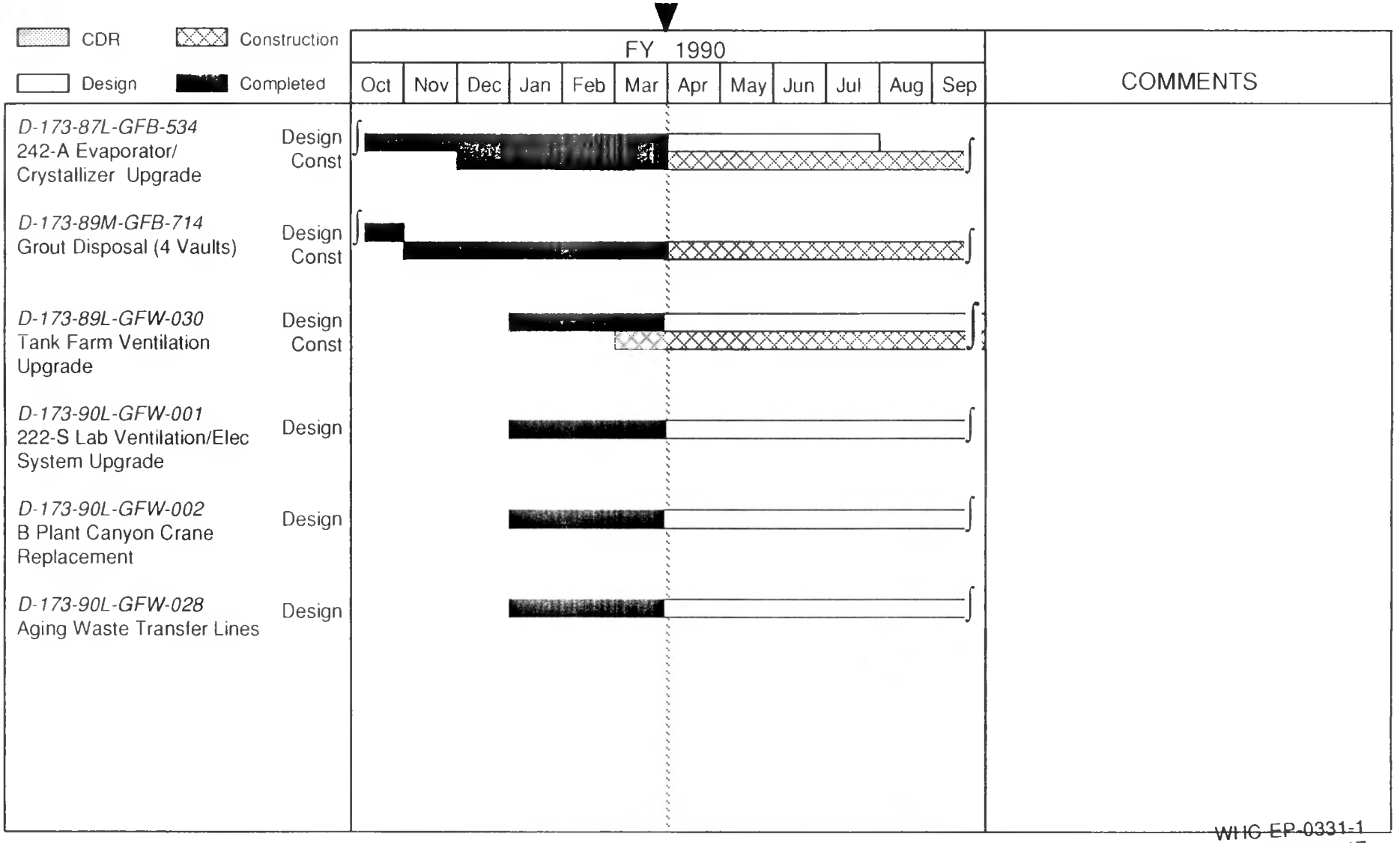
LINE ITEM PROJECTS

March 1990

($ in 000s)

Project Number	Title	TEC	Funding (B/A) FY 1990 & Prior	Cost To Date	Commitments To Date	Total to Date
FY 1987						
D-173-87L-GFB-534	242-A Evaporator/Crystallizer Upgrade	15,600	12,600	8,230	2,733	10,963
FY 1989						
D-173-89M-GFB-714	Grout Disposal (4 Vaults)	25,800	6,760	3,384	3,386	6,770
D-173-89L-GFW-030	Tank Farm Ventilation Upgrade	24,600	17,200	1,556	178	1,734
	Subtotal FY 1989...		23,960	4,940	3,564	8,504
FY 1990						
D-173-90L-GFW-001	222-S Lab Ventilation/Elec Sys Upgrade	6,300	1,100	0	0	0
D-173-90L-GFW-002	B Plant Canyon Crane Replacement	12,600	1,500	55	613	668
D-173-90L-GFW-028	Aging Waste Transfer Lines	12,500	1,300	16	0	16
	Subtotal FY 1990...		3,900	71	613	684

Defense Waste Programs
LINE ITEM PROJECTS
Project Status



Defense Waste Programs

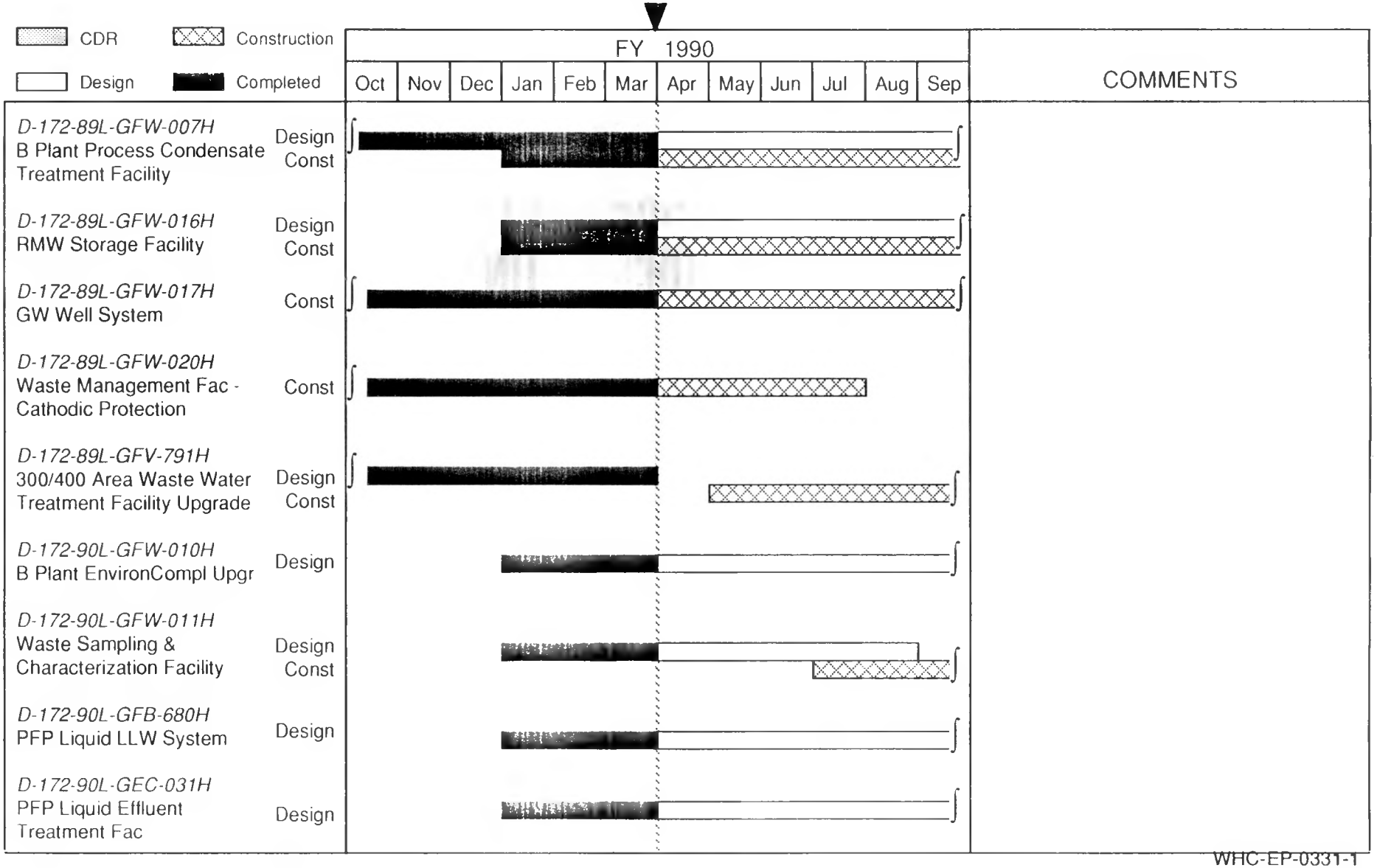
HANFORD ENVIRONMENTAL COMPLIANCE PROJECTS

March 1990

($ in 000s)

Project Number	Title	TEC	Funding (B/A) FY 1990 & Prior	Cost To Date	Commitments To Date	Total to Date
FY 1989						
D-172-89L-GFW-007H	B Plant Process Condensate Treatment Facility	14,700	10,100	2,095	73	2,168
D-172-89L-GFW-016H	Radioactive Mixed Waste Storage Facility	8,700	3,300	394	1,485	1,879
D-172-89L-GFW-017H	Groundwater Monitoring Well System	12,000	6,200	3,101	334	3,435
D-172-89L-GFW-020H	Waste Management Facility - Cathodic Protection	6,700	6,700	2,780	742	3,522
D-172-89L-GFV-791H	300/400 Area Waste Water Treatment Facility Upgrades	1,500	1,500	143	32	175
	Subtotal FY 1989...		27,800	8,513	2,666	11,179
FY 1990						
D-172-90L-GFW-010H	B Plant Environmental Compliance Upgrades	3,500	800	38	326	364
D-172-90L-GFW-011H	Waste Sampling & Characterization Facility	16,600	6,300	434	559	993
D-172-90L-GFB-680H	PFP Liquid LLW System	5,800	1,500	58	7	65
D-172-90L-GEC-031H	PFP Liquid Effluent Treatment Facilities	18,000	3,300	57	18	75
	Subtotal FY 1990...		11,900	587	910	1,497

Defense Waste Programs
HANFORD ENVIRONMENTAL COMPLIANCE PROJECTS
Project Status



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Double-Shell Tank Operations and Maintenance - W1B
GF-73-01-97, GF-73-01-96, GF-71-01-86-4

OBJECTIVE: Receive, store and process liquid wastes. Reduce liquid inventories by evaporator/crystallization processing. Operate and maintain Double-Shell Tank (DST) Farms. Provide and analyze surveillance data, initiate corrective action when required, and maintain monitoring equipment. Provide capital equipment and construction project upgrades to support continued missions.

- Level II schedules for the DST Operations and Maintenance (W1B) end functions were completed, approved, and submitted to the U.S. Department of Energy-Richland Operations Office (DOE-RL).

- DOE-RL comments on the Program Plan, "The 242-A Evaporator Restart: Effluent Retention, Treatment and Disposal Facilities Program Plan", were incorporated and the plan published in March. The plan had been submitted in January to meet Department of Energy-Headquarters (DOE-HQ) (Washington, DC) Milestone RLM90.004, "Submit Strategy for Resuming 242-A Evaporator Operations to DOE-HQ".

- The B-534 Evaporator upgrades construction schedule is continuing to slip due to procurement and issues concerning the spare EC-1 condenser. Kaiser Engineers Hanford Company (KEH) has assigned a dedicated team to rectify the procurement issues, while Westinghouse Hanford Company is working toward resolution of the EC-1 issues. The removal of pumps and jumpers is nearly complete and significant progress is being made on the installation of the new control system wiring.

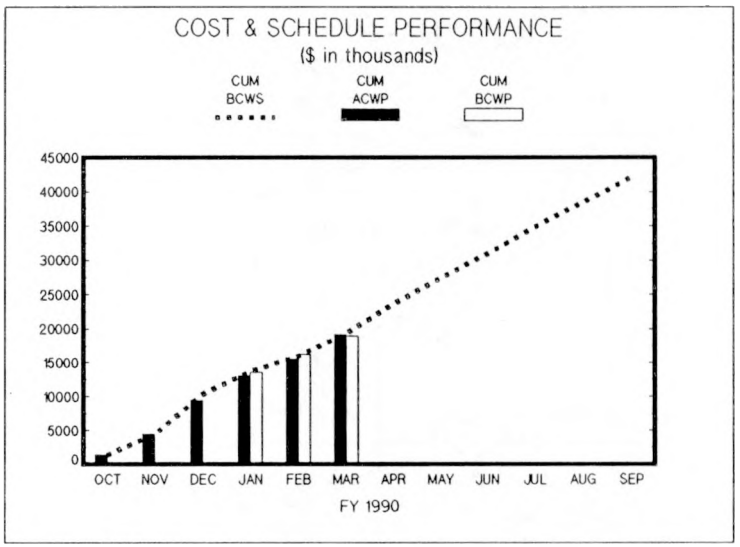
- The 242-A Evaporator and the Liquid Effluent Treatment Facility (LERF) Readiness Review Plan was approved on March 20.

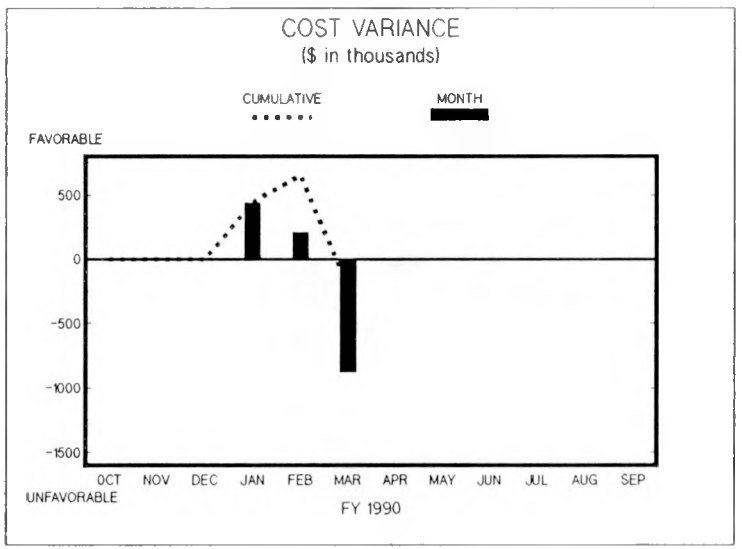
- The W1B Fiscal Year (FY) 1992 Five-Year Plan Activity Data Sheets (ADSs) were approved by Westinghouse Hanford Company and DOE-RL for transmittal to DOE-HQ on March 29.

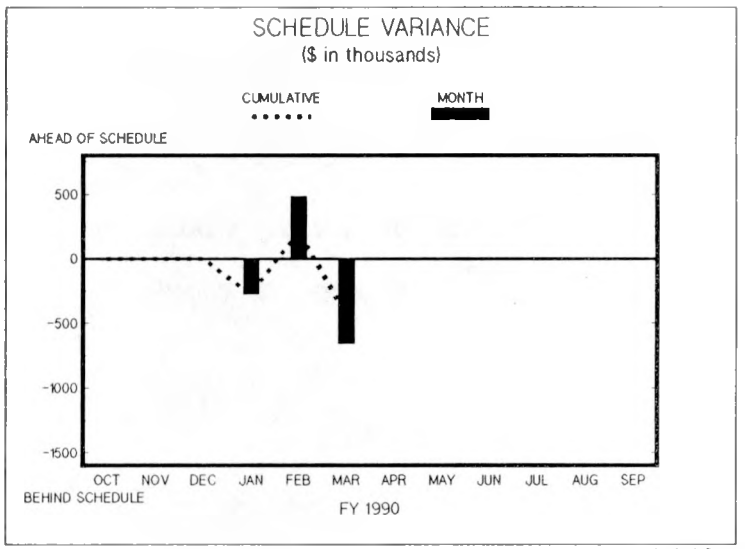
- The W1B FY 1990 Program Plan schedules and text were completed and submitted for incorporation in the March 1990 Defense Waste Management and Environmental Program Plan.

- A hydrogen gas sampler was installed and put online on March 20 at Tank 101-SY. Samples were analyzed on a "gas chromatograph" and showed less than one-tenth of one percent hydrogen. The hydrogen issue has diverted resources and staff from currently planned DST activities.

DST OPERATIONS AND MAINTENANCE - W1B
MARCH 1990







DST OPERATIONS AND MAINTENANCE - W1B
MARCH 1990

$ in thousands	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	1440	4535	10347	13784	16073	19444	23704	27461	31033	34973	38448	42386
CUM ACWP	1440	4535	9421	13068	15635	19224						
CUM BCWP	N/A	N/A	N/A	13511	16290	19004						
COST VAR	N/A	N/A	N/A	443	655	(220)						
SCH VAR	N/A	N/A	N/A	(273)	217	(440)						

Cost Variance

The unfavorable cost variance of $220,000 is due to greater than planned costs for the Aging Waste Safety Analysis Report. The costs are from responding to additional reviewer comments and a lengthy closure of Review Comment Records.

Schedule Variance

The unfavorable schedule variance of $440,000 is due to the following issues:

1) Expense support for project W-030, Vent Upgrades, is behind schedule due to Safety Class issues.

2) Analytical procedure problems and personnel shortages have delayed NCAW waste layer analyses.

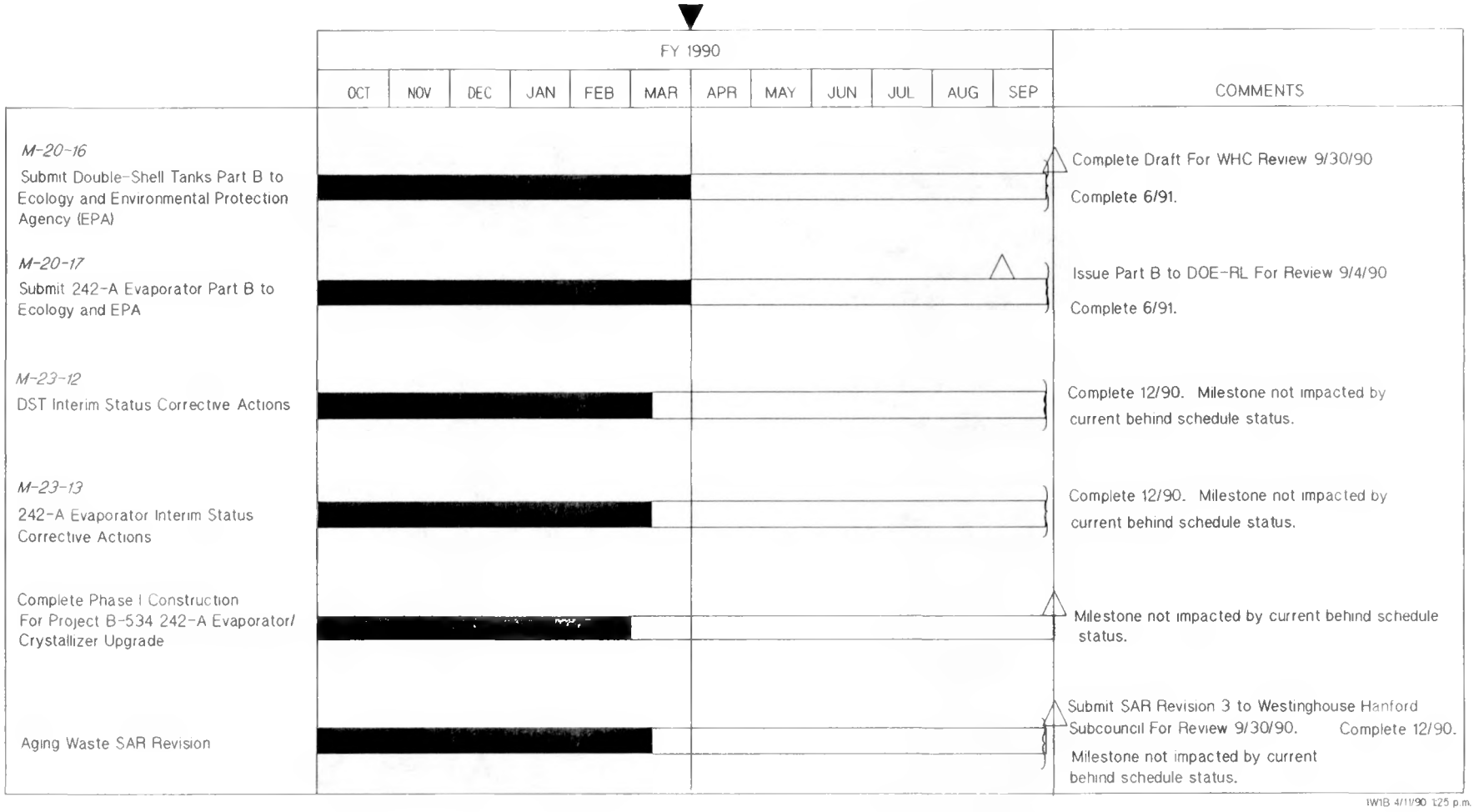
3) Definitive design activities have been halted on expense support to project W-E14, 101-AZ Retrieval, until approval of the conceptual documentation and the project authorization is approved.

PROGRAM IMPACT/RECOVERY PLAN :

None.

Program Manager : Program Business Representative : Scheduler :

DOUBLE-SHELL TANK OPERATIONS AND MAINTENANCE - W1B
MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Pretreatment - W1D
GF-73-01-96, GF-73-01-98, GF-71-01-86-4

OBJECTIVE: Prepare B Plant facility systems to process Neutralized Current Acid Waste (NCAW), Complexed Concentrate wastes, Plutonium Finishing Plant waste, and other radioactive waste requiring pretreatment prior to final disposal.

- Inspection of the Cell Drain Header was inititiated with approximately 70 percent of the header inspected. No major problems or structural faults have been identified. Planning is now underway for completion of the inspection; this will require repairs and modifications to the exisiting equipment.

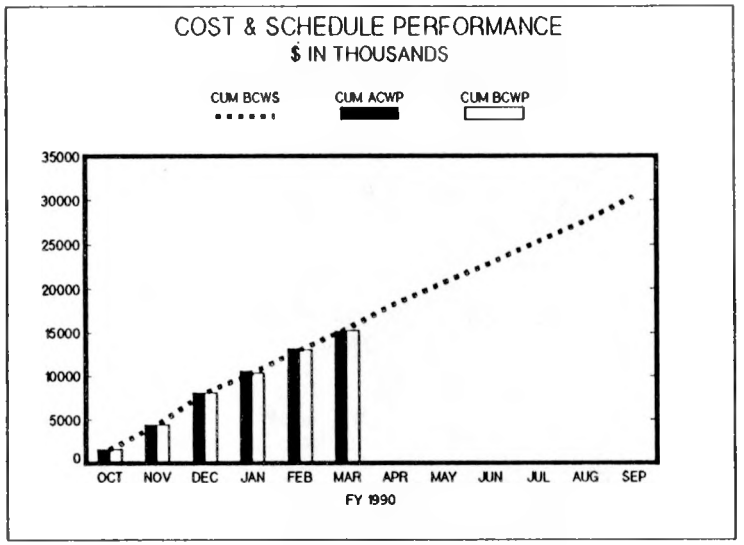
- An initial draft of the B Plant Lead Management Plan was completed and submited for internal review. An approved Lead Management Plan will be released within the next two month period. The plan will be issued as a section of the B Plant Environmental Compliance manual.

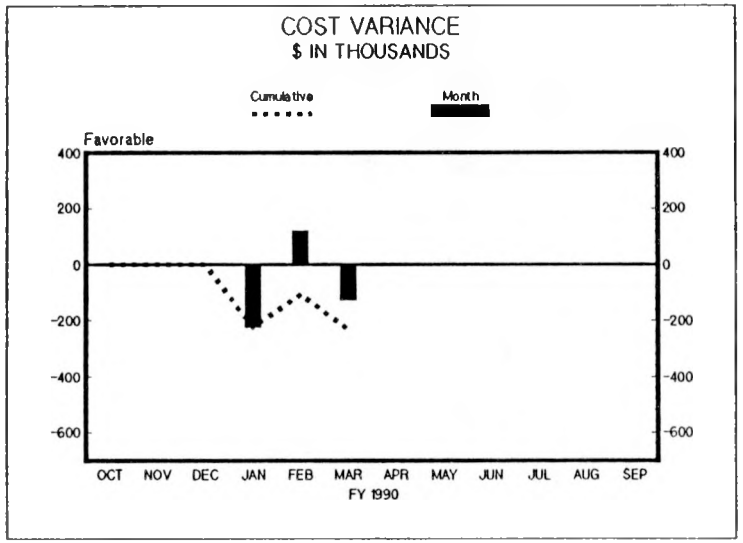
- Work continues on the B Plant Five Year Asbestos Abatement Program. Completed was removal of asbestos between cells 32-40 of the pipe and operating galleries. The work went smoothly and was an entire team effort.

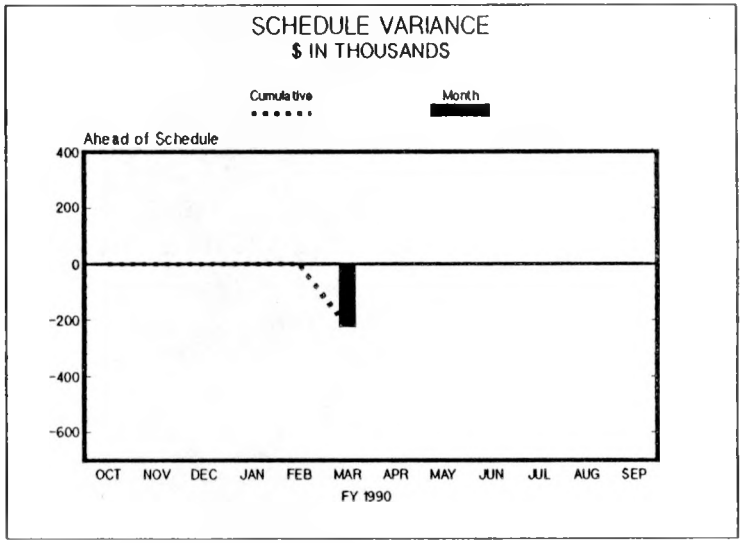
- The Automatic Data Processing system to support the Job Control System plant activities was installed and brought online.

- A second drag-off burial for fiscal year (FY) 1990 was completed. This reduces the amount of material in the B Plant canyon. Several additional shipments will be necessary in order to complete the canyon cleanup.

PRETREATMENT - W1D
MARCH 1990







PRETREATMENT – W1D
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	1572	4413	8065	10345	13053	15523	18381	20688	22886	25367	27610	30383
	CUM ACWP	1572	4413	8065	10570	13157	15529						
	CUM BCWP	1572	4413	8065	10345	13053	15299						
	COST VAR	0	0	0	(225)	(104)	(230)						
	SCH VAR	0	0	0	0	0	(224)						

Cost Variance

The unfavorable cost variance of $230,000 is due to the following:

1) Higher-than-planned engineering support to the B Plant Job Control System, environmental activities, and Engineering Services Requests.

2) Higher-than-planned maintenance support to the B Plant Facilities. This includes increased support to the Plant Instrumentation Surveillance & Evaluation System, B Plant's insulation and asbestos abatement program, and plant emergencies.

Schedule Variance

The unfavorable schedule variance of $224,000 is due to the following:

1) Project W-003, B Plant Chemical Sewer (BCE) Environmental Upgrades is behind schedule. The Conceptual Design Report was not completed on schedule due to descoping of the BCE diversion/retention from the project.

2) Project W-004 "B Plant AMU Area Upgrade", the PSE completion is behind schedule. The total slip from the original schedule for completing the PSE is now 13 weeks.

3) Project W-010H, "B Plant Environmental Compliance Upgrades", is behind schedule. Late design start caused by late completion of PSE could cause the project completion date to slip to July 1992. Potential delay in TPA milestone, M-17-04, dated July 1992, is imminent, because subject milestone is supported by this project.

In addition, the following LOE operational activities are behind schedule and are not included in the unfavorable schedule variance of $224,000:

o The B Plant crane is not in operation resulting in a projected three month delay in preparations for burial 90-3.

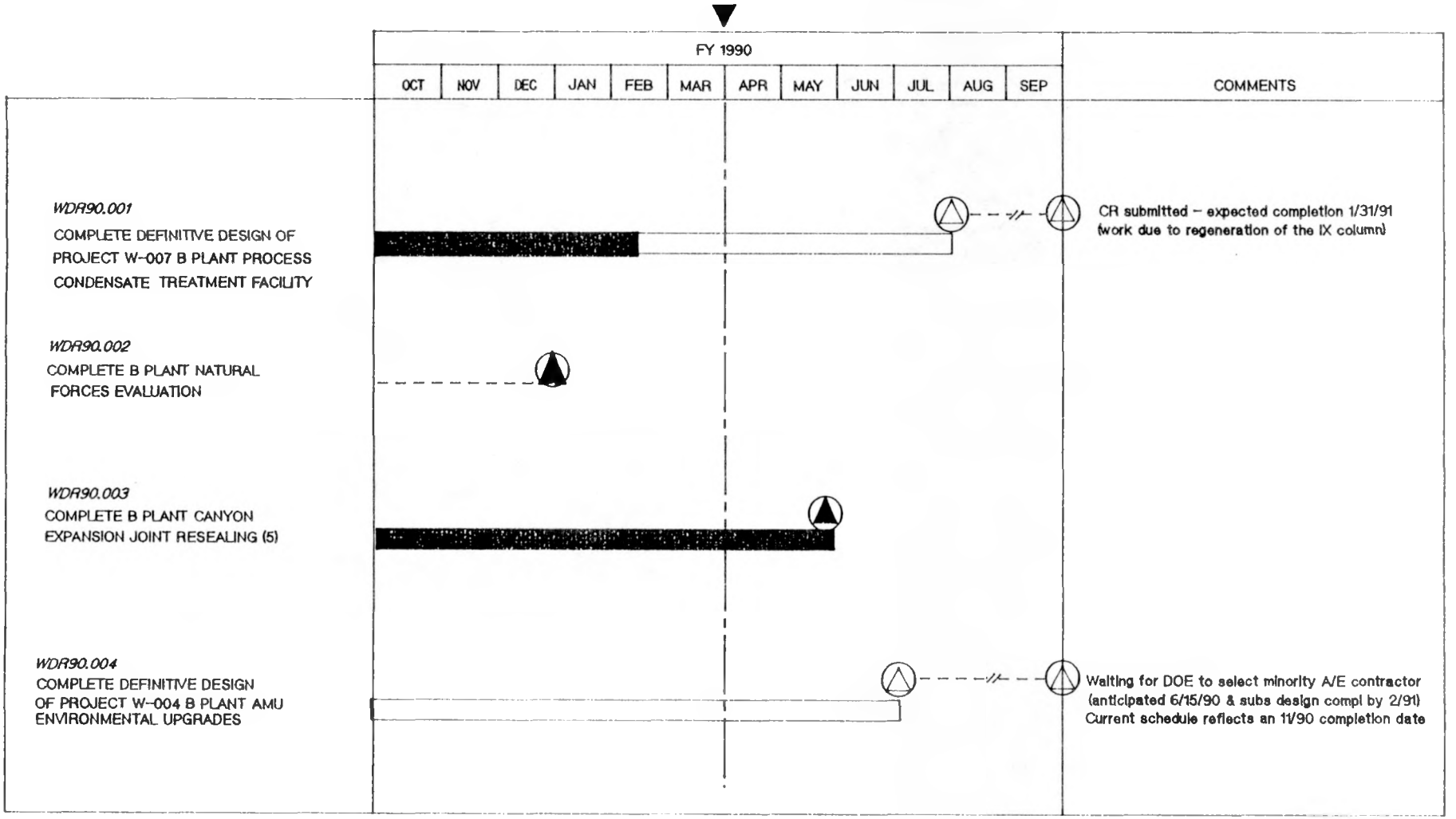
o Decontamination and repainting the electrical gallery is behind schedule due to shortage of manpower.

A change request (B Plant CIN 90-136-005) is in process requesting additional operators.

PROGRAM IMPACT/RECOVERY PLAN :

Program Manager : [signature] 5-8-90 Program Business Representative: [signature] 5-8-90 Scheduler: [signature]

PRETREATMENT – W1D
MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Defense High-Level Waste Technology - W1H
GF-73-01-51

OBJECTIVE: Develop a long-term strategy for the disposal of high-level waste stored in capsules and double-shell tanks (DST) at the Hanford Site, and to identify, develop, and implement the technology required to fulfill that strategy.

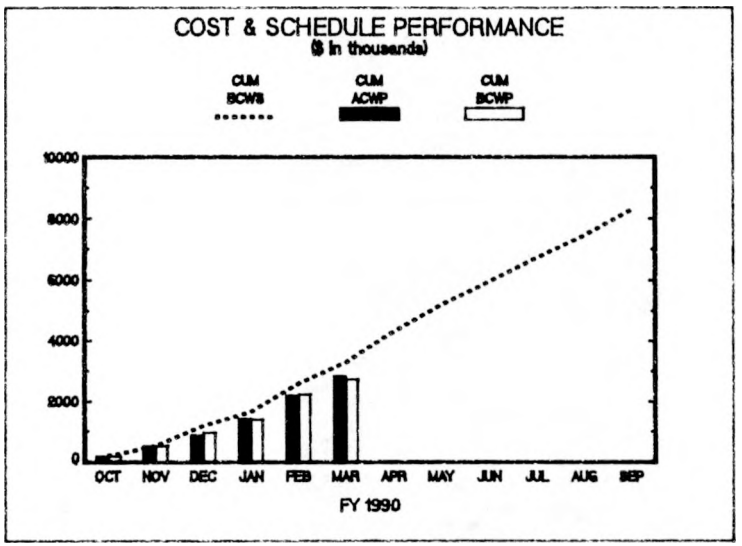
- Double-Shell Tank Waste Retrieval The hydraulic jet forces and corrosion testing have been completed and reports of these tasks are being prepared. The reports are expected to be completed by the end of April. Information from these two reports will be compared to structural analysis calculations being prepared to determine if the structural integrity of DSTs will be compromised by waste retrieval operations. Transmittal of the jet forces document to the U.S. Department of Energy-Richland Operations Office (DOE-RL) by July will satisfy a milestone commitment.

  The Westinghouse Hanford Company transmitted the functional design criteria (FDC) for Project W-E14, "241-AZ-101 Retrieval System Process Test," to the DOE-RL for approval as an expense-funded project. The project will provide development, design, and construction for installation and removal of tank equipment to support the conduct of the retrieval system process test in support of the DST waste disposal mission.

- Double-Shell Tank Characterization Core sampling activities were completed in DST 102-SY which contains Plutonium Finishing Plant (PFP) type waste. Two cores, each made up of four segments, were removed and have been extruded at Westinghouse Hanford Company and Pacific Northwest Laboratories (PNL). The first core will be used to supply test material for pretreatment tasks and the second core will be analyzed for chemical and physical properties. Core sampling of three DSTs is expected to be accomplished by June 30 satisfying a DOE-RL milestone.

- Double-Shell Tank Waste Pretreatment A report describing ultraviolet (UV) catalyzed peroxide and refluxed peroxide methods of destroying (oxidizing) organics in complexant concentrate (CC) waste is being prepared. Preliminary results show agreement in the level of organic destruction in the actual and synthetic wastes. These results show a reduction of approximately ninety percent in organic content. The destruction of organic complexants in CC waste may be required in addition to transuranic extraction (TRUEX) processing to meet vitrification and grout feed specifications.

DEFENSE HIGH-LEVEL WASTE TECHNOLOGY - W1H
MARCH 1990



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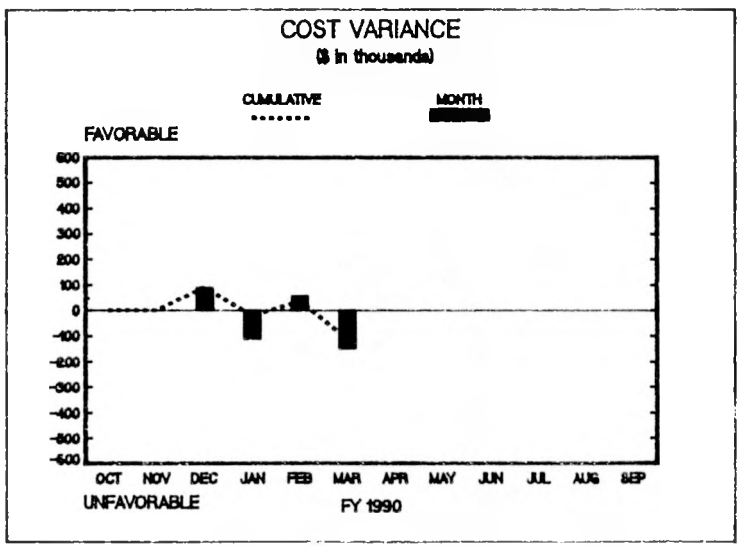
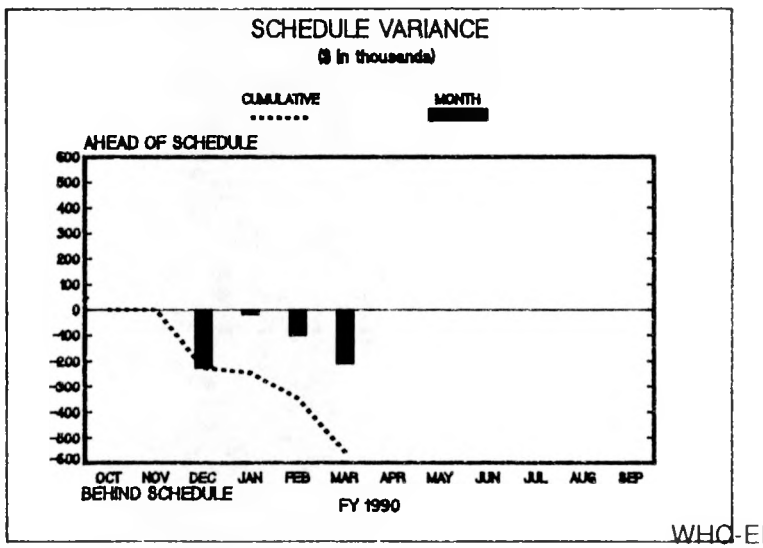




DEFENSE HIGH-LEVEL WASTE TECHNOLOGY - W1H
MARCH 1990

($ in thousands)	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	198	534	1199	1668	2584	3283	4218	5126	5892	6666	7415	8285
CUM ACWP	198	534	882	1442	2201	2840						
CUM BCWP	198	534	972	1420	2236	2726						
COST VAR	0	0	90	(22)	35	(114)						
SCH VAR	0	0	(227)	(248)	(348)	(557)						

Cost Variance

The unfavorable cost variance of $114,000 is insignificant

Schedule Variance

The unfavorable schedule variance of $557,000 is due to:

(1) Core sampling of DSTs is behind schedule as a result of (A) delays in order to complete training requirements and (B) equipment problems with the remote latch unit and drill string.

(2) Testing to determine the erosion corrosion of DST 102-SY (PFP) during retrieval operations has not started and is currently on hold.

(3) Testing to determine equipment corrosion during NCRW pretreatment processing has been delayed in order to collect and assimilate data from other DOE sites.

PROGRAM IMPACT/RECOVERY PLAN :

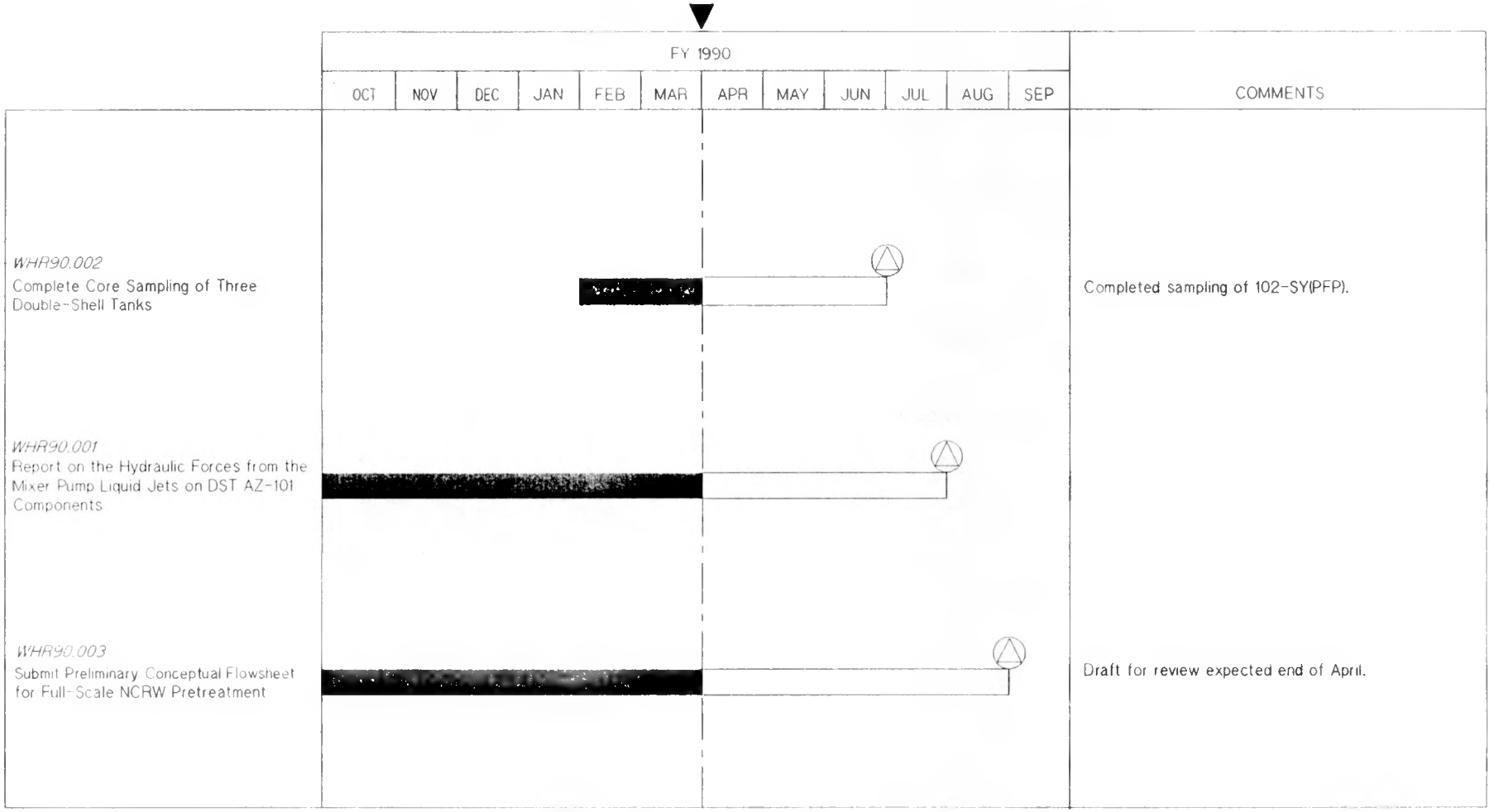
(1) The crane operators, riggers and truck drivers have completed the required Hazardous Waste Training and the core sample truck problems have been resolved. The hydrogen gas issue may impact core sampling of tanks 101-SY and 103-AN.

(2) Work scope is being evaluated based on recently available data from 101-AZ (NCAW) erosion corrosion tests and the planned test matrix may be revised.

(3) Preliminary results of the DOE site survey have been received and several alloys have been identified for handling nitric and hydrofluoric acid solutions. Experimental work will be completed four months behind schedule but no impact to pilot plant design is expected.

Program Manager : _____ Program Business Representative : _____ Scheduler : _____

DEFENSE HIGH-LEVEL WASTE TECHNOLOGY - W1H
MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Grout Disposal Program - W1P
GF-01-02-09-2

OBJECTIVE: Provide final disposal of the low-level portion of Hanford Double-Shell Tank (DST) waste.

- Vault construction is under way on DST waste disposal facilities. The placement of the diffusion barrier under the catch basins for vaults 102 through 105 is essentially complete.

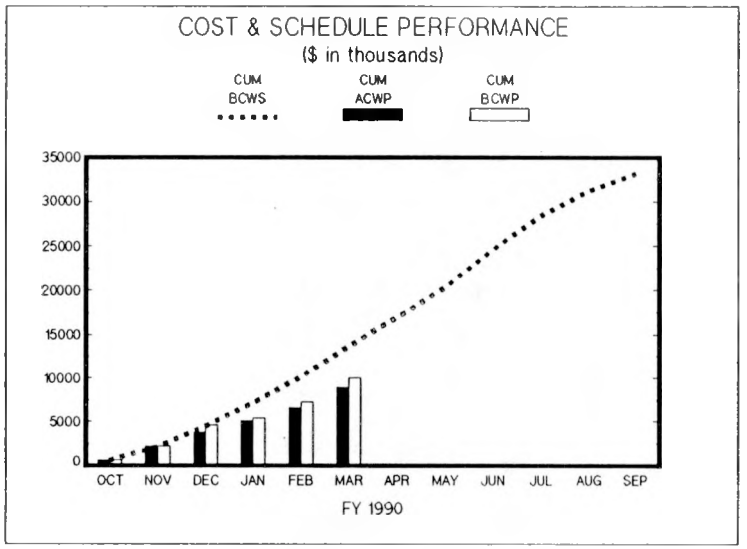
- The revised Part B Permit was approved by the U.S. Department of Energy-Richland Operations Office (DOE-RL) on January 12 and was transmitted to the Washington State Department of Ecology (Ecology) and the Environmental Protection Agency (EPA) and January 17. This transmittal marked the successful completion of Milestone WPR90.003.

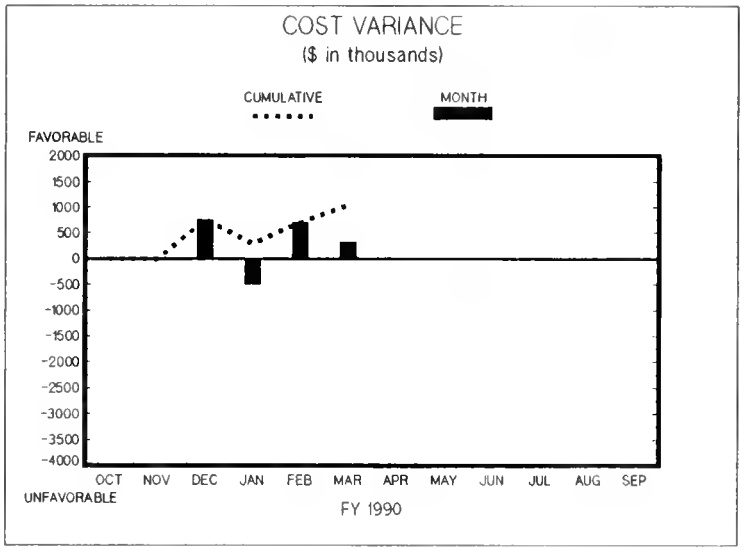
- The DOE-RL approved the sole source procurement package for design and fabrication of the Portable Instrument Houses by the subcontractor, U.S. Ecology.

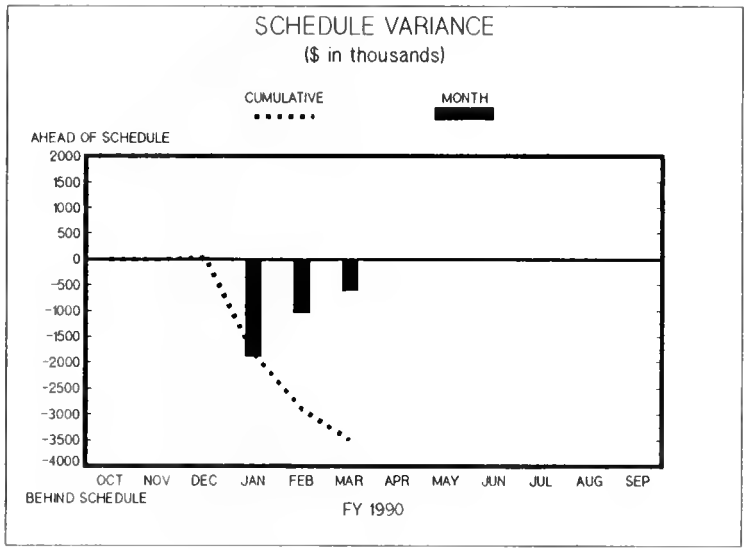
- Representatives from the Grout Disposal Program presented a session entitled "Phosphate/Sulphate Waste Grout Campaign Report" at the 1990 Waste Management Conference in Tucson, Arizona.

- Grout Disposal Program personnel participated in a Value Engineering exercise. Many disciplines (Safety, Quality Assurance, Projects) were involved to develop a more cost-effective DST waste facility design. The results of this Value Engineering Study are guiding a specific conceptual design for more cost-effective vaults.

GROUT DISPOSAL PROGRAM - W1P
MARCH 1990







GROUT DISPOSAL PROGRAM - W1P
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	642	2208	4551	7201	10180	13470	16962	20417	24649	28444	31232	33183
	CUM ACWP	642	2208	3821	5069	6585	8929						
	CUM BCWP	642	2208	4591	5364	7301	9978						
	COST VAR	0	0	770	295	716	1049						
	SCH VAR	0	0	40	(1837)	(2879)	(3492)						

Cost Variance

The favorable cost variance is a result of salary underruns in Project Management, Grout Vault Design, issuance/negotiation of work to PNL and ORNL and processing of final price contractor pay requests.

Schedule Variance

The unfavorable schedule variance of $3492K primarily results from vaults 102 - 105 construction delays associated with technical and design solutions surrounding the vault diffusion barrier.

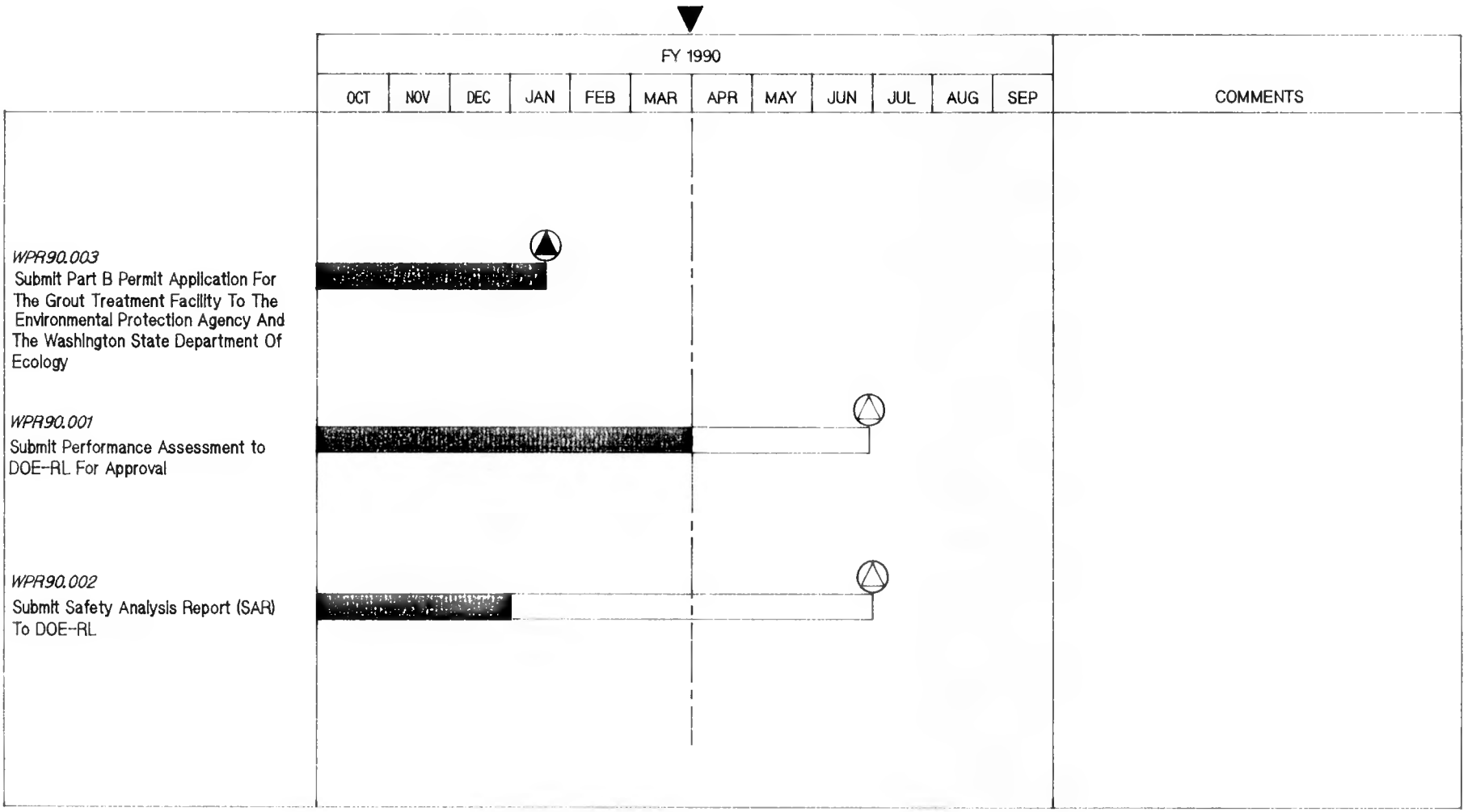
In addition, the Final Safety Analysis Report continues to be three months behind schedule pending resolution on safety classification.

PROGRAM IMPACT/RECOVERY PLAN :

1) Near-term impact: DST waste processing startup in May 1991 and FY 1991 TPA milestone in jeopardy.
2) Westinghouse Hanford Company management/KEH/contractors will be evaluating specific actions and associated costs to recover construction schedule.
3) PNL and ORNL will accelerate defined workscope - no programmatic impacts.

Program Manager: _____ Program Business Representative: _____ Scheduler: _____

GROUT DISPOSAL PROGRAM - W1P
MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Solid Waste Management - W2
GF-01-02-006-0

OBJECTIVE: Support the receipt, storage, and distribution of converted Sodium Hydroxide into PUREX. Prepare required Resource Conservation and Recovery Act permitting actions addressing the Low-Level Burial Grounds, support Waste Receiving and Processing Facility (WRAP) advanced conceptual design (W-026,) and transuranic (TRU) waste characterization.

The alternatives to land disposal of solid radioactive mixed wastes on the Hanford Site document was transmitted two weeks ahead of schedule to the Washington State Department of Ecology (Ecology) and the U.S. Environmental Protection Agency (EPA) by the U.S. Department of Energy-Richland Operations Office (DOE-RL). This constitutes completion of the Hanford Federal Facility Agreement & Consent Order (Tri-Party Agreement) Milestone M-25-00.

A request for interim approval to operate 218-E-12B Trench 94 as a chemical waste landfill for disposal of Polychlorinated Biphenyl (PCB) Wastes in submarine reactor compartments was prepared and submitted to the EPA. This request will allow Trench 94 to store PCBs while a separate request to Ecology is prepared and processed to obtain a waiver of the liner and leachate collection system requirements for mixed waste and PCBs. A compliance agreement between DOE-RL and EPA has been prepared and approved. This compliance agreement defines the policy for operating Trench 94 as a chemical waste landfill for PCBs provided it will meet the requirements for a mixed waste landfill as defined by a permit to be issued by Ecology.

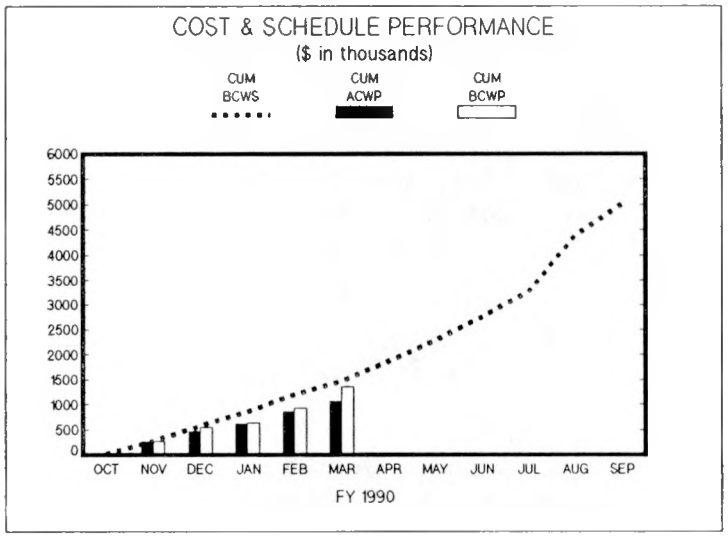
A unit managers meeting was held in January to discuss the November Notice of Deficiencies (NOD) on the Nonradioactive Dangerous Waste Storage Facility Part B Permit application. The first NOD response table was submitted to Ecology on February 19; the second NOD was received in March and comments are currently being resolved in support of a June 22 revised permit submittal.

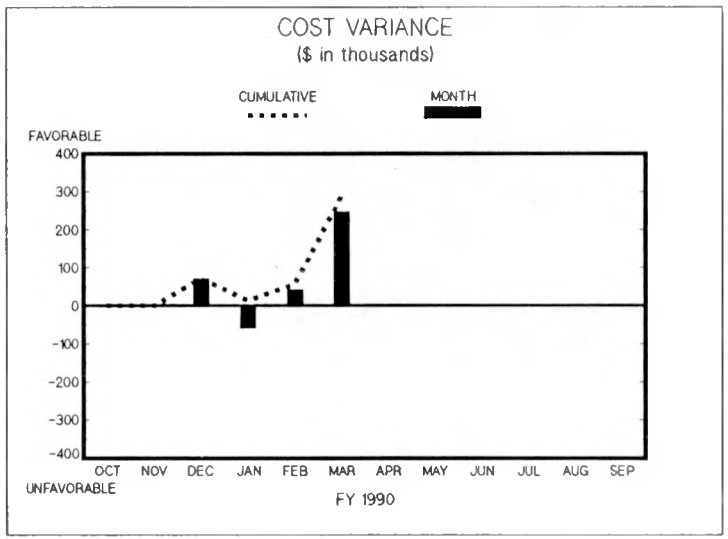
A new 5,000 gallon tank trailer was delivered to the new PUREX Sodium Hydroxide Storage system to establish/verify positioning, fit-up, unloading procedures, etc. The tank trailer will be delivered to the Argonne National Laboratory - West (ANL-W) to complete activities for loading, similar to the PUREX activities for unloading.

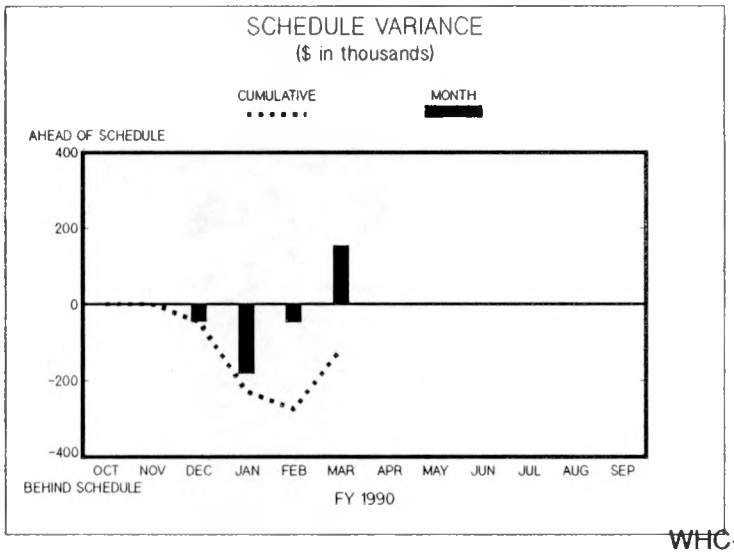
Project W-026, WRAP Facility Module 1, conceptual design plan for FY 1990 advanced studies and design has been approved by the Westinghouse Hanford Company (Westinghouse Hanford) and Kaiser Engineers Hanford (KEH) and transmitted to DOE-RL. Several of the pre-advanced conceptual design studies are currently being performed, including the preliminary safety re-evaluation and the computer-modeled process flow simulation. The preliminary safety re-evaluation will re-address the safety classifications of the process systems and hazard classification of the facility. The computer flow simulation model has been completed and has demonstrated that the conceptual design could meet the throughput requirements of the functional design criteria (FDC) on a double shift basis.

Work is continuing on the WRAP alternative flowsheet evaluation (AFE). The AFE will recommend any changes to the WRAP Module 1 and Module 2 flowsheets based upon current waste volume projections and waste disposal criteria. Based upon the AFE, engineering change notices will be prepared to modify the WRAP Module 1 FDC and as input to the WRAP Module 1 advanced conceptual design report, and the WRAP Module 2 FDC.

SOLID WASTE MANAGEMENT - W2
MARCH 1990







SOLID WASTE MANAGEMENT - W2
MARCH 1990

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	29	277	590	863	1203	1484	1871	2297	2748	3275	4404	5019
CUM ACWP	29	277	473	622	871	1075						
CUM BCWP	29	277	545	636	929	1366						
COST VAR	0	0	72	14	58	291						
SCH VAR	0	0	-45	-227	-274	-118						

Cost Variance

The favorable cost variance of $291,000 is primarily due to TRU Waste Characterization tasks being delayed to complete safety documentation

Schedule Variance

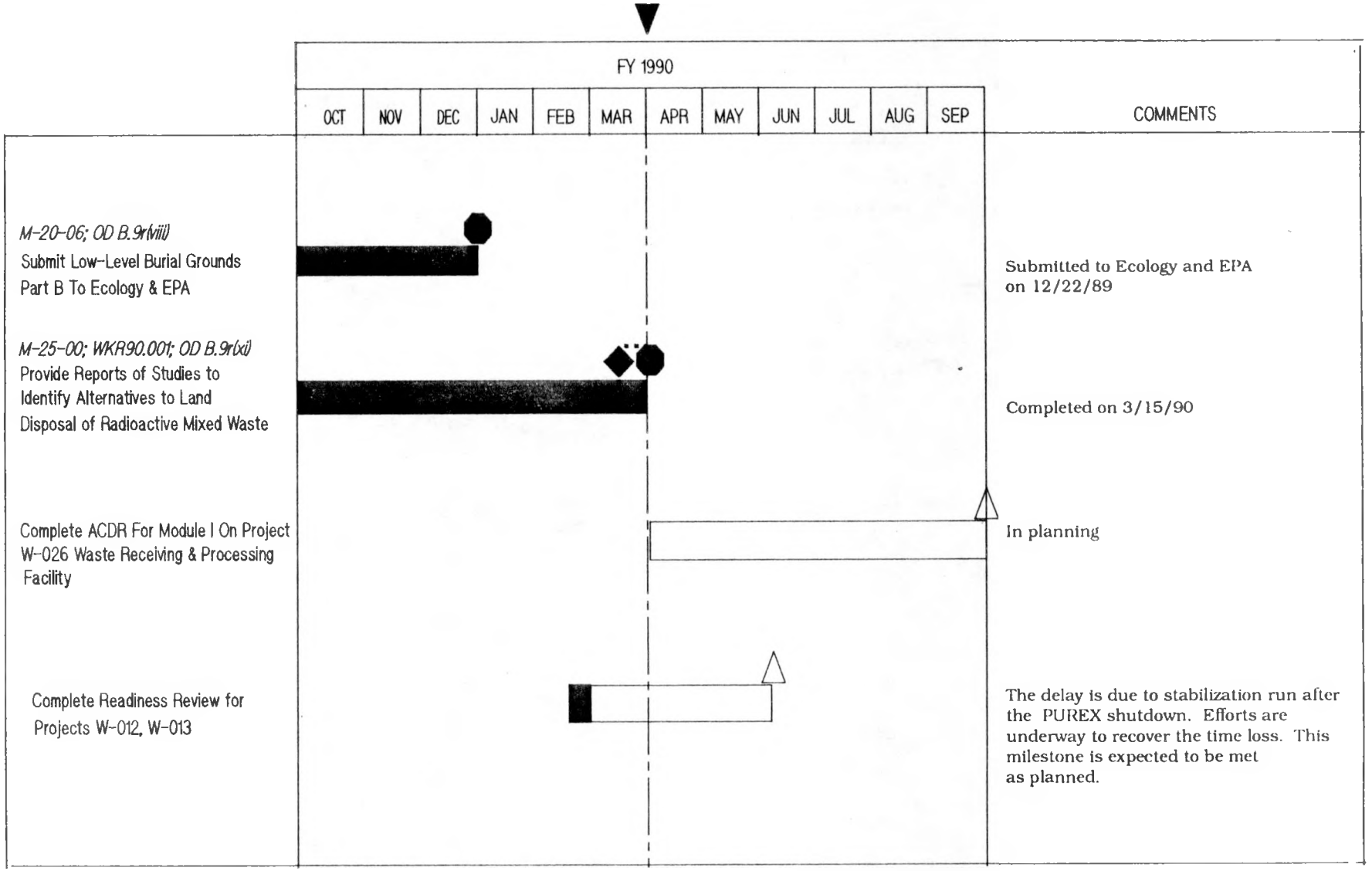
The unfavorable schedule variance of $118,000 is primarily attributable to the delay in completing the readiness review for Projects W-012 and W-013 due to PUREX personnel supporting the stabilization run at the PUREX facility and due to limited resources, the advanced studies for WRAP Module I are behind schedule. Forecasted assistance from KEH will allow these studies to support the ACDR preparation, thereby, not impacting the project critical path.

PROGRAM IMPACT/RECOVERY PLAN :

Program Manager: [signature] Program Business Representative : [signature] Scheduler : [signature]

SOLID WASTE MANAGEMENT - W2

MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Single-Shell Tank Stabilization and Maintenance - W3B
GF-73-01-97, GF-73-01-51, GF-73-01-96

OBJECTIVE: Operate and maintain the Single-Shell Tank (SST) Farms. Provide and analyze surveillance data, initiate corrective action when required, and maintain monitoring equipment. Remove interstitial liquid from SSTs and isolate tanks from inadvertent liquid intrusions. Provide capital equipment and construction project upgrades to support continued missions.

- Hydrogen gas data collection and reporting has impacted work on all fiscal year (FY) 1991 stabilization preparatory work. All 149 SSTs have been screened through 10 new criteria. On March 25 a team was organized to conduct a preliminary review of SSTs in order to determine if any of the tanks met four previously established criteria for vapor flammability potential. Screening of all SSTs produced a list of four tanks that met all of the criteria. The selected tanks were AX-103, S-112, SX-104 and SX-105. Additional screening activities are continuing and stabilization activities on Tank 241-SX-104 are undergoing additional reviews due to hydrogen concerns.

- Significant progress on the evaluation of the ferrocyanide explosion potential in SST wastes was made during the period. Extensive technical support was provided to investigating teams from the State of Washington, the Advisory Committee for Nuclear Facility Safety (U.S. Department of Energy-Headquarters [DOE-HQ]), and the Defense Nuclear Facility Safety Board (Congressional). Small-scale reaction and explosion experiments were completed by Pacific Northwest Laboratory (PNL). Monthly temperature monitoring has been performed on the 22 tanks identified as ferrocyanide tanks. The highest tank temperature (136° F) is well below the minimum observed reaction temperature (428° F).

- Level II schedules for the SST Stabilization and Maintenance (W3B) end function were completed, approved and submitted to the US. Department of Energy-Richland Operations Office (DOE-RL).

- The W3B FY 1992 Five-Year Plan activity data sheets (ADSs) were approved for transmittal to DOE-RL on March 29.

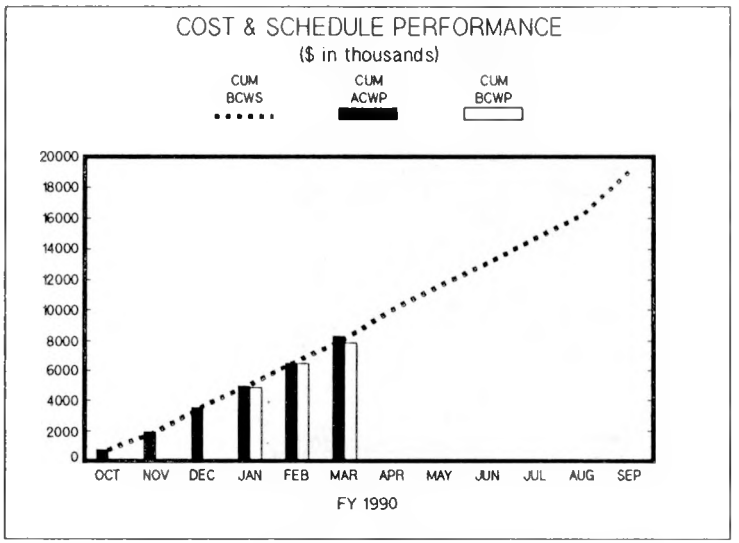
- The W3B FY 1990 Program Plan schedules and text were completed and submitted for incorporation in the Defense Waste Management/ Environmental Program Plan.

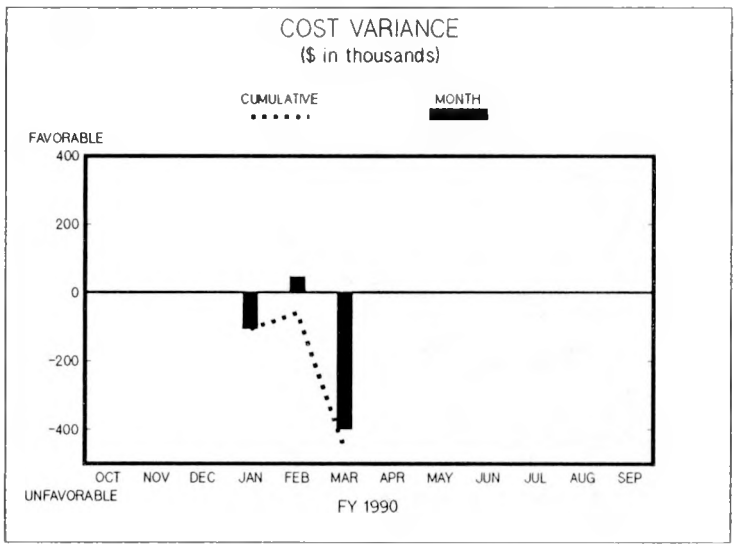
- The scope of the SST 106-C Stabilization Engineering Study was broadened to include the system support, double-shell tank space impacts, and interference with ongoing operations.

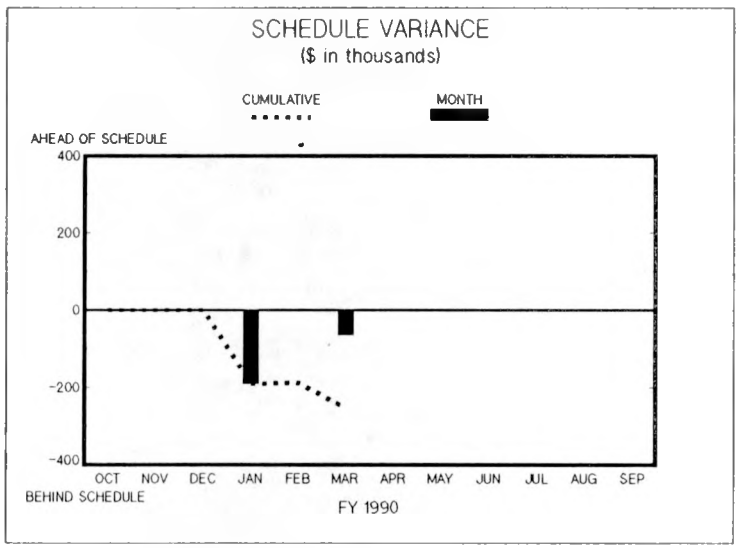
- Stabilization of five tanks in FY 1990 is one month behind schedule due to resolution of the ferrocyanide issue and the 106-C vapor issue. Current plans are to start saltwell pumping in 241-BX Tank Farm on May 23. Tank 106-BX will not be started until August because an overgound line will be used in the transfer route.

  All required work packages are in place to being the isolation of 105-S and 104-C. Work will begin as support personnel become available.

SST STABILIZATION AND MAINTENANCE - W3B
MARCH 1990







SST STABILIZATION AND MAINTENANCE - W3B
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	755	1978	3634	5065	6629	8120	10072	11658	13112	14735	16236	18833
	CUM ACWP	755	1978	3552	4982	6500	8325						
	CUM BCWP	N/A	N/A	N/A	4875	6442	7867						
	COST VAR	N/A	N/A	N/A	(107)	(59)	(458)						
	SCH VAR	N/A	N/A	N/A	(190)	(187)	(253)						

Cost Variance

The unfavorable cost variance of $458,000 is due to the following unexpected maintenance costs:

(1) Additional training requirements for OSHA compliance.

(2) Additional equipment calibration/maintenance needed to respond to the ferrocyanide issue.

(3) Additional materials were needed to rebuild flow meters.

Schedule Variance

The unfavorable schedule variance of $253,000 is due to a diversion of resources from stabilization activities to solve the following issues:

(1) The safety of Single-Shell Tanks containing ferrocyanide.

(2) The 103-C vapor emissions problem.

Additionally:

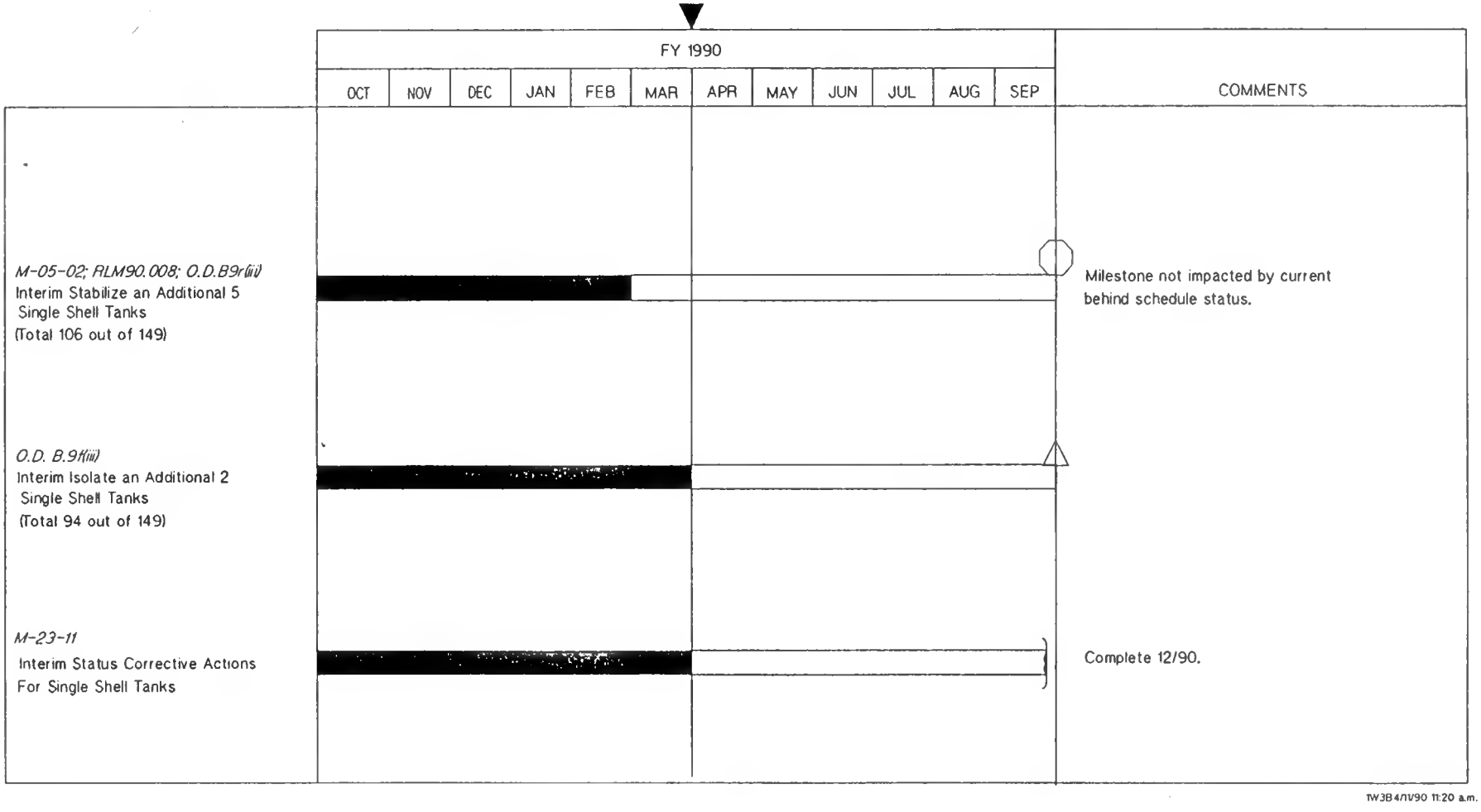
(3) Field crew support has been diverted to support the 242-A Evaporator Upgrade Project (B-534).

PROGRAM IMPACT/RECOVERY PLAN :

The schedule variance should be self-correcting within the next few months as employees return to their normal job duties and issues are resolved.

Program Manager : Program Business Representative : Scheduler :

SINGLE-SHELL TANK STABILIZATION AND MAINTENANCE - W3B
MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Environmental Surveillance and control - W4A
GF-01-02-01-0

OBJECTIVE: This program provides operational environmental surveillance for Hanford Site operations and waste disposal areas. The program monitors, analyzes, and reports results for all low-level gaseous and liquid effluents. Operational environmental surveillance includes cribs, ponds and ditches, and the vadose zone. The environmental impacts of Hanford Site operations are assessed and corrective actions implemented.

- Hanford Site Liquid Effluent Study During the reporting period, bi-monthly status reports were issued as required. Level III schedules were prepared to support the preparation of the study and routine statusing was initiated. All 33 first draft stream specific reports were completed for internal Westinghouse Hanford Company review and all but 6 were delivered to the U.S. Department of Energy-Richland Operations Office (DOE-RL) by the end of March for review and comment. The remaining 6 reports include the 242-A Evaporator Process Condensate report and the5 PUREX reports. These are scheduled to be delivered the first week in April. The Liquid Effluent Study Project Plan was also completed and delivered to DOE-RL on March 19 and subsequently delivered to the Washington State Department of Ecology (Ecology) and the Environmental Protection Agency (EPA) for final approval on March 27. Even though stream specific reports are slightly behind schedule for completion by April 30, the overall Liquid Effluent Study remains on schedule for completion in August.

- 200 Area Treated Effluent Facility Work continued on the Functional Design Criteria (FDC) and the Conceptual Design Report (CDR) Criteria throughout the period. The initial FDC and CDR contained scope and cost which far exceeded available funds and were not approved. A strategy to reduce the scope of the project was developed which is based upon deferring additional handling of Phase II streams beyond controls being implemented at the source. After further study and review, instructions were issued on March 1 to proceed with the revision of the CDR. Revisions include: (1) collection of the small Phase II streams in the 200 West Area rather than using separate handling facilities later, and (2) eliminate an additional treatment line to be added to the process condensate facility (Project C-018 Mod.). Addition of small Phase II streams from 200 East Area will also be considered. Final FDC is scheduled to go to DOE-RL for approval in early April. A task team has been formed for continued work on waste minimization efforts and to formulate detailed plans for the large Phase II streams in the 200 East Area. Separate 200 Area TEDF costs have been reduced from an estimated $157M to $41M. Current schedule is targeted for late project validation as a fiscal year (FY) 1992 Line Item in June.

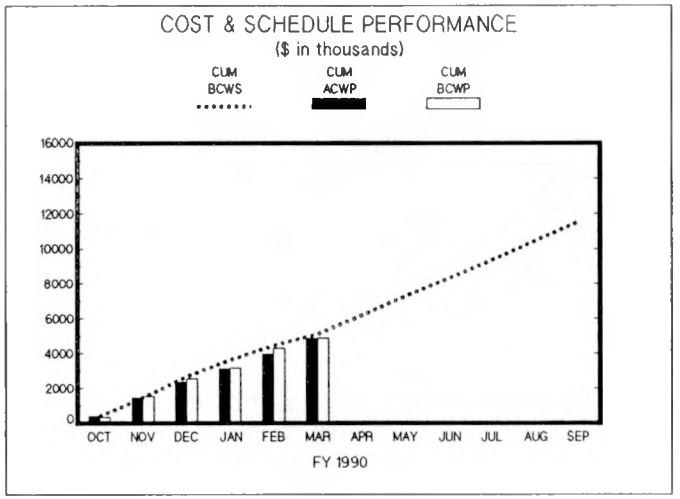
- S-26 Crib Efforts continued to reduce effluent releases to the S-26 Crib which has been in danger of exceeding operating limits. Modifications have been made to the 291-T turbine bearing oil cooling system to introduce cooling water only when the turbine is in operation. This modification reduces the daily flow of water to the crib by 8,000 gallons per day. In addition to this flow reduction, other release limitations from the 222-S Laboratory have taken the crib out of immediate danger of exceeding operating limitations.

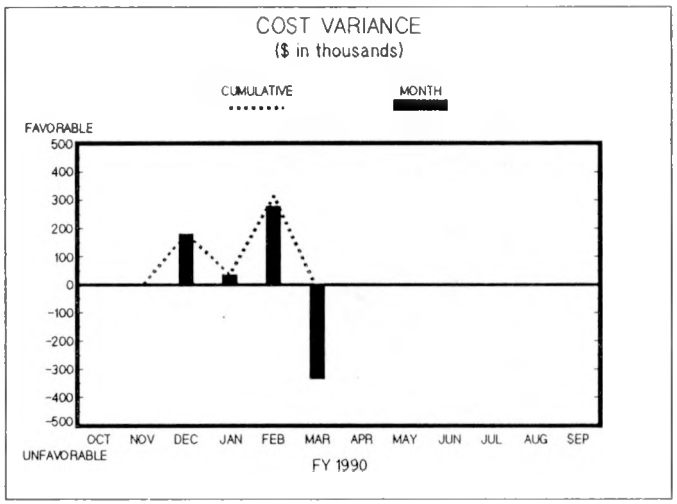
- 2727-S Nonradioactive Dangerous Waste Storage Facility - Notice of Deficiency response table and revised Chapter 4.0, "Closure Activities", for the closure plan on this facility located in the 200 West Area were forwarded to Ecology.

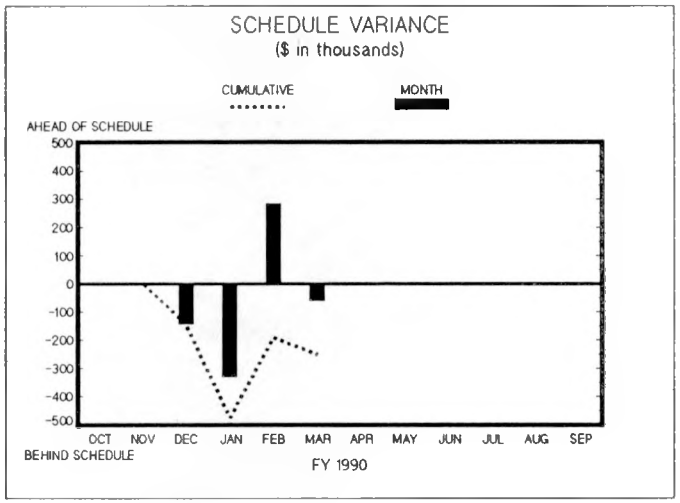
- Transmit EIS/ODIS Data - The annual transmission of electronic database information in the Environmental Information System/ Onsite Discharge Information System (EIS/ODIS) to Idaho National Engineering Laboratory (INEL) was completed on schedule. Confirmation of receipt by INEL was received at 1:30 pm on March 30, thus satisfying DOE-RL Milestone WAR90.002.

- Radionuclide Logging System (RLS) - The American Petroleum Institute (API) Calibration Task Group has accepted RLS findings to infer calibration constants establishing the potassium concentrations in two zones with questionable concentrations. This has not been successfully done by another logging system. The Westinghouse Hanford Company work will be cited in "Recommended Practice for Calibration of Gamma Ray Spectroscopy (K-U-Th) Logging Instruments". This API document contains the procedures that will govern the calibration of gamma-ray sensors used in the petroleum industry. The citation will document the contributions that Westinghouse Hanford Company made toward the certification of borehole models that will serve as industry calibration standards.

ENVIRONMENTAL SURVEILLANCE & CONTROL - W4A
MARCH 1990







ENVIRONMENTAL SURVEILLANCE & CONTROL - W4A
MARCH 1990

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
$ in thousands	CUM BCWS	417	1465	2706	3662	4475	5131	6195	7259	8323	9387	10,451	11,512
	CUM ACWP	417	1465	2381	3152	3969	4899						
	CUM BCWP	417	1465	2562	3188	4284	4881						
	COST VAR	0	0	181	36	315	-18						
	SCH VAR	0	0	-144	-474	-191	-250						

Cost Variance

The unfavorable cost variance of $18,000 is not significant.

Schedule Variance

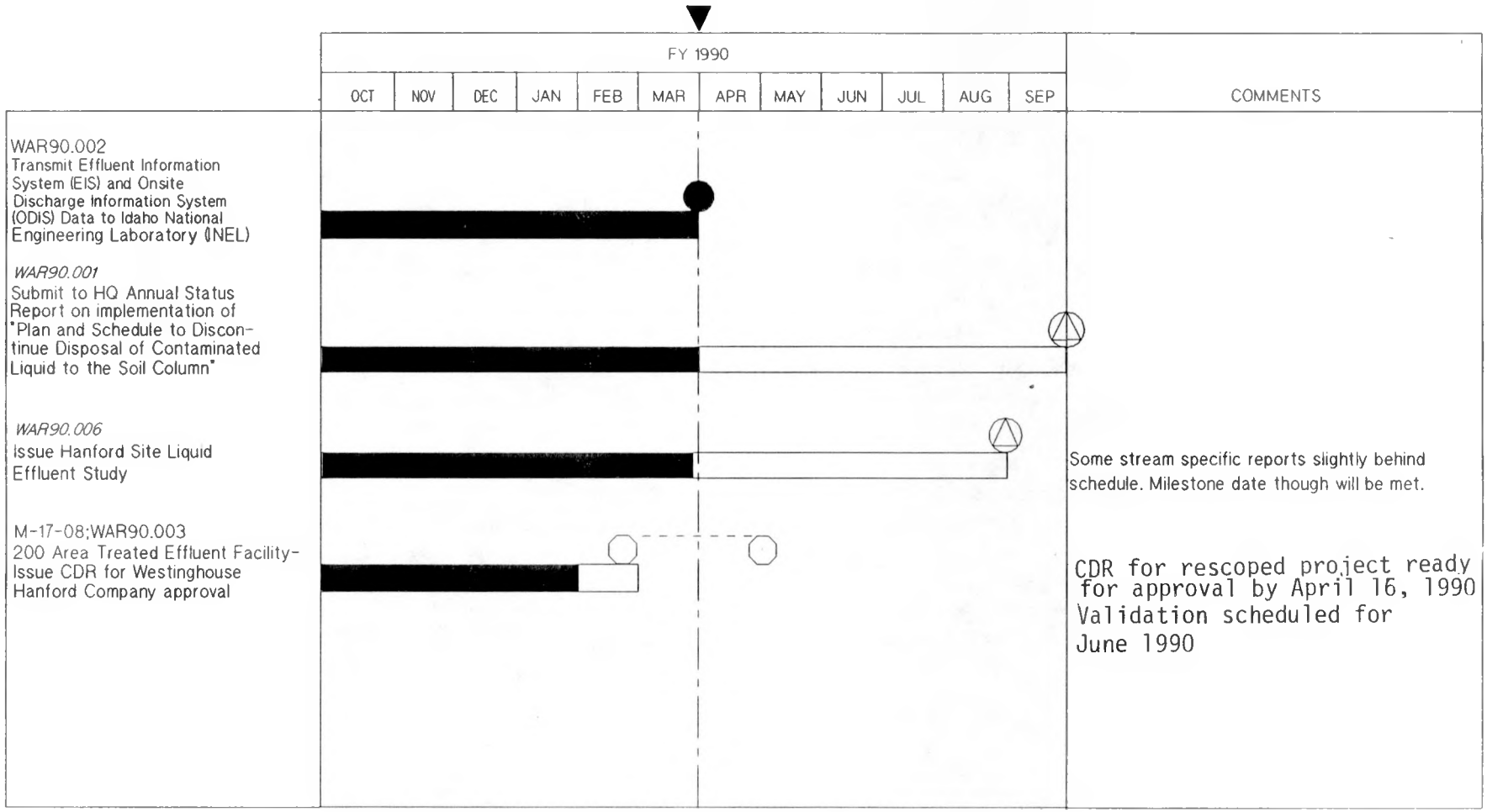
An unfavorable schedule variance of $250,000 exists which is due to: (1) Stream specific reports supporting the Hanford Site Liquid Effluent Study are behind schedule; (2) Work supporting the statusing of the Plan and Schedule to Discontinue Discharge of Contaminated Liquids to the Soil Column is behind schedule due to transfer of engineering personnel to support restart of the 242-A Evaporator and preparation of the Hanford Site Liquid Effluent Study; (3) Preparation of the spectral gamma logging system is behind schedule due to a delay in obtaining laboratory space, late approval of the Environmental Evaluation by DOE-RL and a lengthy procurement of computer system components; and (4) The 200 Area Treated Effluent Disposal System CDR has required extensive rework to accommodate project scope reductions.

PROGRAM IMPACT/RECOVERY PLAN :

No significant impact to program scheduled milestones is anticipated at this time. Completion of the Hanford Site Liquid Effluent Study is still scheduled for completion in August 1990. Maintaining this schedule could result in cost overruns.

Program Manager : [signature] Program Business Representative : [signature] Scheduler : [signature]

ENVIRONMENTAL SURVEILLANCE AND CONTROL - W4A
MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

222-S Laboratory Upgrades - W4L
GF-71-01-86-4

OBJECTIVE: Provide supporting upgrades to ensure the 222-S Waste Management Laboratory building and analytical equipment are maintained in a fully operational mode. Identify and develop analytical methods and transfer required technology to the analytical laboratories.

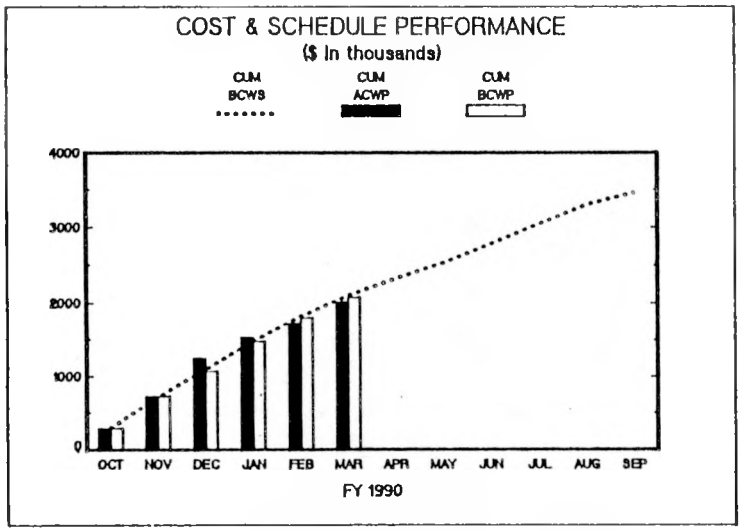
- Project W-011H, Waste Sampling and Characterization Facility (WSCF) The definitive design effort has been divided into three packages. These packages are: (1) Lab Procurement Specification - for procurement of the modules that are to be fabricated offsite and assembled into the Analytical Laboratory onsite (2) Site-Work - which includes preparation of the site, procurement of components of the various utilities, and installation of the various utilities and (3) Administration/Nuclear Spectroscopy Laboratory (Admin/NSL) - which includes construction of the underground laboratory and the ground level office and support facilities structure. The packages are scheduled to be issued for approval on or about July 1.

- Project W-082, Environmental Data Remediation Tracking System The conceptual design report (CDR) and the Engineering Change Notice (ECN) for the functional design criteria (FDC) concerning design and scope changes (required to meet the $1.2M funding limit) are in the approval cycle. Approval of the CDR and ECN are expected in May.

- Project W-041, 222-S Hot Cell Expansion Kaiser Engineers Hanford (KEH) completed the draft of the Supplemental Design Requirements Document (SDRD) for Project W-041H, 222-S Environmental Hot Cell Expansion. KEH also prepared a list of changes to the FDC which are associated with the advanced conceptual effort. The revised CDR cost estimate prepared by KEH revealed a growth of $1.5M over the original estimate. Efforts are in progress to identify the areas of major growth and reduce the total estimate at completion (TEC) to the originally-approved $13.8M. Because of the cost estimate concern, the schedule for completion of the advanced conceptual has been extended approximately two weeks. The U.S. Department of Energy-Richland Operations Office (DOE-RL) has been informed of the matter and concurs with the revised schedule.

- Projects W-099, Sample Truck Garage and W-080, Cold Sample Archiving Buildings The FDCs for these projects are in the final approval cycle with completion forecast approximately one week behind the March 31 target date.

222-S LABORATORY UPGRADES - W4L
MARCH 1990



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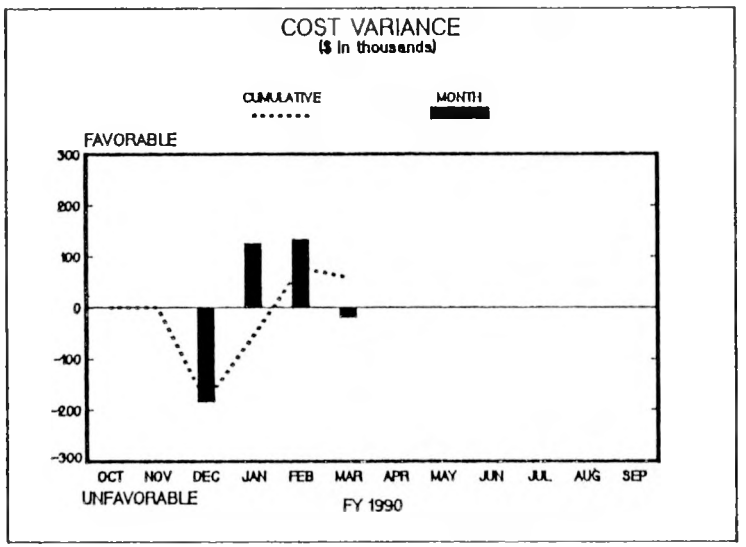
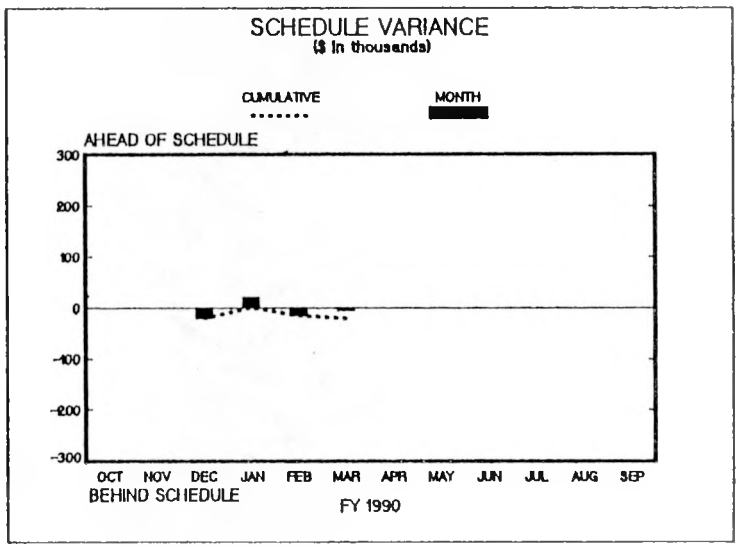




222-S LABORATORY UPGRADES -W4L
MARCH 1990

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	294	720	1092	1475	1818	2099	2320	2527	2776	3040	3294	3454
CUM ACWP	294	720	1254	1532	1802	2018						
CUM BCWP	294	720	1071	1475	1724	2077						
COST VAR	0	0	(183)	(57)	78	58						
SCH VAR	0	0	(21)	0	(16)	(22)						

Cost Variance

The favorable cost variance of $58,000 is insignificant.

Schedule Variance

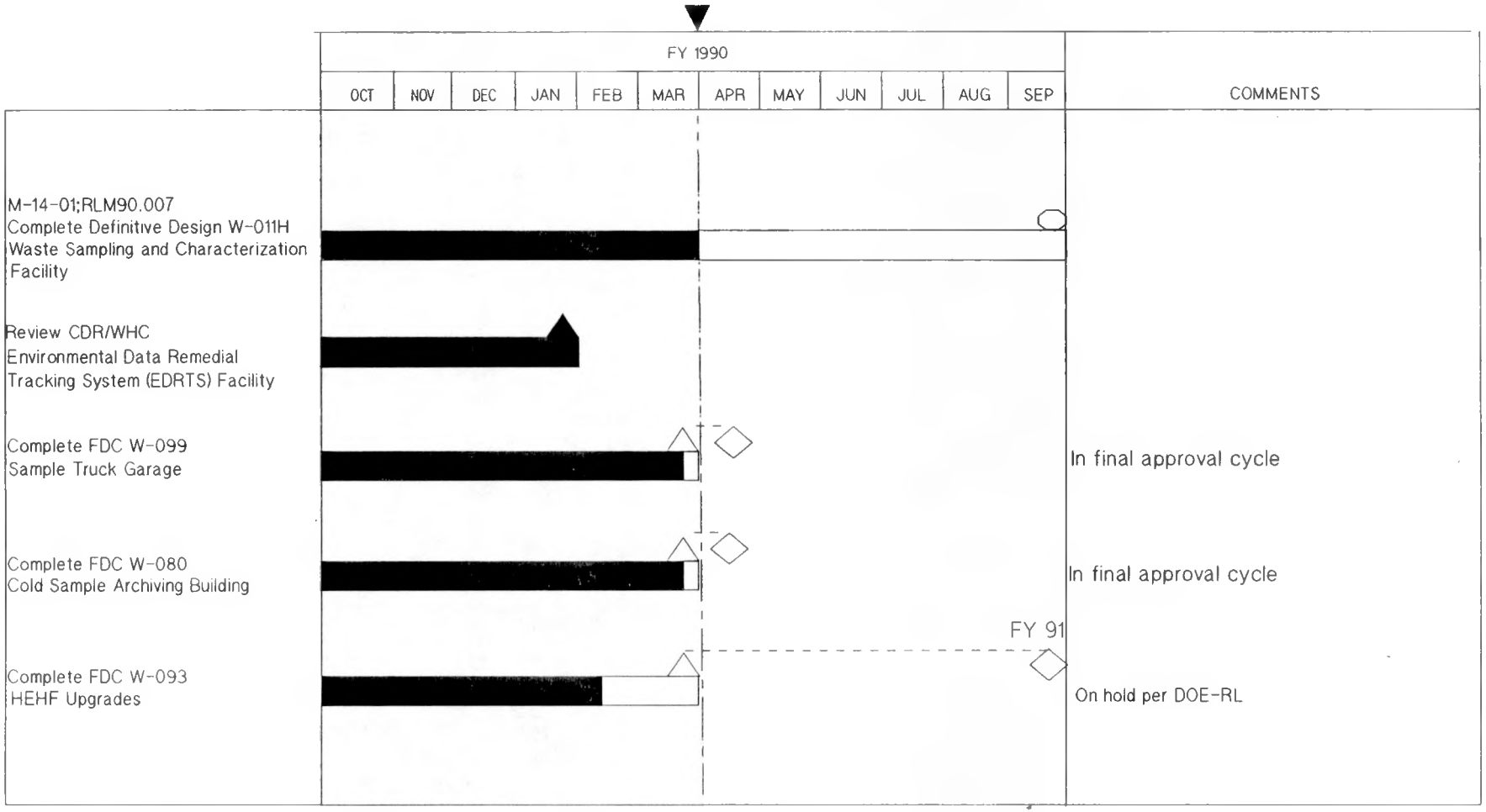
The unfavorable schedule variance of $22,000 is due to (1) delays incurred by a DOE-RL order to stop work on the functional design criteria for project W-093 "HEHF Upgrades". This workscope has been delayed until FY91 if the decision is made to upgrade the facility as a laboratory (the FDC will be abandoned if conversion for use as a daycare facility for DOE-RL personnel is chosen). (2) Final approval of FDC W-080 "Cold Sample Archive Building" and FDC W-099 "Sample Truck Garage" were not completed. Approval and transmission of the FDC's is expected in early April.

PROGRAM IMPACT/RECOVERY PLAN :

None. no program impacts have been identified at this time.

Program Manager : _____ Program Business Representative : _____ Scheduler : _____

222-S LABORATORY UPGRADES-W4L
MARCH 1990



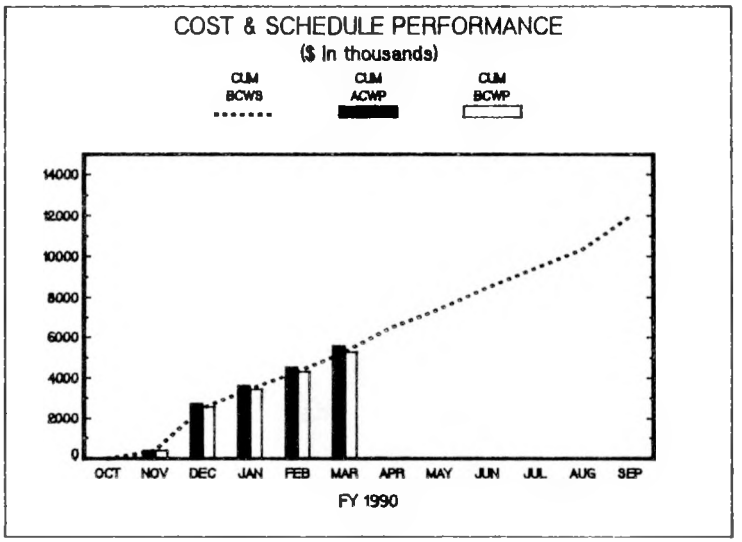
Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

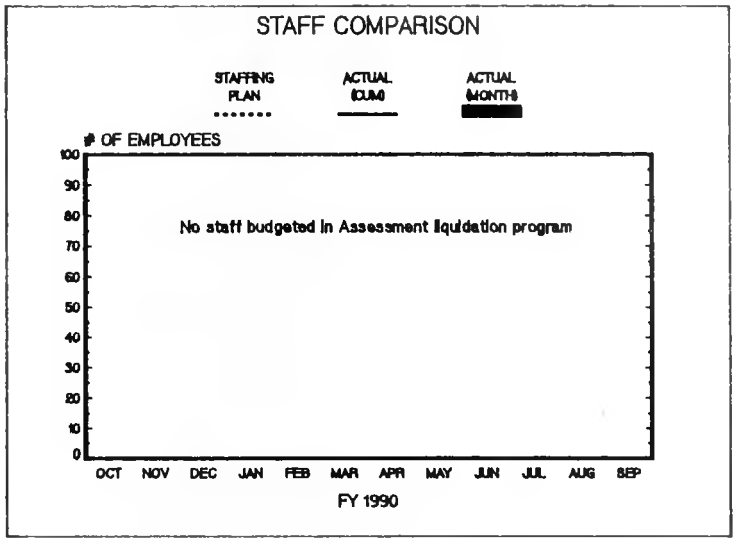
Waste Operations Assessments - W4X
GF-73-01-01

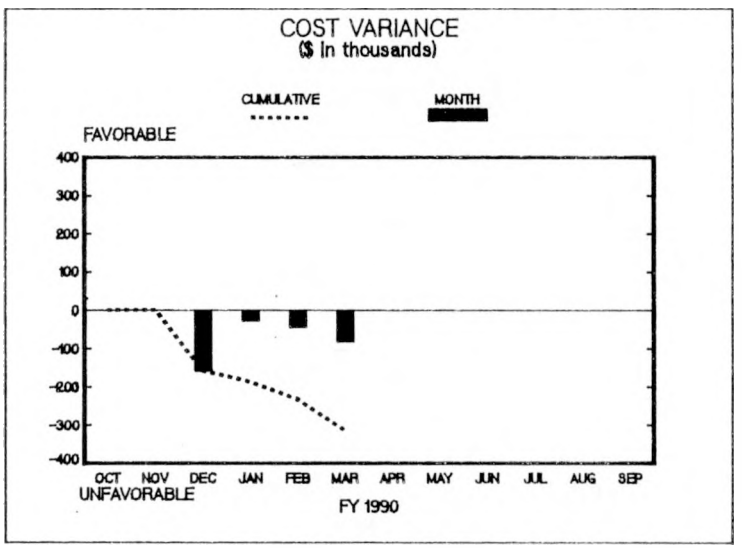
OBJECTIVE: The Waste Operations Assessments Program is a collection point for liquidation of the Defense Waste Management Division portion of the Environmental Monitoring Program, the Hanford Environmental Management Program, and the Job Control System assessments.

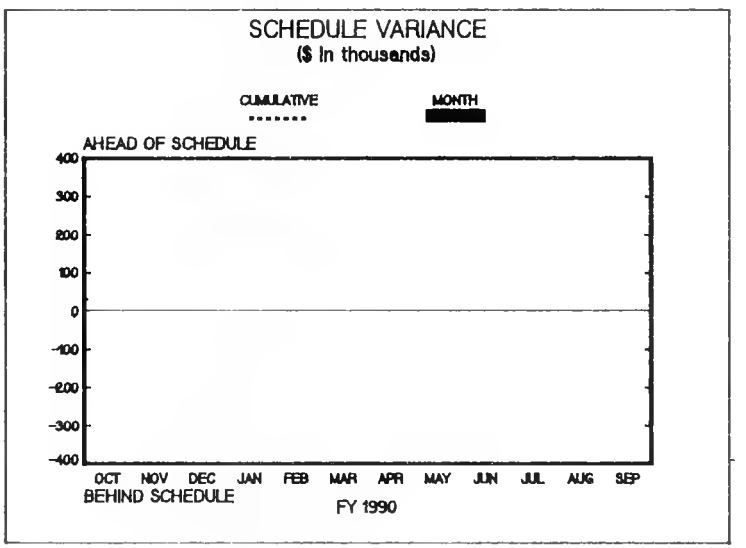
All work related to activities described in the objective are portrayed within the applicable end function sections.

WASTE OPERATIONS ASSESSMENTS – W4X
MARCH 1990









WASTE OPERATIONS ASSESSMENTS - W4X
MARCH 1990

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	0	409	2580	3441	4301	5272	6512	7442	8467	9396	10324	11929
CUM ACWP	0	409	2739	3629	4534	5587						
CUM BCWP	0	409	2580	3441	4301	5272						
COST VAR	0	0	(159)	(188)	(233)	(315)						
SCH VAR	0	0	0	0	0	0						

Cost Variance

The unfavorable cost variance of $315,000 is due to the billing for an increased environmental monitoring assessment being made entirely in March. Conversely, the budget was planned such that the increase would be spread over the remainder of the year.

Schedule Variance

The schedule variance is zero.

PROGRAM IMPACT/RECOVERY PLAN :

There is no impact. The budget time-phasing will be adjusted in April to mirror the actual and planned billings, thereby, eliminating the variance.

Program Manager : _____ Program Business Representative : _____ Scheduler : N/A

Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Cesium Capsule Recovery - W5C
GF-73-01-97-0

OBJECTIVE: Recover all cesium capsules from Radiation Sterilizers, Inc. to the Hanford Site. Prepare the Waste Encapsulation and Storage Facility to receive cesium capsules and implement a surveillance program to ensure continued safe beneficial use and storage of cesium and strontium capsules.

- Cleanout of waste which has accumulated in cells B through F at the Waste Encapsulation and Storage Facility (WESF) was initiated in March 1990. This waste was accumulated during the capsule decontamination effort. Removal of this material will result in both enhanced safety and the improved appearance of WESF operations.

- Preparations to receive the first normal form shipment of capsules from Radiation Sterilizers, Inc. (RSI), Decatur, Georgia, facility is in progress. Preparations include coordinating between RSI, Chem Nuclear Systems, Inc. (CNSI), and Westinghouse Hanford Company to ensure that procedures, hardware, and appropriate training are accomplished to support the first shipment which is planned for the third quarter of 1990.

- The Nuclear Regulatory Commission's (NRC's) requested drop test of the CNSI cask liner was successfully completed. The revised package has been transmitted to the NRC.

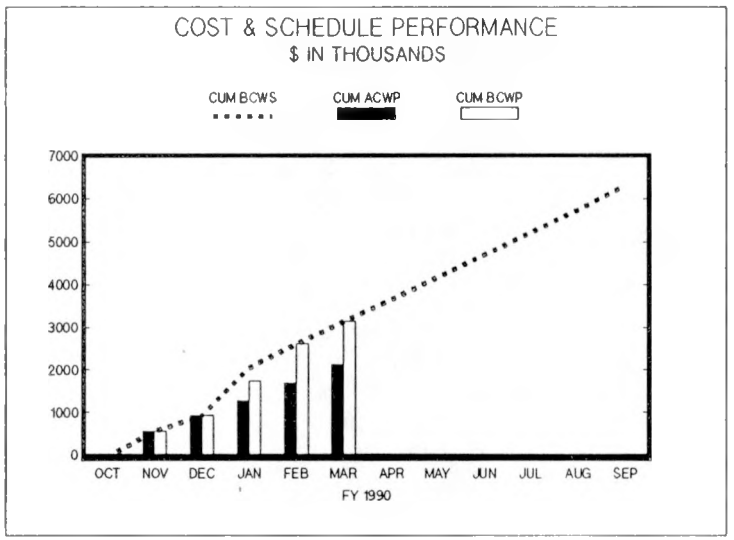
- Waste Encapsulation and Storage Facility receipt of special form capsules from the RSI facility in Decatur, Georgia, resumed in January and is currently ongoing.

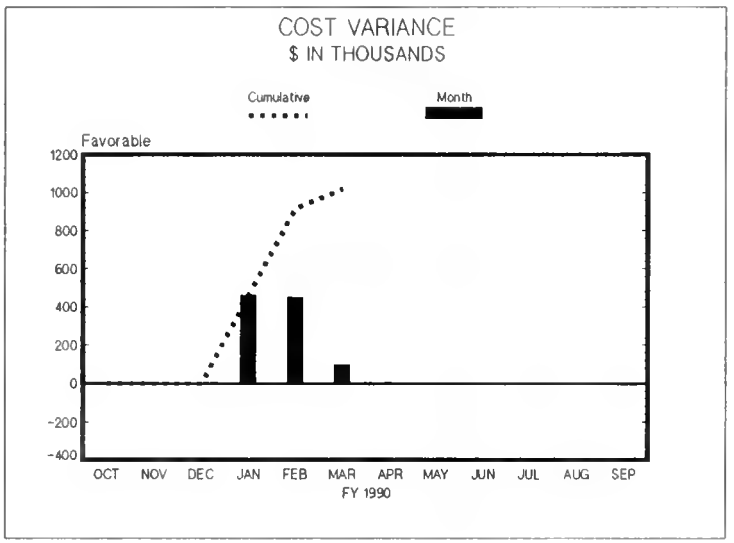
- Since shipments have resumed from Decatur, Georgia, 72 special form capsules have been received at WESF. This leaves 8 special form capsules remaining at Decatur for shipment to WESF. In addition, 77 normal form capsules remain to be shipped at Decatur, Georgia.

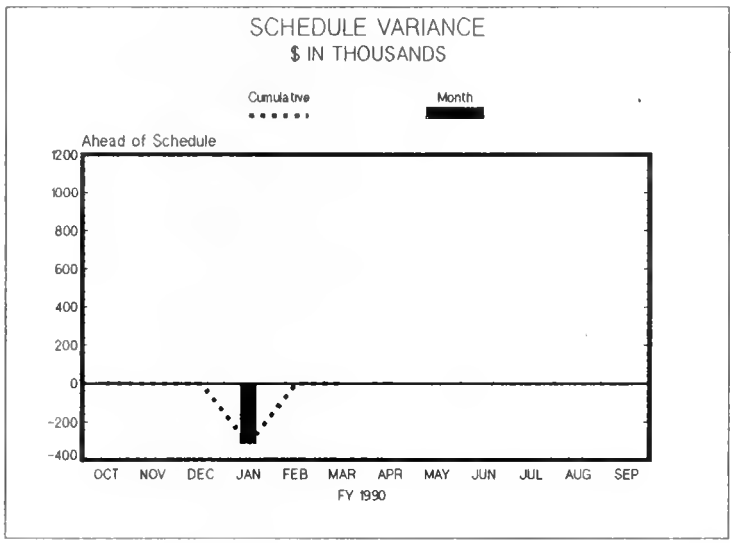
- The 62 cesium capsules at RSI's Westerville, Ohio, facility were successfully clunk tested.

- Pacific Northwest Laboratory continued gamma scanning capsules from the RSI facilities and 2 WESF capsules that have been in storage since being manufactured. These 2 capsules are from the same production pour as some which did not pass the clunk test. Results indicate that the RSI non-clunking capsules all show salt compaction axially along the vertical orientation that the capsules were placed in during use.

CESIUM CAPSULE RECOVERY - W5C
MARCH 1990







CESIUM CAPSULE RECOVERY - W5C
MARCH 1990

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	-51	567	936	2046	2618	3146	3656	4177	4695	5222	5747	6304
$ in	CUM ACWP	-51	567	936	1272	1700	2127						
thousands	CUM BCWP	-51	567	936	1736	2618	3146						
	COST VAR	0	0	0	464	918	1020						
	SCH VAR	0	0	0	(310)	0	0						

Cost Variance

The favorable cost variance of $1,020,000 is due to the following:

1) Planned leased cask costs have not been realized due to the decontamination and testing of RSI-1500 casks.

2) Less-than-planned labor support in the first half of FY 1990 at the Waste Encapsulation and Storage Facility (WESF) and offsite operations. This was due to the late start in WESF receipt of capsules from RSI's, Decatur, GA. facility.

3) Contracts placed and budgeted throughout the year will not be costed until the latter half of FY 1990. This includes a fixed price contract with CNSI for 20 cask liners and contracts with CNSI for loading operations at RSI's, Westerville, Ohio facility.

Schedule Variance

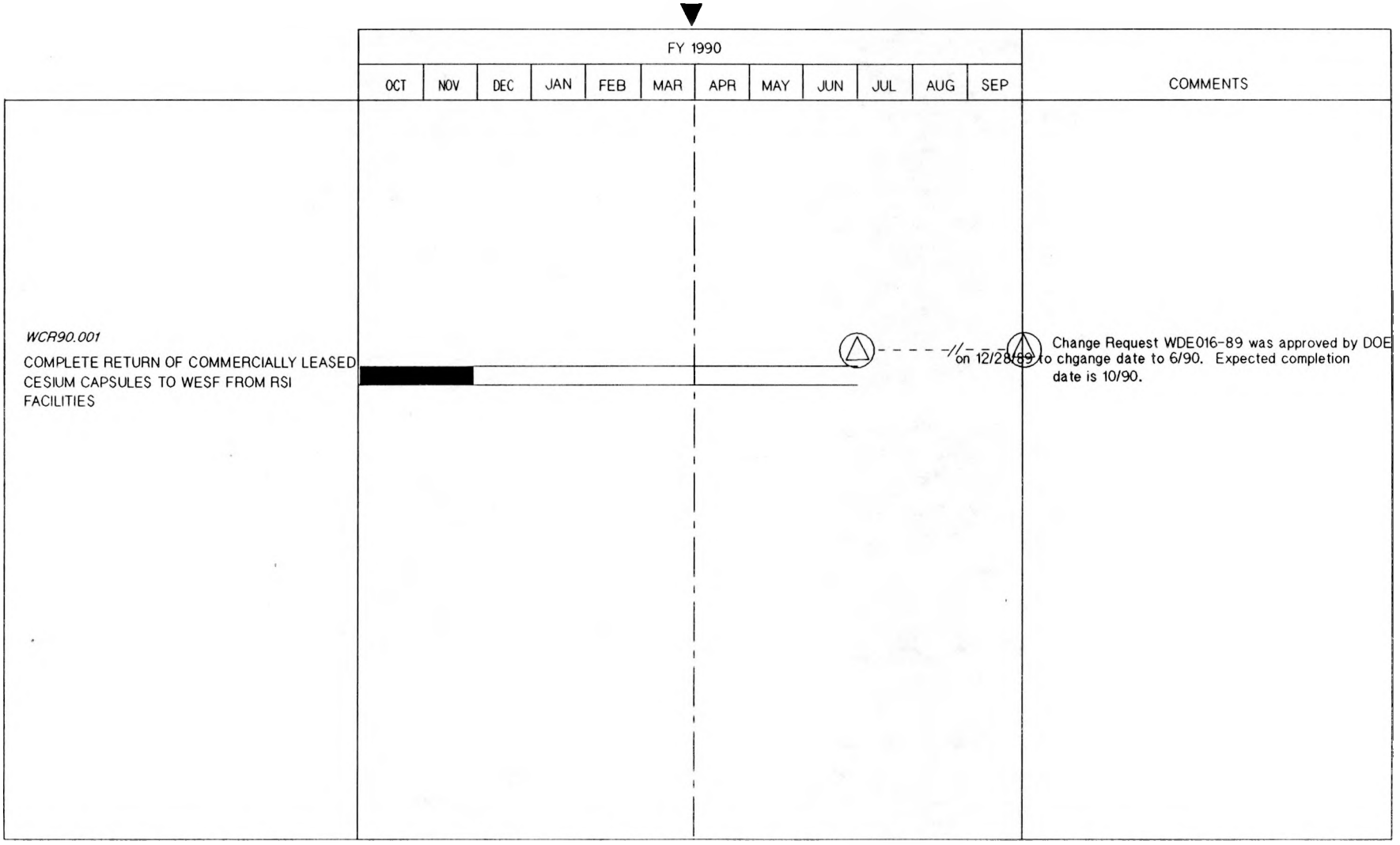
Although this activity shows no schedule variance, there has been a significant slip in completing the return of cesium capsules from RSI Facilities due to cask failures. Milestone WCR90-001, "Complete return of commercially leased cesium capsules to WESF from RSI Facilities", is projected to slip from June 1, 1990 to FY 1991.

PROGRAM IMPACT/RECOVERY PLAN :

Change request (90-137-001) has been prepared by the Cost Account Manager, documenting milestone schedule variance.

Program Manager : _____ Program Business Representative : _____ Scheduler : _____

CESIUM CAPSULE RECOVERY - W5C
MARCH 1990



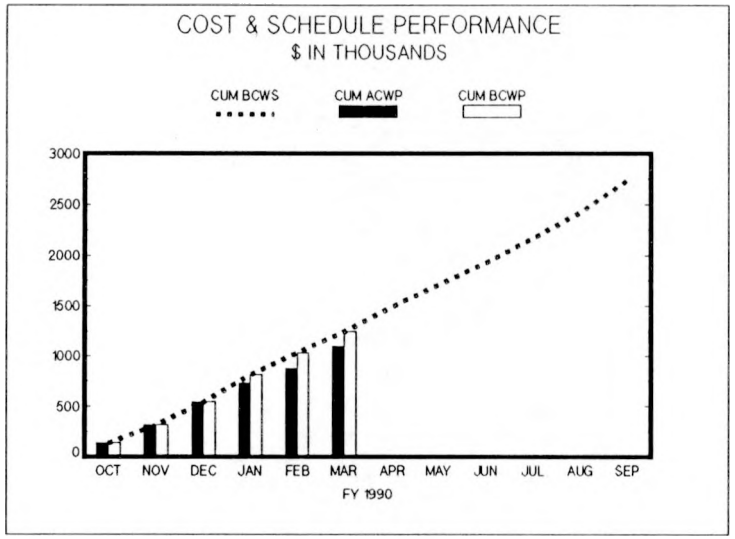
Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

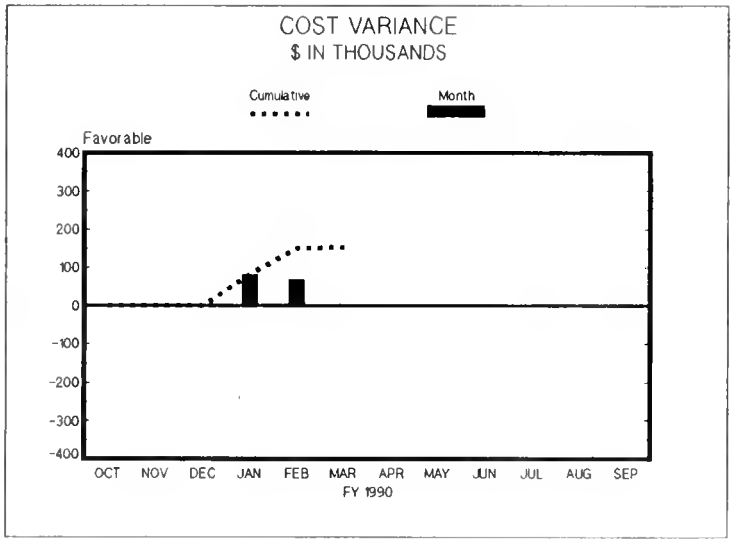
WESF Storage and Surveillance - W5E
GF-73-01-97-0

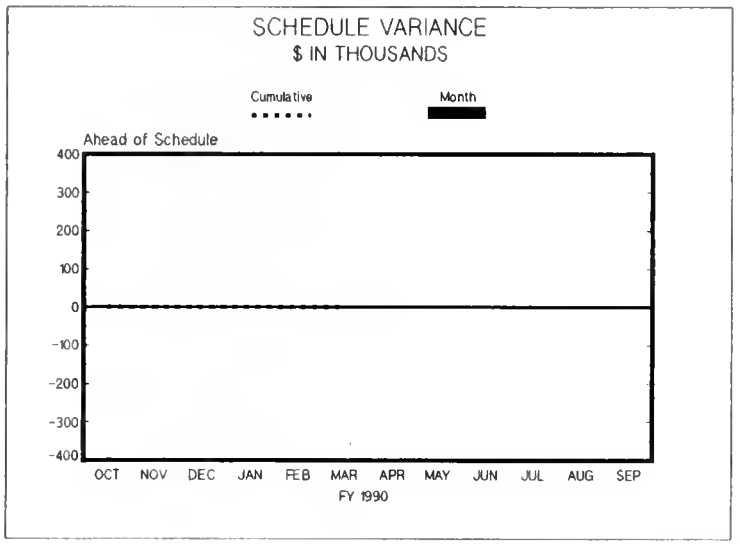
OBJECTIVE: Maintain Waste Encapsulation and Storage Facility (WESF) processing cells in a Condition III standby configuration mode ready to receive the return of cesium capsules from leasees.

- Waste Encapsulation and Storage Facility The WESF F cell successfully passed its dioctylphthalate (DOP) test. This allowed the resumption of receipt of cesium capsules from the Radiation Sterilizers Inc., Decatur, Georgia, facility.

WESF STORAGE AND SURVEILLANCE - W5E
MARCH 1990







WESF STORAGE AND SURVEILLANCE - W5E
MARCH 1990

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
$ in thousands	CUM BCWS	136	321	547	817	1033	1248	1498	1717	1927	2175	2424	2735
	CUM ACWP	136	321	547	735	882	1096						
	CUM BCWP	136	321	547	817	1033	1248						
	COST VAR	0	0	0	82	151	152						
	SCH VAR	0	0	0	0	0	0						

Cost Variance

The favorable cost variance of $152,000 is due to the following:

(1) Lower-than-planned labor costs due to personnel supporting the Cesium Capsule Recovery Program. Additional operators will be brought on board to support surveillance operations.

(2) Lower-than-planned material procurement through the first half of the fiscal year. This was due to the late start by the program in material procurements. This is expected to be corrected as these materials are received in the latter half of FY 1990.

Schedule Variance

Although this activity shows no schedule variances, there has been a significant schedule slippage in the following integrated schedule activities:

- o waste cask loadouts
- o manipulator changeout and decontamination
- o pool cell/capsule surveillance
- o hot cell cleanout (operating gallery)

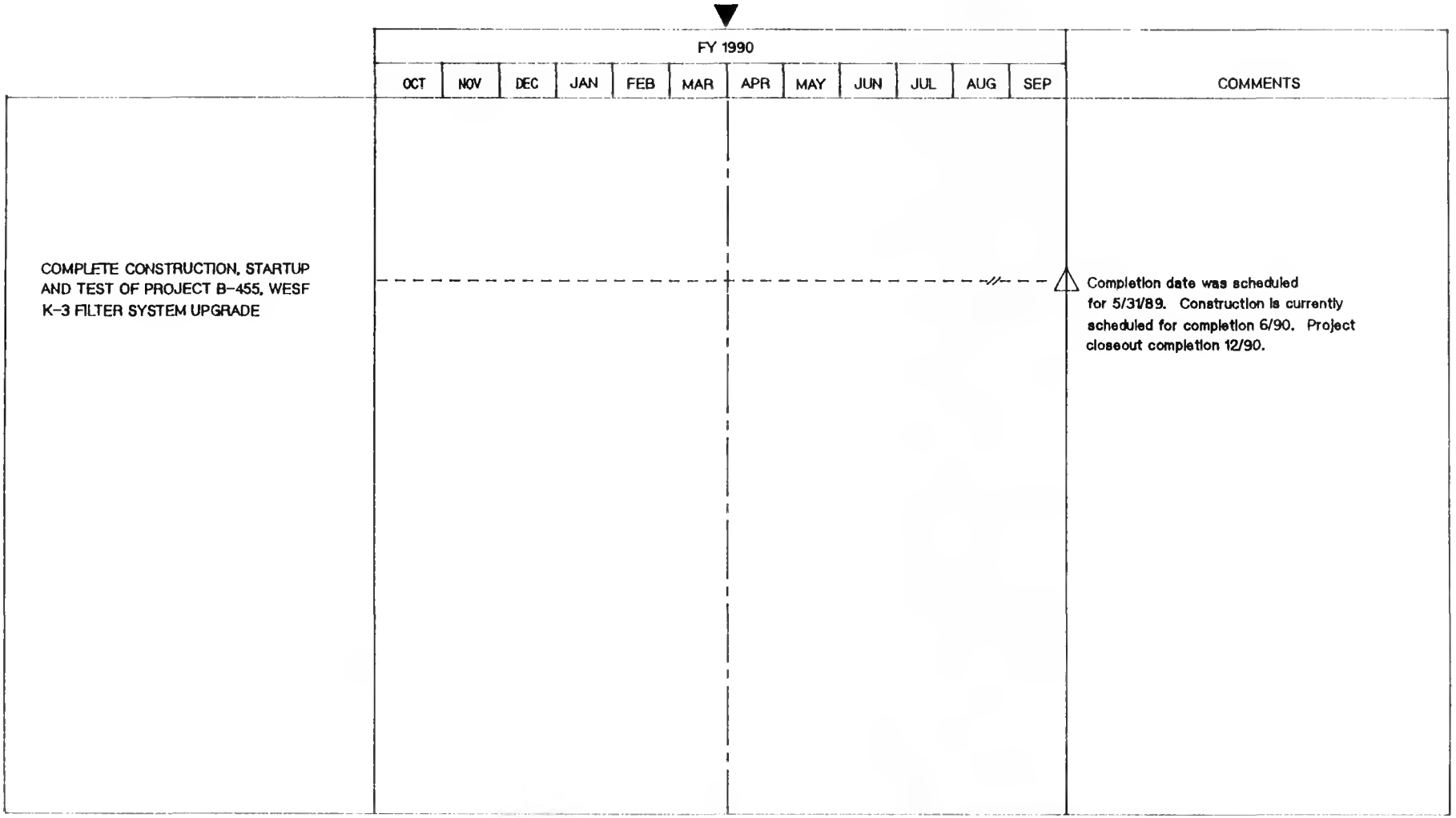
In order to minimize schedule slippage at WESF, increase in nuclear operator staffing is recommended.

PROGRAM IMPACT/RECOVERY PLAN :

A change request (CIN 90-138-004) has been prepared by the Cost Account Manager to redirect funds to hire two additional nuclear operators (replacement staff) to minimize schedule variance at WESF.

Program Manager : _____ Program Business Representative : _____ Scheduler : _____

WESF STORAGE & SURVEILLANCE – W5E
MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Planning and Technology - W6G
GF-73-01-01

OBJECTIVE: Develop and integrate Defense Waste Management Division strategy and long-range plans for the characterization, retrieval, treatment, and disposal of Hanford Defense Waste. Applied technology will be developed as required to support this goal.

- The U.S. Department of Energy-Richland Operations Office (DOE-RL) comments on the first draft of the Hanford Environmental Restoration and Waste Management Technology Plan were incorporated and a second draft was transmitted to the DOE-RL in March for review. The technology plan summarizes the technology development needs for disposal of Hanford defense wastes and is being expedited for issuance in May.

- A second draft of the Hanford Site Environmental Restoration and Waste Management Integration Plan was transmitted to the DOE-RL in March for review. The integration plan addresses all activities required to complete the Hanford site cleanup mission and is scheduled for issuance in April.

- An outline and schedule was completed for preparation of the first annual Tank Waste Treatability Report which is being compiled to fulfill the Hanford Federal Facility Agreement & Consent Order (Tri-Party Agreement) Milestone M-04-00. All of the site waste generators have been contacted to provide information; and Pacific Northwest Laboratory (PNL) has agreed to prepare the historical review of borosilicate glass. The annual report is scheduled for issuance in September.

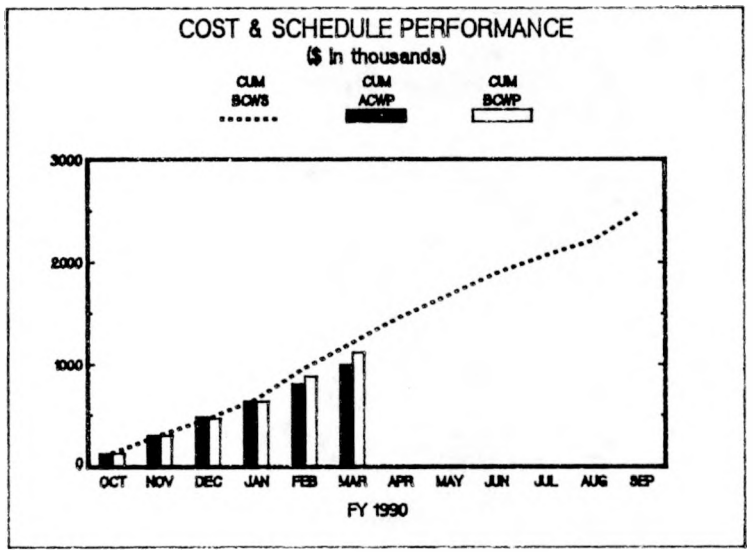
- Comments are being incorporated on the draft DOE-RL Supplement to DOE Order 5820.2A, Radioactive Waste Management and a second draft will be transmitted to DOE-RL in April for review. The final supplement is scheduled for issuance in June.

- The updated transuranic and high-level waste inventories were completed and submitted to the national Integrated Data Base (IDB) in March. The low-level and low-level hazardous (mixed) waste inventories will be submitted to the IDB in April.

- The first Fiscal Year (FY) 1990 Operational Waste Volume Projection was completed in January. Special waste volume projections were also performed to assess the impact of delayed grouting schedules should funding be redirected to the Liquid Effluent Retention Facility (LERF). Results indicate available tank space would be exceeded as early as FY 1995.

- Technology development tasks are being conducted for transuranic extraction (TRUEX) process implementation at the Plutonium Finishing Plant. The flowsheet document is being updated to reflect process changes that result from using dodecane as the extraction diluent. Dodecane replaced tetrachloroethylene as the TRUEX process diluent because of land disposal requirements. The change from the heavy to the light phase organic alters process flowrates, extraction coefficients and the centrifugal contactor weir sizing. These changes are being quantified and verified. The revised flowsheet is scheduled for issuance in April.

PLANNING AND TECHNOLOGY - W6G
MARCH 1990



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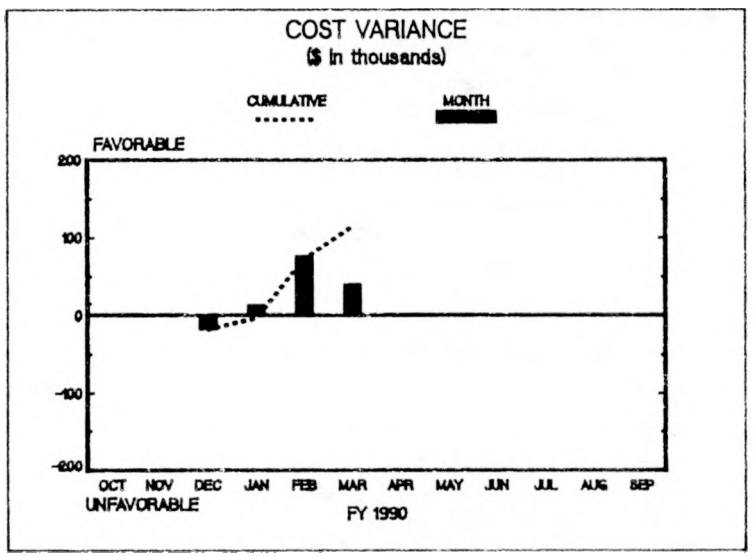
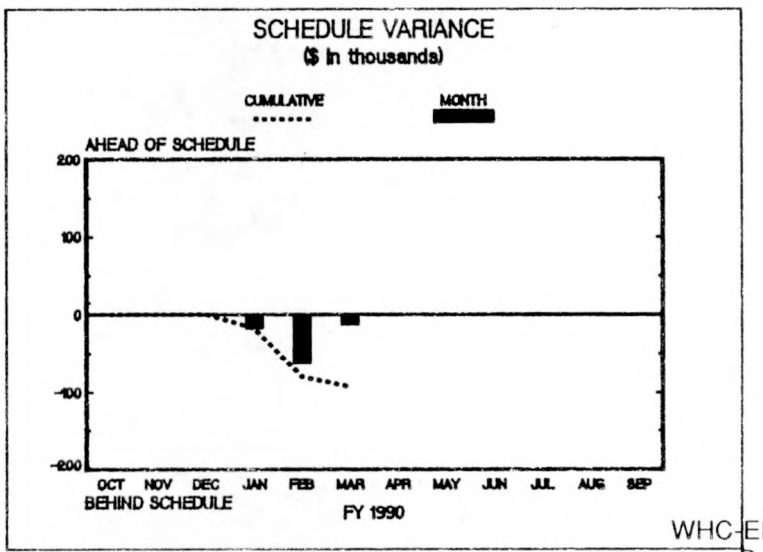




PLANNING AND TECHNOLOGY - W6G
MARCH 1990

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	135	310	475	660	963	1209	1464	1673	1892	2060	2207	2501
CUM ACWP	135	310	493	646	810	1002						
CUM BCWP	135	310	475	642	883	1116						
COST VAR	0	0	(18)	(4)	73	114						
SCH VAR	0	0	0	(18)	(80)	(93)						

Cost Variance

The favorable cost variance of $114,000 is due to charging to other programs for Hanford Environmental Compliance (HEC) project management and Integrated Data Base (IDB) workscope.

Schedule Variance

The unfavorable schedule variance of $93,000 is due to delays in (1) completing a revised flowsheet and centrifugal contactor modifications to incorporate a new diluent in the TRUEX process and (2) collecting the annual waste generator assumptions for the annual waste volume projections (AWVP) document.

PROGRAM IMPACT/RECOVERY PLAN :

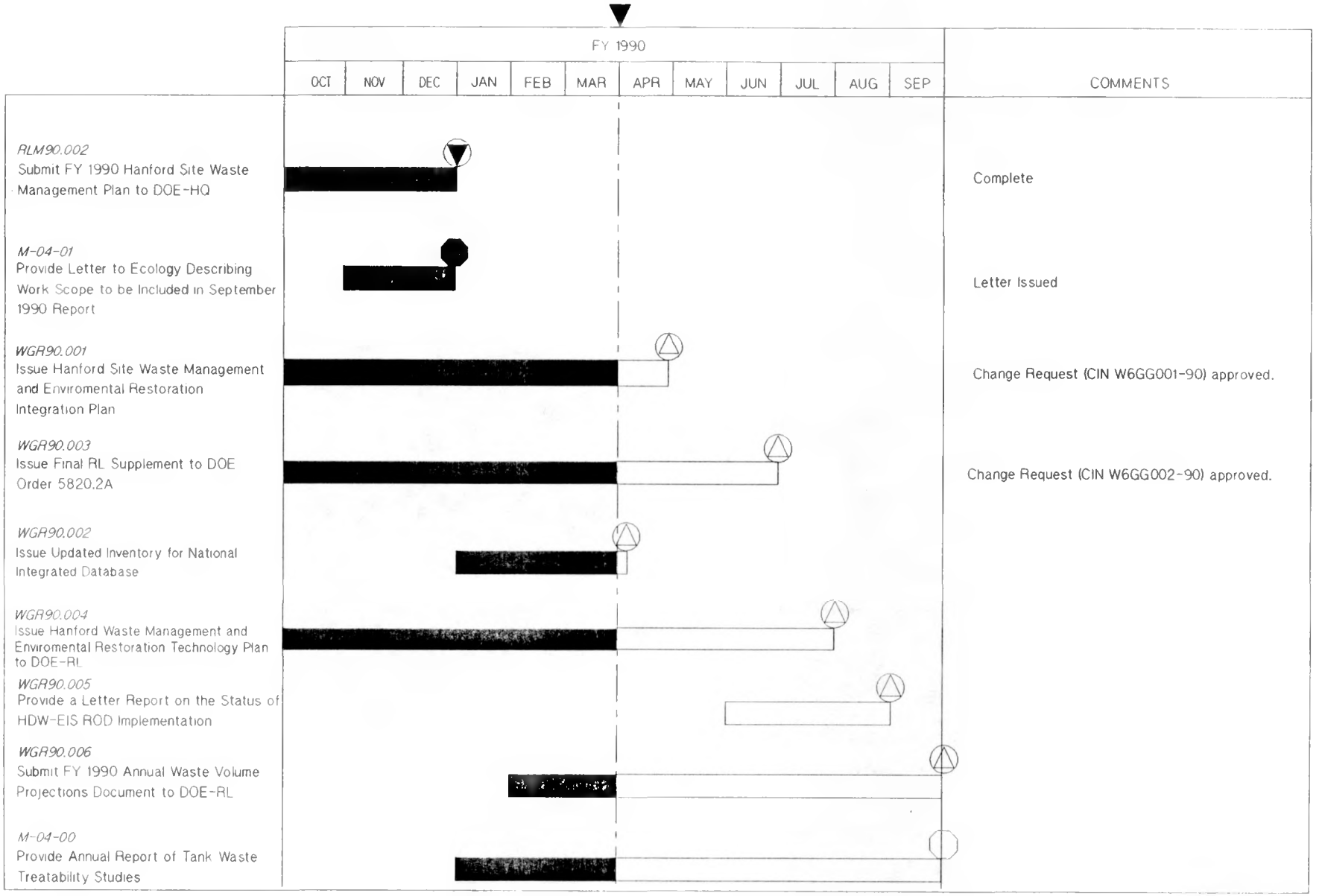
(1) HEC management and IDB personnel have been apprised and the correct charge codes were used in March.

(2) TRUEX process development is behind schedule due to expanded workscope and needs an additional $205,000 to support definitive design for Project C-031, PFP Liquid Effluent Treatment Facility.

(3) No impact is expected to the AWVP milestone.

Program Manager : _____ Program Business Representative : _____ Scheduler : _____

PLANNING AND TECHNOLOGY - W6G
MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

222-S Laboratory Operations - W6L
GF-73-01-01

OBJECTIVE: Provide maintenance and operations support to assure the 222-S Waste Management Laboratory building and analytical equipment are maintained in a fully operational mode. Identify and develop analytical methods and transfer required technology to the analytical laboratories.

- 222-S Environmental Status Assessment The actions required from the 222-S Laboratory Environmental Status Assessment conducted by ICF Technology have been entered into the Environmental Compliance Tracking System. These actions are required to bring 222-S Facility operations into compliance with applicable environmental regulations.

- 222-S Waste Minimization Plan The 222-S Laboratory Waste Minimization Plan was issued in January. The goals and accomplishments appendices are being drafted for issue at a later date.

- Counting Room Determinations The 222-S Laboratory performed 94,321 counting room determinations during the second fiscal quarter of 1990.

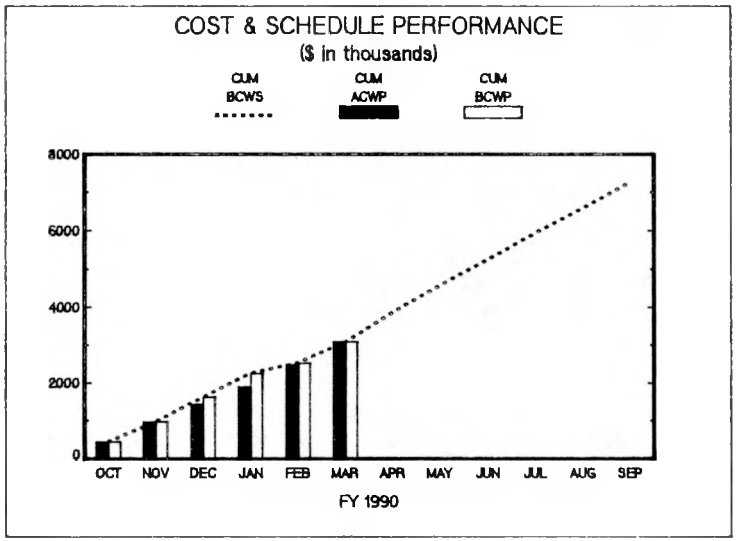
- Sample Determinations The 222-S Laboratory performed 10,571 sample determinations (wet chemistry) achieving a 95.3 percent on-time performance for the second fiscal quarter of 1990.

- Industrial Safety Surveillance The inventory and tracking system for chemicals stored in the 222-SA facility has been completed. Westinghouse Hanford Company's (Westinghouse Hanford's) industrial safety personnel conducted a carcinogen evaluation of the 222-SA Facility on January 16. They were impressed with our chemical inventory system, and took a copy of the system with them for possible application to other facilities.

- New Sample Storage Facility Work is 80 percent complete on the new sample storage facility installation and the units have been placed in Room 2B. When fully installed and operational, these units will allow all of the samples currently being stored in hoods and temporary shielded containers to be relocated to this facility. Completion of installation is currently on hold while spool assemblies for the ventilation system are fabricated and installed.

- Project W-001, 222-S Laboratory Ventilation and Electrical Upgrade Contract negotiations were successfully concluded with Ralph M. Parsons Company for Project W-001, 222-S Ventilation and Electrical Upgrades. Due to delays in completion of the formal contract and discussions on specific wording of the contract, Ralph M. Parsons Company was not formally authorized to proceed in design until March 21. A project kick-off meeting with Ralph M. Parsons Company was held on March 27-28.

222-S LABORATORY OPERATIONS - W6L
MARCH 1990



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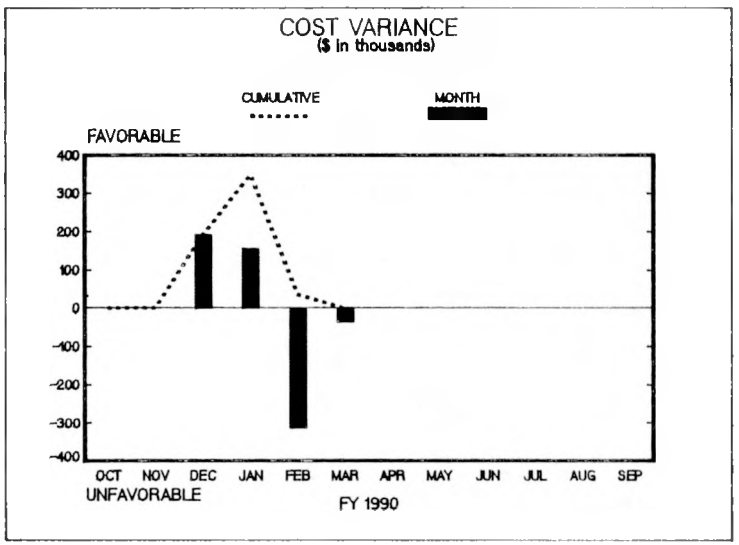
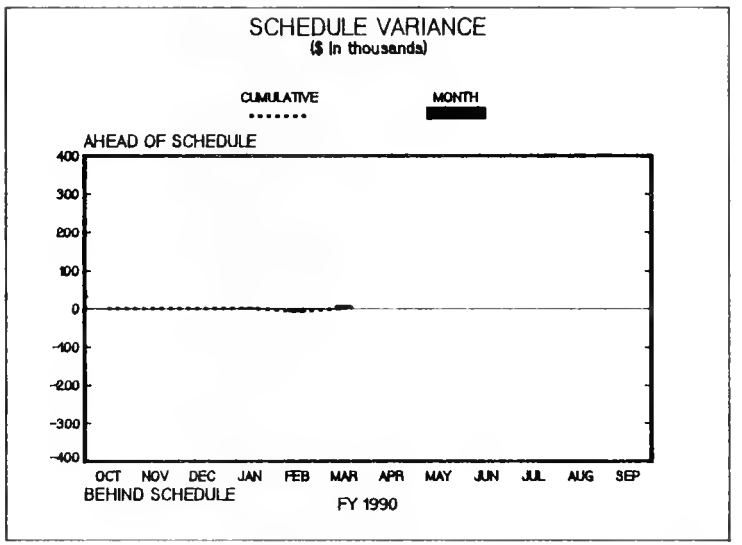




222-S LABORATORY OPERATIONS - W6L
MARCH 1990

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	453	983	1641	2256	2530	3083	3879	4576	5251	5943	6584	7270
CUM ACWP	453	983	1449	1907	2487	3085						
CUM BCWP	453	983	1641	2255	2522	3083						
COST VAR	0	0	192	348	35	(2)						
SCH VAR	0	0	0	(1)	(8)	0						

Cost Variance

The unfavorable cost variance of $2,000 is insignificant

Schedule Variance

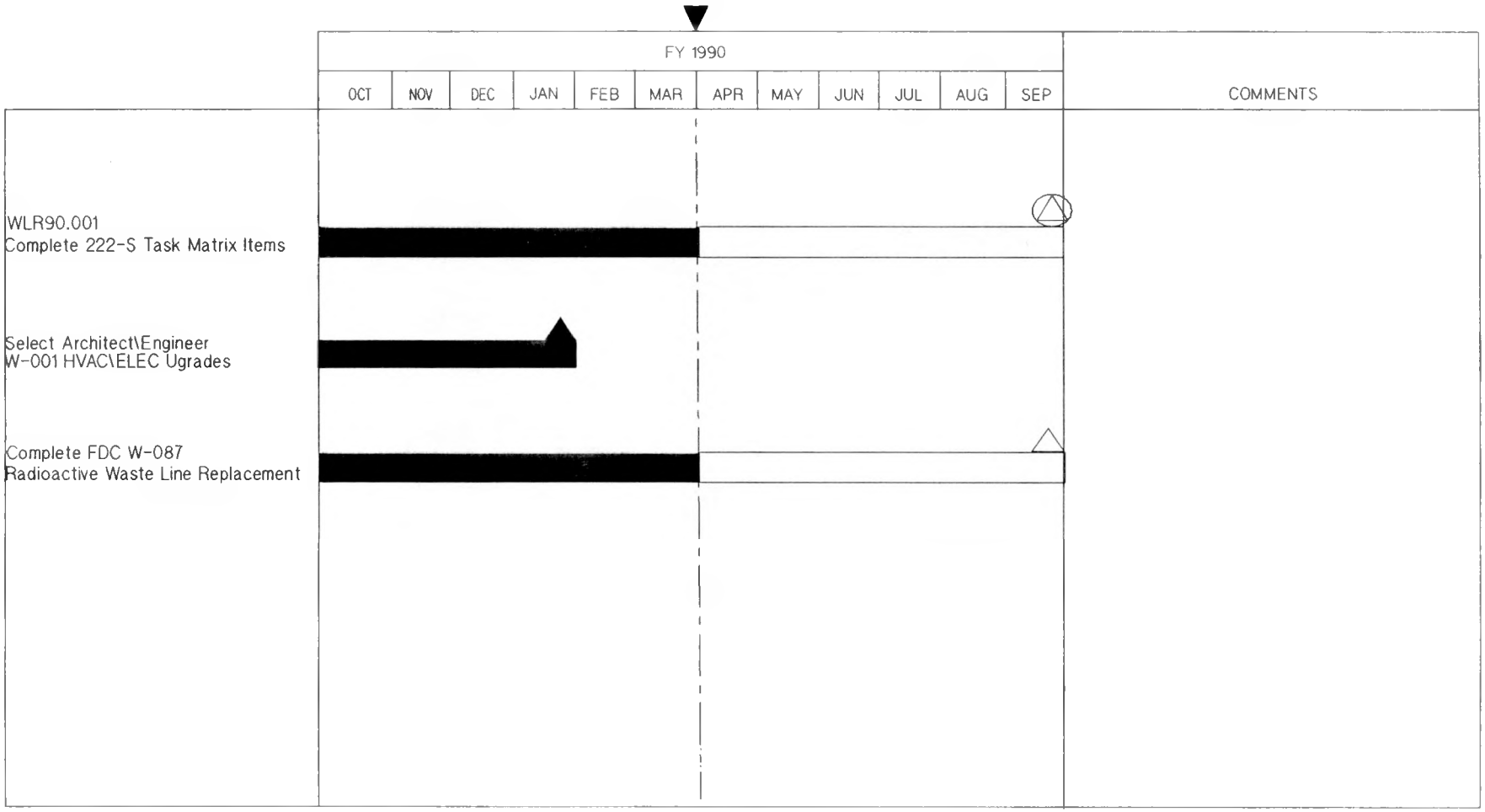
The schedule variance is zero.

PROGRAM IMPACT/RECOVERY PLAN :

None, no program impacts have been identified at this time.

Program Manager : [signature] Program Business Representative : [signature] Scheduler : [signature]

222-S LABORATORY OPERATIONS-W6L
MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Inventories - W6S
GF-73-01-01-0/GF-73-01-81-0

OBJECTIVE: To maintain inventories of Waste Management/Landlord spare parts for the continued safe and reliable operation of plants and equipment at the Hanford Site.
To maintain Common Stores Inventories for use by all Hanford Contractors. The Common Stores Inventory includes coal and fuels, capsules, computers, chemicals, essential materials, and other miscellaneous supplies.
To provide warehousemen and personnel supporting administration of process spares and essential chemicals inventories used by the Waste Management/Landlord Programs, as well as program management personnel.

- Process Spares Inventory/Administration and Warehousing Procurement of B Plant spares, as identified in audit finding SD-WM-ER-033, B Plant Essential Spare Parts Requirements, is in process. Purchase orders for approximately one-third of the spares needed to satisfy the audit are in place. For the remainder, purchase requisitions have been prepared and are currently in for review and signature by cognizant engineers.

  A new inventory system was fully implemented in February. The Hanford Inventory Program (HIP) System combined separate pre-consolidation inventory systems and is an online, real-time system. The implementation of the HIP system challenged accepted practices of limiting the performance of clerical and data entry activities to non-exempt and exempt personnel only. The HIP vests the majority of responsibility for daily data entry in the bargaining unit personnel located in the warehouses where the work is performed. As a result of the economies realized, two open clerical requisitions were cancelled and two bargaining unit positions (vacated by transfers) were left unfilled. The HIP has streamlined the basic processes of receiving and issuing material; has reduced the need for our storekeepers to maintain redundant files, logs, and tracking systems; and overall is less labor intensive. A joint PRICE Proposal is being submitted on the savings associated with implementation of HIP. The "give-back" will be used to help absorb the Hanford Site overhead cost impacts incurred fiscal year-to-date against the Waste Operations Program.

  Part of these efficiencies in labor, also identified by Spares Warehousing, were due to the modification of the originally planned First Drop Receiving and Intra-Area Transportation system. The "modified" First Drop Receiving will allow the customer the *option* of committing material directly to storage at the 2101-M Warehouse, and will help reduce the amount of material staged in the plants.

- Chemicals Inventory/Administration Beginning January 1, cardboard waste boxes were no longer accepted as a waste package. Consequently, waste drum inventories were maximized during the quarter and satisfactorily met the increased demand experienced from waste generators.

  Automation of the chemicals inventory began during the quarter. The computer workstation was received, and a temporary clerk is scheduled to come on board April 2. The temporary employee will be assisting with the automation until a permanent employee is hired.

Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

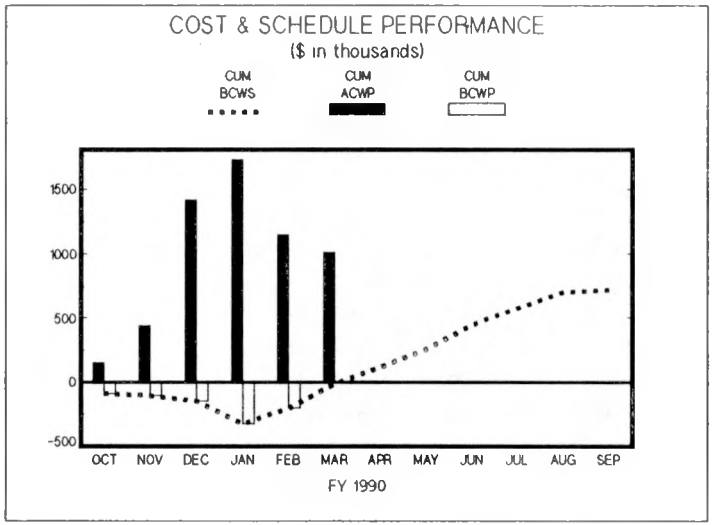
Inventories - W6S
GF-73-01-01-0/GF-73-01-81-0

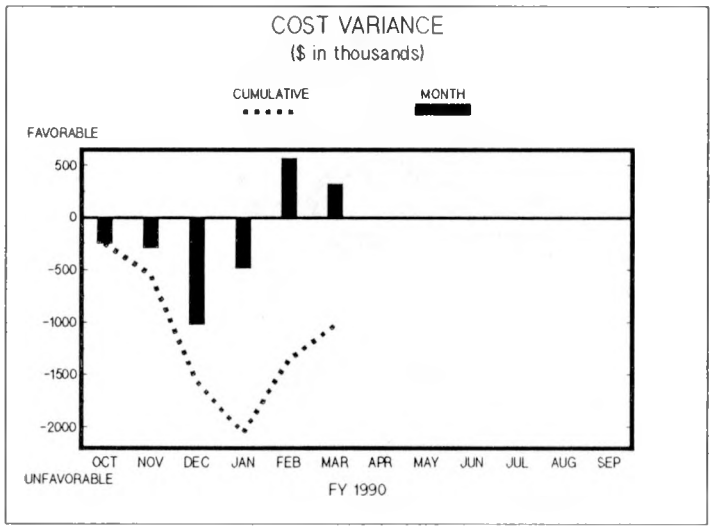
- General Supplies Inventory Most General Stores captions experienced receipt and usage rates as planned. One exception to planned inventory levels was the result of the decision to puchase a large quantity of Hilti bolts. The Hilti Company recently terminated manufacture of these particular bolts, and their new modified bolts, as yet, have not been qualified for use on the Hanford Site. Puchase of the discontinued, yet Hanford Site-qualified bolts, eliminated any negative impacts to ongoing and near-future work at the Hanford Site. Hanford Site customers have been notified that the Hilti bolts are available. This should help liquidate the stockpile of this product..

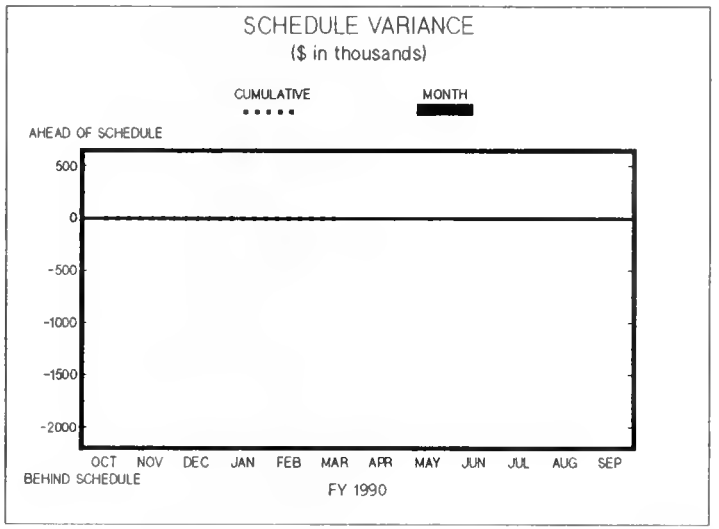
- Computer Stores Inventory The Hanford Computer Stores are currently experiencing a high, but decreasing, level of inventory due to a backlog of orders (see Cost Variance explanation for more detail). The growth in inventory is temporary as these items are "in the pipeline" awaiting processing, delivery, and billing to customers. A large inventory buildup is typical at the beginning of every fiscal year, but is progressively worked off throughout the fiscal year.

- Coal Inventory No shipments were received during the first quarter, resulting in the planned decrease to coal inventories. Coal shipments were resumed in January at levels sufficient to support current Plant operating schedules and heat steam needs only. As a result of the mid-year review, an additional $200,000 decrease to the coal inventories is planned (funding must be reinstated in FY 1991 to ramp up coal deliveries for the upcoming winter months). This additional decrease will help fund Site Environmental Monitoring impacts affecting the Waste Operations Program.

INVENTORIES - W6S
MARCH 1990







INVENTORIES - W6S
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS *	-90	-106	-147	-326	-200	-9	120	260	445	581	707	725
	CUM ACWP	154	444	1420	1725	1151	1016						
	CUM BCWP	-90	-106	-147	-326	-201	-9						
	COST VAR	-244	-550	-1567	-2051	-1352	-1025						
	SCH VAR	0	0	0	0	0	0						

Cost Variance Explanation

The unfavorable cost variance of $1,025,000 consists of a backlog of orders at the Hanford Computer Store. An inherent system delay between receipt of items and the delivery and billing of them, causes this variance. Items currently in inventory are already earmarked for delivery; however, items must be processed and/or assembled before delivery and billing can take place. Also, all items must be received before delivery of the complete order can take place.

Schedule Variance Explanation

None.

PROGRAM IMPACT/RECOVERY PLAN :

No impact to planned yearend inventory levels is anticipated. Computer Stores inventory continues to be closely monitored.

* The negative budgets are associated with planned reduction of the coal inventory to reach the optimum five-month supply level. At the end of fiscal year 1989, the coal inventory was at an unacceptably high level. This was due to unanticipated shutdowns: (1) of processing plants, thereby drastically reducing the need for coal to produce process and/or heat steam and (2) of the 300 Area Steam Plant, also reducing the need for coal.

End Function Manager : R. B. [signature] Program Business Representative : [signature] Scheduler : N/A

Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Projects Technical Support Office - HX

OBJECTIVE: The Projects Technical Support Office (PTSO) coordinates and integrates the technical support activities required to end interim storage and achieve the safe and permanent disposal of high-level waste in accordance with the Defense Waste Management Plan (DWMP). The PTSO is responsible for providing programmatic and technical assistance to the U.S. Department of Energy-Headquarters (DOE-HQ) Waste Management Projects Division in conjunction with program managers at the Operations Office who provide coordination of the site-specific waste management projects. Any deferment of this activity has a direct impact on the startup of the Defense Waste Processing Facility (DWPF), the West Valley Demonstration Project (WVDP), and the design and construction of the Hanford Waste Vitrification Plant (HWVP) as well as other major systems acquisitions and major projects in waste management.

- The DOE-HQ approved three financial plan changes for fiscal year 1990 totalling $600,000 to initiate independent technical review activities for Quality Assurance (QA) programs, Safety Analysis Reports (SARs), and Operational Readiness Reviews. PTSO will direct and manage these three new Technical Review Groups (TRGs) for DOE-HQ. Charters and Statements of Work were prepared and approved. TRG activities for both the QA program and SAR reviews have been initiated.

- The Statement of Work and an abbreviated outline for the white paper "Evaluation and Selection of Borosilicate Glass as the Recommended Waste Form" was finalized and transmitted to DOE-HQ from the U.S. Department of Energy-Richland Operations Office (DOE-RL). A first draft of this paper is being prepared by the Pacific Northwest Laboratory (PNL) and will be available in mid-April for internal review.

- The PTSO provided a technical review team to assist DOE-HQ staff in completing their assessment of the operational readiness of the Saltstone Facility at the Savannah River Site (SRS). This team completed its assessment and made its recommendation to DOE-HQ. There were no significant findings. The Saltstone Facility will be started up shortly.

- The meeting with the Environmental Protection Agency (EPA)-Headquarters to discuss designating vitrification as the Best Demonstrated Available Technology (BDAT) was held on March 27 at the Savannah River Site. The EPA continues to express interest in this approach; no major technical issues which would prevent the designation of vitrification as BDAT were identified during the meeting.

- The TRG for Waste Form Qualification Reports (WQR) initiated its review of the DWPF Process Control package (WQR-10) which is one of the key documents that will be reviewed by the Nuclear Regulatory Commission. The TRG review is scheduled to be completed by May 31.

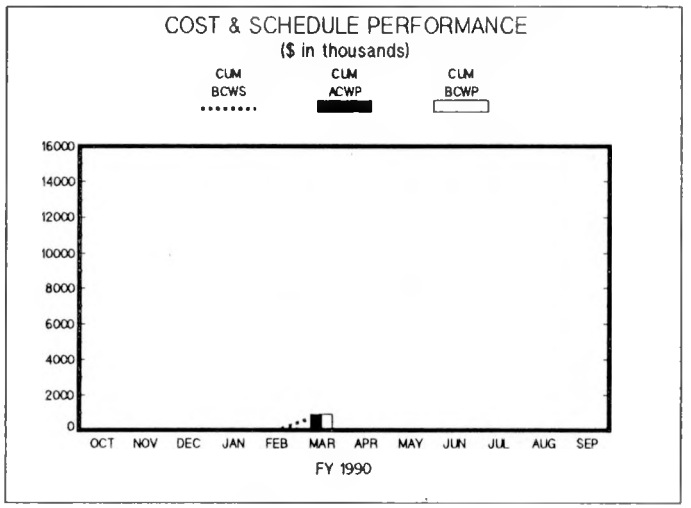
- The TRG for DWPF's Waste Compliance Plan (WCP) completed its review of the written responses to their comments on the WCP. These comments will be incorporated into the WCP and the TRG will then perform a closeout review of the document.

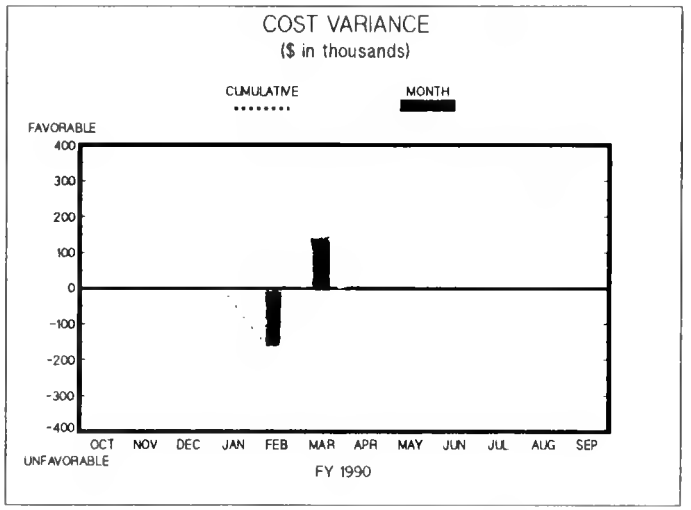
Projects Technical Support Office - HX

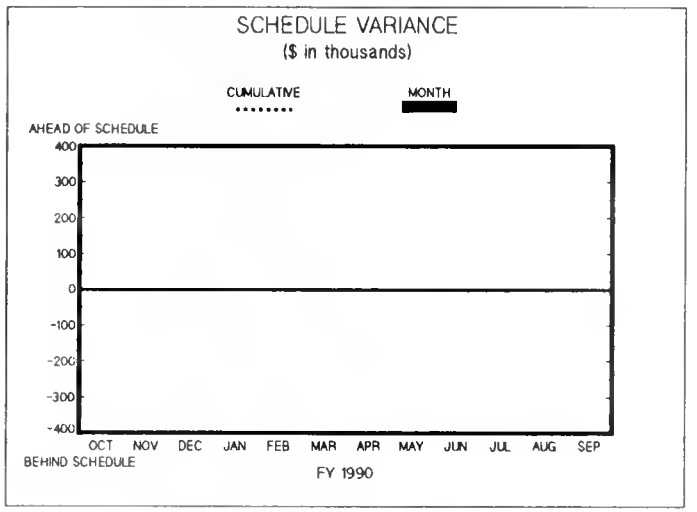
- The TRG for HWVP's Waste Form and Canister Description met with the document generator to clarify and begin resolution of their review comments. They are now awaiting responses to comments from HWVP.

PROJECTS TECHNICAL SUPPORT OFFICE - HX

MARCH 1990







PROJECTS TECHNICAL SUPPORT OFFICE - HX
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	154	306	467	613	757	903						
	CUM ACWP	154	306	467	613	917	920						
	CUM BCWP	154	306	467	613	757	903						
	COST VAR	0	0	0	0	-160	-17						
	SCH VAR	0	0	0	0	0	0						

Cost Variance

Insufficent for comment

Schedule Variance

None

PROGRAM IMPACT/RECOVERY PLAN :

None

Program Manager : [signature] Program Business Representative : [signature] Scheduler : N/A

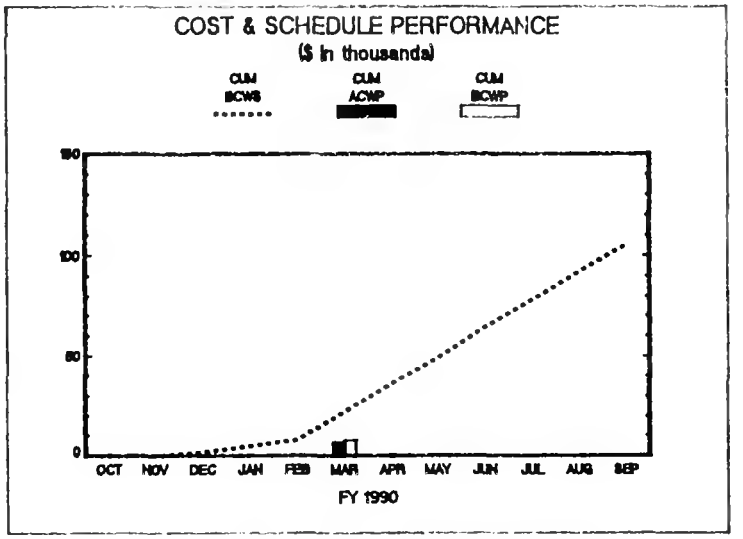
Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Defense Transuranic Waste Technology - HY
GF-73-01-51

OBJECTIVE: Support evaluation and demonstration of technology necessary to certify, process, package or otherwise handle transuranic waste in accordance with the U.S. Department of Energy Order 5820.2A, specifically as it relates to the eventual shipment of newly generated and stored waste to the Waste Isolation Pilot Plant. These activities are conducted in conjunction with Waste Operations.

- Documentation on the treatment of spent resins and solid waste acceptance criteria is being reviewed. A task plan for an engineering study to evaluate spent ion exchange resin processing methods was completed in March and a commitment has been secured from an internal organization to perform the equipment sizing and cost estimating tasks.

DEFENSE TRANSURANIC WASTE TECHNOLOGY - HY
MARCH 1990



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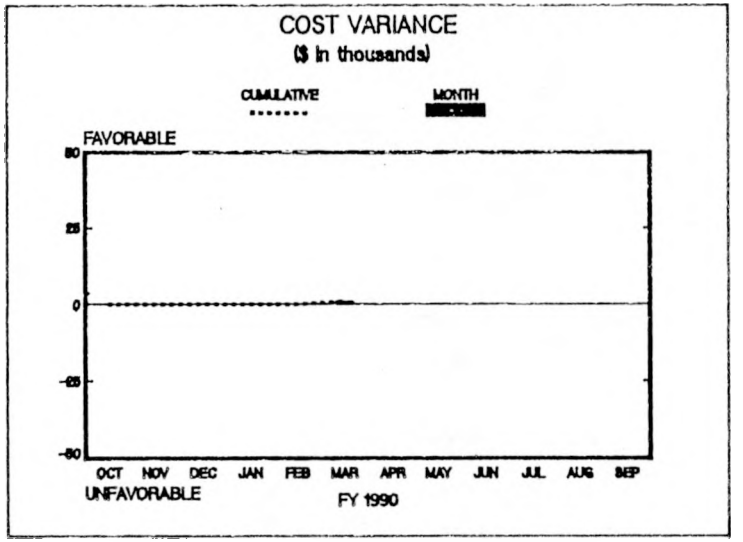
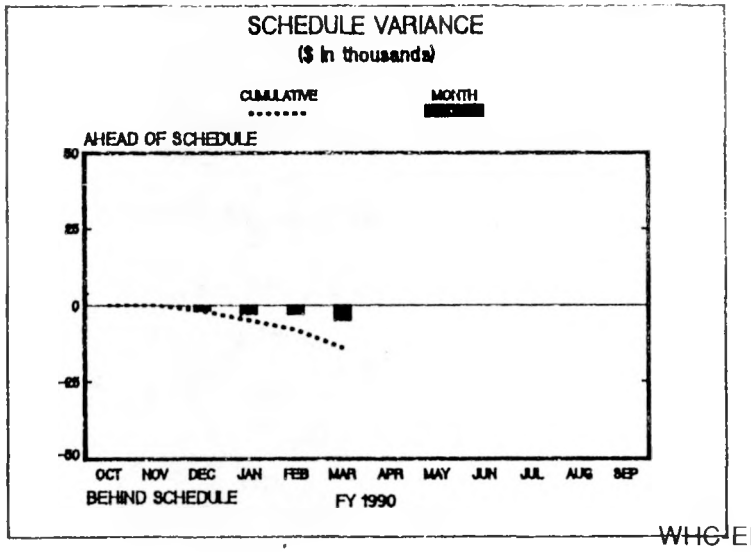




DEFENSE TRANSURANIC WASTE TECHNOLOGY - HY
MARCH 1990

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	0	0	2	5	8	22	36	49	64	78	92	105
CUM ACWP	0	0	0	0	0	7						
CUM BCWP	0	0	0	0	0	8						
COST VAR	0	0	0	0	0	1						
SCH VAR	0	0	(2)	(5)	(8)	(14)						

Cost Variance

The favorable cost variance of $1,000 is insignificant.

Schedule Variance

The unfavorable schedule variance of $14,000 is due to a delay in starting the spent resin processing engineering study (ES) due to manpower limitations.

PROGRAM IMPACT/RECOVERY PLAN:

A staff engineer has been hired and the ES was initiated in March. There is no impact to the completion date.

Program Manager: [signature] Program Business Representative: [signature] Scheduler: N/A

Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Environmental Monitoring - MJ
GF-73-01-98

Objective: This program provides Hanford Site-wide Resource Conservation and Recovery Act (RCRA) monitoring of radioactive and hazardous groundwater components. The program provides expense support for the installation of RCRA compliant groundwater monitoring wells, groundwater sampling and analysis, and reporting of results. It provides groundwater data collection and well head documentation to support closure plans and Part B permits. The program also supports the maintenance and remediation of operational and RCRA groundwater monitoring wells and the development of new drilling technology.

- Low-Level Burial Ground (LLBG) Groundwater Assessment Program Plans Statistical analyses required by 40 CFR 265.93(b) from groundwater monitoring activities in LLBGs Waste Management Areas 1 and 3 indicate that these facilities may be affecting groundwater quality. This finding requires that groundwater quality assessment program plans be prepared for further detailed assessment of groundwater quality in these areas. During this reporting period, the WMA-1 Assessment Plan (WHC-SD-EN-AP-021) and the WMA-3 Assessment Plan (WHC-SD-EN-AP-022) were issued and appropriate reporting to the Washington State Department of Ecology (Ecology) was instituted.

- Purgewater On January 19 readiness review of the first 1,000,000 gallon ModuTank for storage of purgewater was completed and authorization to begin operations was received the next day. Purgewater temporarily stored in the 100KW tank was successfully transferred to the ModuTank by January 31. The timeliness of this achievement avoided the requirement to prepare an official closure plan for the 100KW tank and saved approximately $500,000. A second ModuTank was brought on-line in mid-February. Cattle troughs used throughout the site for temporary storage of purgewater generated by sample operations are being emptied. Delivery of tank equipped sample trucks are scheduled in the next months. Environmental Part A and Part B permit applications and a Clean Air Permit application to utilize the ModuTanks as solar evaporators are being prepared. Concurrent with the Clean Air Permit application, treatment of the purgewater in treated effluent disposal facilities will be evaluated. At double the present generation rate of purgewater (i.e. 400,000 gallons per year), the purgewater rate of 0.76 gallons per minute should not have a significant effect on treated effluent facilities. The very successful efforts to limit the generation of purgewater will continue.

- Well Drilling Cuttings Disposal Procedures are being prepared by the Office of Sample Management to handle the disposal and management of barrels of drilling cuttings and sediment samples at the drill sites. Sediment analysis data, chemical analysis data, and historical waste constituent data are being analyzed to determine the hazardous constituents which may exist in the drill cuttings. The drill cuttings will be disposed of based on these analyses and a determination by the Office of Sample Management.

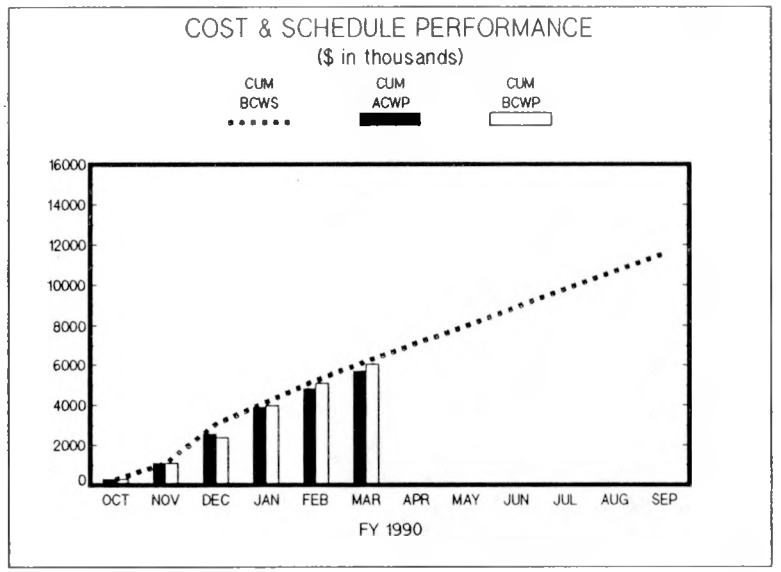
Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

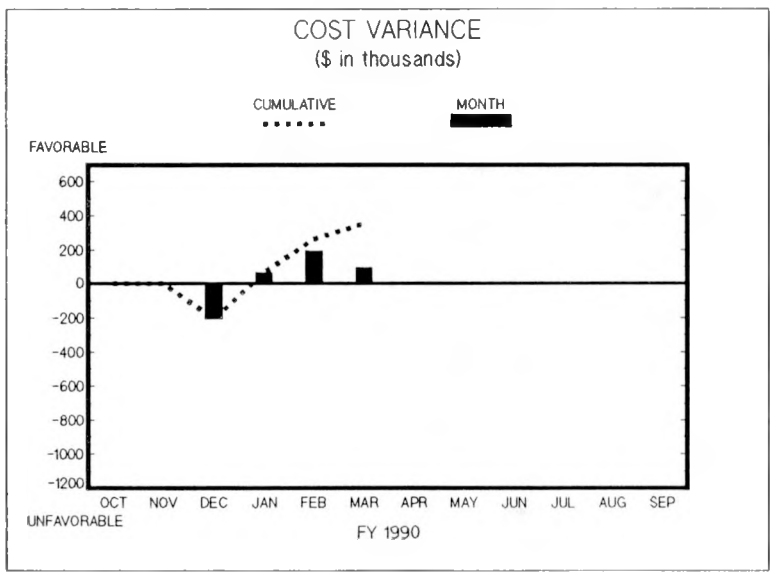
Environmental Monitoring - MJ
GF-73-01-98

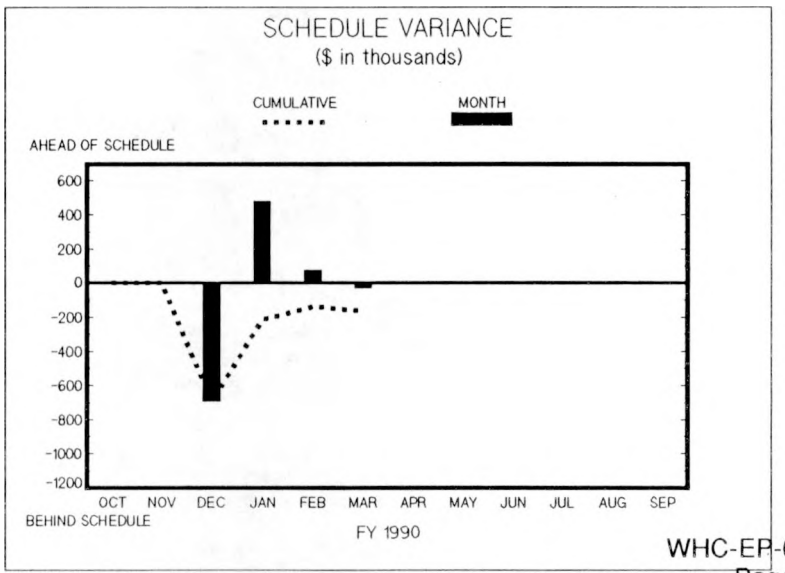
- 1990 RCRA Drilling Activity The 1990 groundwater monitoring well drilling program in support of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestones M-24-05 through M-24-11 is ahead of schedule. Fifteen wells are at total depth and at various stages of completion. Still scheduled for drilling are eleven wells around the single-shell waste storage tanks (currently on hold by request of the State of Washington): one at the Grout facility and three around the S-10 Ditch. These last four are scheduled for completion in April.

- Quarterly and Annual Groundwater Monitoring Reports - The Quarterly Groundwater Monitoring Report for October-December 1989 and the Annual Groundwater Monitoring Report June 1989 were completed and issued to Ecology.

ENVIRONMENTAL MONITORING - MJ
MARCH 1990







ENVIRONMENTAL MONITORING - MJ
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	311	1098	3079	4180	5238	6201	7101	8001	8901	9801	10701	11598
	CUM ACWP	311	1098	2593	3900	4839	5681						
	CUM BCWP	311	1098	2387	3967	5101	6038						
	COST VAR	0	0	-206	67	262	357						
	SCH VAR	0	0	-692	-213	-137	-163						

Cost Variance

A favorable cost variance of $357,000 exists which is due to purgewater disposal costs being significantly less than planned. This is the result of the successful accelerated removal of purgewater from temporary storage in 100K Area tanks, very successful water volume minimization efforts and the postponement of work on a solar evaporator basin which may ultimately be deleted from the work scope. The underrun in purgewater is partially offset by continuing increases in PNL costs supporting the RCRA well installation and groundwater sampling and analysis costs.

Schedule Variance

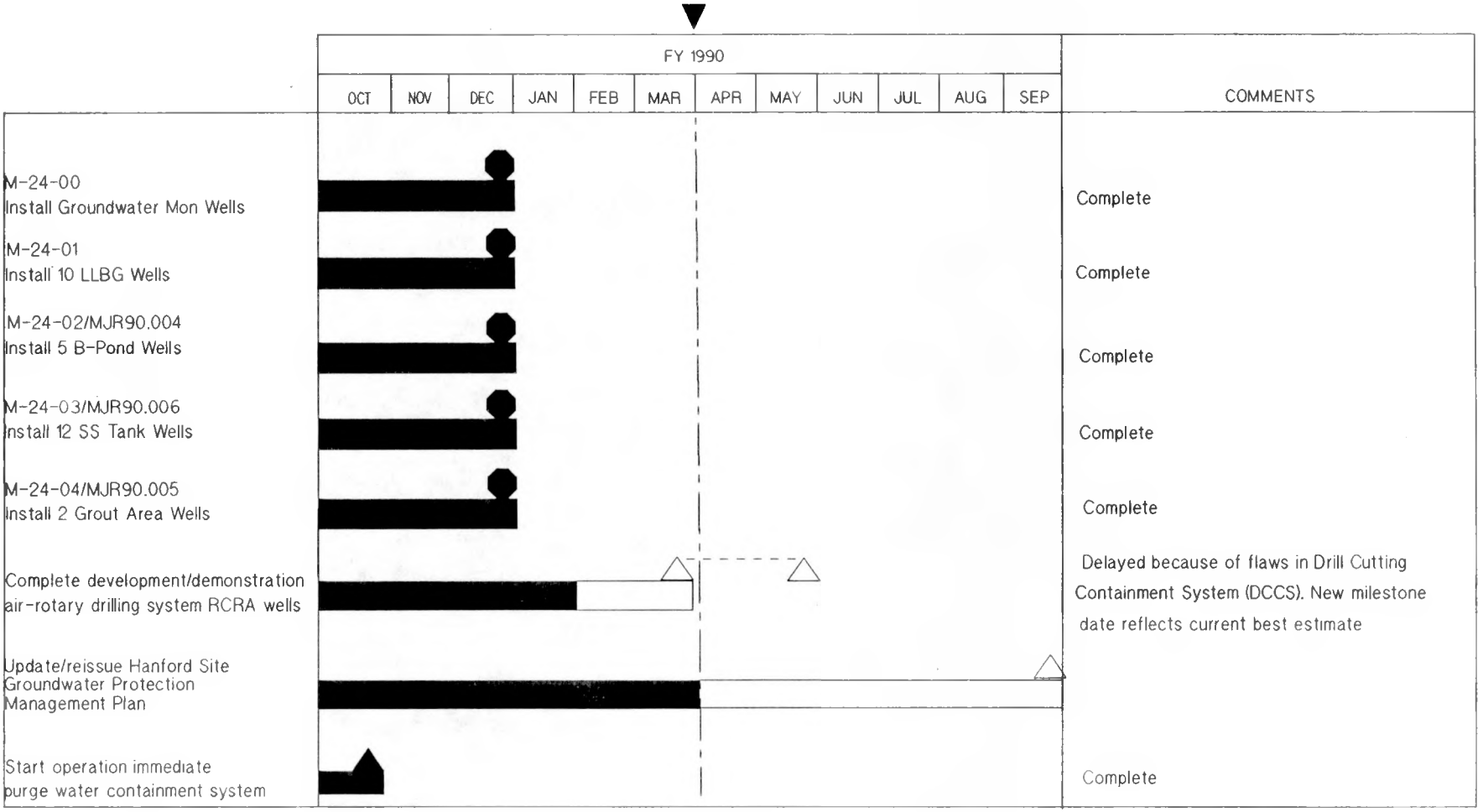
An unfavorable schedule variance of $163,000 exists which is due to: (1) Routine well maintenance and scheduled well remediation and abandonment work are behind schedule due to the late delivery of well pump maintenance equipment; (2) The CDR for the purgewater solar evaporator has been put on hold pending completion of negotiations with the regulators regarding the acceptability of solar evaporation for purgewater; (3) The air-rotary drill cutting containment system required extensive rework and has delayed completion of the final performance report until June. The unfavorable schedule variance is partially offset by the ahead of schedule RCRA well installation program. Except for the single-shell tank wells, which are on hold by request of Ecology, CY 1990 wells should be completed in May.

PROGRAM IMPACT/RECOVERY PLAN :

The continuing cost underun in the purgewater activities will offset the increasing costs of RCRA well installation, sampling, and analysis costs. No impact to the program is expected.

Program Manager : R R Thompson Program Business Representative : [signature] Scheduler : Jerry P Burgess

ENVIRONMENTAL MONITORING-MJ
MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Solid Waste Management - ML
YN-01-00-00-0

OBJECTIVE: Store and dispose of solid waste; certify and store transuranic waste; ship to the Waste Isolation Pilot Plant; and develop, operate, and maintain engineered Solid Waste Treatment, Storage, and Disposal Facilities.

The 1989 annual dangerous waste report was transmitted by the U.S. Department of Energy-Richland Operations Office (DOE-RL) to the Washington State Department of Ecology (Ecology) in February.

The Phase 1 design drawings for Project W-016, Radioactive Mixed Waste Storage Facility, have been released, and Kaiser Engineers Hanford Company (KEH) opened 10 bids for construction of Phase 1. William L. Lewis submitted the low bid at $1,044,000. The fair cost estimate was $1,180,000. Award of contract is pending DOE-RL approval. The current forecasted building completion is November 1990, which coincides with the projected need to initiate waste loading in the building. This would not allow any time for readiness review between construction completion and operation. A meeting will be initiated to identify a reasonable course to achieve a timely, operable storage building. Phase 2 design for the project was initiated on schedule, and detailed planning is being completed by KEH to support the Phase 2 design baseline completion of June 1990.

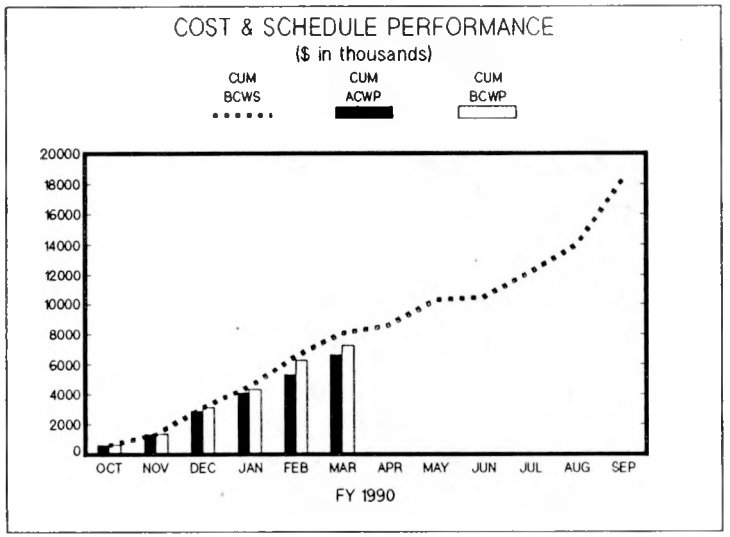
Design for Project W-025, Radioactive Mixed Waste Landfill Facility, is proceeding on schedule. Planning for linear leachate compatibility testing is proceeding with Pacific Northwest Laboratory. The preliminary hazard class for the facility has been established as a potential moderate. As a result of the preliminary hazard classification, there will be a delay to construction start. The moderate classification drives the project to prepare a preliminary safety analysis report (PSAR). The schedule for completing the PSAR indicates at least a 14-month slip in the start of construction.

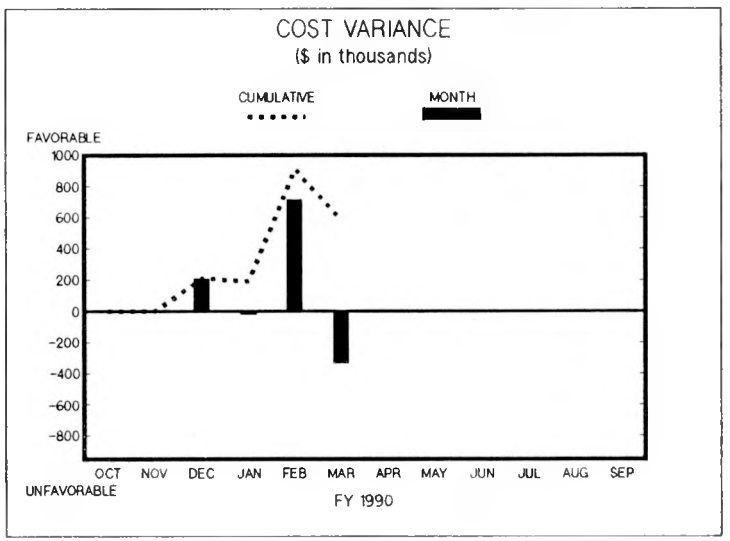
Defective joint sealant on six buildings for Project W-033 through W-037 and W-065 through W-072, radioactive mixed waste storage buildings, has been removed and replaced. Downspouts and eve gutters have been received and installation has commenced. The buildings have been released to operations.

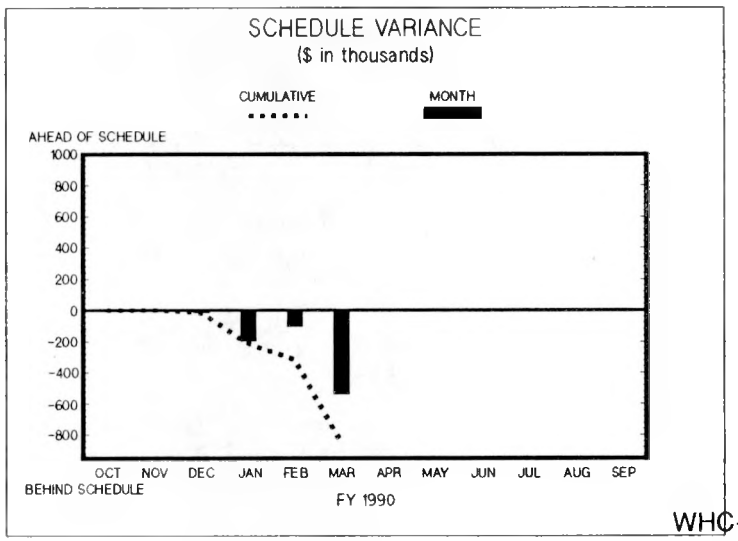
The ninth set of submarine reactor foundations was completed in four weeks from the notice to proceed by Puget Sound Naval Shipyards. This was necessary to accommodate an accelerated shipping date. During the construction process there were no safety infractions or any nonconformances.

The final radionuclide characterization guidelines document was issued. This document will help the Hanford Site waste generators develop in-house characterization programs that will meet DOE Order 5820.2A, Solid Waste Management. This will result in data that can be used in performance assessment and safety assessment documentation for Solid Waste Storage, Treatment, and Disposal Facilities.

SOLID WASTE MANAGEMENT - ML
MARCH 1990







SOLID WASTE MANAGEMENT - ML
MARCH 1990

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	651	1363	3127	4535	6569	8082	8644	10280	10444	12196	14025	18379
CUM ACWP	651	1363	2899	4128	5338	6647						
CUM BCWP	651	1363	3109	4320	6250	7228						
COST VAR	0	0	210	192	912	581						
SCH VAR	0	0	-18	-215	-319	-854						

Cost Variance

The favorable cost variance of $581,000 is a direct result of: 1) A delayed contract accrual that is administered by DOE-RL procurement for work supported by Golder Associates for definitive design on Project W-025, "RMW Disposal Facility"; 2) Delayed HEPA filter testing to determine if they meet WIPP acceptance criteria resulted from staffing shortages; 3) Lack of manpower to support waste compactor operations; 4) Repairs to the TRUSAF Assay Counter, real time radiograph and building ventilation systems have resulted in curtailment of operations.

Schedule Variance

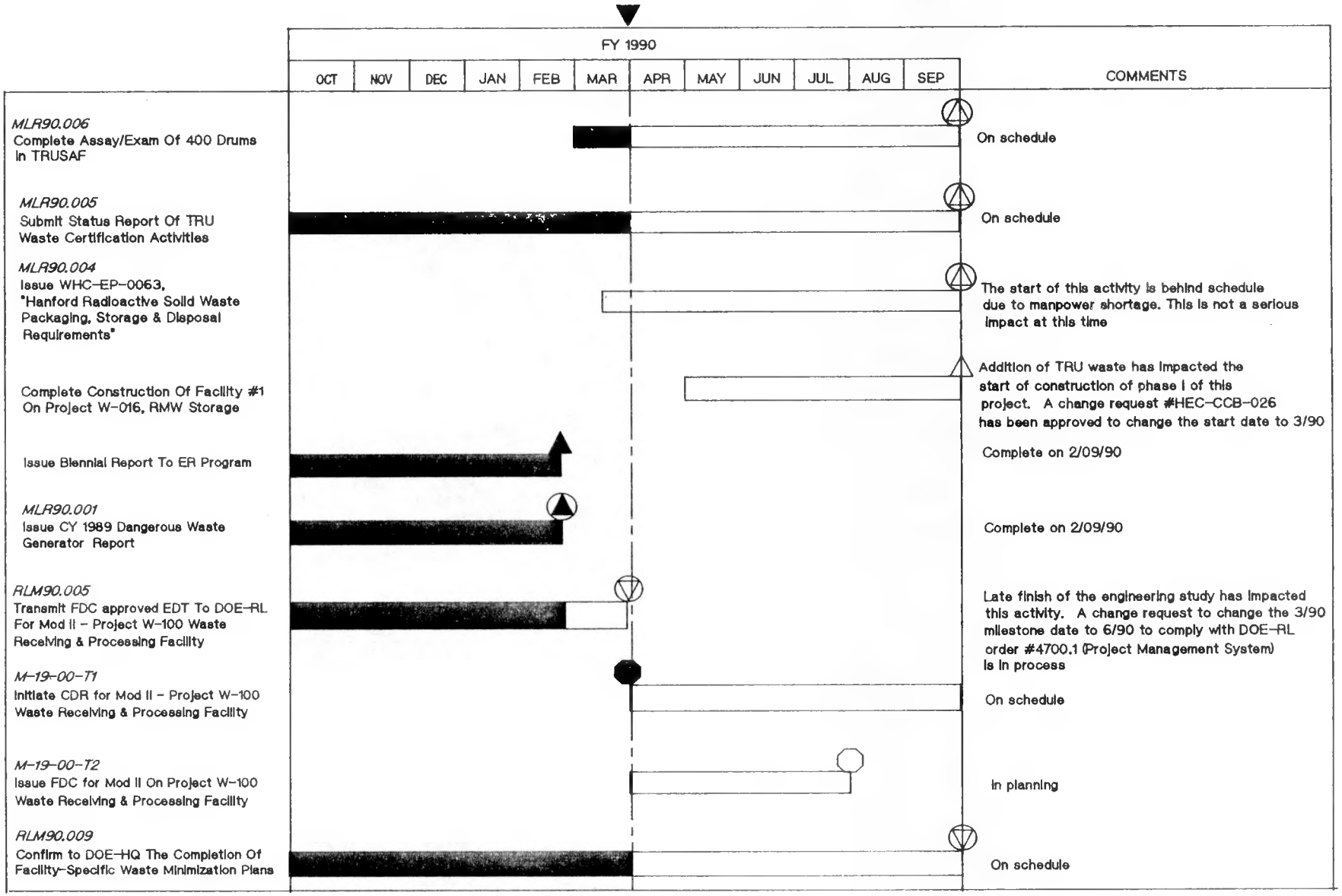
The unfavorable schedule variance of $854,000 consists of the following: 1) Delays in FDC preparation supporting Project W-100, "Wrap Module 2" due to late finish of the engineering study; 2) Manpower assigned to other activities delayed waste compactor operations; 3) Engineering study supporting Project W-114, "Hanford Central Waste Complex Support Facility"' has been placed on hold pending review of utilizing portable module facilities in lieu of permanent facilities.

PROGRAM IMPACT/RECOVERY PLAN :

Program Manager: [signature] Program Business Representative : [signature] Scheduler : [signature]

SOLID WASTE MANAGEMENT - ML

MARCH 1990



Defense Waste Operations
FY 1990 QUARTERLY STATUS
January - March 1990

300 Area Radioactive Liquid Waste Facility - MS
EW-30-10-30

Objective: This program provides for the operation of the 340 Facility to collect liquid radioactive waste from the 300 Area operations and the transfer of the waste to double-shell storage tanks in the 200 Area.

Waste Handling Operations. A total of 17,307 gallons of radioactive liquid waste was processed and shipped to the 200 Area double-shell tanks for storage.

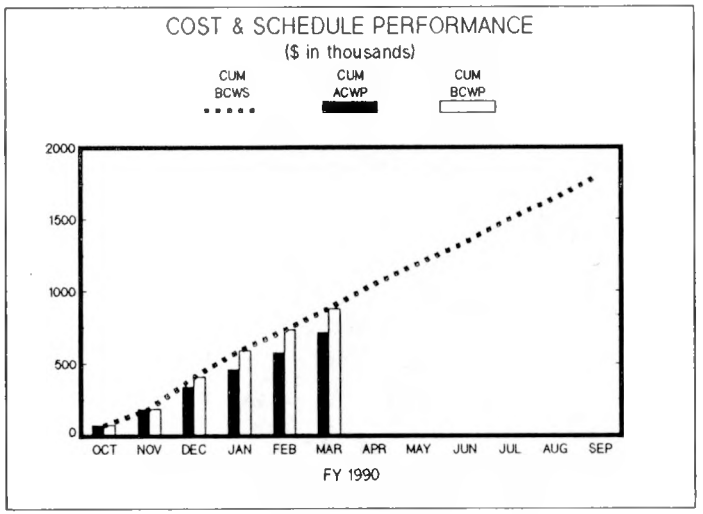
Seventeen drums of low-level radioactive solid waste was packaged and sent to the 200 Area burial trench.

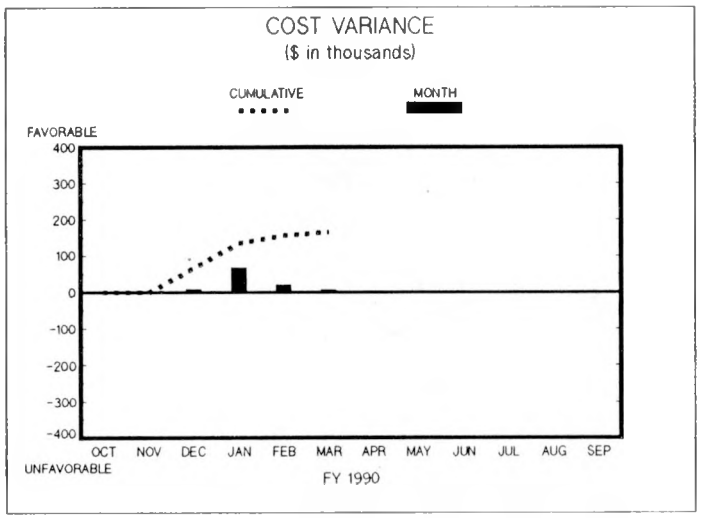
Nine containers of hazardous waste was packaged and sent to the Non-Radioactive Dangerous Waste Storage Facility (616 Building) for storage.

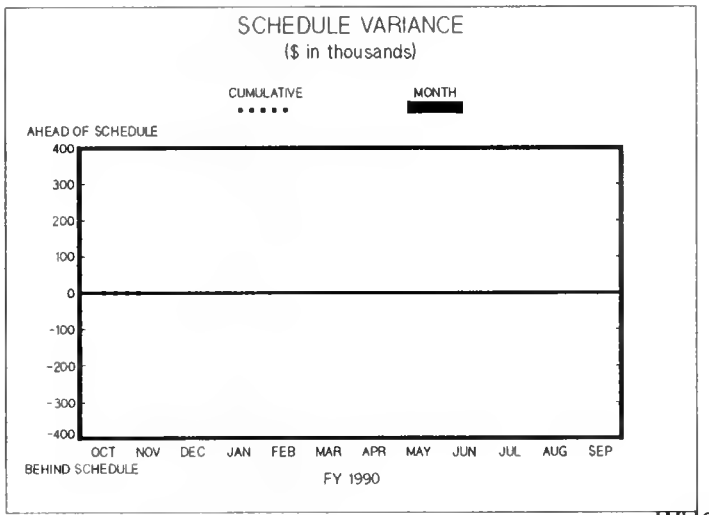
Building Operations. The following maintenance and repair work was completed:

- Installed flange guards in 340A, 340 vault, and valve boxes.
- Changed out 340A radiation monitor and placed it on a surge protector.
- Repaired 340 Building exhaust fan.
- Replacement of valves PW-1, PW-2, WV-31, and WV-32 with 'circle seal' check valves in 340B was completed.
- The railcar platform drawbridge in 340B was modified and reinstalled.

300 AREA RADIOACTIVE LIQUID WASTE FACILITY - MS
MARCH 1990







300 AREA RADIOACTIVE LIQUID WASTE FACILITY - MS
MARCH 1990

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	75	186	406	591	734	879	1050	1196	1338	1500	1644	1804
CUM ACWP	75	186	339	186	577	714						
CUM BCWP	75	186	406	186	734	879						
COST VAR	0	0	68	134	157	165						
SCH VAR	0	0	0	0	0	0						

Cost Variance

Cost variance underrun can be attributed to the following activities. Installation of the emergency exits for the 340B building has not been completed awaiting the acceptance of the engineering design package. The design package is expected to be approved by the end of May. The connection to the Hanford Local Area Network was less than the estimate provided by Information Resource Management during planning. A subcontract through Pacific Northwest Laboratory for the tank integrity assessement has not been passed to Westinghouse Hanford. The final tank assessement report has been submitted and the billing will be processed in the near term. Maintenance work has not been performed as scheduled due to increased railroad waste tanker car shipments necessary to meet the ninety day shipping requirement for accumulated waste. When the car is in the facility, the dose rate increases considerably which precludes maintenance activities.

Schedule Variance

PROGRAM IMPACT/RECOVERY PLAN :

A maintenance outage is being scheduled during the month of June to perform backlog maintenance work.

Program Manager : [illegible] Program Business Representative : L. M. Hastings Scheduler : n/a

Defense Waste and Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
January - March 1990

TABLE OF CONTENTS

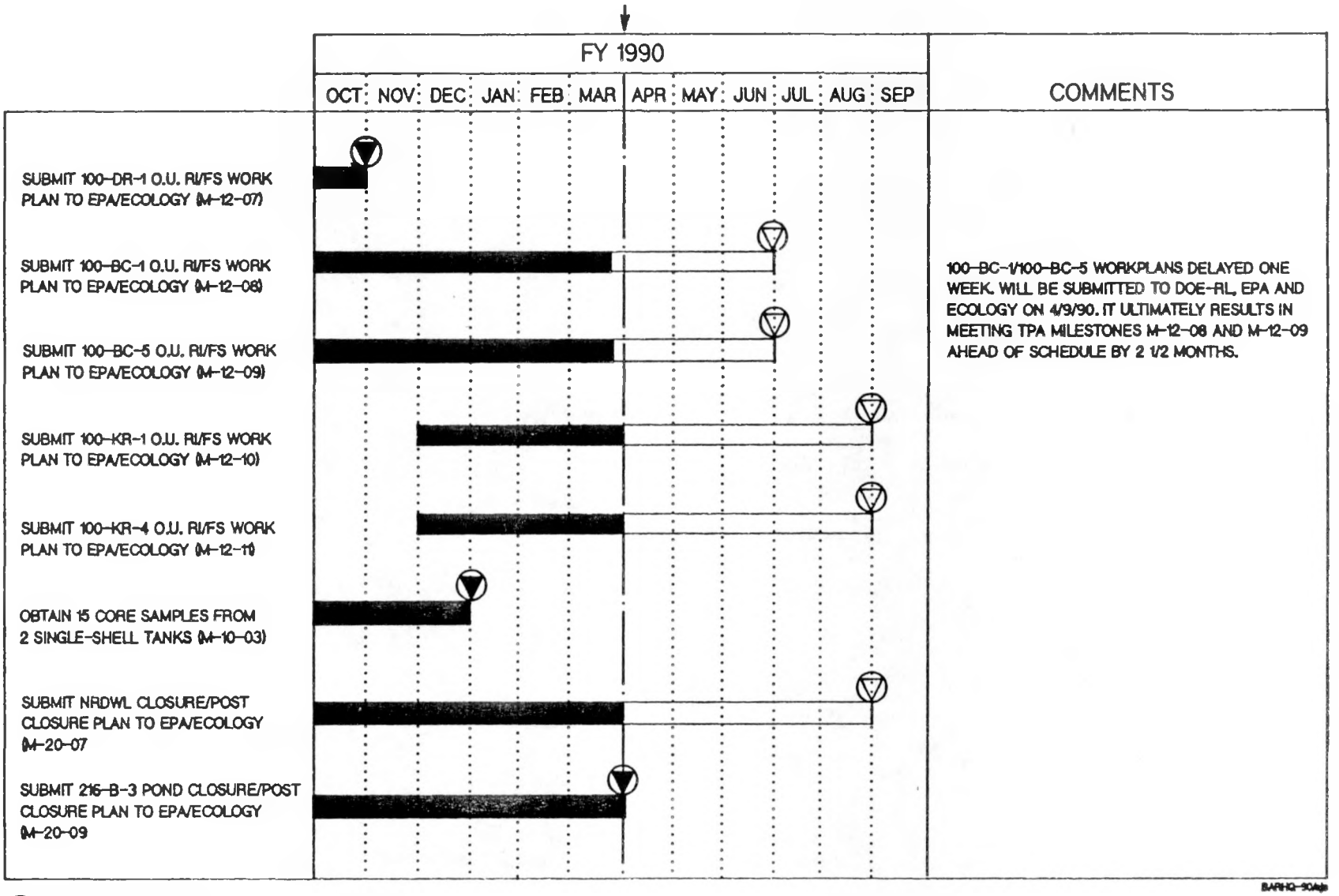
SECTION IV

ENVIRONMENTAL RESTORATION PROGRAMS

NOTE: All dollars are Expense Funded ONLY - unless otherwise noted.

HANFORD ENVIRONMENTAL RESTORATION
REMEDIAL ACTIONS PROGRAM

FY-90 DOE-HQ MILESTONE SUMMARY



▽ DOE-HQ MILESTONE

Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

OBJECTIVE: The primary objective of the Environmental Restoration Remedial Actions Program is to support the U.S. Department of Energy - Defense Program's efforts in identifying and restoring all inactive hazardous waste sites (prior to March 1, 1987) at Defense Program installations and ensuring compliance with applicable Federal, State, and local environmental laws and regulations. Secondary objectives are: (1) to focus the budgeting and scheduling of Comprehensive Environmental Response, Compensation and Liability Act Superfund/ Amendments and Reauthorization Act, and Resource Conservation and Recovery Act Section 3004(u) activities for all of Defense Programs, (2) to provide identification, emphasis, and accountability for all Environmental Restoration Remedial Actions needs resulting from past Defense Programs hazardous waste activities, and (3) to provide an identifiable, coherent program by which all activities supporting Environmental Restoration Remedial Actions can be coordinated, prioritized, and reported. Specifically as it relates to the Hanford Site, wastes generated are regulated both as radioactive materials and as hazardous chemicals.

PROGRESS DURING REPORT PERIOD

MAJOR ACCOMPLISHMENTS:

General Program Support
The Hanford Environmental Business Opportunities Conference was held on January 17. The attendance far exceeded expectations and by all accounts the conference was well received and considered to be a success.

Hanford Remedial Action Environmental Impact Statement
On January 25, representatives from U.S. Department of Energy-Richland Operations Office (DOE-RL), Westinghouse Hanford Company (Westinghouse Hanford), and Pacific Northwest Laboratory (PNL) met to discuss the recent DOE-RL decision to prepare a National Cleanup Environmental Impact Statement (EIS) and the potential impact of that decision on Westinghouse Hanford/DOE-RL planning to prepare a Hanford Remedial Action (HRA)-EIS.

100 Area Characterization and Assessment
Incorporation of review comments on the conceptual model (draft chapters 1 through 4 of the work plan) has been completed for both 100-KR-1 and 100-KR-4. The writing of both work plans is near completion.

300 Area Characterization and Assessment
The 300-FF-5 Operable Unit (OU) Remedial Investigation (RI)/ Feasibility Study (FS) Work Plan was submitted to DOE-RL and transmitted to Environmental Protection Agency (EPA)/ Washington State Department of Ecology (Ecology) on January 26 in accordance with the schedule established by the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement).

1100 Area Characterization and Assessment
The Westinghouse Hanford response to the U.S. Department of Energy (DOE) Audit "Health and Safety Compliance at the 1100-EM-1 Operable Unit" was completed on schedule and submitted to DOE-RL on January 29.

On February 2, drilling and sampling activities for the vadose zone at the 1100-EM-1 OU were completed. A total of 23 boreholes were drilled and sampled at the respective disposal pit locations and at the Horn Rapids Landfill during the course of the investigation. A total of over 550 feet of material was examined for potential hazardous constituents as part of this Phase I characterization. No significant health or safety issues arose during any of the drilling. Completion of this activity represents the conclusion of the first invasive sampling efforts at Hanford for a RI [Comprehensive Environmental Response,Compensation Liability Act] (CERCLA) as required by the Tri-Party Agreement.

200 Area (Non-Single-Shell Tank) Characterization and Assessment
The 200-BP-1 OU RI/FS work plan was resubmitted to DOE-RL for transmittal to EPA/Ecology on January 16. The revised work plan incorporates resolutions to third round EPA comments. Both second and third round EPA comments did not affect the 200-BP-1 RI/FS planned scope of work. The RI/FS schedule was revised and extended five months to reflect the current fiscal year (FY) funding level and the ER and Waste Management Five-Year Plan outyear funding levels.

Single-Shell Tank Characterization and Assessment
The first Single-Shell Tank (SST) OUs Unit Managers meeting was held January 30. As the first step in the conflict resolution process, this meeting exclusively addressed resolution of Ecology's remaining comments on the SST Waste Characterization Plan. Incorporation of Ecology requirements will impact interim Tri-Party Agreement core sampling milestones. Ecology tentatively agreed to allow rescheduling of SST core sampling Tri-Party Agreement milestones provided that their analytical requirements will be met.

The DOE-RL/Westinghouse Hanford submitted formal response to Ecology's November 30 comments on the SST Waste Characterization Plan. This is in response to the tentative agreements reached with Ecology at the January 30, SST Unit Managers Meeting.

Radiation Area Reduction
Surface stabilization of the 218-C-9 trench (approximately four acres) was completed.

Extension of the vadose zone and groundwater wells at 216-T-26/27/28 inactive cribs was completed in preparation for stabilization of these areas this fiscal year. The cultural resources review clearance was received for these inactive cribs and unplanned release site UN-216-W-7.

Cleanup of outdoor radiation areas in preparation for selective herbicide application was completed. Aerial application of selective herbicide on 970 acres was completed and 79 acres have been sprayed by the ground crew.

Facility, Systems, and Equipment Upgrades
Purgewater was transferred from the 100K Area tanks to the purge water modutanks. By moving the purgewater prior to the 90 day storage limit being exceeded, the need for a RCRA closure plan for the 100K Area tanks was eliminated.

Resource Conservation Recovery Act (Non-Single-Shell Tank) Closures)
The 216-B-3 Pond System Closure/Post-Closure Plan was transmitted to Ecology and EPA on March 30, meeting the Tri-Party Agreement milestone M-20-09.

Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

PLANNED WORK (Next two months):

- Submit 100-KR-1 and -4 RI/FS Work Plans to DOE-RL for review.

- Issue draft Non-radioactive Dangerous Waste Landfill (NRDWL) Closure/Post Closure Plan to DOE-RL for review.

MAJOR PROBLEM AREAS AND CORRECTIVE ACTION:

- The need for definitive, formal direction on the HRA-EIS proposed by Westinghouse Hanford continues. Completion of the HRA-EIS could impact initiation of remedial actions in the outyears. Approval from DOE to proceed is required by DOE Order 5440.1C.

- Two meetings have been held regarding responsible organizations supporting the groundwater well installations for the 200-BP-1 OU. One key issue remains unresolved at this time and will soon impact the groundwater well installation project. It is the position of both Kaiser Engineers Hanford Company (KEH) and Environmental Field Services that they are both the appropriate responsible organizations for preparing Pre-Job Safety Plans for dual purpose wells (boreholes installed for the purpose of obtaining environmental samples in the vadose zone and installation of permanent casing for groundwater well monitoring). The KEH has indicated that no wells would be installed unless KEH prepares the safety plans and implements the safety monitoring. The Environmental Field Services and Environmental Engineering Group management have been appraised of this problem and are actively trying to resolve this issue.

  The PNL has requested additional funding to cover increased costs of laboratory analysis for SST Characterization due to organics. This request is currently under Westinghouse Hanford review.

Site remediation of the 703 Underground Storage Tanks (UST) is held up pending Regulatory and Environmental determination as to which way remediation should proceed. It appears that actual remediation work cannot start until early April. Late remediation of this site will jeopardize a subcontractor from pouring concrete foundation for a large air conditioning unit for the 703 Building over the area where the 703 Tank was buried.

An additional 15,030 cubic feet of radioactive mixed waste has been identified for the 183-H Solar Basins. The estimate-at-completion will be higher than the original budget by $300K to $500K for the cleanout.

Westinghouse Hanford/DOE-RL submitted on schedule documentation to Ecology on selection of the 300 Area Process Trench effluent treatment option and established a schedule for implementing treatment and ceasing liquid discharge. This plan fulfills the commitment for Tri-Party Agreement milestone M-17-05 and identifies an effluent treatment facility to be operational by December 1994. Significant rebaselining of the current year work scope for the 300 Area Process Trenches is required to support the recommended schedule, and a Class I Change Request is being prepared. While approval of this change request is contingent upon Ecology's approval of this plan (and associated class II Tri-Party Agreement Change Form), the aggressive schedule needed to support the plan requires that the new work scope be initiated as soon as possible to avoid any impacts to the new milestones.

Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

FINANCIAL STATUS:
Through mid-year, the Environmental Restoration Remedial Action (ERRA) program is reflecting an unfavorable schedule variance of $5139K (14.3 percent) and a favorable cost variance of $808K (2.2 percent). This translates to a spending underrun of $5947K (16.5 percent).

The unfavorable schedule variance of $5139K is primarily the result of: (1) delay in initiation of 100-BC-1, -5 and 100-KR-1, -4 scoping studies due to resources that were allocated to higher priority 1100-EM-1 RI activities (overall impact should be minimal; the scoping study activities will be performed in parallel with the work plan reviews), (2) the B Pond by-pass construction is behind schedule because of required redesign (the schedule variance will be eliminated over the next several months as work is accelerated now that the redesign/bidding process is complete), (3) the 1100-EM-1 FS scheduled to start November/December is behind one month (a DOE-RL surveillance for this OU delayed the start of RI activities which in turn delayed the FS), and (4) the schedule for documenting SST Characterization Requirements Phase 1-C is being impacted by a SST Waste Characterization Plan that has not been approved by Ecology and a delay in analyses on Phase 1A/1B samples due to organics interference and equipment malfunctions (the budget, work scope and schedule for SST Characterization will be addressed in the mid-year change request).

The favorable cost variance of $808K is due to: (1) budget timephasing for the PNL spending projection for Hanford Environmental Information System (HEIS) development (PNL underruns will be offset following rephasing of the Westinghouse Hanford baseline to agree with the PNL projections), (2) scoping study equipment for 100-KR-1,-4 and 100-BC-1, -5 budget timephased earlier than the planned receipt of equipment (procurement activities have been initiated), (3) purge water equipment received but not yet costed (equipment will be costed by yearend), and (4) the 183-H solar basin cleanout costs are less than anticipated (being examined as part of the mid-year review), partially offset by (5) significant overtime required to complete the Tri-Party Agreement milestone to obtain 15 core samples, and (6) laboratory costs for samples that are approximately 40 percent higher than the cost estimate (items 5 and 6 are being examined as part of the mid-year review).

PROGRAM IMPACT:
The FY 1990 ERRA mid-year review estimate at completion indicates funding requirements of approximately $410K less than the approved baseline to complete current Westinghouse Hanford work scope. These underruns will be used to help offset new work scope requirements identified during the review.

Environmental Restoration Remedial Actions Program
FY 1990 QUARTERLY STAUS
January - March 1990
Financial Status Overview
($ in 000s)

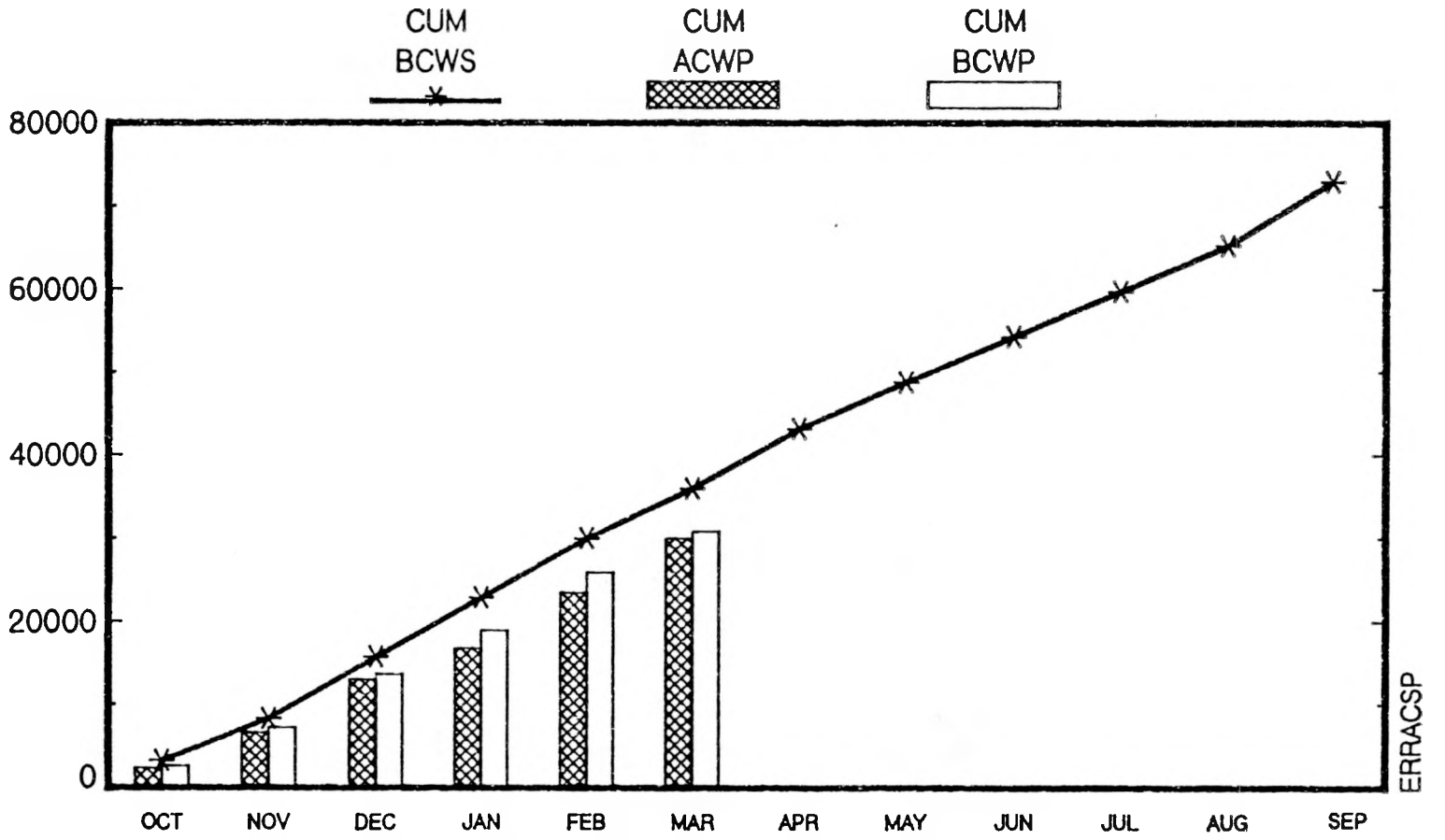
End Function	Budget (BCWS)	Cost (ACWP)	Value (BCWP)	Cost Variance	Schedule Variance	Total Budget
E2 - Management, Planning & Community Relations	$4,715	$3,920	$4,532	$612	($183)	$11,967
EB - 100 Area Characterization & Assessment	4,182	2,496	2,783	287	(1,399)	8,779
EC - 300 Area Characterization & Assessment	1,047	1,026	1,019	(7)	(28)	1,946
ED - 1100/600 Area Characterization & Assessment	3,739	3,246	3,036	(210)	(703)	4,944
EE - 200 Area Characterization & Assessment	1,109	1,002	1,040	38	(69)	4,708
EF - Single-Shell Tank (SST) Characterization & Assessment	6,017	5,793	5,250	(543)	(767)	10,849
EJ - Radiation Area Reduction	2,208	1,680	1,778	98	(430)	3,135
EK - Facility, Systems & Equipment Upgrades	5,876	5,495	5,806	311	(70)	14,744
EV - Resource Conservation Recovery Act (Non-SST) Closures	7,059	5,347	5,569	222	(1,490)	11,880
Total WHC - Controlled	$35,952	$30,005	$30,813	$808	($5,139)	$72,952
- DOE-RL						$2,648
Total ERRA Baseline						$75,600
EF - Single-Shell Tank (SST) Characterization & Assessment	1,133	888	1,048	160	(85)	4,060
EG - Technology Development & Demonstration	835	756	835	79	0	1,890
Total RDDT&E Baseline*	$1,968	$1,644	$1,883	$239	($85)	$5,950

* Scope funded from the Office of Technology (OTD) Program for the NWHWC has yet to be identified.

ENVIRONMENTAL RESTORATION - REMEDIAL ACTION

COST & SCHEDULE PERFORMANCE

($ in thousands)

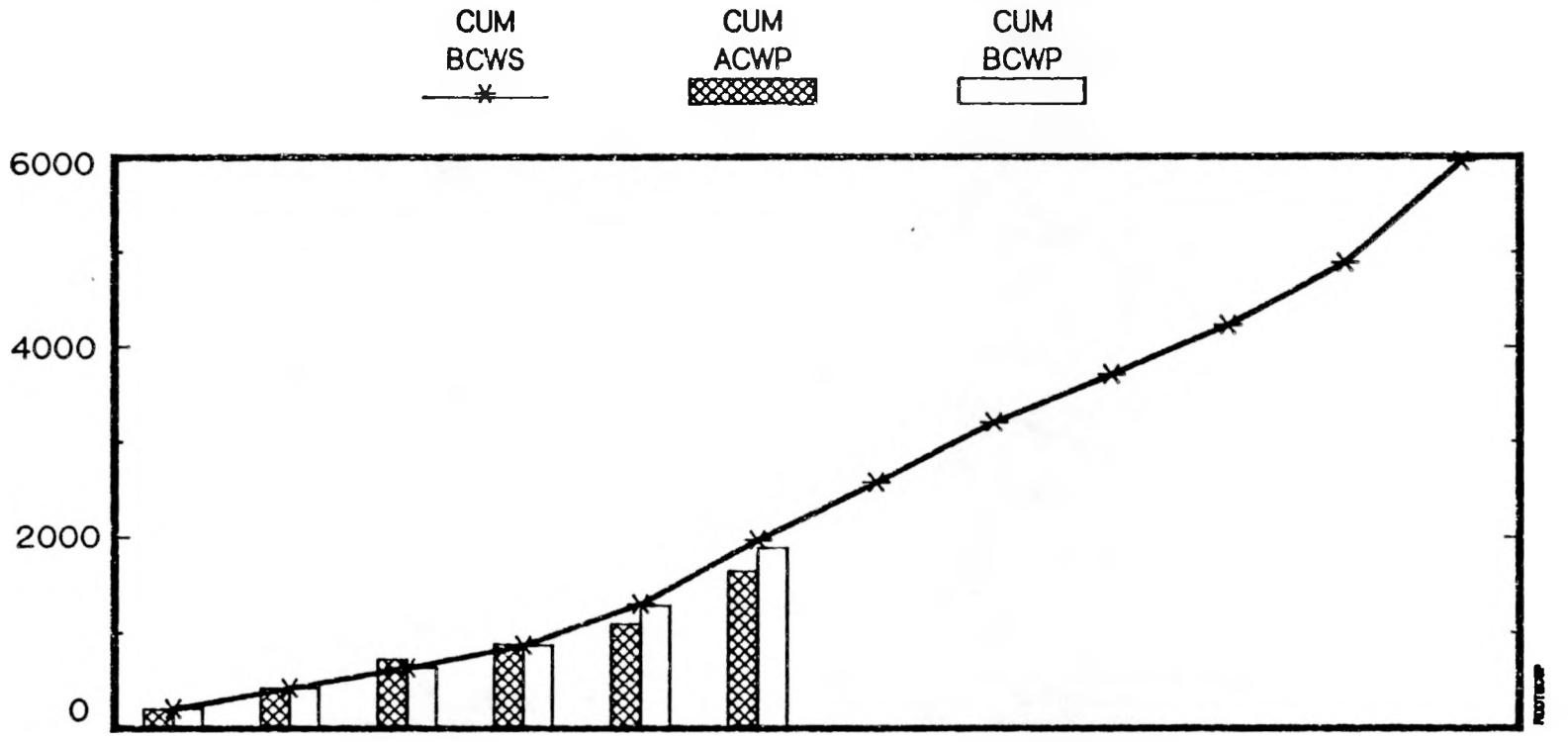


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	3229	8295	15754	22868	29985	35952	43125	48759	54293	59711	65226	72952
CUM ACWP	2346	6589	13059	16785	23495	30005						
CUM BCWP	2596	7215	13693	18945	25916	30813						
COST VAR	250	626	634	2160	2421	808						
SCHED VAR	-633	-1080	-2061	-3923	-4068	-5139						

RESEARCH, DEVELOPMENT, DEMONSTRATION, TESTING AND EVALUATION

COST & SCHEDULE PERFORMANCE

($ IN THOUSANDS)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	206	421	633	867	1301	1968	2574	3201	3707	4229	4884	5950
CUM ACWP	206	421	725	882	1090	1644						
CUM BCWP	206	421	633	867	1282	1883						
COST VAR	0	0	-92	-15	192	239						
SCHED VAR	0	0	0	0	-19	-85						

-1990

Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

F.O.: RICHLAND CONTRACTOR: WESTINGHOUSE

TASK LOCATION: HANFORD **TASK NO.E2**

TITLE: MANAGEMENT, PLANNING, AND COMMUNITY RELATIONS

TASK MANAGER: JORDAN

RCRA/CERCLA: BOTH

NO. OF POTENTIAL RELEASE SITES: ALL

TEC $: TBD TASK PHASE: NA SUSPECT WASTE: MIXED

PLANNING EST. $: TBD FY 90 BUDGET: $11967

TASK DESCRIPTION/OBJECTIVE:

This end function includes the following activities:

- Management, program control and planning for the Hanford Environmental Restoration (ER) Program.
- Hanford ER Community Relations, Records/Data Management, Quality Assurance (QA) planning, National Environmental Policy Act (NEPA) support and planning.

STATUS:

- The ER Program focused attention on a critical review of the funding needed to meet program requirements in fiscal year (FY) 1991. The review included detailed discussions within the program office as well as presentation of results to senior Westinghouse Hanford management and the Director, ER Division, DOE-RL.
- The Hanford Environmental Business Opportunities Conference was held on January 17. The attendance far exceeded expectations and by all accounts the conference was well received and considered to be a success.
- A Class I change request was submitted to DOE-RL on March 30 to request approval for a schedule extension to allow conversion of the ERRA Quality Assurance Requirements Document (QARD) to a DOE-RL requirements document and resolution of associated Westinghouse Hanford review comments. The new schedule calls for issue of the document to DOE-RL by September 30 for review, approval, and publication.
- On January 25, representatives from DOE-RL, Westinghouse Hanford, and PNL met to discuss the recent DOE-RL decision to prepare a National Cleanup EIS and the potential impact of that decision on Westinghouse Hanford/DOE-RL planning to prepare a HRA-EIS.

TASK NO. E2

- On February 14, Westinghouse Hanford formally submitted to DOE-RL a proposed strategy for application of NEPA to the Hanford ERRA Program.

  The strategy document requested DOE approval to proceed with the proposed HRA-EIS.

  Work continued in March on the HRA-EIS Engineering Data Support Package. Sections prepared by subcontractors and Environmental Engineering staff are being reviewed internally.

- During April and May each of the DOE sites will be participating in the application of the ER Program priority system to the FY 1992 budget. Since the design of a new, more comprehensive system has not been completed by U.S. Departmentof Energy-Headquarters (DOE-HQ), an interim system will be utilized.

- As per the statement of work, PNL has delivered a revised set of HEIS procedures in response to comments provided by the HEIS Technical Advisory Committee (HTAC). These procedures include general operating instructions and specific procedures addressing data management activities in the constituent, geologic, sample, and soil gas subject areas. PNL has also provided a demonstration of software developed in these areas. Westinghouse Hanford has granted an extension in the survey and geophysics subject areas, which are undergoing significant revisions in response to the review comments. These subject areas are now due for delivery on April 30.

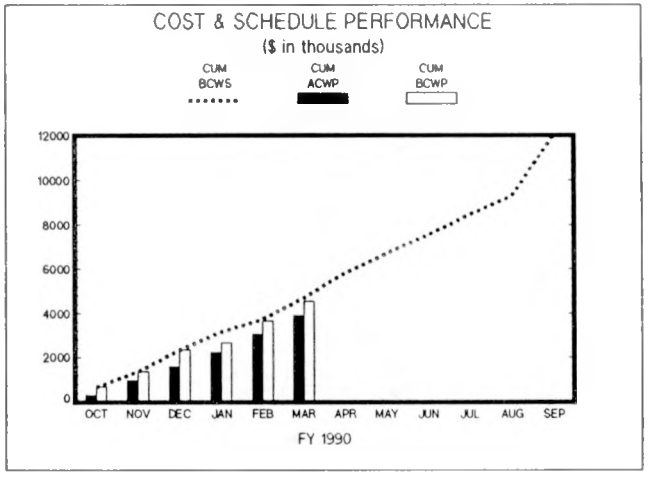
- The Environmental Information Plan, Revision 1, was submitted to DOE as scheduled.

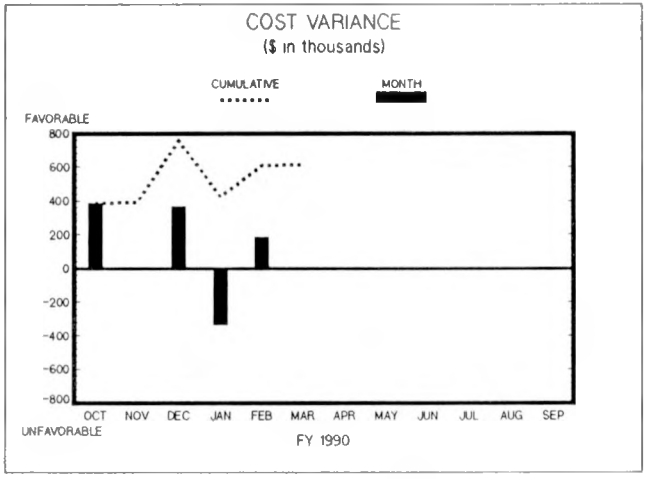
MANAGER'S ASSESSMENT OF % COMPLETE: 33%

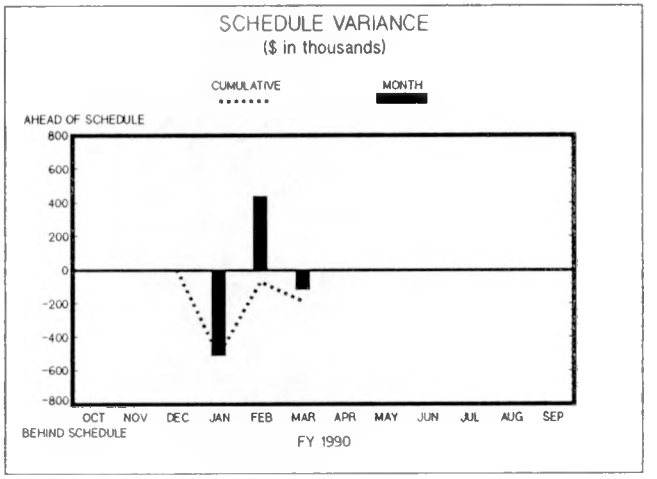
PROBLEMS:
The need for definitive, formal direction on the HRA-EIS proposed by Westinghouse Hanford continues. Completion of the HRA-EIS could impact initiation of remedial actions in the outyears. Approval from DOE to proceed is required by DOE Order 5440.1C.

MANAGEMENT, PLANNING & COMMUNITY RELATIONS - E2

MARCH 1990







MANAGEMENT, PLANNING & COMMUNITY RELATIONS - E2
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	690	1357	2350	3168	3731	4715	5816	6681	7541	8467	9289	11967
	CUM ACWP	302	967	1592	2234	3054	3920						
	CUM BCWP	690	1357	2350	2658	3663	4532						
	COST VAR	388	390	758	424	609	612						
	SCH VAR	0	0	0	-510	-68	-183						

Cost Variance

The cost variance is due to: (1) timephasing differences between Westinghouse Hanford cost account baseline and the PNL spending projection for HEIS development and (2) staff under-runs due to hiring delays supporting FY 1990 Program activities.

Schedule Variance

The Environmental Awareness Program has been delayed until later this fiscal year. This program has high visability in both DOE-RL and Westinghouse Hanford management; however, difficulty in resolving official kick-off date has been experienced due to schedule conflict.

PROGRAM IMPACT/RECOVERY PLAN :

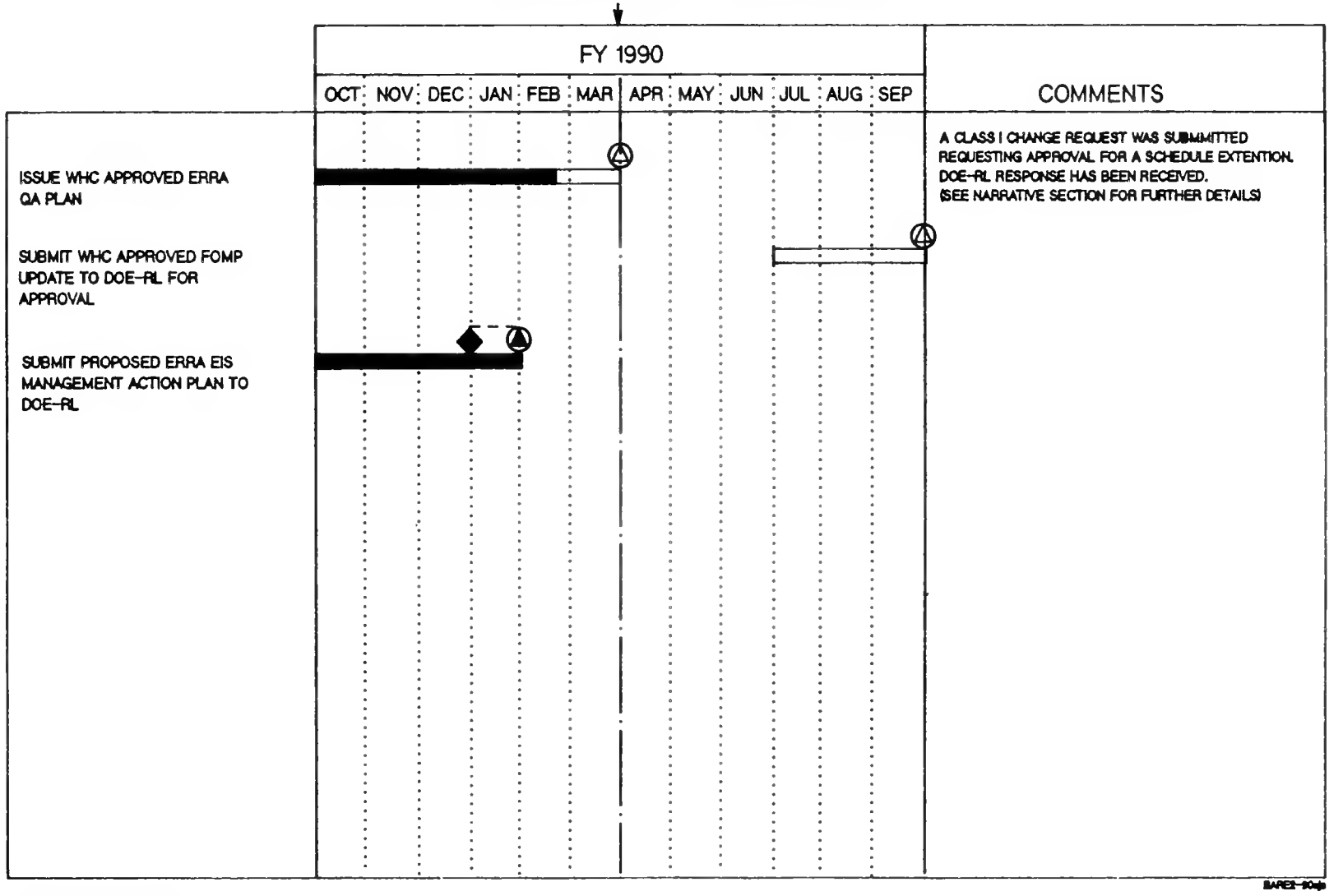
PNL underruns will be offset following rephasing of the baseline to agree with the PNL projections. A Class II Change Request has been submitted.

Accelerated hiring will recover funds during balance of fiscal year.

Program Manager : [signature] Program Business Representative : [signature] Scheduler : [signature]

HANFORD ENVIRONMENTAL RESTORATION
REMEDIAL ACTIONS PROGRAM
MONTHLY SUMMARY REPORT

E2 - MANAGEMENT PLANNING AND COMMUNITY RELATIONS



△ DOE-RL MILESTONE

▽ DOE-HQ MILESTONE

Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

F.O.: RICHLAND, WESTINGHOUSE

CONTRACTOR:

TASK LOCATION: HANFORD

TASK NO. EB

TITLE: 100 AREA CHARACTERIZATION AND ASSESSMENT

TASK MANAGER: WINTCZAK

RCRA/CERCLA: BOTH

NO. OF POTENTIAL RELEASE SITES: 223

TEC $: TBD TASK PHASE: RI/FS SUSPECT WASTE: MIXED

PLANNING EST.$: TBD FY 90 BUDGET: $8779

TASK DESCRIPTION/OBJECTIVE:

This end function includes the following activities:

- The preparation, review, and revision of the Work Plans for the 100-HR-1, 100 HR-3, 100-DR-1, 100-BC-1, 100-BC-5, 100-KR-1, 100-KR-4, 100-NR-1, 100-NR-3, and 100-FR-1 OUs.
- The implementation of the preliminary field activities for the facility investigation of 100-HR-1 OU.
- The preparation and tracking of subcontracts to support the Resource Conservation Recovery Act (RCRA) and CERCLA activities.
- The training and baseline development relative to inactive waste site activities.

STATUS:

- Ecology submitted technical comments on the 100-HR-1 OU Work Plan on October 12, 1989, and at that time indicated that additional comments of a programmatic nature would be forthcoming. The DOE-RL indicated on October 24, 1989, that the 60 calendar day period to respond to the comments would not begin until the programmatic comments are received. Completion of the 100-HR-1 OU Work Plan is delayed approximately three months because Ecology has not yet submitted the programmatic comments. At the December Unit Managers meeting, Ecology committed to submitting the comments prior to a January working meeting scheduled to address them. Comments were not received prior to the January 18 working meeting. A similar delay is also in effect for the 100-HR-3 OU Work Plan.
- The 100-BC-1 and 100-BC-5 Work Plans are on schedule for delivery to DOE-RL, EPA, and Ecology for the first review on April 9. The CH2M Hill is working directly with Westinghouse Hanford reviewers to negotiate responses to Westinghouse Hanford review comments.
- Incorporation of review comments on the conceptual model (draft of chapters 1 through 4 of the work plan) has been completed for both 100-KR-1 and 100-KR-4. The writing of both work plans is near completion.

TASK NO. EB

- Planning for the start of the 100-HR-1 OU background and site radiation survey has been initiated. This activity is scheduled for July 1990 but we are working with Westinghouse Hanford Safety and KEH Surveying to accomplish this on an expedited schedule. Planning for the start of the 100-HR-1 Process Effluent Pipeline Integrity Assessment was initiated. A remote video camera is to be used to examine the pipeline interior for potential sources of leaks. The activity is scheduled for September 1990 but we are working with Defense Reactor Division/ Engineering to accomplish this on an expedited schedule.

- Work has begun on analysis of 100-N data and preparation of the site description sections of the scoping study report. Initial drafts of the Geology/Hydrology and site description are due at the end of March 1990.

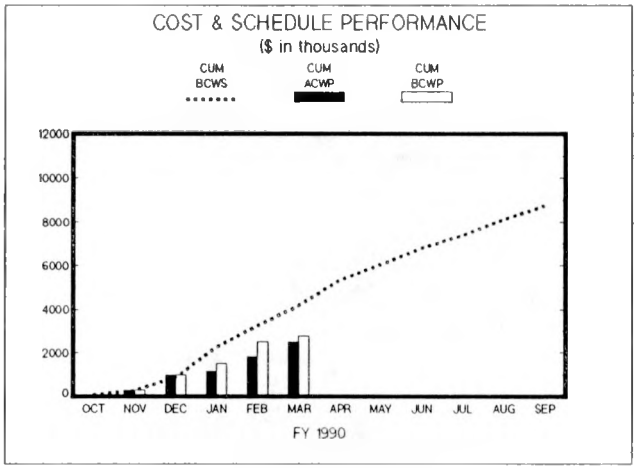
- A database is being developed to contain the references found for scoping in 100-N. Efforts are underway to expand this into other areas of the Hanford Site, particularly 100-F. As references are identified during the scoping process, they will be included in the database.

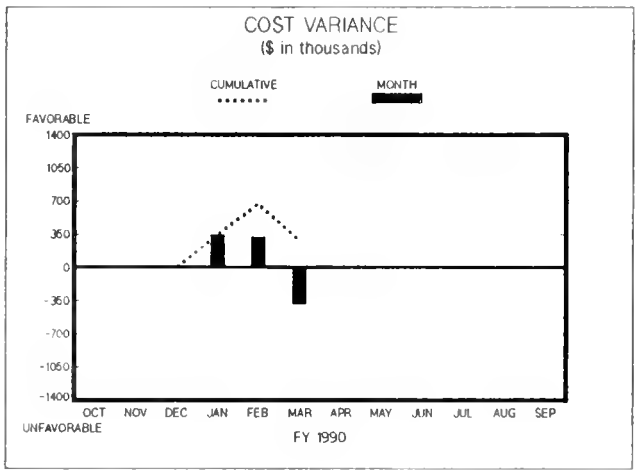
MANAGER'S ASSESSMENT OF % COMPLETE: 28%

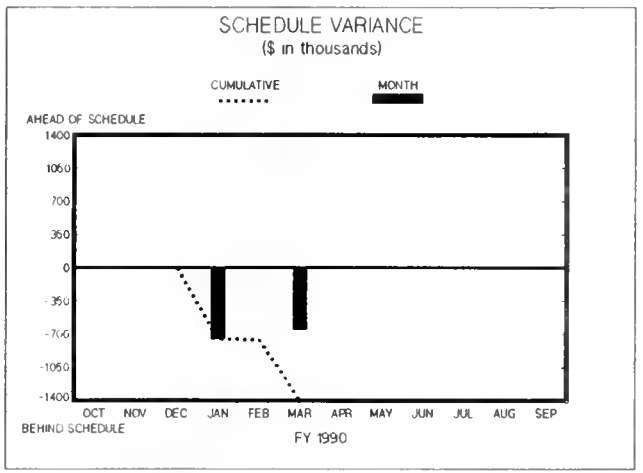
PROBLEMS: None to report.

100 AREA CHARACTERIZATION & ASSESSMENT - EB

MARCH 1990







100 AREA CHARACTERIZATION AND ASSESSMENT - EB
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	99	304	992	2260	3268	4183	5354	6072	6803	7405	8142	8779
	CUM ACWP	99	304	992	1164	1843	2496						
	CUM BCWP	99	304	992	1514	2514	2783						
	COST VAR	0	0	0	350	671	287						
	SCH VAR	0	0	0	-746	-754	-1400						

Cost Variance

Favorable cost variance is due to: (1) scoping study equipment for 100-KR-1, -4, and 100-BC-1 and -5 budget timephased earlier than planned receipt of equipment. Procurement activities have been initiated (2) ramp-up of personnel not required, and (3) work plan subcontractor costs (with exception of EMO), lower than projected.

Schedule Variance

Unfavorable schedule variance due to: (1) delay in initiation of scoping studies for 100-BC-1, -5, and 100-KR-1, -4. These were delayed when resources were reallocated to higher priority 1100-EM RI activities (2) delay in awarding contract for 100-NR-1 and -3 work plans and (3) EPA/Ecology comments on the 100-HR-1, -3 and 100-DR-1 are overdue (delays issuance of approved work plans).

PROGRAM IMPACT/RECOVERY PLAN :

Scoping study activities will be performed in parallel with work plan reviews. The overall impact should be minimal.

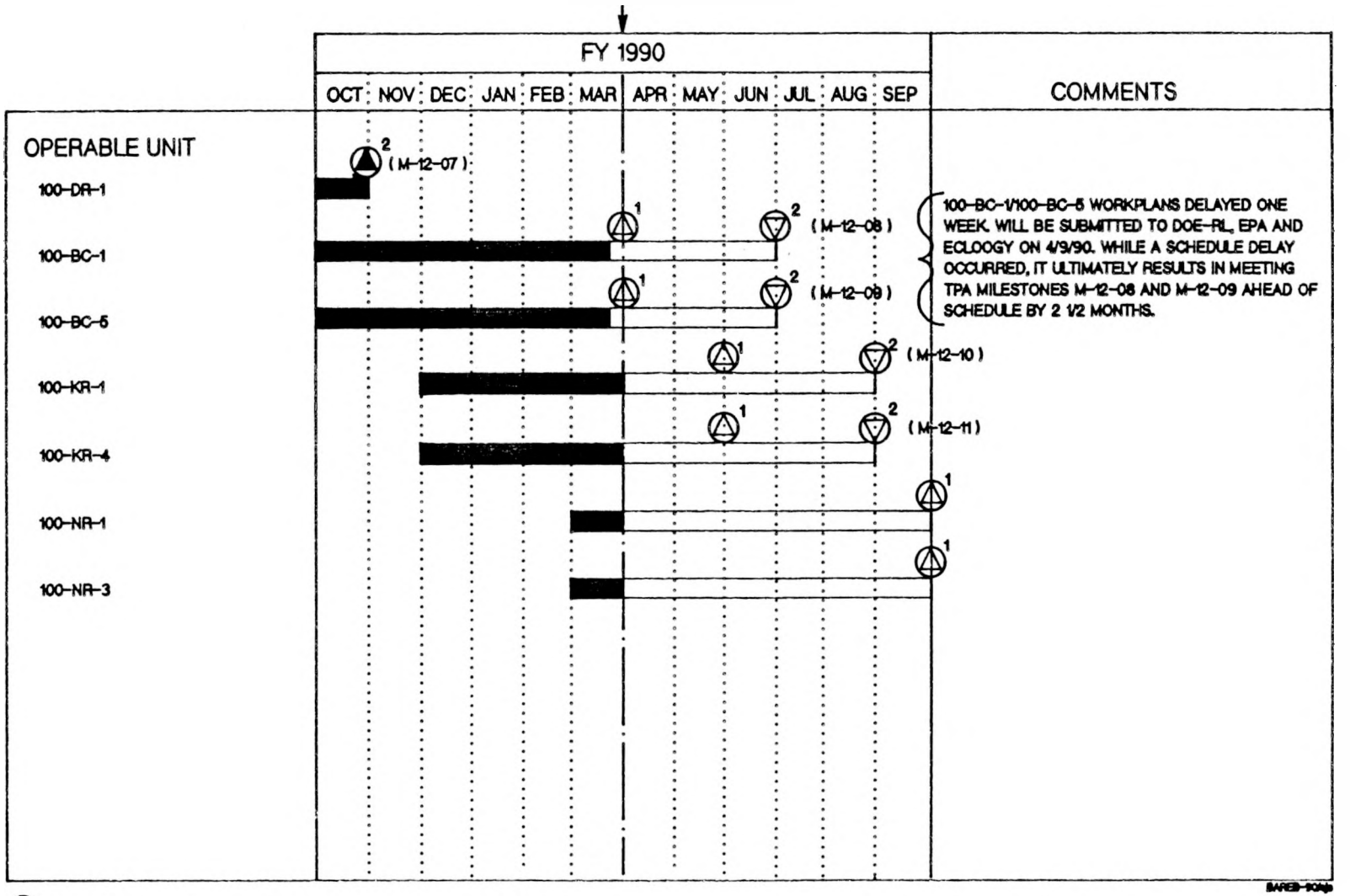
It is anticipated that schedule variances can be recovered if Ecology submits in a timely manner. Ecology comments are currently seven months overdue for 100-HR-1 and -3 and three months overdue for 100-DR-1.

As additional work plans are developed, it is important that the EPA/Ecology strictly adhere to the agreed cycles to minimize delays which could ultimately impact budget/schedule.

Program Manager : [signature] Program Business Representative : [signature] Scheduler : [signature]

HANFORD ENVIRONMENTAL RESTORATION
REMEDIAL ACTIONS PROGRAM
MONTHLY SUMMARY REPORT

EB – 100 AREA CHARACTERIZATION AND ASSESSMENT



DOE-RL MILESTONE

DOE-HQ MILESTONE

1 = SUBMIT RI/FS WORK PLAN TO DOE

2 = SUBMIT RI/FS WORK PLAN TO EPA/ECOLOGY

Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

F.O.: RICHLAND CONTRACTOR: WESTINGHOUSE

TASK LOCATION: HANFORD **TASK NO. EC**

TITLE: 300 AREA CHARACTERIZATION AND ASSESSMENT

TASK MANAGER: WINTCZAK

RCRA/CERCLA: BOTH

NO. OF POTENTIAL RELEASE SITES: 86

TEC $: TBD TASK PHASE: RI/FS SUSPECT WASTE: MIXED

PLANNING EST.$: TBD FY 90 BUDGET: $1946

TASK DESCRIPTION/OBJECTIVE:

This end function includes the following activities:

- The preparation, review and revision of the RI/FS Work Plan for the 300-FF-1 and 300-FF-5 OU.
- The implementation of the preliminary field activities for the 300-FF-1 OU RI Phase I.

STATUS:

- The 300-FF-5 OU RI/FS Work Plan was submitted to DOE-RL and transmitted to EPA/Ecology on January 26 in accordance with the schedule established by the Tri-Party Agreement.
- A draft procedure entitled, "Administration of Radiation Surveys to Support Environmental Characterization Work on the Hanford Site" was written to address regulatory concerns regarding the notification and reporting process for previously unidentified surface contamination that has been discovered as part of the 300-FF-1 surface radiation survey activity. Westinghouse Hanford review was completed and all comments dispositioned and incorporated.
- Due to FY 1990 budgetary restrictions most of the previously scheduled Phase 1 RI field activities for 300-FF-1 are limited for the remainder of the fiscal year. The Source Data Compilation Report (Task 1a) has been released by PNL as PNL-7241, "Data Compilation Task Report for the Source Investigation of the 300-FF-1 Operable Unit Phase 1 Remedial Investigation." The KEH, at the direction of PNL, has completed the first draft of a topographic base map of the 300 Area (Task 1d) and it was provided to the Environmental Engineering Group for review. Preparations are being initiated to restart the surface radiation survey (Task 3a). Data thus far gathered from the survey is being compiled for release as a Miscellaneous Report. The first of four air sampling procedures (Task 4a) was submitted to Westinghouse Hanford for review. A proposed sampling plan for the Spring 1990 Asparagus Uptake Assessment (Task 5b) was discussed at the Unit Managers meeting held February 14 and 15.

TASK NO. EC

- Draft D of the 300-FF-1 and Draft C of the 300-FF-5 Work Plans were simultaneously delivered (ahead of schedule) to DOE-RL. These versions will be utilized for the public review cycle which will be initiated as soon as the EPA gives approval to DOE-RL.

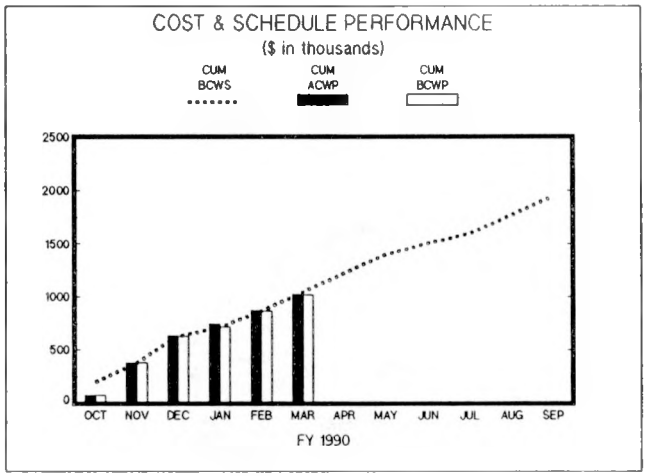
- A meeting was held with DOE-RL and the EPA Unit Managers to review the finalized schedules. Regulatory comments have been incorporated and it was agreed by the regulators that once the revised schedules were inserted into the work plans, that the public review cycle could be initiated. The date of April 6 was set as the initiation of the public comment period.

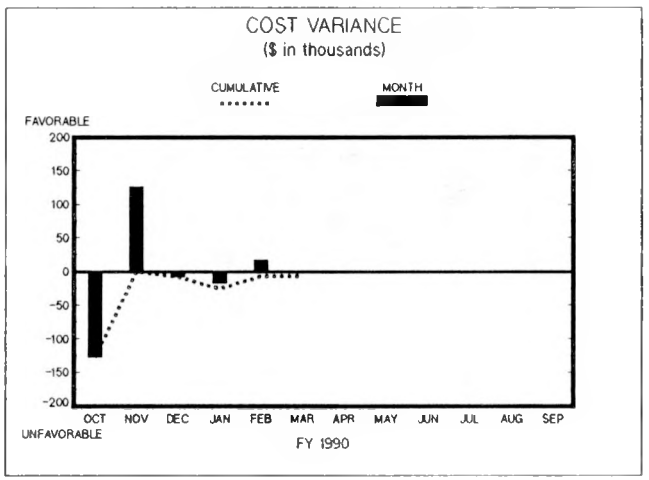
MANAGER'S ASSESSMENT OF % COMPLETE: 53%

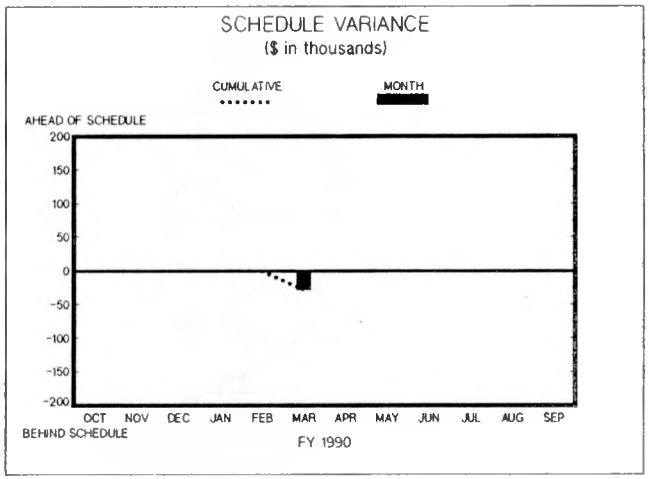
PROBLEMS: None to report.

300 AREA CHARACTERIZATION & ASSESSMENT - EC

MARCH 1990







300 AREA CHARACTERIZATION & ASSESSMENT - EC
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	202	378	630	722	867	1047	1228	1400	1509	1604	1773	1946
	CUM ACWP	75	378	638	747	874	1026						
	CUM BCWP	75	378	630	722	867	1019						
	COST VAR	-127	0	-8	-25	-7	-7						
	SCH VAR	0	0	0	0	0	-28						

Cost Variance

The cost variance is not significant.

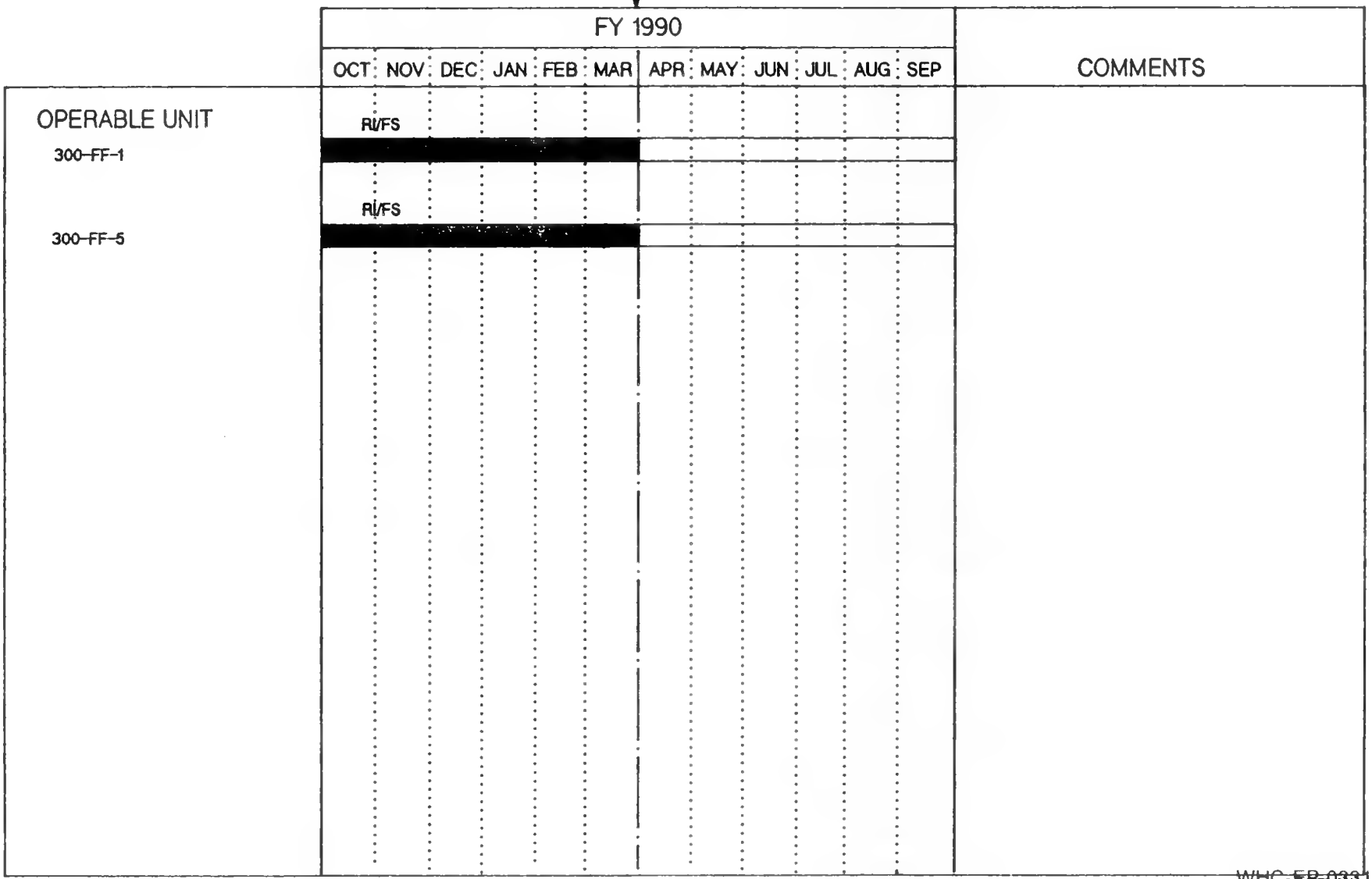
Schedule Variance

The schedule variance is not significant.

PROGRAM IMPACT/RECOVERY PLAN :

Program Manager : J.M. Wintzch Program Business Representative : JA Dridiker Scheduler : JA Dridiker

HANFORD ENVIRONMENTAL RESTORATION
REMEDIAL ACTIONS PROGRAM
MONTHLY SUMMARY REPORT
EC – 300 AREA CHARACTERIZATION AND ASSESSMENT



Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

F.O.: RICHLAND CONTRACTOR: WESTINGHOUSE

TASK LOCATION: HANFORD **TASK NO. E D**

TITLE: 1100 AREA CHARACTERIZATION AND ASSESSMENT

TASK MANAGER: WINTCZAK

RCRA/CERCLA: BOTH

NO. OF POTENTIAL RELEASE SITES: 26

TEC $: TBD TASK PHASE: RI/FS
SUSPECT WASTE: HAZARDOUS

PLANNING EST.$: TBD FY 90 BUDGET: $4944

TASK DESCRIPTION/OBJECTIVE:

This end function includes the following activities:

- The implementation of the activities for the 1100-EM-1 OU RI Phase I.

STATUS:

- The Westinghouse Hanford response to the DOE Audit "Health and Safety Compliance at the 1100-EM-1 Operable Unit" was completed on schedule and submitted to DOE-RL on January 29.

- On February 2, drilling and sampling activities for the vadose zone at the 1100-EM-1 OU were completed. A total of 23 boreholes were drilled and sampled at the respective disposal pit locations and at the Horn Rapids Landfill during the course of the investigation. A total of over 550 feet of material was examined for potential hazardous constituents as part of this Phase I characterization. No significant health or safety issues arose during any of the drilling. Completion of this activity represents the conclusion of the first invasive sampling efforts at Hanford for a RI (CERCLA) as required by the Tri-Party Agreement.

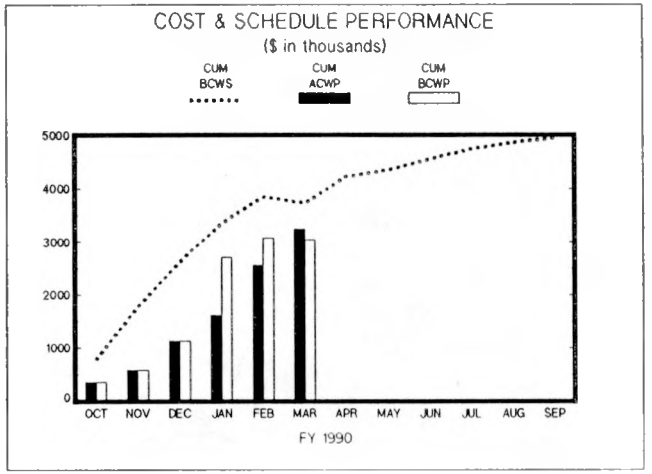
- Validated data was completed for the 23 vadose zone boreholes and the 16 groundwater monitoring wells drilled during the Phase I RI of the 1100-EM-1 OU. Water samples from four of the eight groundwater monitoring wells at the Horn Rapids Landfill showed contamination of trichloroethylene (TCE) in amounts greater than the five parts per billion limitation for primary drinking water standards. Further investigation will be recommended as part of an anticipated expedited interim response action to clean up the groundwater.

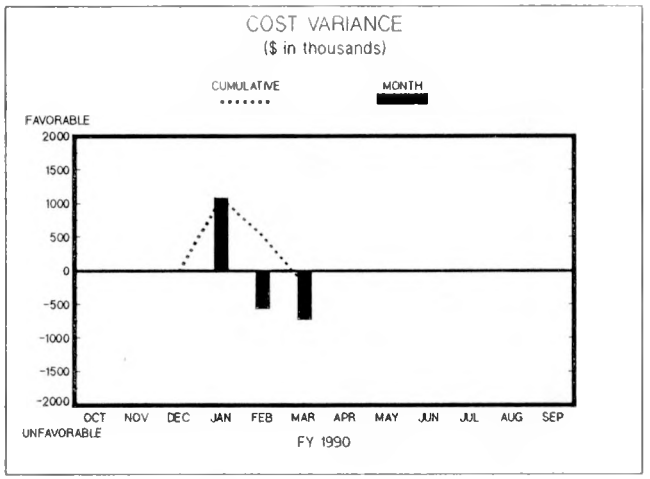
MANAGER'S ASSESSMENT OF % COMPLETE: 66%

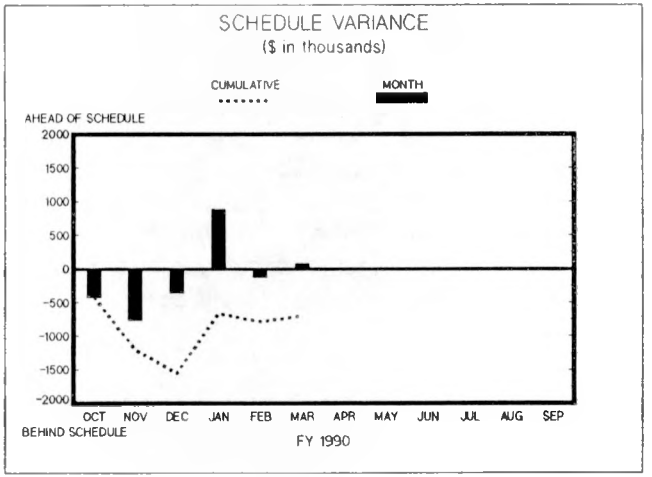
PROBLEMS: None to report.

1100 AREA CHARACTERIZATION & ASSESSMENT - ED

MARCH 1990







1100 AREA CHARACTERIZATION & ASSESSMENT - ED
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	782	1777	2675	3363	3862	3739	4232	4344	4557	4741	4861	4944
	CUM ACWP	357	585	1125	1619	2558	3246						
	CUM BCWP	357	585	1125	2702	3073	3036						
	COST VAR	0	0	0	1083	515	-210						
	SCH VAR	-425	-1192	-1550	-661	-789	-703						

Cost Variance

The unfavorable cost variance is due to: (1) laboratory costs for samples are approximately 40 percent higher than cost estimate and (2) additional samples were required than originally planned.

Schedule Variance

The 1100-EM-1 FS scheduled to start November/December is behind one month. A DOE-RL surveillance for this OU delayed the start of RI activities which in turn delayed the FS.

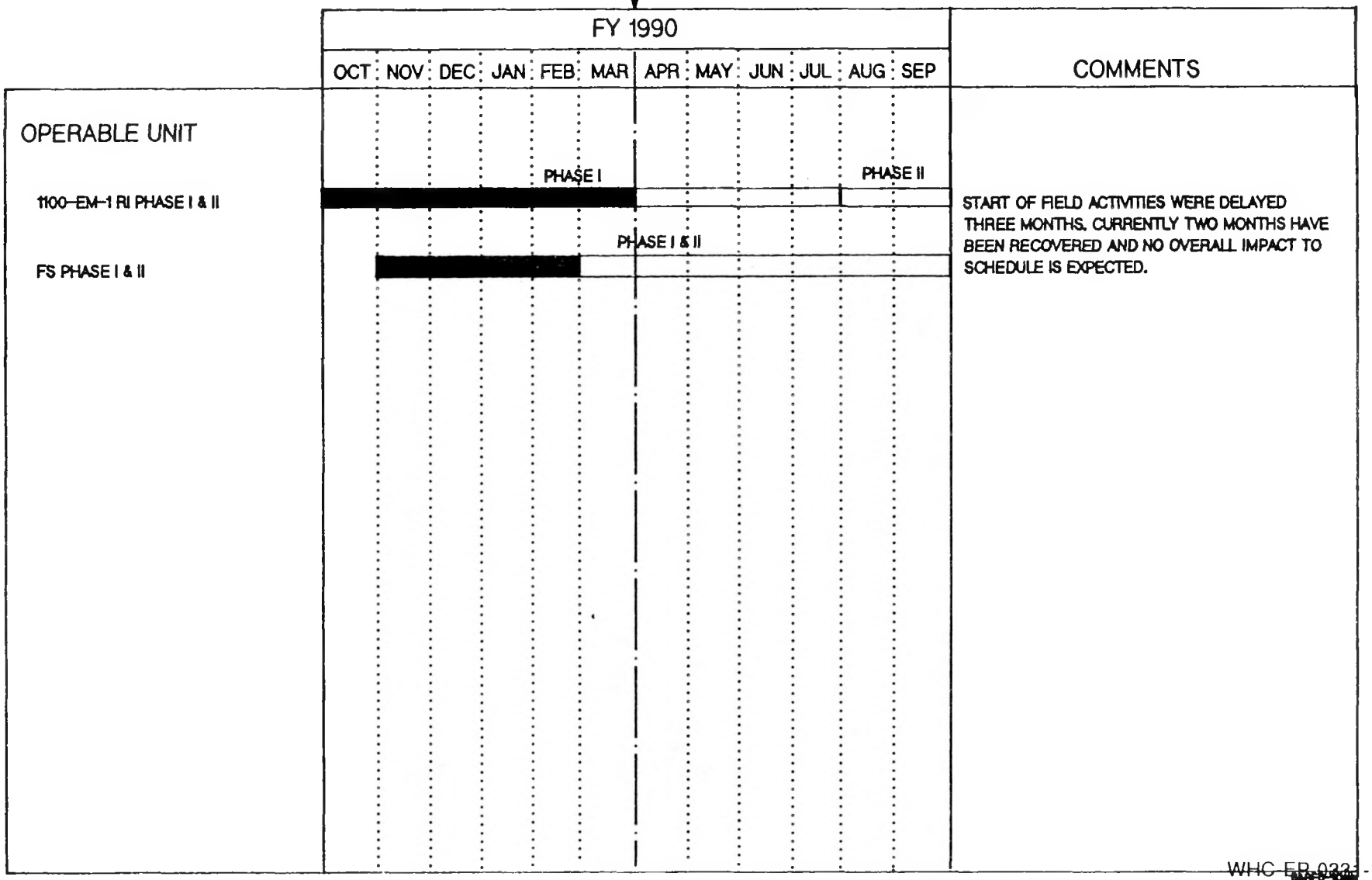
PROGRAM IMPACT/RECOVERY PLAN :

Behind schedule conditions will be recovered and impacts are not anticipated.

Program Manager : J.M. Winterfeldt Program Business Representative : JA Diediker Scheduler : JA Diediker

HANFORD ENVIRONMENTAL RESTORATION
REMEDIAL ACTIONS PROGRAM
MONTHLY SUMMARY REPORT

ED – 1100 AREA CHARACTERIZATION AND ASSESSMENT



Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

F.O.: RICHLAND CONTRACTOR: WESTINGHOUSE

TASK LOCATION: HANFORD **TASK NO. EE**

TITLE: 200 AREA (NON-SINGLE-SHELL TANK) CHARACTERIZATION AND ASSESSMENT

TASK MANAGER: WINTCZAK

RCRA/CERCLA: BOTH

NO. OF POTENTIAL RELEASE SITES: 523

TEC $: TBD TASK PHASE: RI/FS SUSPECT WASTE: MIXED

PLANNING EST.$: TBD FY 90 BUDGET: $4708

TASK DESCRIPTION/OBJECTIVE:

This end function includes the following activities:

- Submit the final 200-BP-1 RI/FS Work Plan to DOE-RL for transmittal to EPA/Ecology.

- Implementation of the RI for 200-BP-1 in accordance with the work plan.

STATUS:

- The 200-BP-1 OU RI/FS work plan was resubmitted to DOE-RL for transmittal to EPA/Ecology on January 16. The revised work plan incorporates resolutions to third round EPA comments. Both second and third round EPA comments did not affect the 200-BP-1 RI/FS planned scope of work. The RI/FS schedule was revised and extended five months to reflect the current fiscal year funding level and the ER and Waste Management Five-Year Plan outyear funding levels.

- A request to prepare an implementation plan for 200-BP-1 risk assessment and the Hanford Site-Wide Performance Assessment Program (HSWPAP) was received from DOE-RL with three weeks allocated to perform the work scope. Discussions with Environmental Technology Group personnel indicated that the implementation plan for 200-BP-1 will be prepared on schedule. However, a detailed plan for implementation of the HSWPAP is ongoing and scheduled to be completed by September 30 and it will be referenced in the 200-BP-1 Implementation Plan only. This is consistent with current ongoing communications between the Environmental Technology group and DOE-RL.

- The RI/FS Work Plan for the 200-BP-1 OU was approved by the EPA. Work plan approval allows initiation of drilling activities in the operable unit including installation of nine groundwater wells beginning April 2.

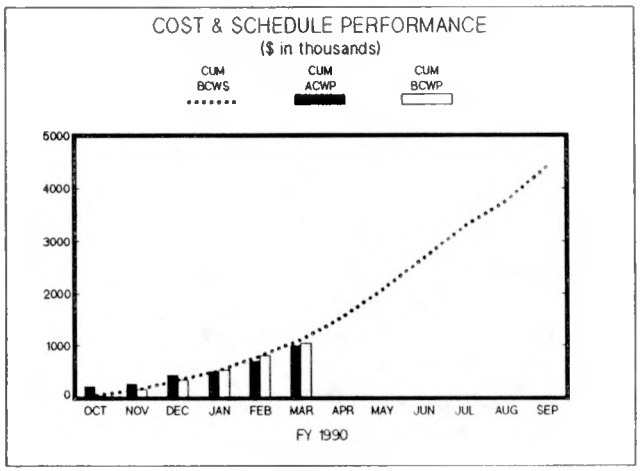
MANAGER'S ASSESSMENT OF % COMPLETE: 25%

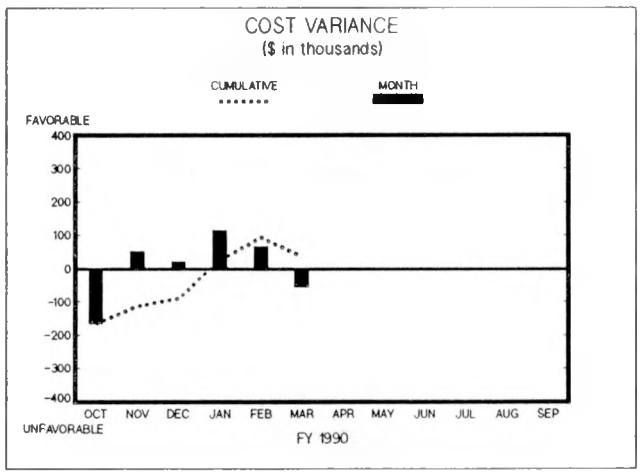
TASK NO.EE

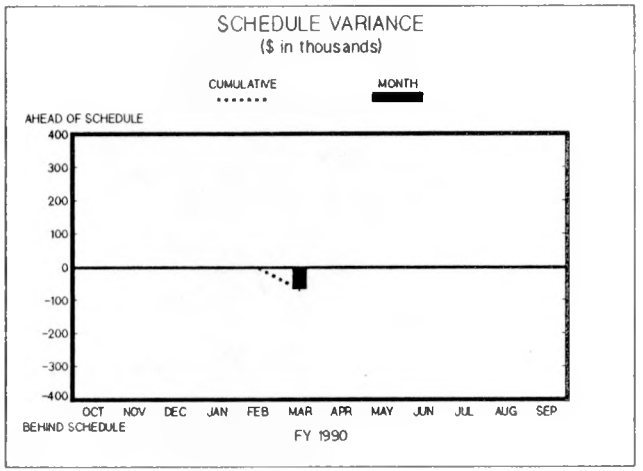
PROBLEMS:

- Two meetings have been held regarding responsible organizations supporting the groundwater well installations for the 200-BP-1 OU. One key issue remains unresolved at this time and will soon impact the groundwater well installation project. It is the position of both KEH and Environmental Field Services that they are both the appropriate responsible organizations for preparing Pre-Job Safety Plans for dual purpose wells (bore-holes installed for the purpose of obtaining environmental samples in the vadose zone and installation of permanent casing for groundwater well monitoring). The KEH has indicated that no wells would be installed unless KEH prepares the safety plans and implements the safety monitoring. The Environmental Field Services and Environmental Engineering Group management have been appraised of this problem and are actively trying to resolve this issue.

200 AREA (NON-SST) CHARACTERIZATION & ASSESSMENT - EE
MARCH 1990







200 AREA (NON-SST) CHARACTERIZATION & ASSESSMENT - EE
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	70	170	357	553	811	1109	1551	2067	2665	3284	3746	4708
	CUM ACWP	235	282	447	526	716	1002						
	CUM BCWP	70	282	357	553	809	1040						
	COST VAR	-165	-112	-90	27	93	38						
	SCH VAR	0	0	0	0	-2	-69						

Cost Variance

The cost variance is not considered significant.

Schedule Variance

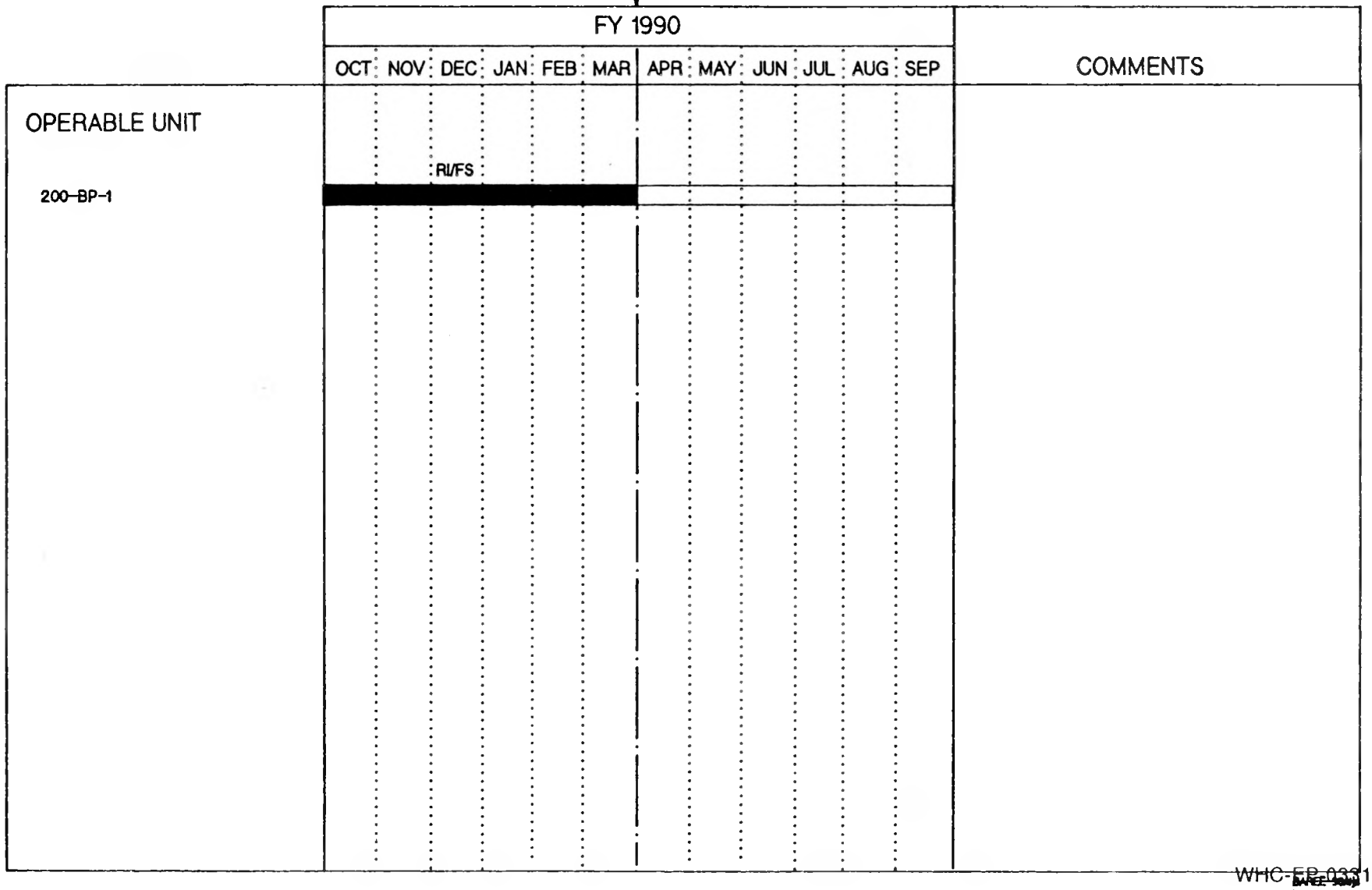
The schedule variance is not significant.

PROGRAM IMPACT/RECOVERY PLAN :

Program Manager : J.M. Wintzek Program Business Representative : J.A. Diediker Scheduler : J.A. Diediker

HANFORD ENVIRONMENTAL RESTORATION
REMEDIAL ACTIONS PROGRAM
MONTHLY SUMMARY REPORT

EE - 200 AREA (NON-SST) CHARACTERIZATION AND ASSESSMENT



Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

F.O.: RICHLAND CONTRACTOR: WESTINGHOUSE

TASK LOCATION: HANFORD **TASK NO. EE**

TITLE: SINGLE-SHELL TANK CHARACTERIZATION AND ASSESSMENT

TASK MANAGER: HALL

RCRA/CERCLA: RCRA

NO. OF POTENTIAL RELEASE SITES: 272

TEC $: TBD TASK PHASE: N/A SUSPECT WASTE: MIXED

PLANNING EST.$: TBD FY 90 BUDGET: $10849*A
$ 4060*B

*A This includes ER-funded activities only.

*B This is for RDDT&E-funded activities for the entire fiscal year.

TASK DESCRIPTION/OBJECTIVE:

This end function includes the following activities (* indicates RDDT&E-funded activities):

- Support the development of the SST Waste Characterization; Waste Retrieval Methodology*; Waste Pretreatment*; Waste Packages*; Performance Assessment (PA); RCRA Past Practice; Regulatory Requirements; SST System Closure/Correction Action; SST Technical Integration; and Quality Engineering.

STATUS:

- The first SST OUs Unit Managers meeting was held January 30. As the first step in the conflict resolution process, this meeting exclusively addressed resolution of Ecology's remaining comments on the SST Waste Characterization Plan. Incorporation of Ecology requirements will impact interim Agreement core sampling milestones. Ecology tentatively agreed to allow rescheduling of SST core sampling Agreement milestones provided that their analytical requirements will be met.

- The DOE-RL/Westinghouse Hanford submitted a formal response to Ecology's November 30, comments on the SST Waste Characterization Plan. This is in response to the tentative agreements reached with Ecology at the January 30 SST Unit Managers Meeting.

- A DOE programmatic and a Tri-Party Agreement change request were issued to DOE-RL for approval. Both address the resolution of Ecology's comments on the SST Waste Characterization Plan. The programmatic change request covers reallocation of funds to support additional work scope for resolving Ecology's comments and changes to EPA interim SST core sampling milestones. The Tri-Party Agreement change request, which requires project manager approval, covers the same changes to the interim milestones. The Tri-Party Agreement change form has been approved by DOE-RL and EPA program managers and is now in Ecology's possession for approval.

TASK NO. EE

- The core sample truck (CST) wind screen arrived at Westinghouse Hanford in January and was erected in the 200 West Area by Westinghouse Hanford personnel under the direction of the supplier engineer. The wind screen will allow use of the CST during windy weather of up to 35 miles per hour.

- The DOE-RL received comments from Ecology on the SST System Closure/Corrective Action Work Plan in a letter dated February 27. The DOE-RL/ Westinghouse Hanford submitted a letter on March 28 to Ecology requesting an extension for response to the notice of deficiency received from Ecology on the work plan . Two sets of responses were proposed: the first (addressing the minor deficiencies and issues raised by Ecology) by May 29; and the second (addressing the major policy issues) by July 29.

- The task to collect and organize report titles and abstracts relating to the pretreatment of SST waste was completed. This information will be included in an annual report on tank waste treatability studies to support completion of the Tri-Party Agreement milestone M-04-06.

- Engineering and laboratory personnel continued work to produce two sludge simulants which will be used in the feature testing of the SST sludge retrieval hardware. These simulants will physically and rheologically represent the SST sludge waste.

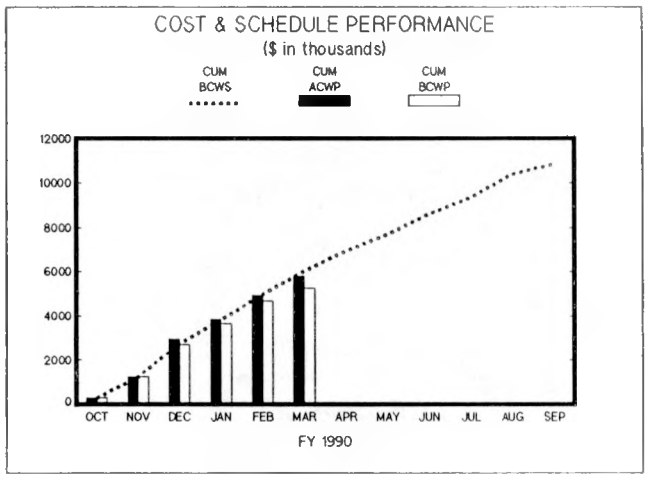
- Westinghouse Hanford approved functional design criteria for the SST Waste Retrieval Development and Operational Verification (test) Facility was submitted on schedule to DOE-RL for review and approval. The letter-of-instruction was issued to KEH based on the approved functional design criteria to initiate the conceptual design. Work continued on schedule through March. The facility is planned to support meeting a Tri-Party Agreement milestone to initiate waste retrieval testing in scale model tank (M-06-02) scheduled for completion October 1992.

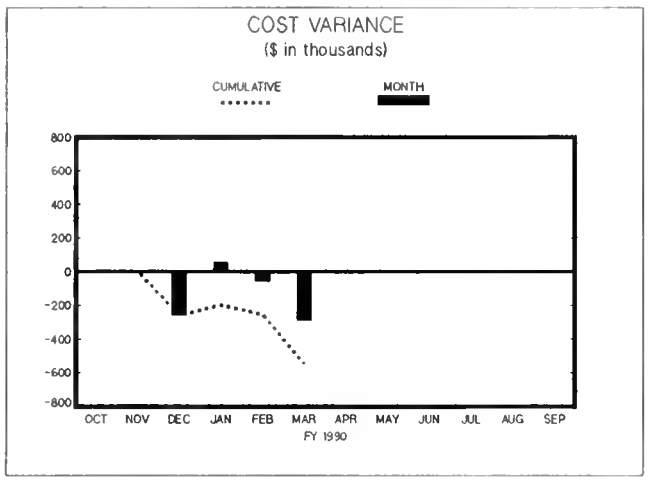
MANAGER'S ASSESSMENT OF % COMPLETE: 48%/26%*

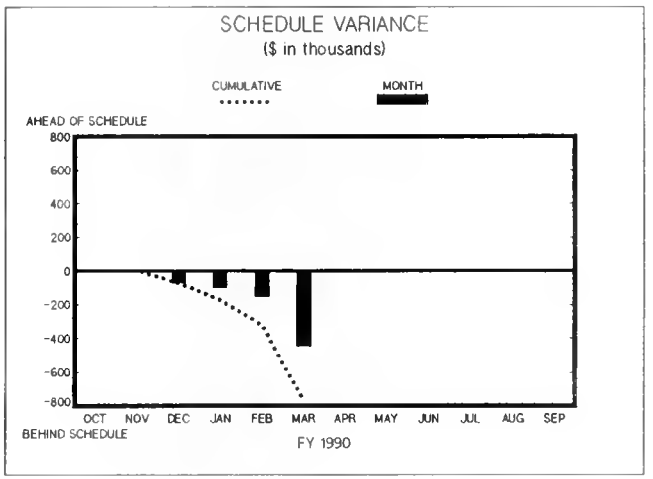
* This is for RDDT&E-funded activities which are funded separately.

PROBLEMS:
The PNL has requested additional funding to cover increased costs of laboratory analysis due to organics. This request is currently under Westinghouse Hanford review.

SST CHARACTERIZATION & ASSESSMENT – EF
MARCH 1990







SST CHARACTERIZATION AND ASSESSMENT - EF
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	285	1235	2763	2814	4987	6017	6927	7740	8626	9372	10383	10849
	CUM ACWP	285	1235	2949	3842	4919	5793						
	CUM BCWP	285	1235	2693	3646	4666	5250						
	COST VAR	0	0	-256	-196	-253	-543						
	SCH VAR	0	0	-70	-169	-321	-767						

Cost Variance

The unfavorable cost variance is due to: (1) Significant overtime required in the first quarter to complete the Tri-Party Agreement milestone to obtain 15 core samples from two SSTs by December 31, 1989 (2) additional manpower and overtime used to support the Dispute Resolution Process, and (3) increased costs for laboratory analyses and assessments at both Westinghouse Hanford/PNL, primarily due to organics issues.

The overrun is partially offset by an underrun due to the NAS charges to SST Technical Integration and charges by organizations supporting other activities not being assessed on schedule.

Schedule Variance

The unfavorable schedule variance is due to: (1) the Systems Engineering Study was initiated late due to manpower unavailability (2) the SST Work Plan comment resolution deferred because Ecology extended their review date from the end of November 1989 until the end of February (3) additional time needed to resolve the NPH problems in support to SST Characterization (4) the schedule for documenting SST characterization requirements Phase I-C being impacted by an unapproved SST Waste Characterization Plan by Ecology (5) delay in analyses on Phase IA/IB samples due to organics interference and equipment malfunctions and (6) new guidance from DOE on the SST Program Management Plan required revision.

PROGRAM IMPACT/RECOVERY PLAN :

The budget, work scope and schedule for SST Waste Characterization will be evaluated at mid-year. Two change requests have already been submitted to address specific issues. The additional laboratory analysis problem caused by organics is under review by Westinghouse Hanford/PNL.

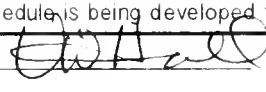
The charges by NAS will be assessed in a lump sum near year end.

The Systems Engineering Study document will be completed in May instead of April, without adverse impact to the SST Program.

Ecology's review of the SST Work Plan was received in late February. Two response dates (May 29/July 29) have been formally proposed.

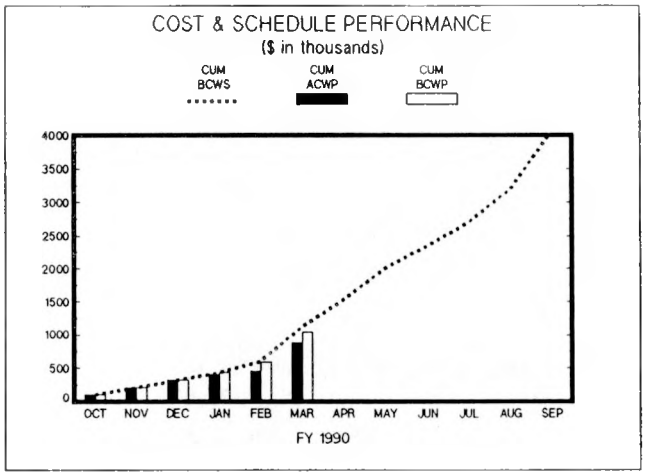
The NPH Engineering Study was resolved in March, and work is proceeding.

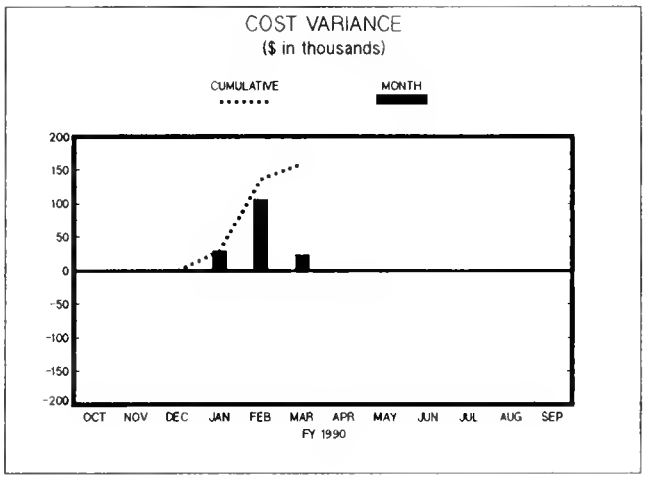
A work around schedule is being developed for the Program Management Plan.

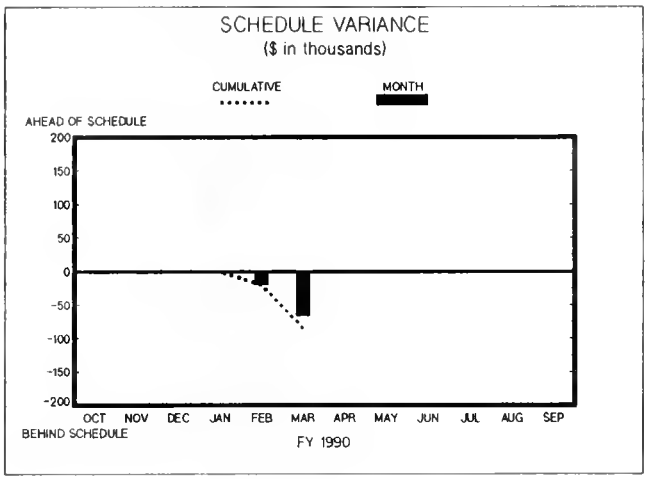
Program Manager :  Program Business Representative : W. A. Pelly Scheduler : W. A. Pelly

SST CHARCTERIZATION & ASSESSMENT - EF (RDDT&E)

MARCH 1990







SST CHARACTERIZATION & ASSESSMENT - EF (RDDT&E)
MARCH 1990

$ in thousands	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	106	212	318	441	610	1133	1543	2010	2356	2708	3203	4060
CUM ACWP	106	212	318	412	455	888						
CUM BCWP	106	212	318	441	591	1048						
COST VAR	0	0	0	29	136	160						
SCH VAR	0	0	0	0	-19	-85						

Cost Variance

Charges for work performed by outside contractors and laboratories have not been assessed.

Schedule Variance

Waste Packages work scope has been affected by manpower limitations in supporting organizations, particularly PNL.

PROGRAM IMPACT/RECOVERY PLAN :

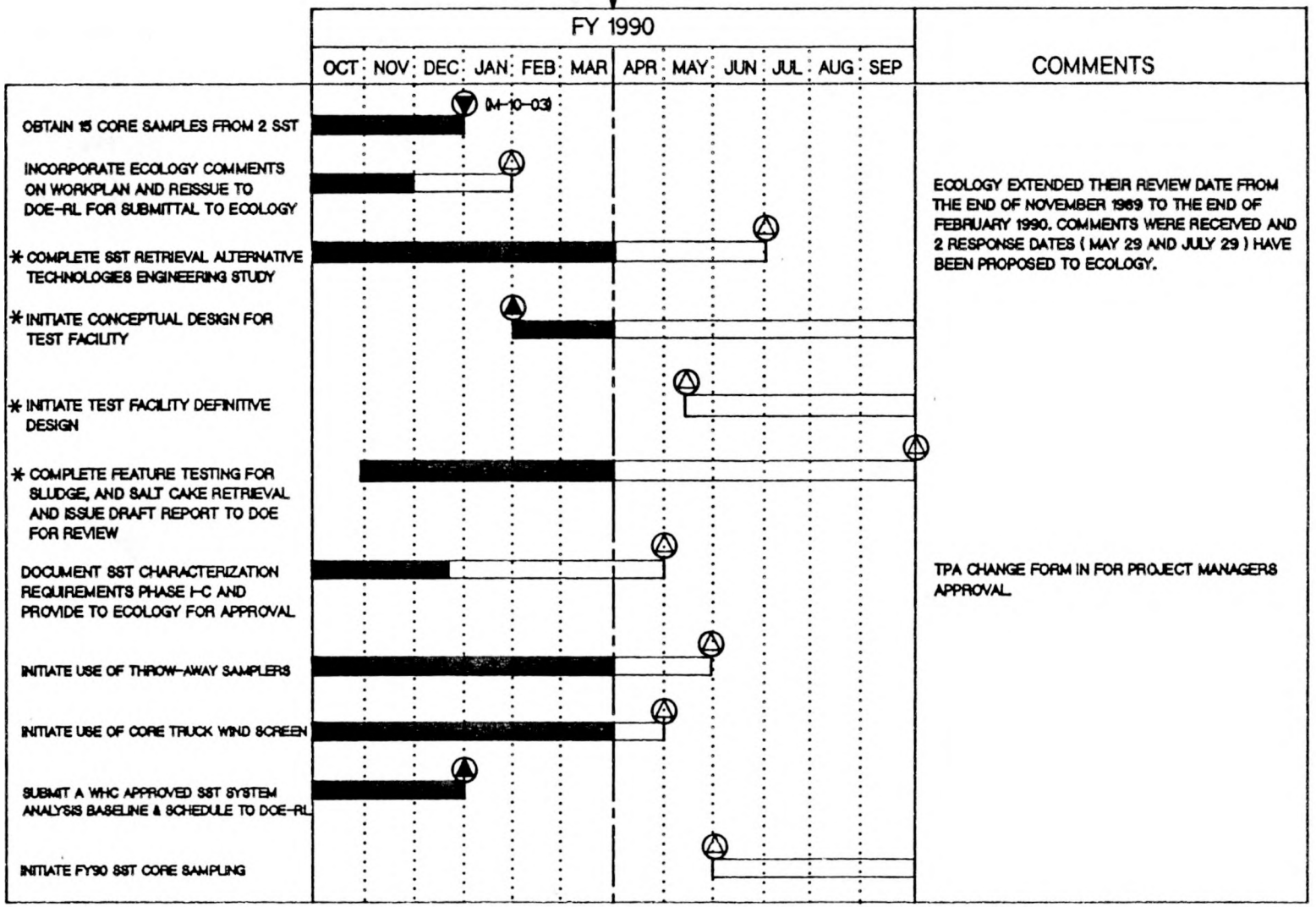
The cost variance will be resolved as outside contractor and laboratory charges are assessed. The computer equipment is expected to arrive soon.

The Waste Packages schedule is being revised to reflect the new support schedule supplied by PNL.

Program Manager : [signature] Program Business Representative : W. A. Pelly Scheduler : W. A. Pelly

HANFORD ENVIRONMENTAL RESTORATION
REMEDIAL ACTIONS PROGRAM
MONTHLY SUMMARY REPORT

EF - 200 AREA SST CHARACTERIZATION AND ASSESSMENT



△ DOE-RL MILESTONE

▽ DOE-HQ MILESTONE

* Funded within the Research Development Demonstration Testing and Evaluation.

Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

F.O.: RICHLAND CONTRACTOR: WESTINGHOUSE

TASK LOCATION: HANFORD **TASK NO. EG***

TITLE: TECHNOLOGY SUPPORT

TASK MANAGER: JORDAN

RCRA/CERCLA: BOTH

NO. OF POTENTIAL RELEASE SITES: ALL

TEC $: TBD TASK PHASE: N/A SUSPECT WASTE: MIXED

PLANNING EST.$: TBD FY 90 BUDGET: $ 1890

TASK DESCRIPTION/OBJECTIVE:

This end function includes the following activities:

- Provide overall technical development and demonstration coordination and integration for the ER Program.
- Assure completion of protective barrier, performance assessment, waste characterization, and treatment development and demonstration activities to support ER.

*Work to be funded within the RDDT&E Program.

STATUS:

- The report, "Information Guide to the Hanford Site Performance Assessment Database," was completed. The report documents database contents, structure, and access requirements.
- The data for the small-tube lysimeter experiment was transferred and analysis of storage, evapotransperations, and drainage initiated. Coordination with PNL staff on data management is underway.
- The UNSAT-H Version 2.0 computer code was successfully installed on the Hanford Site Cray Computer.
- Development of pre- and post-statistical analysis processors for PORMC-3 Version 1.0 was completed ahead of schedule. Work is continuing toward a July 30 milestone to issue a Users Guide for this software.
- The Animal Intrusion Field Test Plan was cleared for public release.
- Westinghouse Hanford gave technical approval for clearance of the PNL technical report, "Hanford Waste - Form Release and Sediment Interaction - Status Report". The report was transmitted by PNL to DOE-RL.
- A letter was transmitted to Golder Associates, Incorporated, Seattle, indicating Westinghouse Hanford completed a review of Golder's document entitled, "Protective Barrier Climate Change Assessment Study Plan, Independent Review Workshop Report". The Golder document will aid in the modifications of the climate study plan in the coming months.

TASK NO. EG*

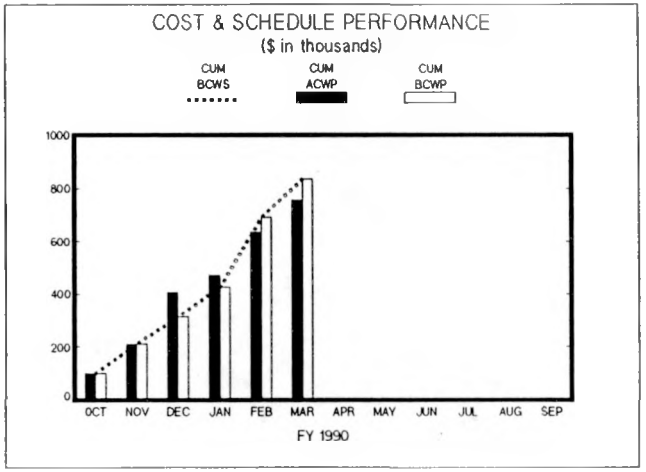
- Two half-day workshop sessions were held March 13 and 14 to continue planning efforts for remediation technology development and demonstration in support of the ERRA Program. The sessions were facilitated by the PNL Office of Technology Development and attended by technical and programmatic staff from PNL, Westinghouse Hanford, and DOE-RL. Technology needs identified by the workshop will be communicated to the Hanford ERRA Technology Interface Group for incorporation in future research, developing, demonstration, testing, and evaluation planning.

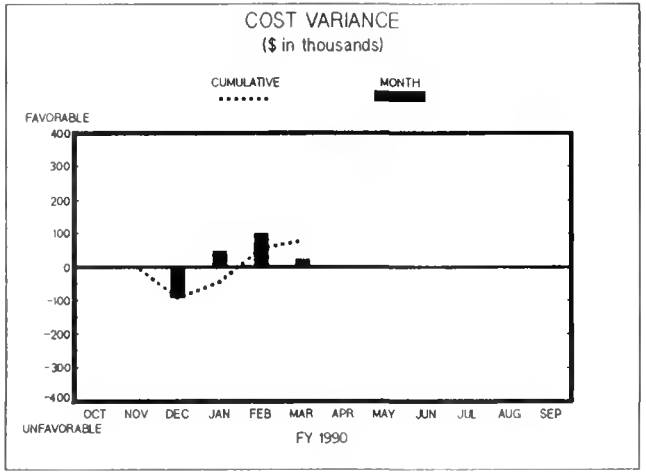
MANAGER'S ASSESSMENT OF % COMPLETE: 40%

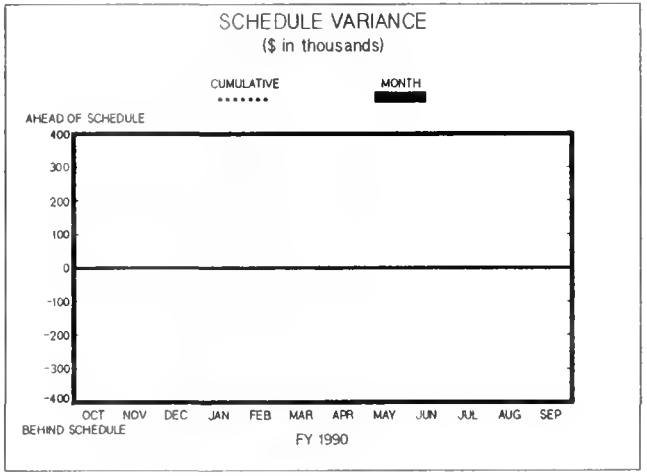
PROBLEMS: None to report.

RI/FS TECHNOLOGY SUPPORT - EG

MARCH 1990







RI/FS TECHNOLOGY SUPPORT - EG
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	100	209	315	426	691	835	1031	1191	1351	1521	1681	1890
	CUM ACWP	100	209	407	470	635	756						
	CUM BCWP	100	209	315	426	691	835						
	COST VAR	0	0	-92	-44	56	79						
	SCH VAR	0	0	0	0	0	0						

Cost Variance

The favorable cost variance is due to uncertainty of tasks associated with authorized TD&D work scope, resulting in less effort applied to these tasks.

Schedule Variance

There is no schedule variance.

PROGRAM IMPACT/RECOVERY PLAN :

Effort is underway to resolve the uncertainties and apply required effort.

Program Manager : _____ Program Business Representative : R.A. Bowell Scheduler : R.A. Bowell

Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

F.O.: RICHLAND CONTRACTOR: WESTINGHOUSE

TASK LOCATION: HANFORD **TASK NO. EJ**

TITLE: RADIATION AREA REDUCTION

TASK MANAGER: JORDAN

RCRA/CERCLA: N/A

NO. OF POTENTIAL RELEASE SITES: N/A

TEC $: $TBD TASK PHASE: N/A SUSPECT WASTE: N/A

PLANNING EST.$: TBD FY 90 BUDGET: $3135

TASK DESCRIPTION/OBJECTIVE:

This end function includes the following activities:

- Maintain previously decontaminated surface area.
- Provide herbicide application support.
- Decontaminate and stabilize additional surface area.
- Maintain compliance with 40 CFR 280 and 281 Final Rules for USTs.
- Provide UST removal and characterization.

STATUS:

- Surface stabilization of the 218-C-9 trench (approximately four acres) was completed.
- Extension of the vadose zone and groundwater wells at 216-T-26/27/28 inactive cribs was completed in preparation for stabilization of these areas this fiscal year. The cultural resources review clearance was received for these inactive cribs and unplanned release site UN-216-W-7.
- Routine quarterly surveillance and maintenance of surface stabilized outdoor radiation areas was completed.
- The cultural resources review clearance was received for stabilization of the 216-T-34/-35 inactive cribs.
- Cleanup of outdoor radiation areas in preparation for selective herbicide application was completed. Aerial application of selective herbicide on 970 acres was completed and 79 acres have been sprayed by the ground crew.
- Posting upgrades of outdoor radiation areas continues.
- Discussions and walkthrough of suspected USTs with pressurized piping have been completed.

  The five systems identified require the addition of cathodic protection and tightness testing by December 22. The tank owners shall be notified in writing by the end of the month to fully explain the compliance activities that are required.

TASK NO. EJ

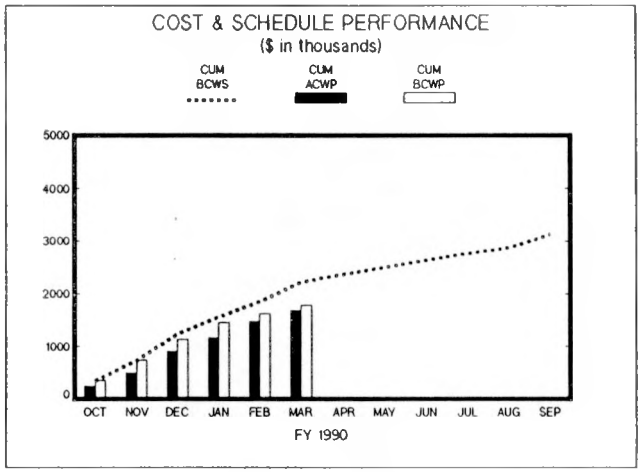
MANAGER'S ASSESSMENT OF % COMPLETE: 52%

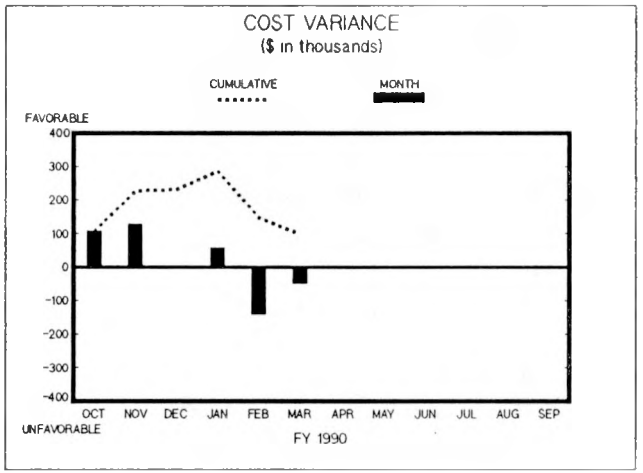
PROBLEMS:

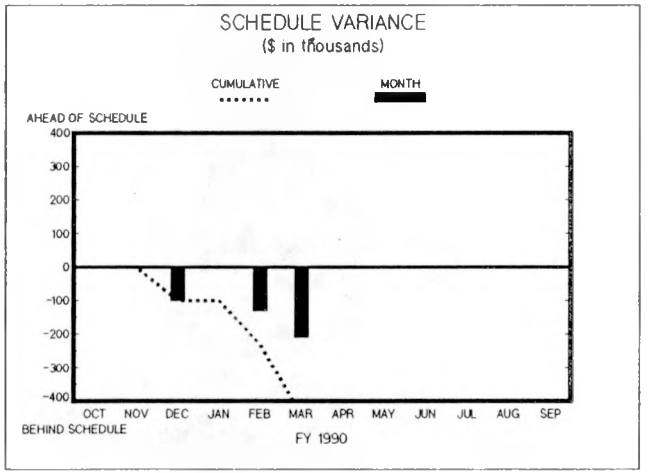
- Site remediation of the 703 UST is held up pending Regulatory and Environmental determination as to which way remediation should proceed. It appears that actual remediation work cannot start until early April. Late remediation of this site will jeopardize a subcontractor from pouring concrete foundation for a large air conditioning unit for the 703 Building over the area where the 703 Tank was buried.

RADIATION AREA REDUCTION - EJ

MARCH 1990







RADIATION AREA REDUCTION - EJ
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	351	734	1235	1560	1856	2208	2373	2506	2637	2764	2876	3135
	CUM ACWP	243	498	905	1173	1478	1680						
	CUM BCWP	351	734	1135	1460	1625	1778						
	COST VAR	108	236	230	287	147	98						
	SCH VAR	0	0	-100	-100	-231	-430						

Cost Variance

The favorable cost variance of $98K is primarily costs from Offsite Waste Disposal-Northwest Enviro Services for underground storage tank removal have not yet been received.

Schedule Variance

The unfavorable schedule variance of $430K is because remediation of the 703-1 tank site was delayed because the site was determined to be a hazardous waste site, and a site remediation plan was required. In addition, resources planned for surface stabilization activities for February and March were diverted to the Navy trench.

PROGRAM IMPACT/RECOVERY PLAN :

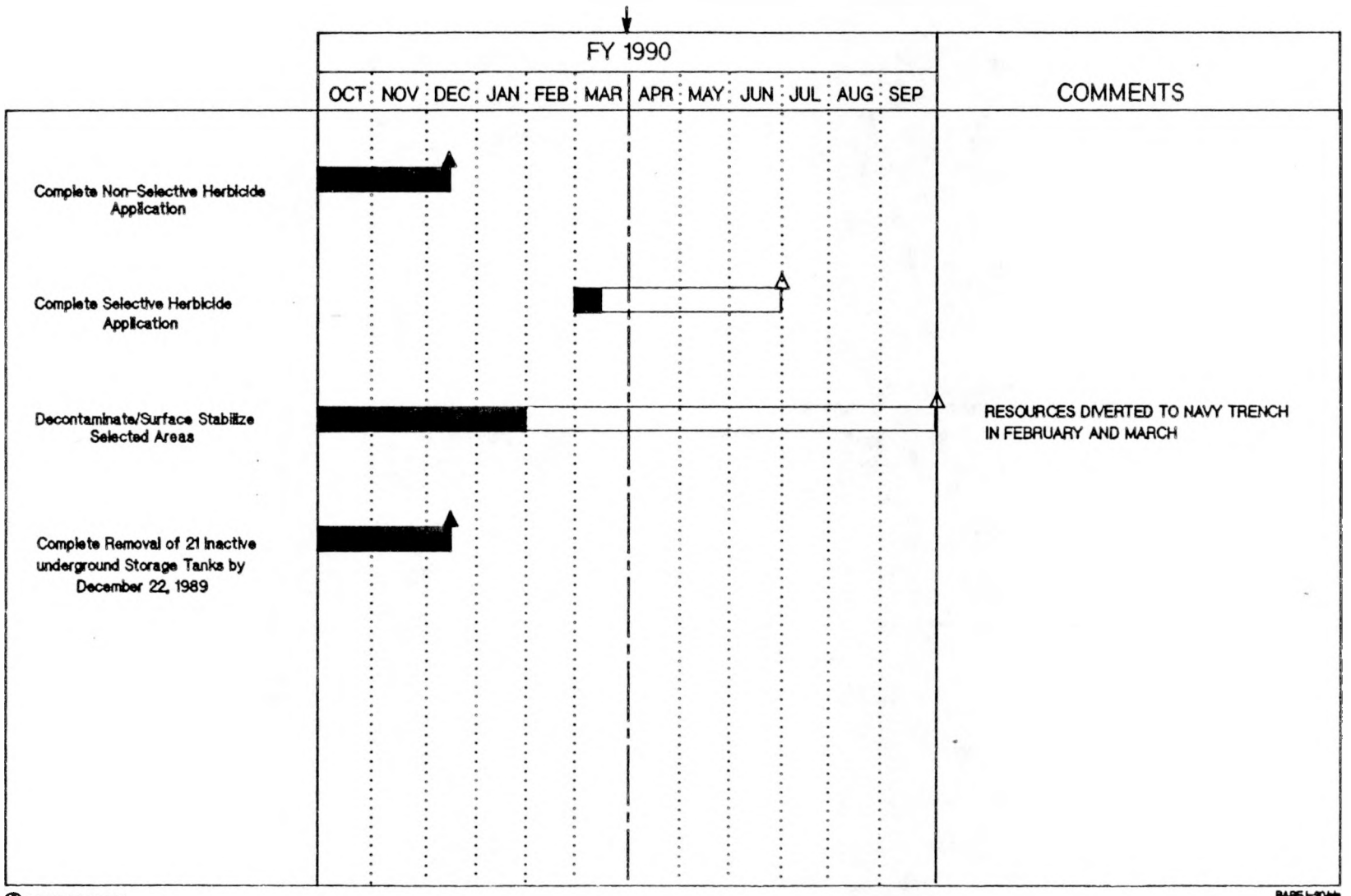
Charges from Offsite Waste Disposal-Northwest Enviro Services will be received and costed over the next few months.

An action plan for remediation of the 703-1 Tank was prepared and will be reviewed.

Program Manager : Program Business Representative R A Rowell Scheduler : R A Rowell

HANFORD ENVIRONMENTAL RESTORATION
REMEDIAL ACTIONS PROGRAM
MONTHLY SUMMARY REPORT

EJ – RADIATION AREA REDUCTION



Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

F.O.: RICHLAND CONTRACTOR: WESTINGHOUSE

TASK LOCATION: HANFORD **TASK NO. EK**

TITLE: FACILITY, SYSTEMS, AND EQUIPMENT UPGRADES

TASK MANAGER: WINTCZAK

RCRA/CERCLA: Both

NO. OF POTENTIAL RELEASE SITES: N/A

TEC $: $TBD TASK PHASE: N/A SUSPECT WASTE: N/A

PLANNING EST.$: TBD FY 90 BUDGET: $14744

TASK DESCRIPTION/OBJECTIVE:

This end function includes the following activities:

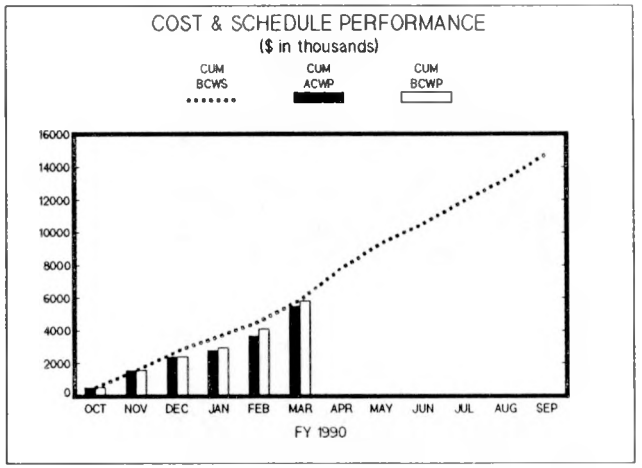
- Upgrades of the onsite laboratories to support the RCRA and CERCLA activities.
- Upgrades of the onsite drilling capabilities to support the RCRA and CERCLA activities.
- Development of purgewater storage and treatment system.

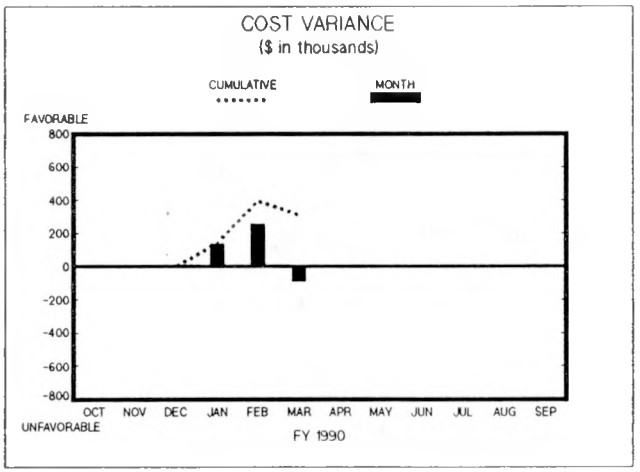
STATUS:

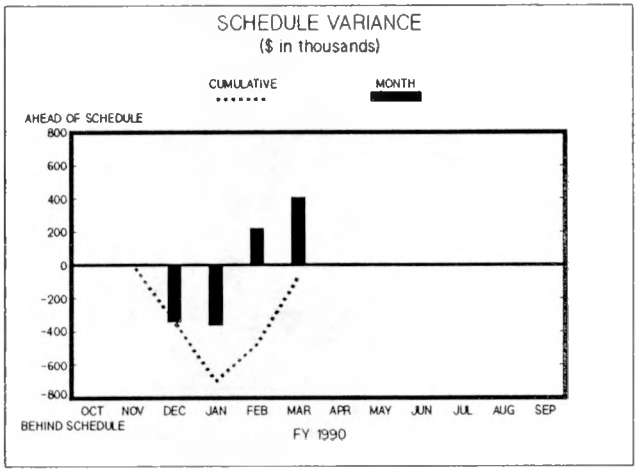
- Purgewater was transferred from the 100K Area tanks to the purgewater modu tanks. By moving the purgewater prior to the 90-day storage limit being exceeded, the need for a RCRA closure plan for the 100K Area tanks was eliminated.
- Three cable tool trucks ordered in September 1989 are expected to be delivered in April. Two cable tool rigs are onsite awaiting vehicles, with a third rig expected in March.
- Bids on the fabrication of the second SST CST were opened on February 9. Six vendors provided bids ranging from $350K to $550K.
- The preliminary requirements document for the Hanford Laboratory Information Management System was completed.
- Work was completed on the development of an input data file for a computer run, using VAM2DH, to simulate flow and transport of contaminants due to purgewater application in the 200 West Area at Hanford.
- Procurement of the angle auger drill is in process. Due to preprocurement plans and required approval by DOE-RL, there has been a one-month slip in the procurement process.
- The Becker Drill Cutting Containment System arrived onsite on March 20. An acceptance inspection is currently in progress. Arrangements were made with Westinghouse Hanford support organizations to provide H HEPA filter replacement and testing to minimize delay charges from the drilling contractor. Pressure testing of the backup's drill cuttings containment box was completed.
- A technical inspection was completed on the final three cable tool drill rigs received.

MANAGER'S ASSESSMENT OF % COMPLETE: 37%
PROBLEMS: None to report.

FACILITY, SYSTEMS & EQUIPMENT UPGRADES - EK
MARCH 1990







FACILITY, SYSTEMS & EQUIPMENT UPGRADES - EK
MARCH 1990

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	548	1586	2734	3630	4572	5876	7810	9329	10534	11919	13247	14744
$ in thousands	CUM ACWP	548	1586	2393	2789	3695	5495						
	CUM BCWP	548	1586	2393	2929	4094	5806						
	COST VAR	0	0	0	140	399	311						
	SCH VAR	0	0	-341	-701	-478	-70						

Cost Variance

The favorable cost variance of $311K is due to purge water equipment received but not yet costed and two tanker trucks costing less than planned.

Schedule Variance

The unfavorable schedule variance of $70K is due insignificant.

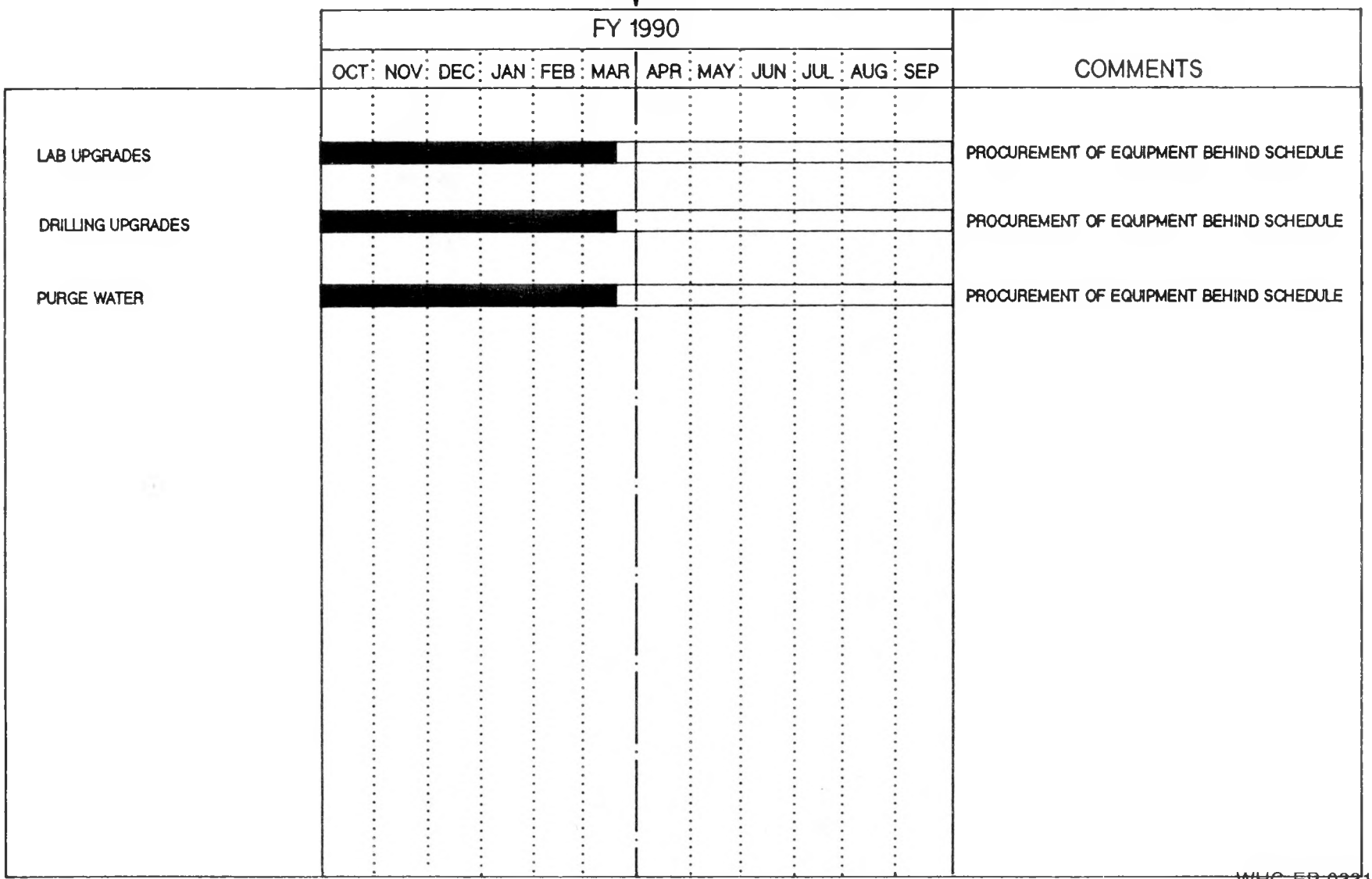
PROGRAM IMPACT/RECOVERY PLAN :

No impact. Equipment will be received and costed by yearend.

Program Manager : [signature] Program Business Representative : [signature] Scheduler : [signature]

HANFORD ENVIRONMENTAL RESTORATION
REMEDIAL ACTIONS PROGRAM
MONTHLY SUMMARY REPORT

EK – FACILITY SYSTEM AND EQUIPMENT UPGRADES



Environmental Restoration Remedial Actions Program
GF-72-89-01/GF-72-89-02/GF-72-91-01/GF-72-91-02/GF-72-93-01
FY 1990 QUARTERLY STATUS
January - March 1990

F.O.: RICHLAND CONTRACTOR: WESTINGHOUSE

TASK LOCATION: HANFORD **TASK NO. EV**

TITLE: RCRA (NON-SINGLE-SHELL TANK) CLOSURES

TASK MANAGER: HALL

RCRA/CERCLA: RCRA

NO. OF POTENTIAL RELEASE SITES: N/A

TEC $: $TBD TASK PHASE: N/A SUSPECT WASTE: N/A

PLANNING EST.$: TBD FY 90 BUDGET: $11880

TASK DESCRIPTION/OBJECTIVE:

This end function includes the following activities:

- 300 Area Process Trench.
- 183-H Solar Basin.
- Development of B Pond Closure Plan.
- Completion of B Pond By-Pass Project W-019.
- Development of NRDWL and Post Closure Plan.
- Stabilization of the A-29 Ditch.

STATUS:

- The 216-B-3 Pond System Closure/Post-Closure Plan was transmitted to Ecology and EPA on March 30, meeting the Tri-Party Agreement Milestone M-20-09.
- A draft of the NRDWL closure/post-closure plan has been prepared and distributed for Westinghouse Hanford management review on schedule. A revised draft is scheduled to be transmitted to DOE-RL on June 1 for review. Interim Milestone M-20-07 under the Tri-Party Agreement action plan requires that a closure/post-closure plan be submitted to Ecology and EPA in August.
- The report, "Risk Assessment for the Nonradioactive Dangerous Waste Landfill, Hanford Site, Washington," was received by Westinghouse Hanford from Golder Associates, Incorporated. Review of this report was completed. Results of the study show that preliminary risk assessment indicates no significant threat to human health or the environment exist as a result of NRDWL operations.
- The contract to install 36" diameter pipeline from the Contingency Pond Control Structure to the 216-B-3A Lobe was awarded to an offsite contractor. Completion of construction is scheduled for May 30. Completion of the A-29 Ditch diversion structure installation is still being impacted by the Plutonium and Uranium Extraction Facility (PUREX) clean outrun. Expected completion date for this structure installation is April 30. This project is proceeding well ahead of the Agreement Milestone (M-17-01) October date for completion of the project.

TASK NO. EV

- The 183-H Closure Plan was reviewed and approved by Westinghouse Hanford and transmitted to DOE-RL on March 23 for their review and comments. The plan is scheduled for return on April 6 and will be delivered to Ecology on April 13.

- Removal of the crystallized material resumed on February 26 in the 183-H Evaporation Basins closure activity. Work had been suspended during the winter months of January and February. During this reporting period, 492 drums were filled with crystallized solid material at the 183-H Solar Evaporation Basins. There are currently 412 drums on the 90-day storage pad. The first shipment of 14 pallets was transported to the Central Waste Complex on March 22.

MANAGER'S ASSESSMENT OF % COMPLETE: 47%

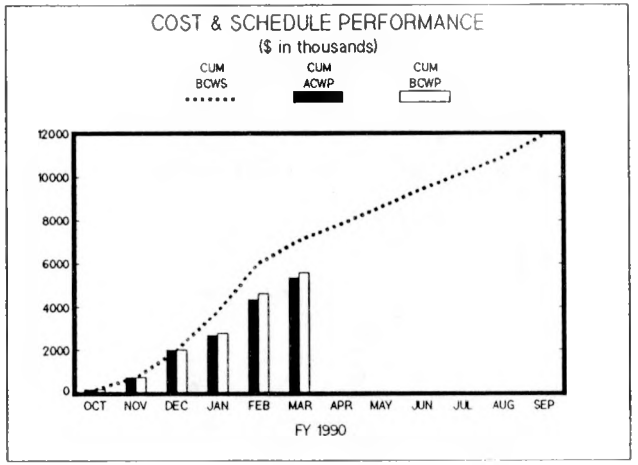
PROBLEMS:

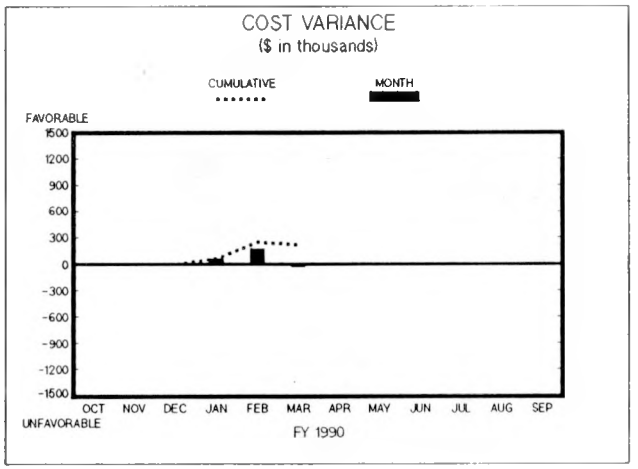
- An additional 15,030 cubic feet of radioactive mixed waste has been identified for the 183-H Solar Basins. The estimate-at-completion will be higher than the original budget by $300K to $500K for the cleanout.

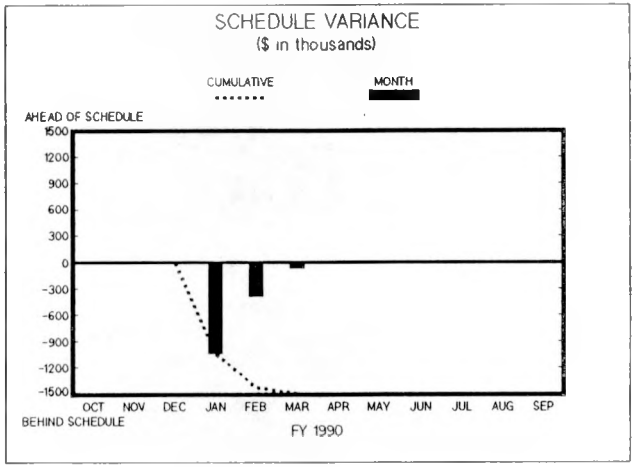
- Westinghouse Hanford/DOE-RL submitted on schedule documentation to Ecology on selection of the 300 Area Process Trench effluent treatment option and established a schedule for implementing treatment and ceasing liquid discharge. This Plan fulfills the commitment for Tri-Party Agreement Milestone M-17-05 and identifies an effluent treatment facility to be operational by December 1994. Significant rebaselining of the current year work scope for the 300 Area Process Trenches is required to support the recommended schedule, and a Class I Change Request is being prepared. While approval of this change request is contingent upon Ecology's approval of this plan (and associated class II Tri-Party Agreement Change Form), the aggressive schedule needed to support the plan requires that the new work scope be initiated as soon as possible to avoid any impacts to the new milestones.

RCRA (NON-SST) CLOSURES - EV

MARCH 1990







RCRA (NON-SST) CLOSURES - EV
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	202	754	2018	3798	6030	7059	7834	8620	9421	10155	10909	11880
	CUM ACWP	202	754	2018	2691	4358	5347						
	CUM BCWP	202	754	2018	2761	4605	5569						
	COST VAR	0	0	0	70	247	222						
	SCH VAR	0	0	0	-1037	-1425	-1490						

Cost Variance

The 183-H Solar Basin Cleanout is underrun due to labor and other costs being less than anticipated and costs for sample analysis not being received. In addition, the NRDWL Closure/ Post Closure Plan is underrun due to unmatched costs.

The underruns are partially offset by an overrun in 183-H Groundwater Monitoring due to approved assessment rates being higher than preliminary planning rates.

Schedule Variance

The unfavorable schedule variance is due to: (1) Phase III Sampling activities for the B Pond Closure will begin later than originally planned (2) work on the 300 Area Treatment System is being reduced while issues regarding work scope are being addressed (3) the B Pond By-Pass construction is behind schedule because of required redesign which was completed in February. (Also, awarding the construction contract has taken additional time because of resubmittal of bid packages). (4) Work on the A-29 Ditch stabilization was initiated four week late, and (5) IRM and contractor support of the NRDWL Closure will be utilized later than planned.

PROGRAM IMPACT/RECOVERY PLAN :
The 183-H Cleanout underrun and the Monitoring overrun are being examined as part of the mid-year review. Also, the criteria for purge-water assessment are being reviewed to verify the rate being used. The unmatched costs will be corrected in April.

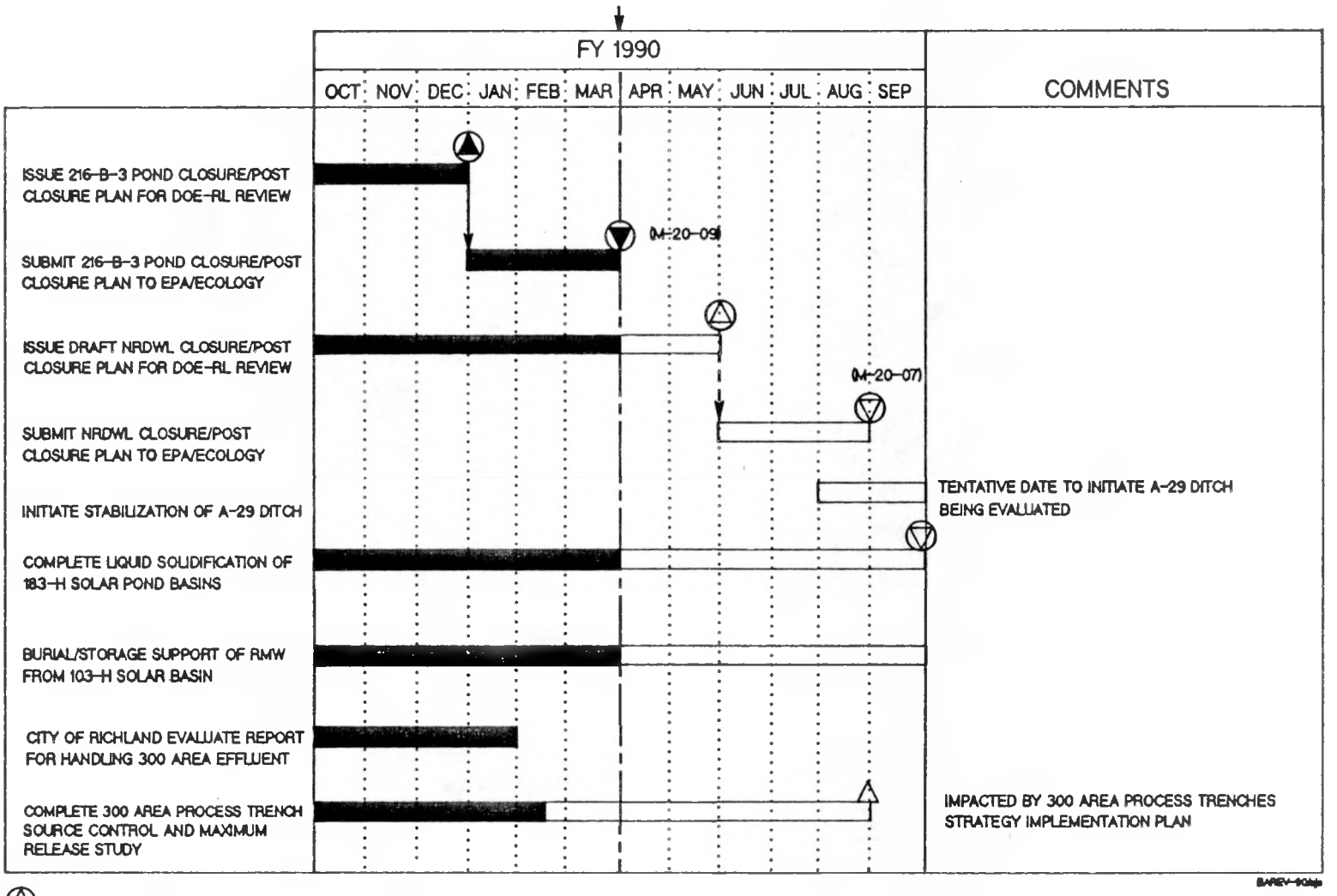
Drilling activities in support to the B Pond characterization, originally scheduled to begin in January, will begin in April, without impact to any major milestones. The B Pond By-Pass Project schedule variance will be eliminated over the next several months as work is accelerated, now that the redesign/bidding process is complete. Work in support of the A-29 Ditch stabilization effort will gradually accelerate, thus recovering the schedule. As a result of the 300 Area Process Trenches Strategy Implementation Plan, a change request will be prepared to rebaseline the workscope for the 300 Area Process Trenches.

(It should be noted that, except for the 300 Area Process Trenches, no milestones on the accompanying chart are impacted by the activities that are behind schedule.)

Program Manager : E.D. Hall Program Business Representative : W.A. Pelly Scheduler : W.A. Pelly

HANFORD ENVIRONMENTAL RESTORATION
REMEDIAL ACTIONS PROGRAM
MONTHLY SUMMARY REPORT

EV – RCRA (NON-SST) CLOSURES

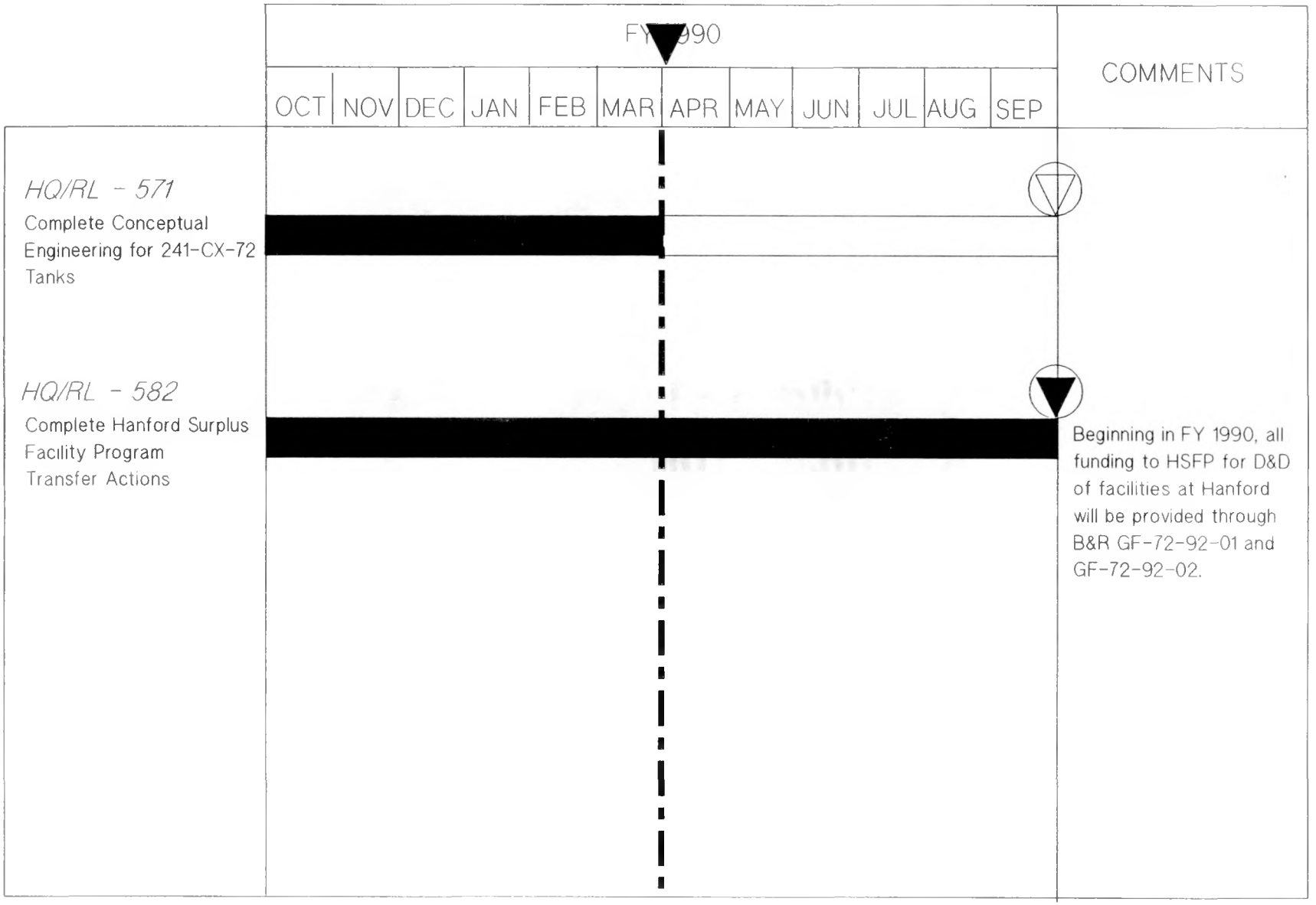


DOE-RL MILESTONE

DOE-HQ MILESTONE

KEY MILESTONE

DECOMMISSIONING & ENVIRONMENTAL OPERATIONS SUMMARY - U
MARCH 1990

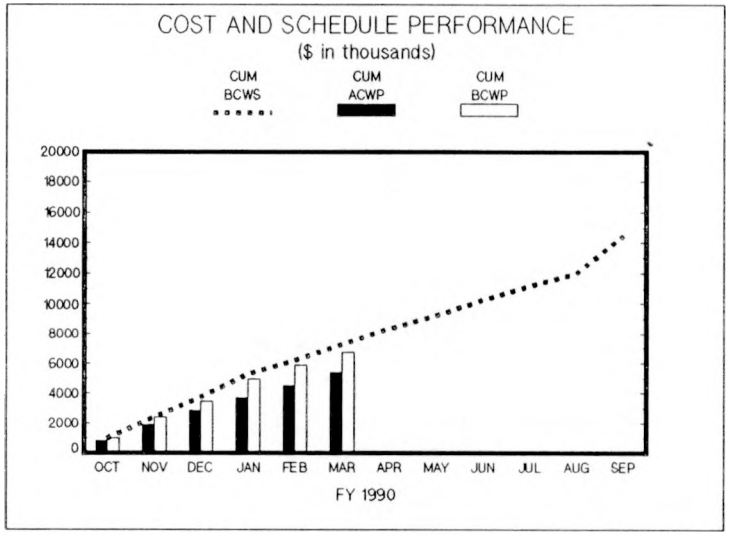


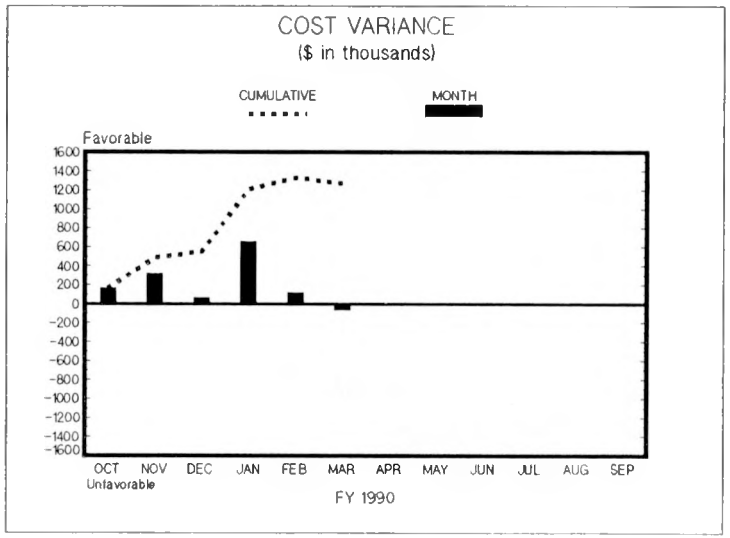
Decommissioning & Environmental Operations
FY 1990 QUARTERLY STATUS
January-March 1990

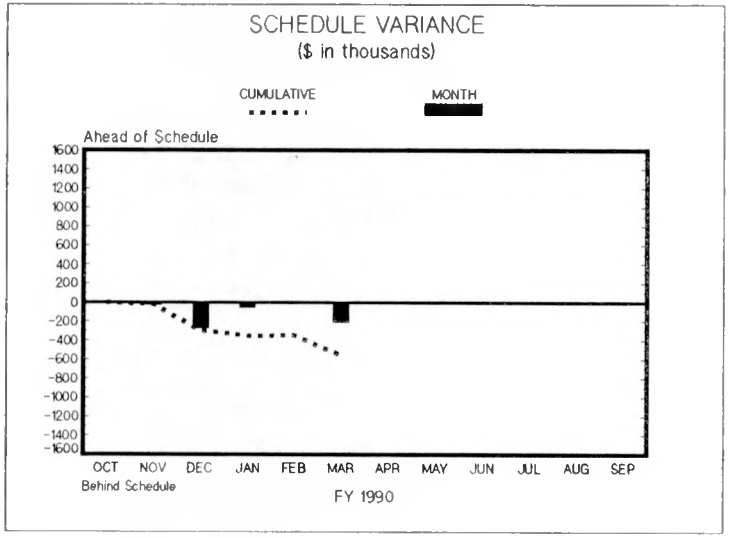
FINANCIAL STATUS OVERVIEW
($ in 000s)

Program	Budget (BCWS)	Cost* (ACWP)	Value (BCWP)	Cost Variance	Schedule Variance	Total Budget
U1 Program Management/Administration	1,090	867	982	115	(108)	2,504
U3 Surveillance and Maintenance	2,255	2,313	2,118	(195)	(137)	4,673
U5 Lead Site Office	711	431	711	280	0	1,646
UB 100 Area Reactors Decommissioning Project	1,078	809	797	(12)	(281)	2,730
UE 201-C Strontium Semiworks	371	253	341	88	(30)	1,196
UY Shippingport Station Decommissioning Project	1,751	753	1,751	998	0	1,751
TOTAL - Decommissioning & Environmental Ops...	7,256	5,426	6,700	1,274	(556)	14,500

DECOMMISSIONING & ENVIRONMENTAL OPERATIONS SUMMARY - U
MARCH 1990







DECOMMISSIONING & ENVIRONMENTAL OPERATIONS SUMMARY - U
MARCH 1990

$ in Thousands	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	971	2441	3751	5314	6224	7256	8351	9234	10269	11181	11979	14500
CUM ACWP	802	1927	2906	3748	4546	5426						
CUM BCWP	971	2415	3456	4961	5880	6700						
COST VAR	169	488	550	1213	1334	1274						
SCH VAR	0	-26	-295	-353	-344	-556						

Cost Variance

See the following End Function Pages:

Program Management/Administration - U1
Surveillance and Maintenance - U3
Lead Site Office - U5
201-C Strontium Semiworks - UE
Shippingport Decommissioning Project - UY

Schedule Variance

See the following End Function Pages:

Program Management/Administration - U1
Surveillance and Maintenance - U3
100 Area Reactors Decommissioning Project - UB

PROGRAM IMPACT/RECOVERY PLAN :

Reporting of 183-H Solar Basins (UA) Cost & Schedule Performance was transferred to Environmental Restoration - Remedial Action Program (EV112).

Program Manager : _____ Program Business Representative : S McCoy Scheduler : Sylvia Kisser

Decommissioning and Environmental Operations
FY 1990 QUARTERLY STATUS
January - March 1990

Program Management/Administration - U1

OBJECTIVE: Provide program management, administration, advance engineering, advance characterization, planning, control, safety, quality assurance, and environmental protection support necessary for the Hanford Surplus Facilities Programs (HSFP) to achieve cost effective and safe decommissioning of surplus facilities and structures at Hanford.

- Completed and forwarded to the U.S. Department of Energy-Richland Operations Office (DOE-RL) for approval a memo-to-file for demolition of the 1701-D, 2719-W, and 1254 Buildings.

- The Activity Data Sheets (ADS) for Westinghouse Hanford Company's Decontamination & Decommissioning (D&D) projects have been revised to incorporate the U.S. Department of Energy - Headquarters (DOE-HQ) comments, approved by Westinghouse Hanford Company and DOE-RL, and transmitted to DOE-HQ.

- All monthly reports were completed and transmitted to DOE-RL as scheduled.

- Completed all Environmental Division input for the Hanford Site Strategic Facilities Plan and forwarded to the Lead Coordinator on January 10. This completed the Environmental Division input to this plan two weeks ahead of schedule.

- The HSFP issued the Site Asbestos Abatement Plan implementation schedule to DOE-RL on January 15 in accordance with the commitment.

- The Environmental Division (ED) 1990 Total Quality Improvement Plan was completed and distributed to all ED employees on February 7 at an "All Hands" meeting held in the Federal Building.

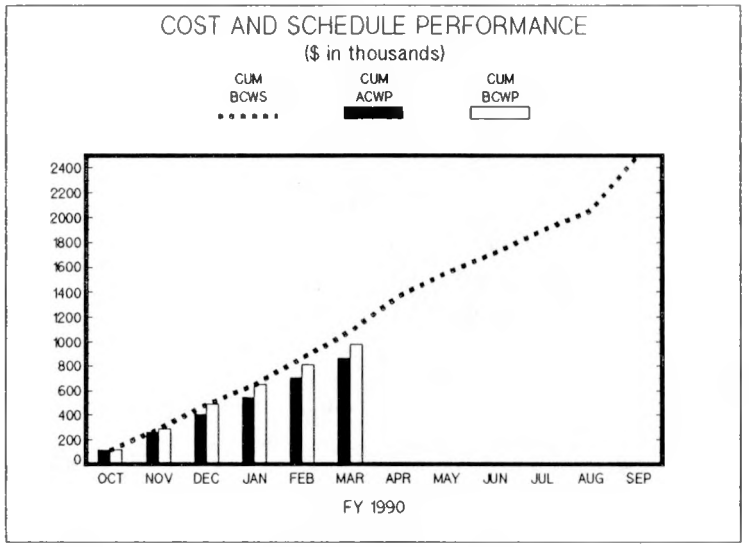
- The HSFP personnel reviewed and commented on the shutdown plan for the Fast Flux Test Facility and submitted comments to the shutdown project engineer on February 23 as requested.

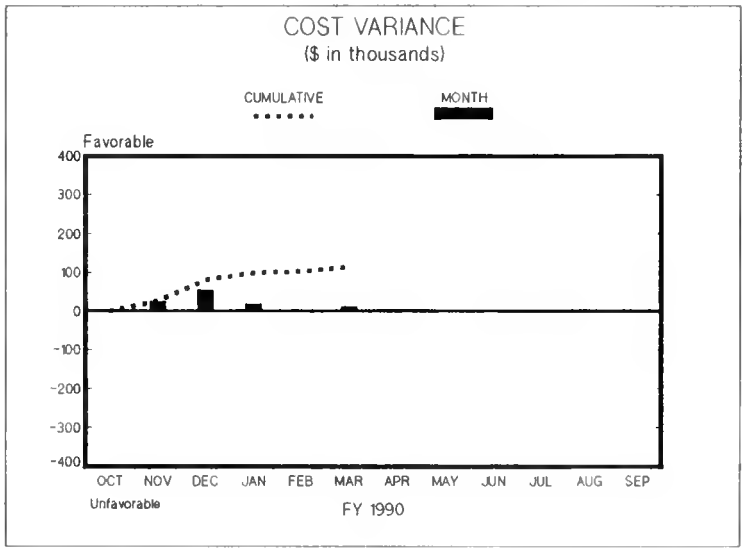
- The HSFP and Office of Defense Facilities Decommissioning Programs (ODFDP) personnel visited the Rancho Seco Site to evaluate data collection on decommissioning activities for Nuclear Regulatory Agency (NRC) studies.

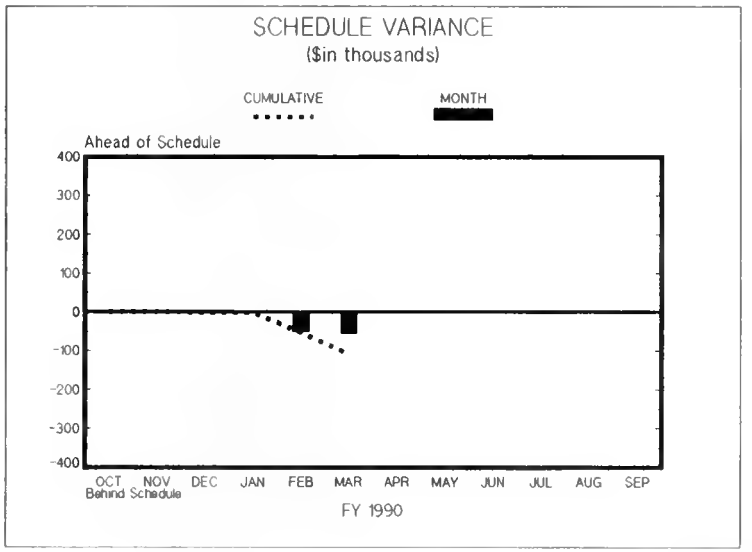
- The HSFP presentation on D&D activities at Hanford was given at Waste Management '90 at Tucson, Arizona on February 28.

- The HSFP completed the fiscal year (FY) 1992 budget submittal as requested by the DOE D&D Division of Environmental Restoration and Waste Management. The submittal was transmitted to DOE-RL on March 30.

PROGRAM MANAGEMENT/ADMINISTRATION - U1
MARCH 1990







PROGRAM MANAGEMENT/ADMINISTRATION – U1
MARCH 1990

$ in Thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	120	288	490	650	864	1090	1365	1554	1719	1899	2054	2504
	CUM ACWP	120	262	409	549	709	867						
	CUM BCWP	120	288	489	648	811	982						
	COST VAR	0	26	80	99	102	115						
	SCH VAR	0	0	-1	-2	-53	-108						

Cost Variance

The favorable cost variance is due to time-phasing of computer equipment purchases. Additionally, labor support costs from Quality Assurance, Safety, Environmental, and Facility Compliance are less than planned at this time. Hanford Surplus Facilities Program expects to receive revised guidance from DOE-RL during April. This would result in a budget reduction of $200,000 which would utilize the Fiscal Year To Date (FYTD) cost underrun.

Schedule Variance

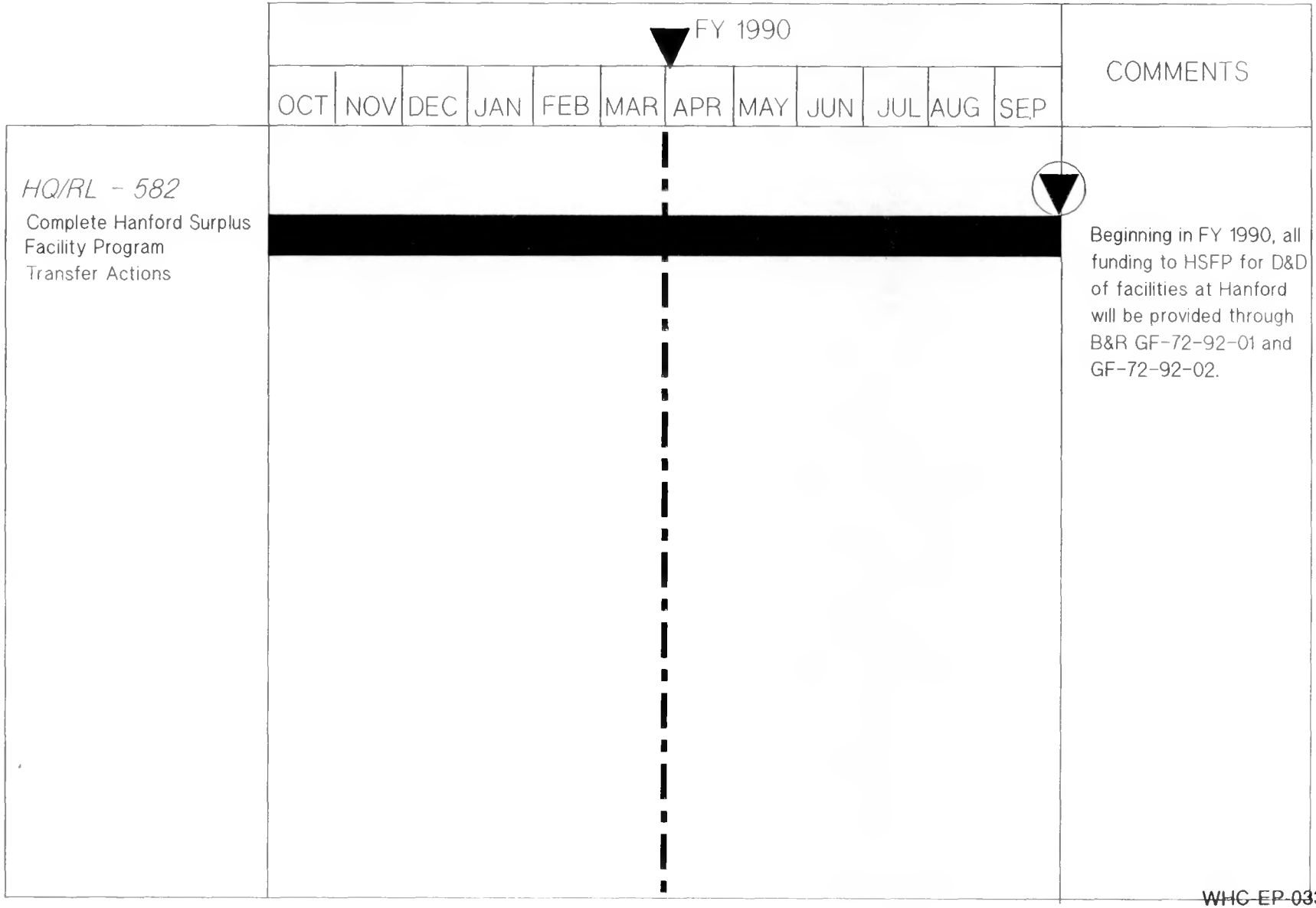
The unfavorable schedule variance is due to staffing shortages delaying start of engineering tasks related to the characterization at 233-S facility. No Impacts to completing this task in FY 1990 is anticipated.

PROGRAM IMPACT/RECOVERY PLAN :

A Class I Change Request will be processed after FY 1990 Guidance is received from DOE-RL.

Program Manager M A ... for MCH   Program Business Representative : S McCoy   Scheduler : Sylvia Kiser

PROGRAM MANAGEMENT/ADMINISTRATION - U1
MARCH 1990



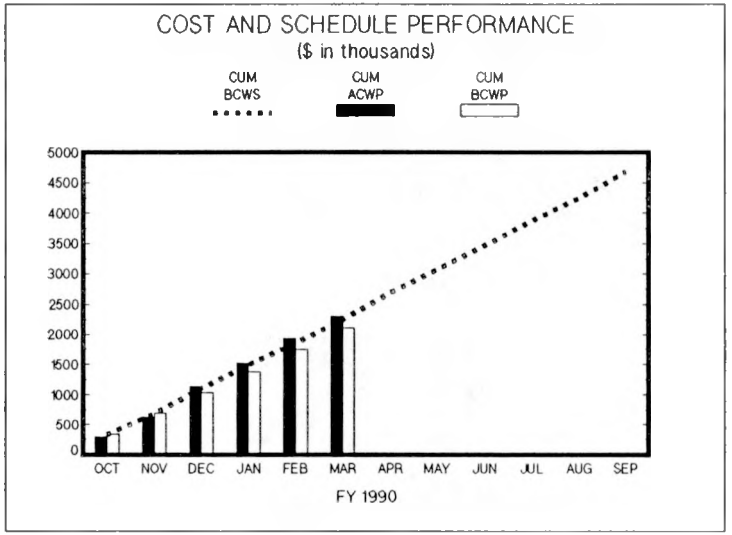
Decommissioning and Environmental Operations
FY 1990 QUARTERLY STATUS
January - March 1990

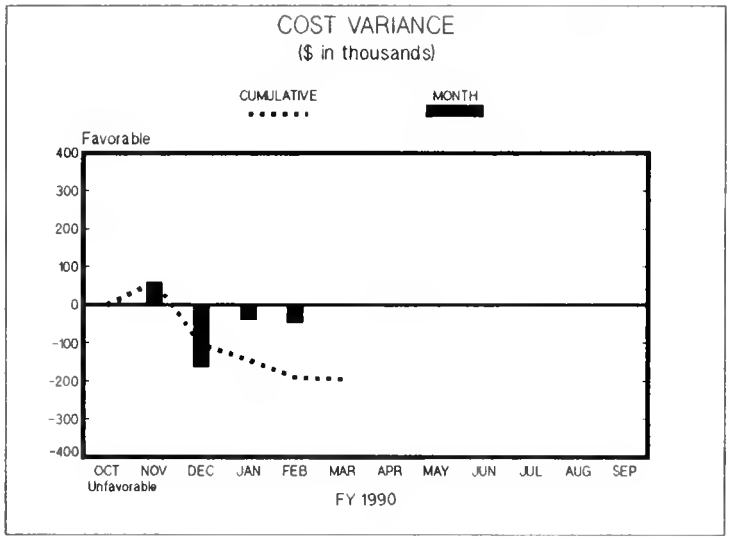
Surveillance & Maintenance - U3

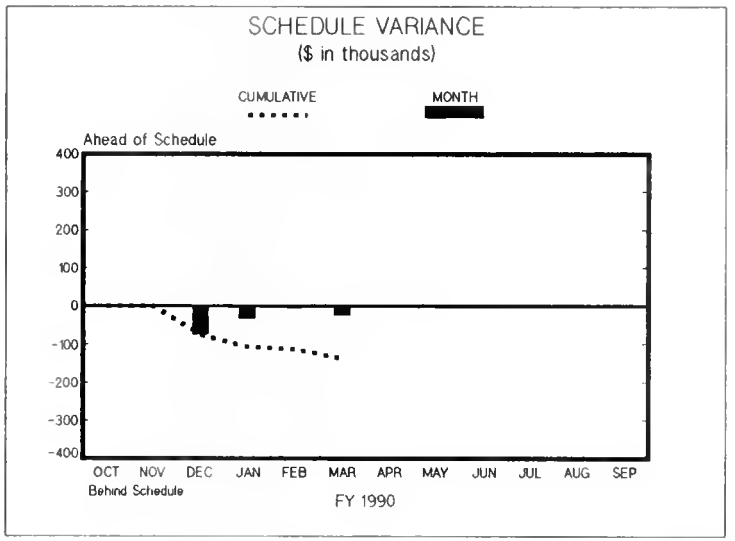
OBJECTIVE: Provide a program for routine surveillance and maintenance and property control of the surplus contaminated facilities in the 100/200 Areas at Hanford. Maintain the facilities in a safe condition to assure continued compliance with the US. Department of Energy's Health and Safety Standards until final decommissioning work can be performed.

- Completed hazardous waste inspection of all facilities assigned for completion during the first quarter, calendar year 1990.
- Completed the 233-SA stack upgrade.
- Completed 100-D/DR sign upgrade of the A-548 marker posts.
- Replaced failed vacuum pump at the 291-U stack monitoring system.
- Completed roof repairs at 105-C Reactor Building.
- Completed preliminary engineering tests of the 233-SA stack upgrade.
- Repaired the fire alarms at 221-U facility.
- Completed calibration of instruments on the 296-S-6 stack.
- Completed ground and aerial application of herbicide in the 100 Areas.
- Completed 100-KE/KW sign upgrade of the A-548 marker posts.
- Replaced failed vacuum pump at the 291-S air sampling station.
- Completed surveillance of the 221-U canyon and the 202-S sample gallery.
- Completed 19 Radiological Problem Reports (RPRs) for the 100 Areas and 29 RPRs for the 200 Areas.
- Completed four Inspection Problem Reports in the 100 and 200 Areas.

SURVEILLANCE AND MAINTENANCE - U3
MARCH 1990







SURVEILLANCE AND MAINTENANCE - U3
MARCH 1990

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	291	695	1106	1490	1860	2255	2697	3079	3471	3877	4250	4673
$ in	CUM ACWP	291	635	1136	1526	1938	2313						
Thousands	CUM BCWP	291	695	1032	1383	1747	2118						
	COST VAR	0	60	-104	-143	-191	-195						
	SCH VAR	0	0	-74	-107	-113	-137						

Cost Variance

(1) Dedicated equipment costs are greater than planned at this time.

(2) Health Physics, and Operations Support Services support is greater than planned at this time.

(3) Hazardous waste assessment is greater than anticipated. Assessment was established prior to approval of the FY 1990 cost account plan. The assessment estimate was for 100 drums which included waste from the Underground Storage Tanks (EJ). It was realized later that this was removed directly by a subcontractor (Northwest EnviroServices). A cost correction is anticipated for April.

Schedule Variance

(1) Removal of effluent pipe from 105-B Area is behind schedule due to a shortage of personnel and support being given to higher priority work.

(2) Correction of audit discrepancies is behind schedule due to personnel shortages. These will be completed later in the fiscal year.

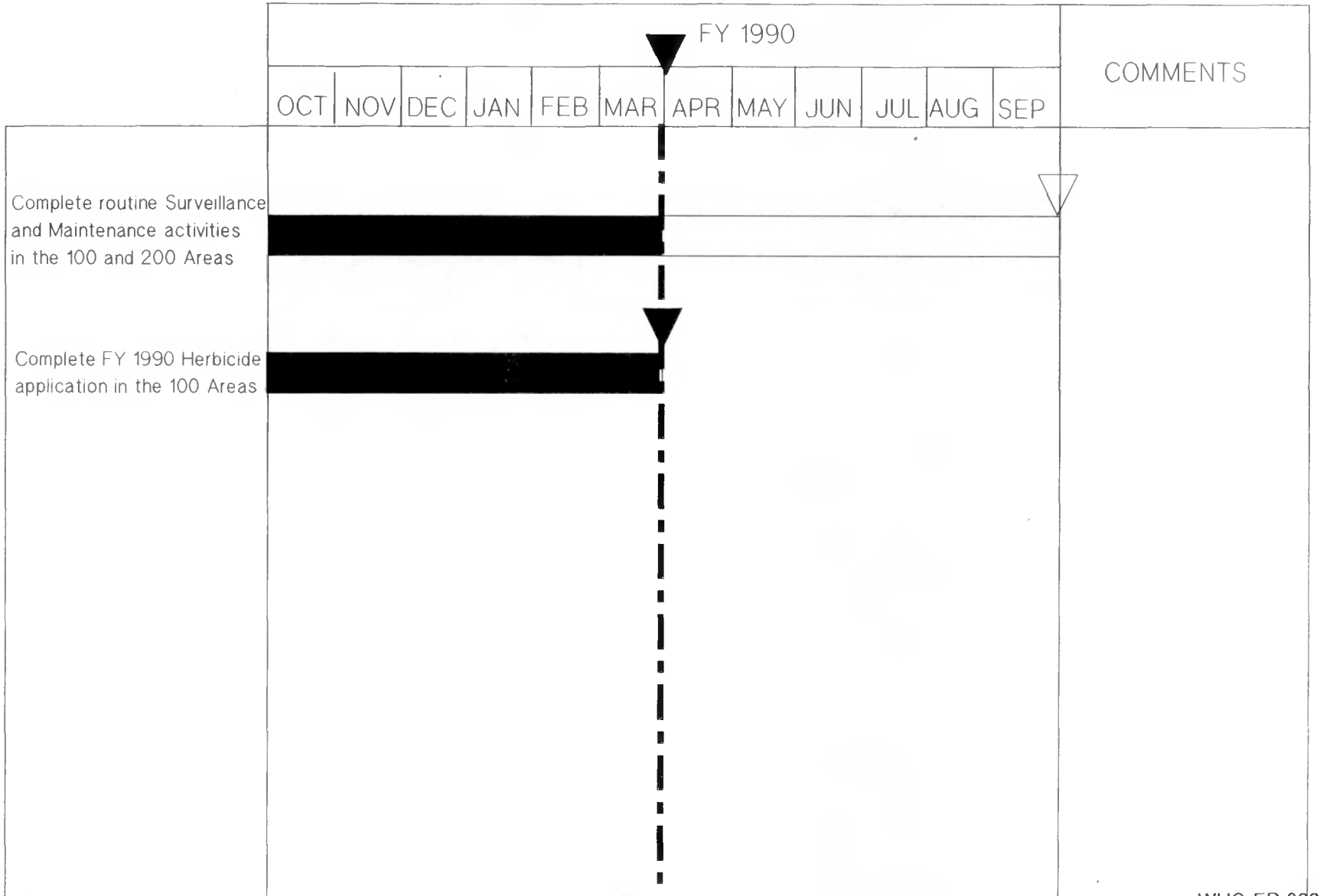
PROGRAM IMPACT/RECOVERY PLAN :

Program Manager : M G Mueck for MGH

Program Business Representative : S. McCoy

Scheduler : Sylvia Kuser

SURVEILLANCE AND MAINTENANCE - U3
MARCH 1990



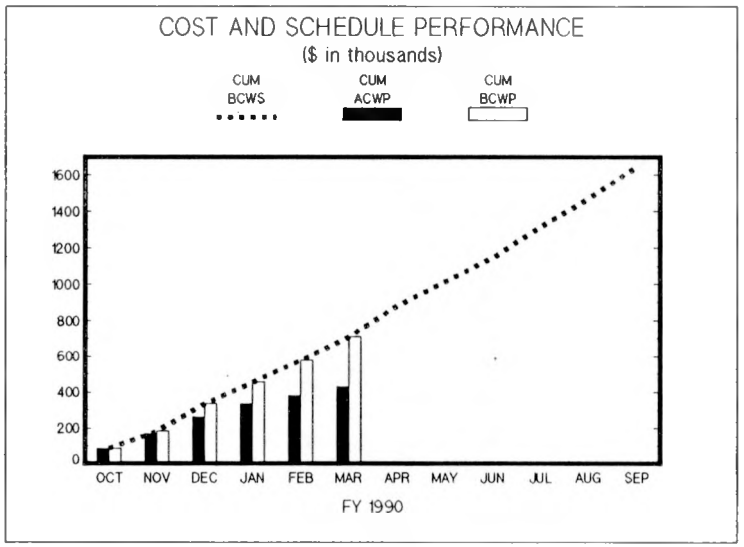
Decommissioning and Environmental Operations
FY 1990 QUARTERLY STATUS
January - March 1990

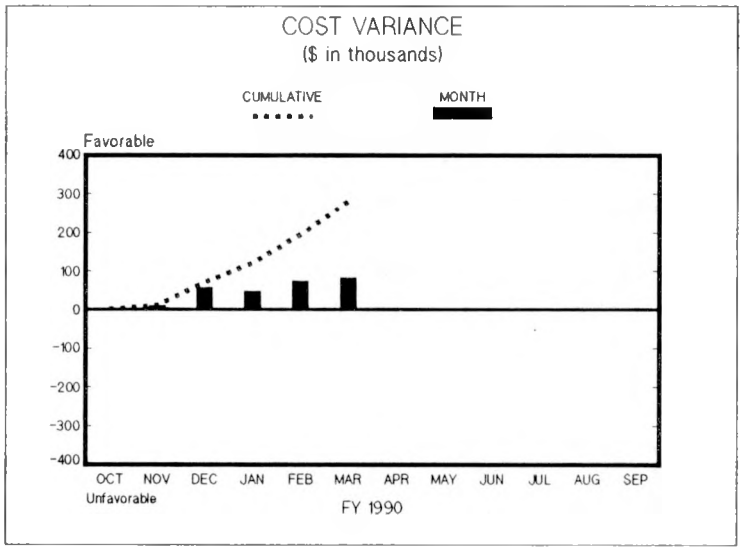
Lead Site Office - U5

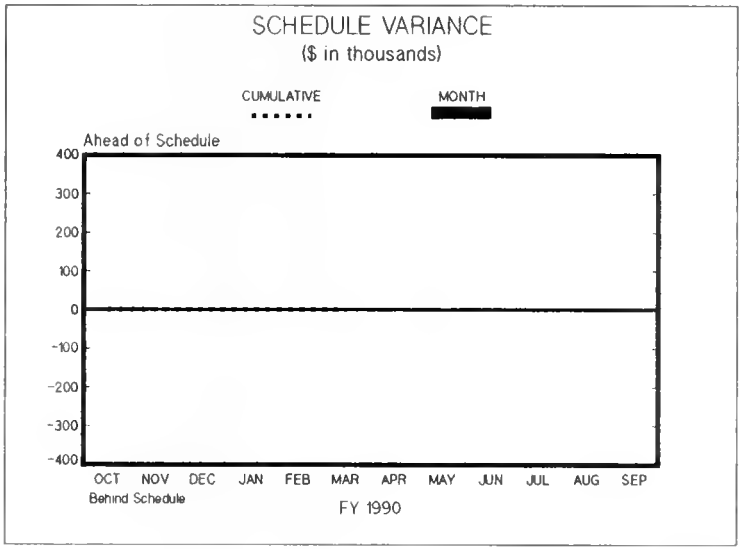
OBJECTIVE: The objective of this work proposal is to provide program management and technical services support for the defense funded (GF) activities of the Defense Facilities Decommissioning Program Office (DFDPO). The contractor organization providing the support is the Office of Defense Facilities Decommissioning Programs (ODFDP). The ODFDP works under the direction of the DFDPO at the U. S. Department of Energy-Richland Operations Office (DOE-RL) in providing technical, informational and financial support, and technology services for the national decommissioning program.

- National Decontamination and Decommissioning activities were consolidated at the U.S. Department of Energy-Headquarters Office (DOE-HQ) effective January 31. All transition activities between Lead Site Office and DOE-HQ are continuing on schedule for the April 30 completion.

LEAD SITE OFFICE - U5
MARCH 1990







LEAD SITE OFFICE - U5
MARCH 1990

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
$ in Thousands	CUM BCWS	88	184	335	456	579	711	879	1014	1147	1317	1471	1646
	CUM ACWP	86	171	263	335	383	431						
	CUM BCWP	88	184	335	456	579	711						
	COST VAR	2	13	72	121	196	280						
	SCH VAR	0	0	0	0	0	0						

Cost Variance

The favorable cost variance is attributed to reduced staffing costs due to deferred hiring of Applied Technology Center and Program Integration personnel. The national program for decontamination and decommissioning activities has been consolidated at DOE-HQ (January 31). Transition activities between Lead Site Office and DOE-HQ are scheduled to be completed April 30.

Schedule Variance

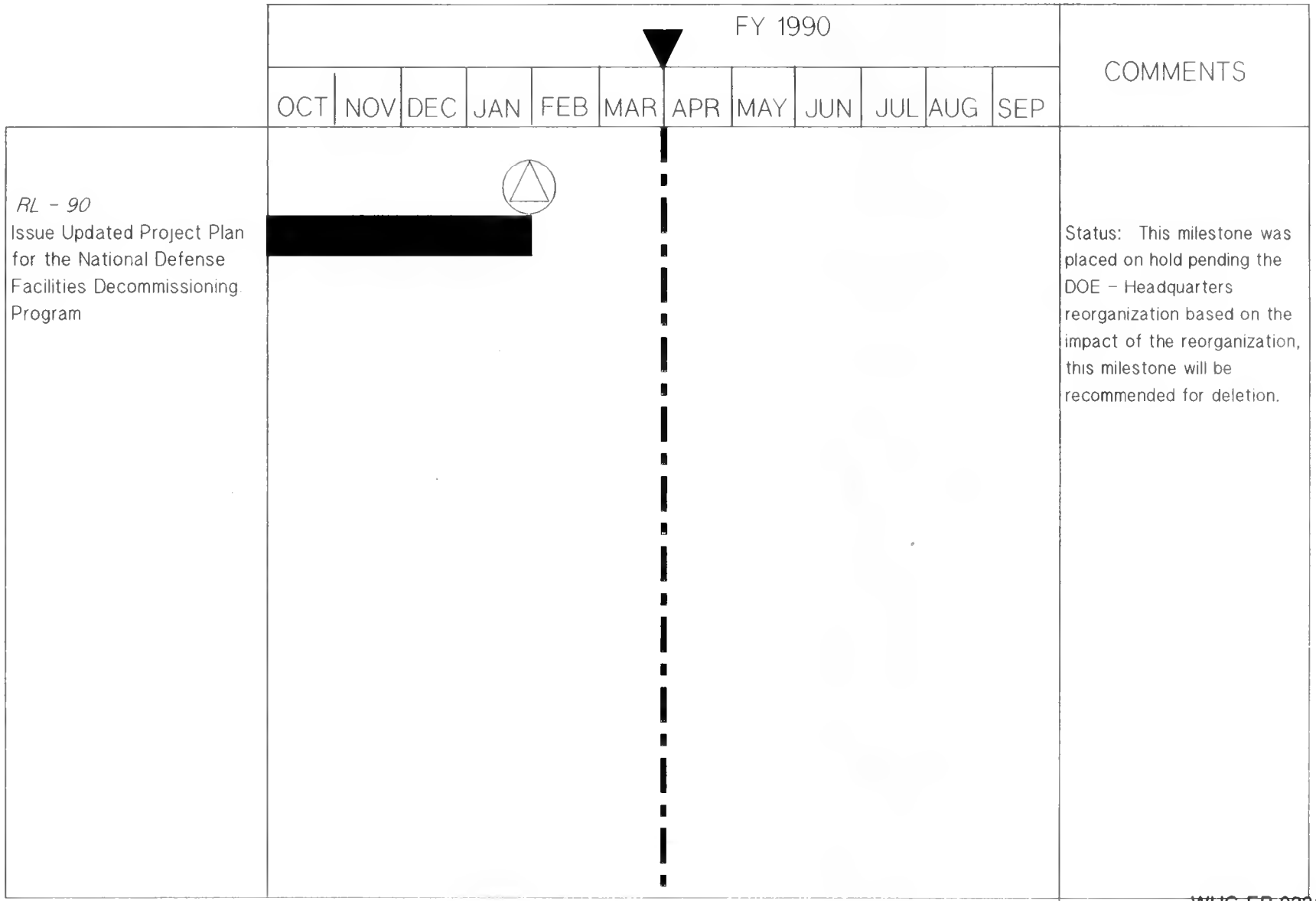
The schedule variance is zero.

PROGRAM IMPACT/RECOVERY PLAN :

A Class I Change Request will be processed after revised FY 1990 Guidance is received from DOE-RL.

Program Manager : [signature] Program Business Representative [signature] Scheduler : [signature]

LEAD SITE OFFICE - U5
MARCH 1990



Decommissioning and Environmental Operations
FY 1990 QUARTERLY STATUS
January - March 1990

100 Area Reactors Decommissioning Project - UB

OBJECTIVE: The shutdown 100-Area Reactor decommissioning project is a major objective of the Hanford Surplus Facilities Program (HSFP) and is consistent with the U.S. Department of Energy-Richland Operations Office (DOE-RL) long-range strategy for the Hanford Site. The objective of this specific task is to perform decommissioning project work on the 100 Area shutdown reactors.

- The 105-C Reactor asbestos removal work for fiscal year (FY) 1990 is complete except for the burial of two asbestos-filled tanks. Asbestos removal was stopped March 29 due to revised FY 1990 budget guidance.

- Completion of the Definitive Design for the 105-F and 105-H Reactor Fuel Storage Basins backfill removal is anticipated to be completed ahead of schedule. The 90 percent design review has been issued and Westinghouse Hanford Company comments returned.

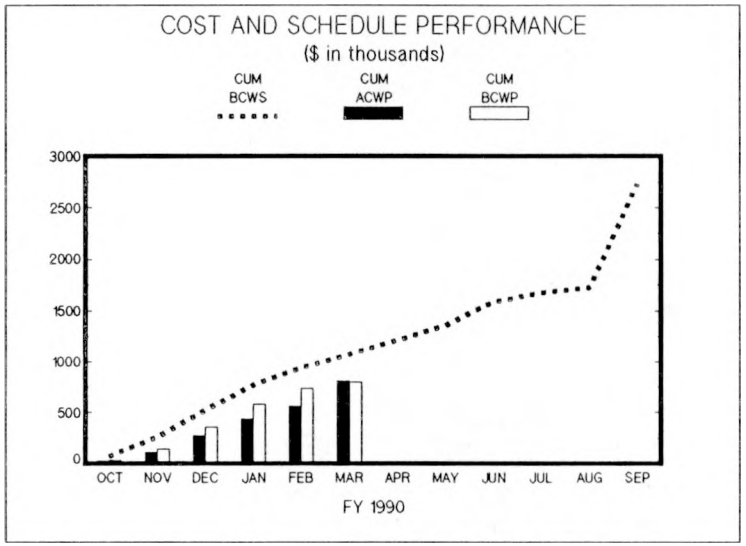
- Asbestos cleanup work was completed at 105-H Reactor Building.

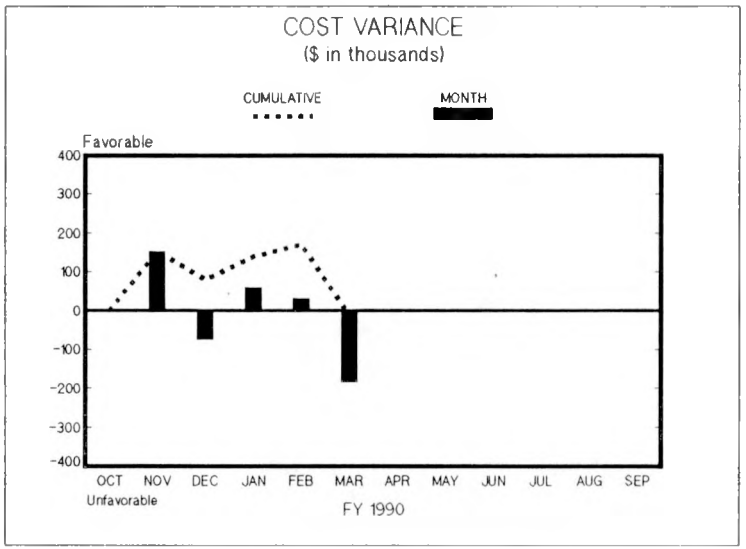
- The roof at 105-C has been patched. Leak tests of the roof will be coordinated with the asbestos work activities under the roof area.

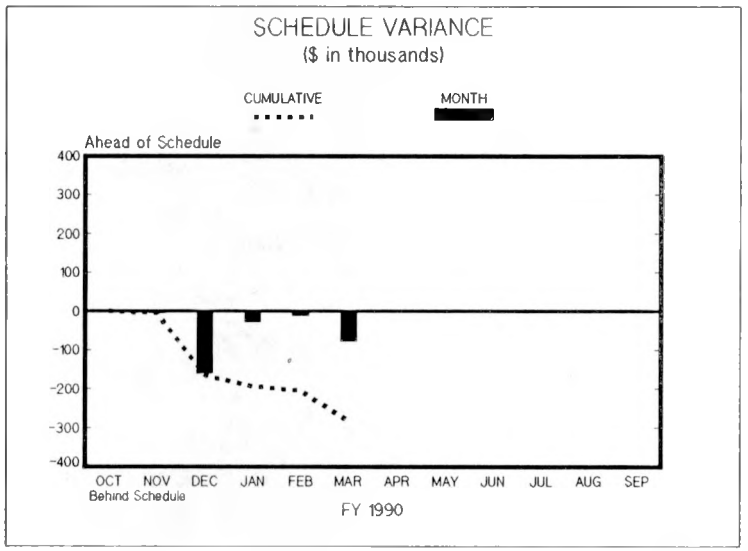
- Asbestos cleanup work has been completed at 105-H Reactor Building. Demobilization is underway.

- A roof inspection at 105-B was accomplished by Decommissioning Engineering. Anchor braces need to be fabricated and the roof jacked back into position to repair the roof sub-structure. Minor top surface roof repair will be required once the sub-structure has been repaired.

100 AREA REACTORS DECOMMISSIONING PROJECT - UB
MARCH 1990







100 AREA REACTORS DECOMMISSIONING PROJECT - UB
MARCH 1990

$ in Thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	28	270	524	773	940	1078	1221	1362	1588	1679	1728	2730
	CUM ACWP	28	113	280	441	565	809						
	CUM BCWP	28	265	359	580	736	797						
	COST VAR	0	152	79	139	171	-12						
	SCH VAR	0	-5	-165	-193	-204	-281						

Cost Variance

(1) The unfavorable cost variance is within reporting thresholds.

Schedule Variance

(1) The unfavorable schedule variance is the result of reassignment of lead design personnel by KEH on the definitive design effort for the 105-F/H Fuel Storage Basins Cleanout.

(2) Planned field activities for the 105-F/H Reactors Fuel Storage Basins cleanout, and 105-C Reactor asbestos removal were deferred due to possible FY 1990 funding reduction.

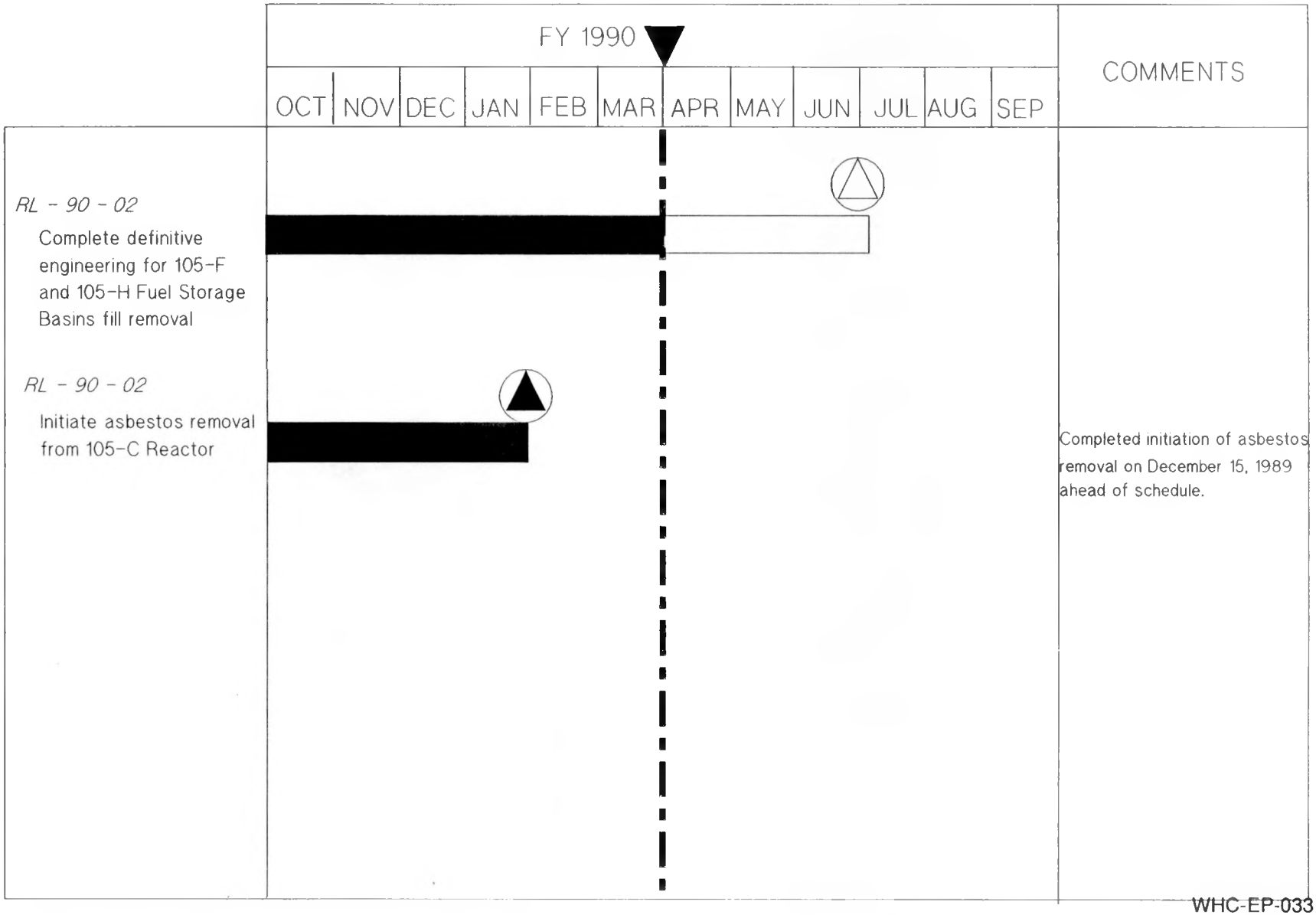
PROGRAM IMPACT/RECOVERY PLAN :

A Class I Change Request will be processed after revised FY 1990 Guidance is received from DOE-RL.

The 105-C asbestos removal project was stopped during March and only the definitive engineering for 105-F/H basins cleanout will be completed in FY 1990.

Program Manager : [signature] Program Business Representative : S. McCay Scheduler : Sylvia Kese

100 AREA REACTORS DECOMMISSIONING PROJECT - UB
MARCH 1990



Decommissioning and Environmental Operations
FY 1990 QUARTERLY STATUS
January - March 1990

201-C Strontium Semiworks - UE

OBJECTIVE: The decommissioning of Strontium Semiworks is a major objective of the Hanford Surplus Facilities Programs (HSFP) and is consistent with the U.S. Department of Energy-Richland Operations Office (DOE-RL) long-range strategy for the Hanford Site. The objective of this specific task is to perform decontamination and decommissioning of 201-C Strontium Semiworks.

- A ground penetrating radar survey was performed on December 15, 1989, in the area surrounding Tank 241-CX-72. The survey was in preparation of planned excavation to expose the tank top to allow for removal of grout from the tank. Preliminary results revealed no evidence of heretofore undiscovered piping.

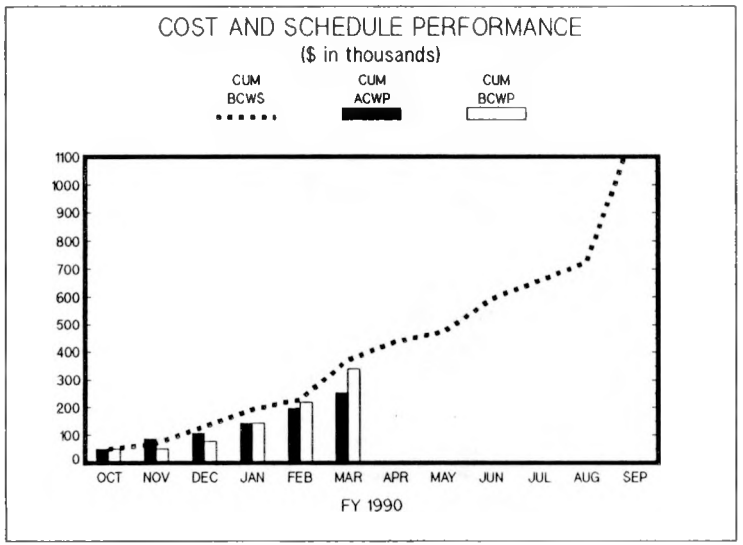
- The Class I Change Request for the rebaselining of the 201-C Strontium Semiworks Project was submitted to DOE-RL on January 31 and approved by DOE-RL on March 1.

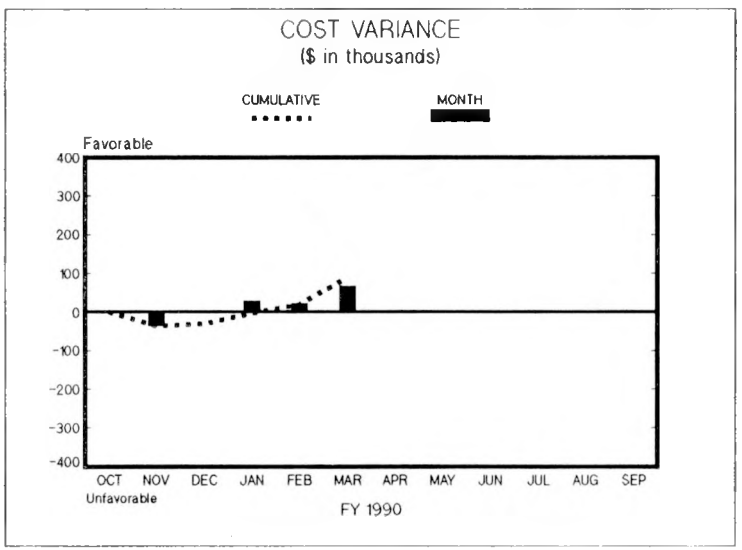
- The Part A Permit Application for Tank 241-CX-70 was signed by Westinghouse Hanford Company on Monday, March 12. A final review to determine whether neutralization may be conducted in lieu of submitting the permit application will be conducted by Regulatory Analysis and issued by the U.S. Department of Ecology. Neutralization in lieu of permitting would result in a considerable cost savings to the project.

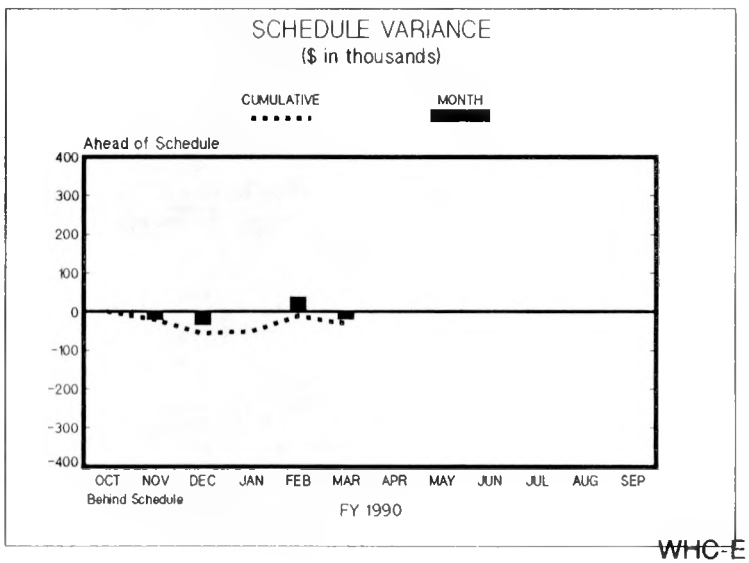
- The Environmental Documentation Section has issued the Strontium Semiworks Action Description Memorandum and Tank 241-CX-71 Memo-to-File. These documents were submitted to DOE-RL on March 27.

- Due to a change in DOE policy, all National Environmental Policy Act (NEPA) documentation must be forwarded by DOE-RL to Headquarters for review and approval. This change in policy could impact the sampling of Tank 241-CX-71.

201-C STRONTIUM SEMIWORKS - UE
MARCH 1990







201-C STRONTIUM SEMIWORKS - UE
MARCH 1990

$ in Thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	50	71	132	194	230	371	428	474	593	658	725	1196
	CUM ACWP	50	86	108	145	199	253						
	CUM BCWP	50	50	77	143	219	341						
	COST VAR	0	-36	-31	-2	20	88						
	SCH VAR	0	-21	-55	-51	-11	-30						

Cost Variance

The favorable cost variance is due to Environmental Documentation support to the NEPA assessment, Technical Publication support and Kaiser Engineers Hanford support to Tank 241-CX-72 engineering being less than anticipated.

Schedule Variance

The unfavorable schedule variance is within reporting thresholds.

PROGRAM IMPACT/RECOVERY PLAN :

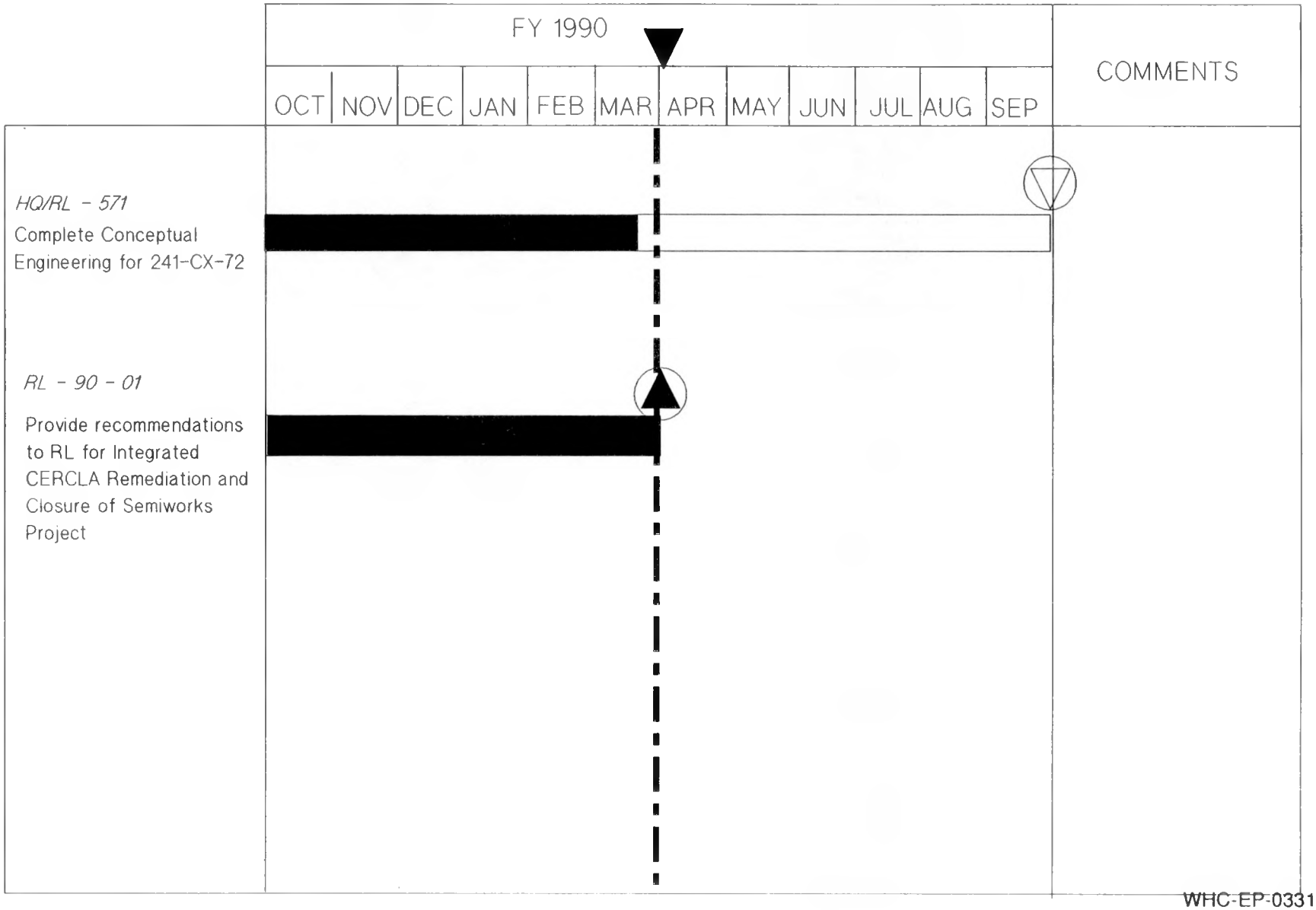
A Class I Change Request (UE-003-90) was approved March 1 revising FY 1990 Work Scope and Project Total Estimated Cost (TEC).

Program Manager: MG Lunch for LuCH

Program Business Representative : S. McCoy

Scheduler : Sylvia Kiser

201-C STRONTIUM SEMIWORKS - UE
MARCH 1990



Decommissioning and Environmental Operations
FY 1990 QUARTERLY STATUS
January - March 1990

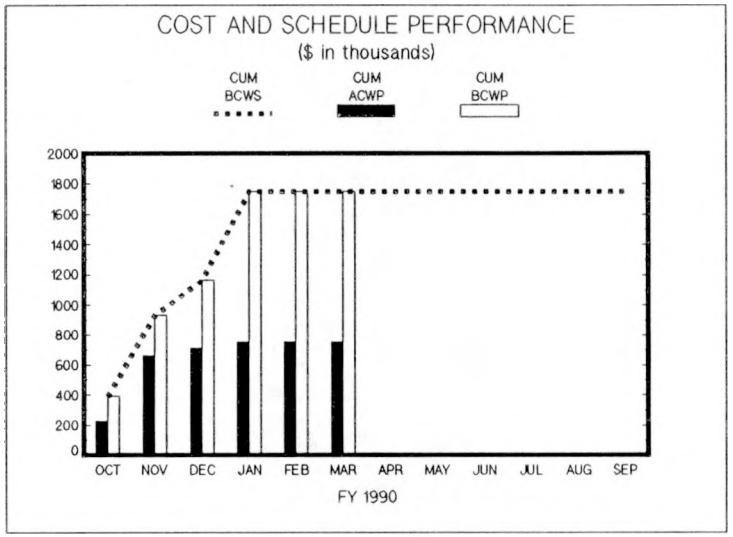
Shippingport Station Decommissioning Project - UY

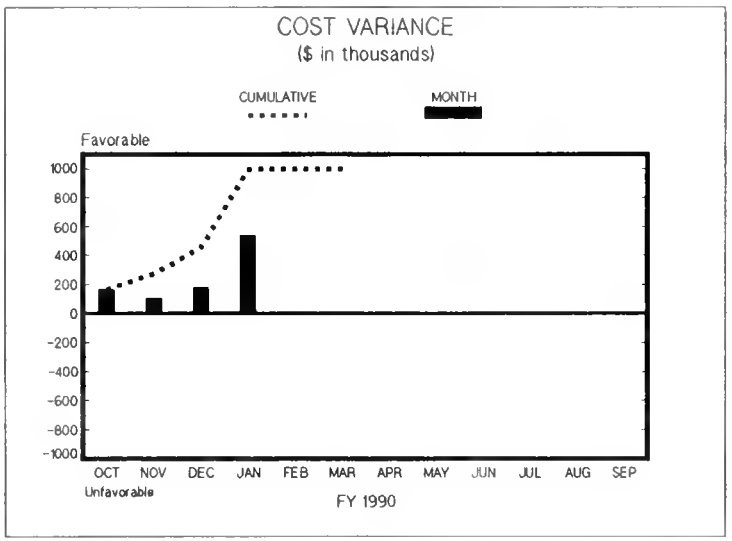
OBJECTIVE: To place the Shippingport Station in a radiologically safe condition over the long term, following defueling of the reactor. Decommissioning the reactor site will be accomplished using state-of-the-art technology. Information gained is intended to be archived for use in other decommissioning projects.

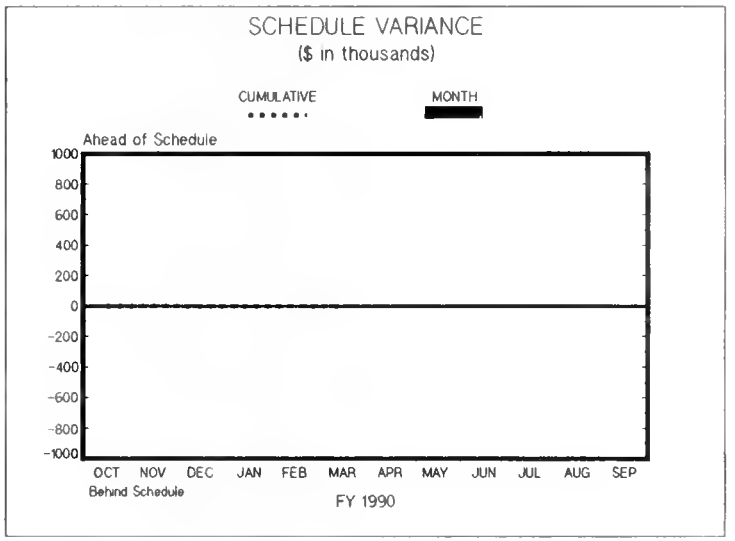
- As stated last quarter, Decommissioning Operations at Shippingport Station Decommissioning Project were completed and the project office closed on December 29, 1989.

- Processing of final invoices (including incentive fee) with the Decommissioning Operations Contractor (General Electric) will be completed during April.

SHIPPINGPORT STATION DECOMMISSIONING PROJECT - UY
MARCH 1990







SHIPPINGPORT STATION DECOMMISSIONING PROJECT – UY
MARCH 1990

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	394	933	1164	1751	1751	1751	1751	1751	1751	1751	1751	1751
$ in	CUM ACWP	227	660	710	752	752	753						
Thousands	CUM BCWP	394	933	1164	1751	1751	1751						
	COST VAR	167	273	454	999	999	998						
	SCH VAR	0	0	0	0	0	0						

Cost Variance

The favorable cost variance of $998,000 is due to time-phasing of invoices from General Electric. Project closure and processing of final invoices (including incentive fee) will be completed by April. DOE-RL Procurement is retaining $50,000 until auditing of GE contract is completed.

Schedule Variance

The schedule variance is zero.

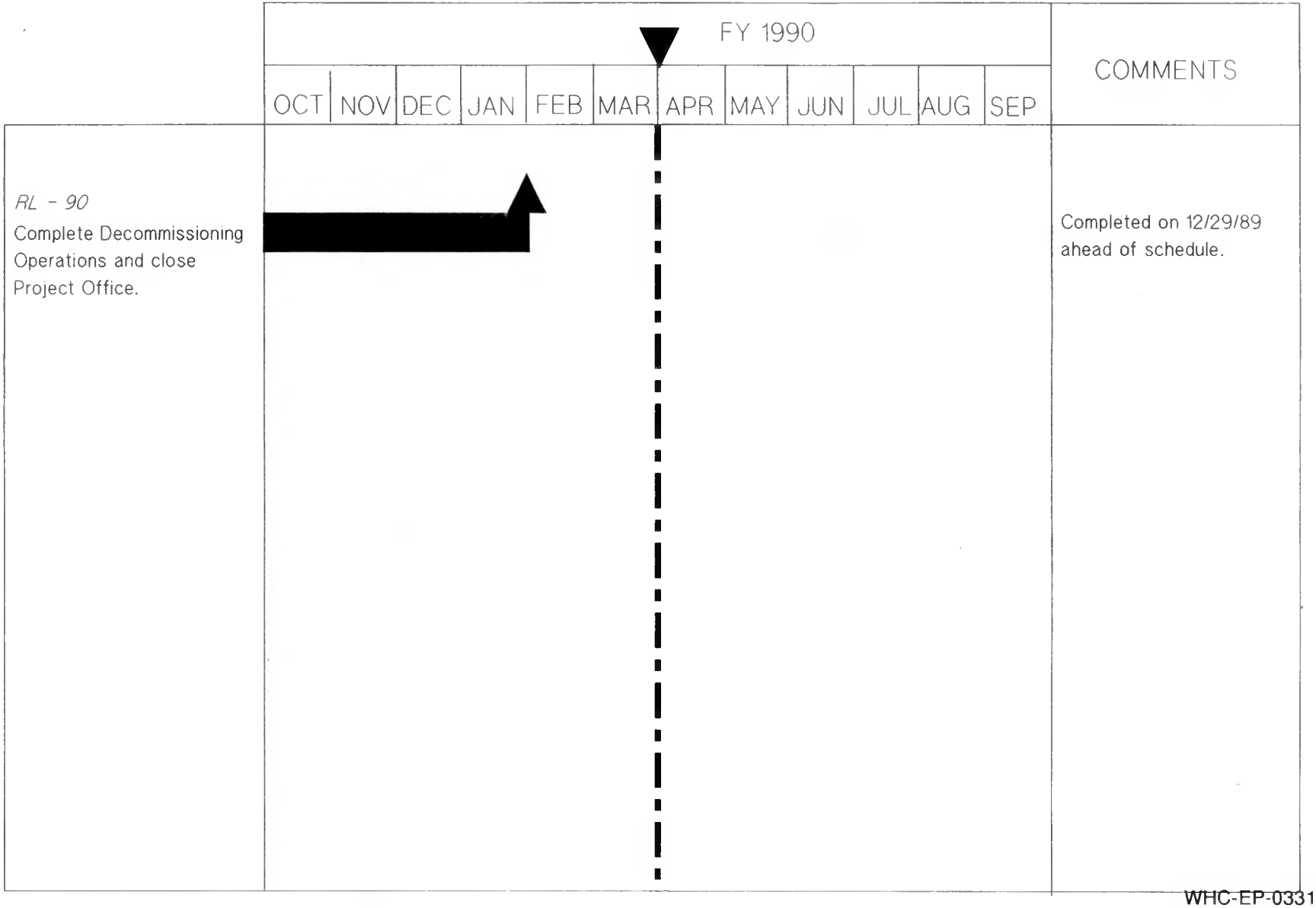
PROGRAM IMPACT/RECOVERY PLAN :

Program Manager : [signature] for Lucht

Program Business Representative : S. McCoy

Scheduler : Sylvia Kuser

SHIPPINGPORT STATION DECOMMISSIONING PROJECT - UY
MARCH 1990



FY 1990 QUARTERLY STATUS
January - March 1990

Hanford Environmental Management Program - MH
GF-73-02-01

OBJECTIVE: This program provides for site-wide environmental activities that all programs benefit from, including: (1) environmental planning (2) site-wide regulatory reporting and interfacing with regulators (3) Hanford Federal Facility Agreement & Consent Order (Tri-Party Agreement) integration (4) waste minimization administration, reporting, and tracking and (5) compliance assessment/regulatory cognizance.

The Resource Conservation and Recovery Act (RCRA) Section 3016 (Inventory of Federal Hazardous Waste Activities) report was submitted by the U.S. Department of Energy-Richland Operations Office (DOE-RL) to the U.S. Department of Energy-Headquarters (DOE-HQ) (EH-23) for compilation with similar information from all DOE sites for transmittal to the Environmental Protection Agency (EPA) - Headquarters (by the statutory due date of January 31).

The final draft of the 1989 Hanford Site Annual Dangerous Waste Report DOE/RL-90-10, including four volumes on Generator and TSD Facility Annual Waste and one volume on Waste Minimization for 1988-1989, was submitted to DOE-RL on March 27 for transmittal to the Washington State Department of Ecology (Ecology).

The semiannual Waste Minimization Status Report was issued to DOE-RL on April 6. The report summarizes progress on preparation of Facility Specific Waste Minimization Plans and other initiatives of the overall program.

The Environmental Restoration and Waste Management Site-Specific Plan for the Richland Operations Office (DOE-RL 89-10), based on fiscal year (FY) 1991 Activity Data Sheets and the National Plan, was approved by DOE-HQ on March 28. Public meetings will be held in May and June.

Draft three of the FY 1992 Environmental Restoration (ER) and Waste Management (WM) Five-Year Plan Activity Data Sheets (DOE/RL 89-17, Rev 1) was sent to DOE-HQ on March 28. Final submittal is due April 26.

Superfund Amendments and Reauthorization Act (SARA), Title III, Section 312 Tier Two Hazardous Chemical Inventory was submitted March 1.

Superfund Amendments and Reauthorization Act (SARA), Title III, Section 313, Toxic Chemical Release Report: The HMID, update was continued to support preparation of the SARA 313 Report for calendar year 1989 by July 1. Improvements to the SARA records keeping system were implemented and plans for additional improvements were developed and communicated to the cognizant site operations staff.

A second draft of the Hanford Site Waste Minimization/ Pollution Awareness Plan (5400.1) was completed on March 21 for review by the contractor co-authors. The plan was submitted to DOE-RL for formal review on April 9. Submittal of the final Site Plan to DOE-RL will occur on April 30, for transmittal to DOE-HQ by May 9.

A Tri-Party Agreement Quarterly Progress report was issued in February.

FY 1990 QUARTERLY STATUS
January - March 1990

Hanford Environmental Management Program - MH
GF-73-02-01

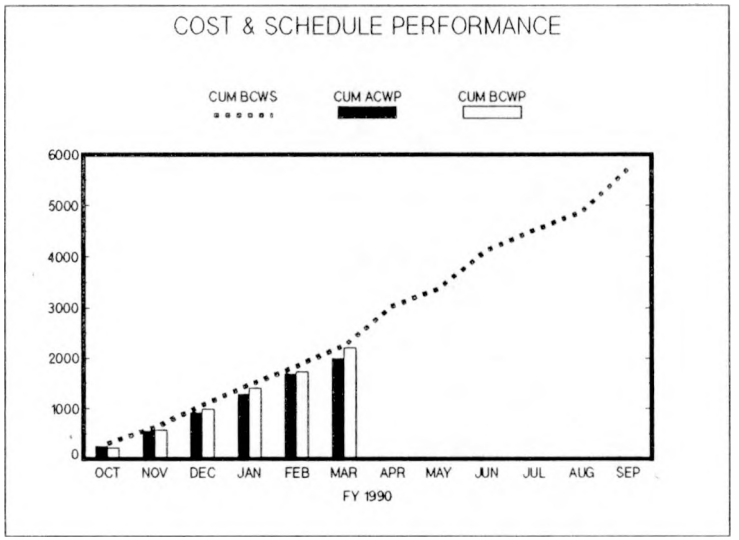
The Quarterly Briefing Book was issued January 30. The next update is being prepared and will be issued April 30.

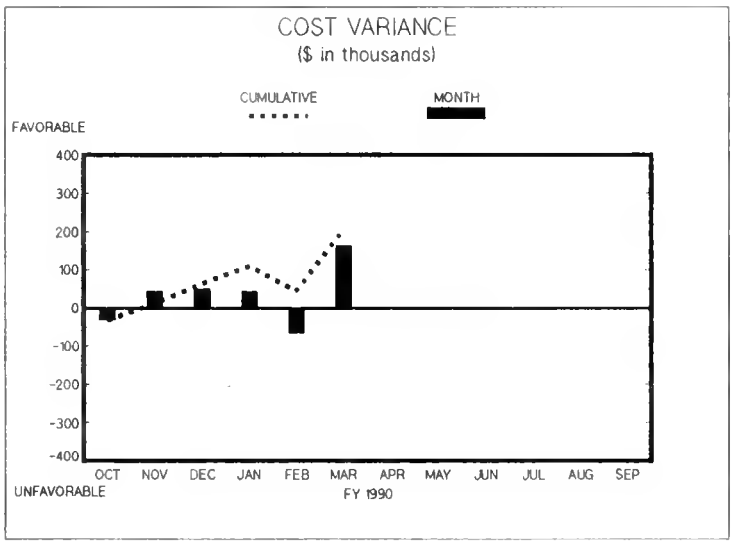
The Dangerous Waste Tank Task Force, composed of representatives from all site contractors who manage dangerous waste in tanks, has completed evaluation of all Hanford Site Dangerous Waste Tank Systems; and proposed corrective actions were developed when potential deficiencies were identified. A report of the efforts of the task force, including the proposed corrective action schedules, was prepared for transmittal to EPA and Ecology. A meeting was held April 5, 1990, with EPA and Ecology to begin negotiation of enforceable corrective action schedules under the Tri-Party Agreement.

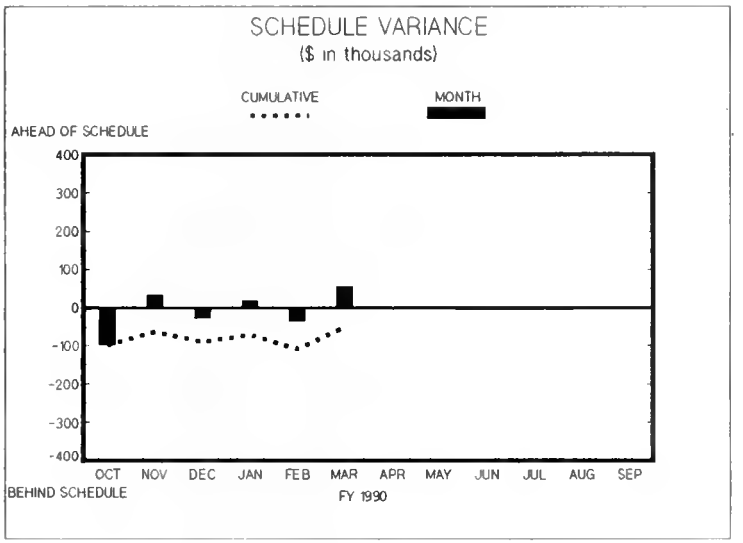
Facility Compliance coordinated the negotiation of a new Tri-Party Agreement Milestone, M-23-00, which establishes enforceable schedules for completion of interim status corrective actions. This new milestone was signed by all parties and incorporated into the Tri-Party Agreement Annual Update on schedule. The first interim milestone, M-23-07, which required waste characterization at the 222-S Storage Pad, was completed March 9.

Self-assessments performed in advance of the 1989 EPA Inspection identified problems with the locations of some satellite dangerous waste accumulation areas on site. These problems generally arose in situations where other constraints (i.e. fire codes, ALARA, etc.) precluded location of the satellite container adjacent to the waste generation process. A letter describing these problems and providing a proposed policy for location of these satellite areas was transmitted to EPA and Ecology in January. In a meeting called by EPA on March 6, these issues were discussed in detail. Hanford's proposal was accepted for all cases except those involving flammable and combustible wastes where fire codes are a problem. Revised management practices will be developed for these wastes. The Hanford proposal will now be implemented on site, eliminating potential noncompliance issues at these satellite areas. Weekly reviews were performed and issued to DOE-RL and contractors on new proposed rule making activities on the Early Warning System.

HANFORD ENVIRONMENTAL MANAGEMENT PLAN - MH
MARCH 1990







HANFORD ENVIRONMENTAL MANAGEMENT PLAN - MH
MARCH 1990

$ in thousands		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	CUM BCWS	312	638	1080	1469	1833	2259	3106	3563	4052	4531	5034	5486
	CUM ACWP	246	562	925	1292	1699	1999						
	CUM BCWP	215	575	990	1402	1732	2208						
	COST VAR	-31	13	65	110	44	209						
	SCH VAR	-97	-63	-90	-71	-107	-51						

Cost Variance

The favorable cost variance of $209,000 is due primarily to:

(1) Lower than planned support to NEPA/Environmental Permitting Activities.

(2) Later than expected Program Management and Tri Party Agreement Administration costs.

Schedule Variance

The unfavorable schedule variance of $51,000 primarily consists of:

(1) Fewer Environmental/Regulatory Weekly Newsletters were issued than anticipated due to new contract negotiations.

(2) Delay in start of site mapping due to contract negotiations.

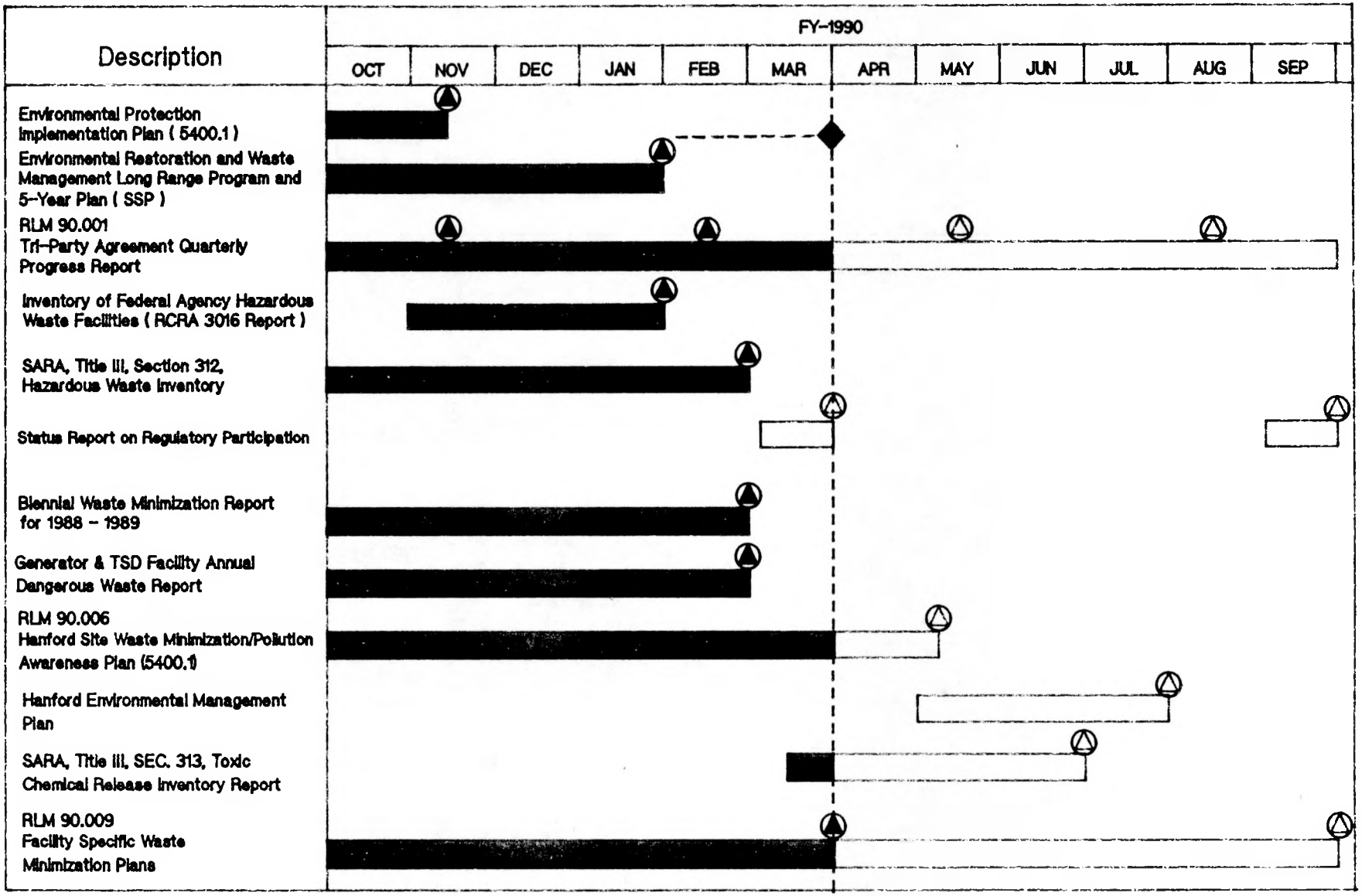
PROGRAM IMPACT/RECOVERY PLAN :

NONE

Program Manager : C. D. [illegible] Program Business Representative : D. N. Laurence Scheduler : S. J. Sakey /dhl

HANFORD ENVIRONMENTAL MANAGMENT PROGRAM - MH

March 1990



Defense Waste and Environmental Restoration Programs
FY 1990 QUARTERLY STATUS
January - March 1990

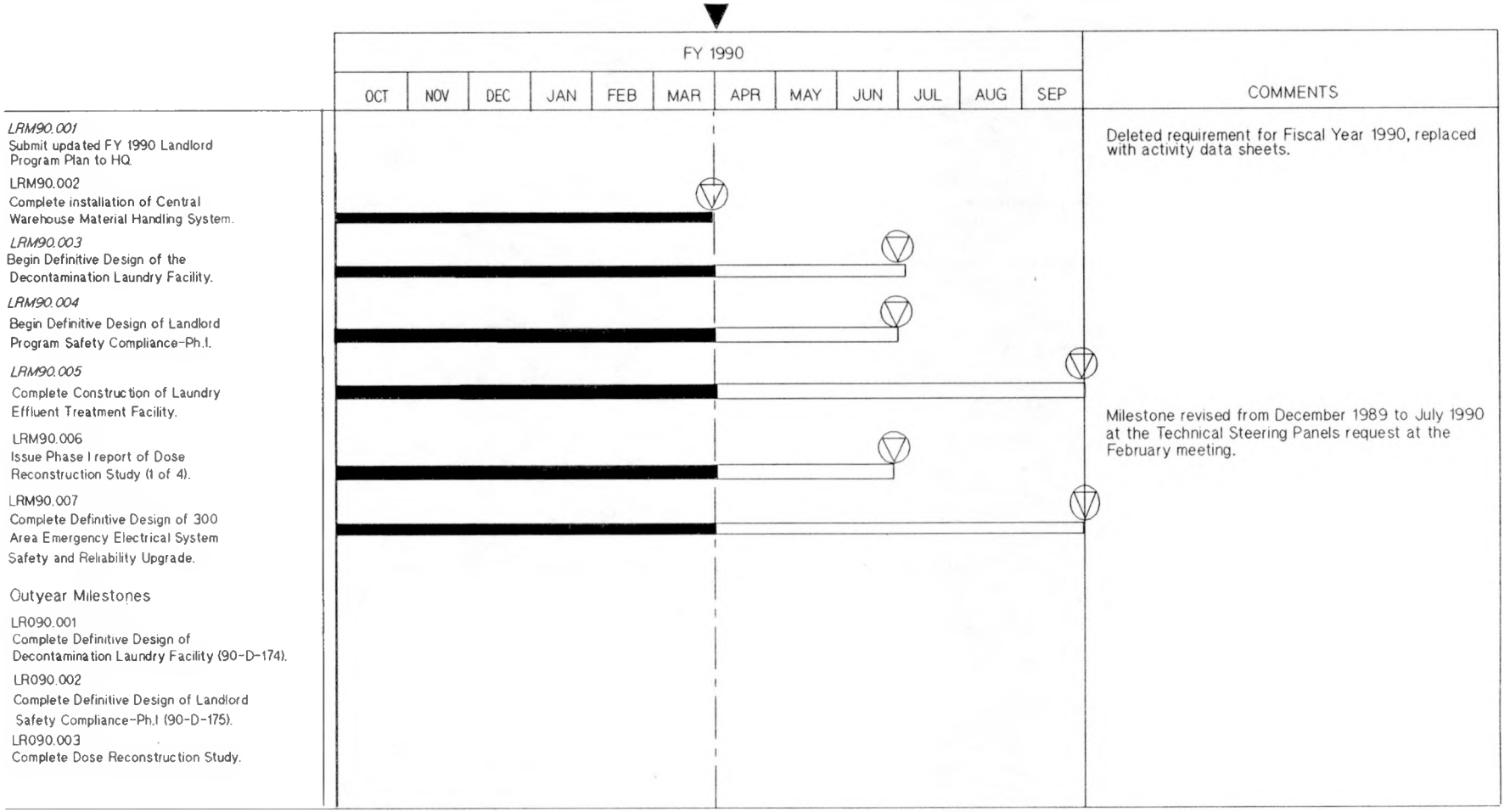
TABLE OF CONTENTS

SECTION V

HANFORD SITE LANDLORD PROGRAM

NOTE: All dollars are Expense Funded ONLY - unless otherwise noted.

HANFORD SITE LANDLORD PROGRAM - F1
MARCH 1990



Hanford Site Landlord Program
FY 1990 QUARTERLY STATUS
January - March 1990

Landlord Program Management - F1
GF-05-25-00/GF-73-01-A

OBJECTIVE: Restore deteriorated and/or obsolete facilities and equipment to provide safety, continuity, efficiency in operations, and state-of-the-art improvements in accordance with the U.S. Department of Energy-Richland Operations Office (DOE-RL) and Westinghouse Hanford Company policies and procedures.

Mr. Kevin Mahoney, the Program Representative from U.S. Department of Energy-Headquarters Office (DOE-HQ) toured Hanford from January 16 - January 19, 1990. Kevin was briefed on all phases of the Landlord Program. Existing and proposed infrastructure projects, organizational roles and responsibilities, facility inspections, site planning, and activity data sheets were reviewed with Kevin during his visit.

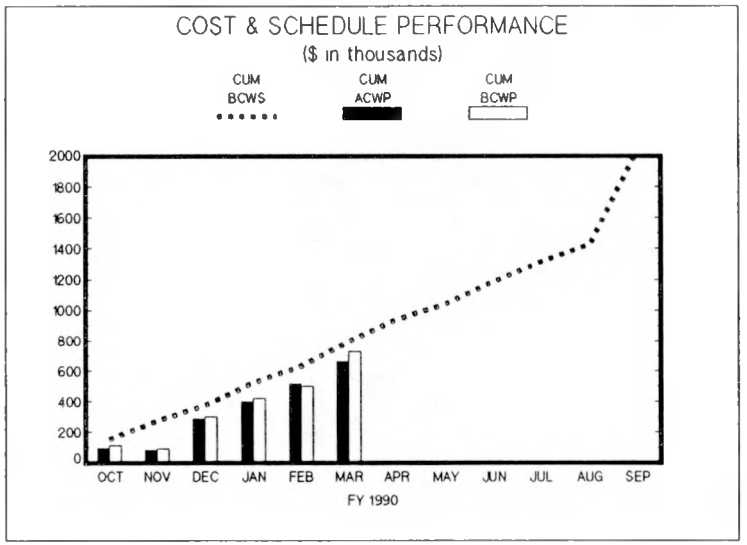
The DOE-HQ Milestone LRM90.001, submit updated Fiscal Year (FY) 1990 Landlord Program Plan to DOE-HQ was deleted from the Hanford Site Landlord FY 1990 Milestone requirements. Because of changes in the DOE-HQ organization and budgeting process, the document was eliminated for this FY.

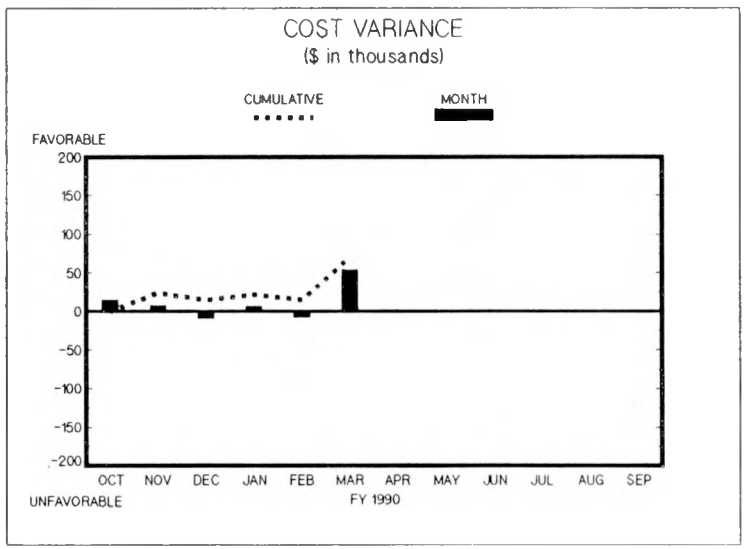
Project B-697, Laundry Facility Effluent Treatment has moved into the final construction phase. The Fixed Price contractor began field work. The pre-coat filter shipment is due mid April. Building erection is complete.

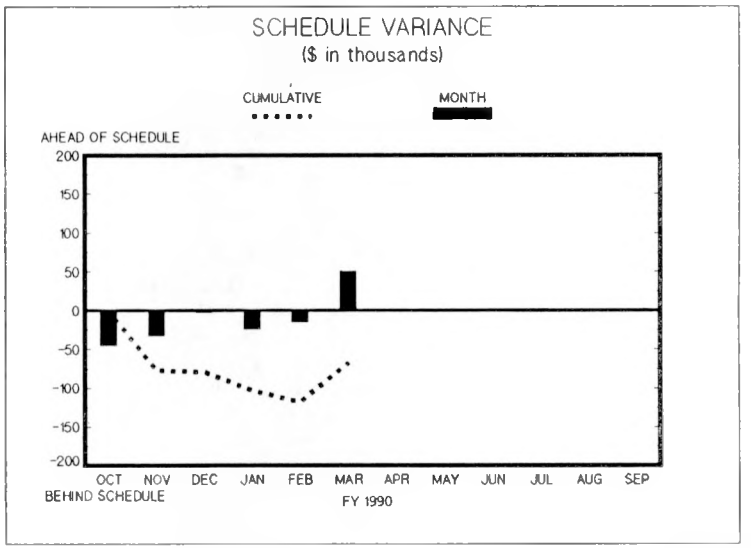
The DOE-HQ Milestone LRM90.002, "Complete Installation of Central Warehouse Material Handling System," has been completed. The material handling system; mechanical equipment, including computers and software has been installed.

Definitive Design for one of the Landlord Program Safety Compliance-Phase I (90-D-175) sub-projects has been initiated. Offsite Architect/Engineers contract negotiations are underway on the other three sub-projects and anticipated to complete on schedule (June 1990).

HANFORD SITE LANDLORD PROGRAM - F1
MARCH 1990







HANFORD SITE LANDLORD PROGRAM - F1

MARCH 1990

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CUM BCWS	155	277	382	527	634	798	944	1045	1189	1316	1426	2037
CUM ACWP	95	176	288	402	516	662						
CUM BCWP	110	200	303	424	501	731						
COST VAR	15	24	15	22	15	69						
SCH VAR	-45	-77	-79	-103	-118	-67						

Cost Variance

The favorable cost variance of $69,000 consists primarily of:

(1) Understaffing of Administrative personnel due to delays in processing security clearances for new hires, delays in travel spending and actual labor costs being less than budgeted.

(2) Program Interface requirements for B-676, Material Handling System, were not as high as anticipated thus far in the fiscal year.

Schedule Variance

The unfavorable schedule variance of $67,000 includes:

(1) Later than planned project starts due to delays in funding appropriations delayed expense support to various authorized projects.

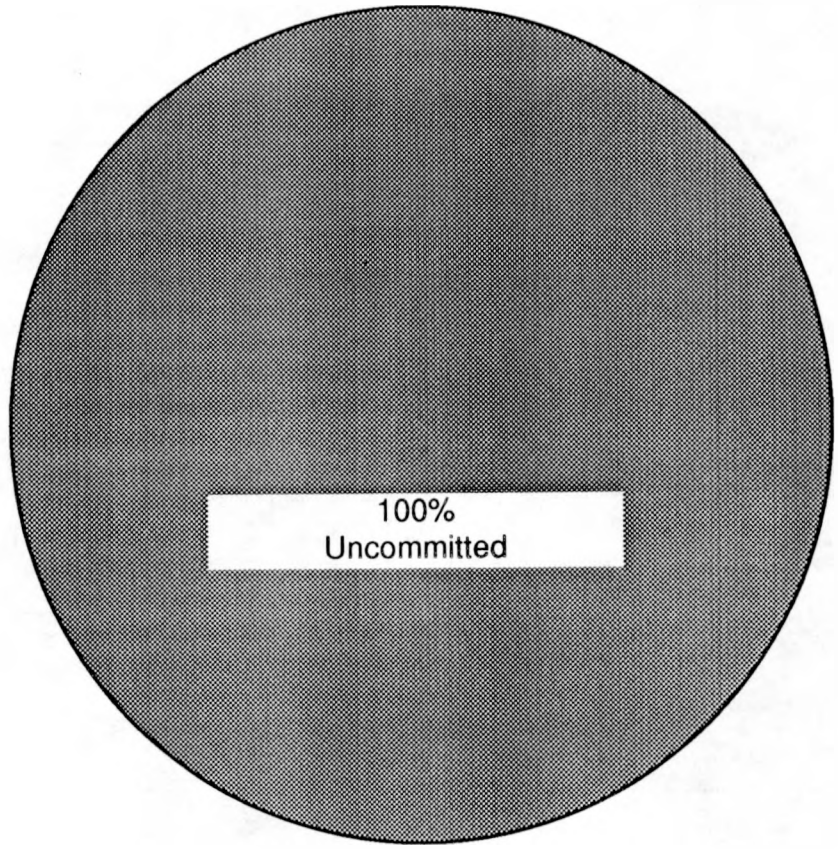
PROGRAM IMPACT/RECOVERY PLAN :

None

Program Manager : [signature] Program Business Representative : [signature] Scheduler : [signature]

Hanford Site Landlord Program
FY 1990 Capital Equipment Status
March 1990
Current Year Funding
($ 000)

35-GF-73-01-A - $255*



* $186 CENRTC Funds have been received

Hanford Site Landlord Program
CAPITAL EQUIPMENT NOT RELATED TO CONSTRUCTION
B & R 35-GF-73-01-A
Cost Performance Summary ($ in 000s)
March 1990

CENRTC Commitment Performance

	DOE Directive	Planned Committed	Actual Committed	Variance	% of Directive Committed
Current Year	186	0	0	0	0%
Prior Year	2,154	2,154	2,154	0	100%
TOTAL	2,340	2,154	2,154	0	100%

CENRTC Cost Performance

	Budget	Actual Cost	Variance
Current Year	0	0	0
Prior Year	1,963	864	1,099
TOTAL	1,963	864	1,099

Commitment Variances

Prior Year

No prior year commitment variance to report.

Current Year

No current year commitment variance to report.

Cost Variances

Prior Year

The favorable cost variance of $1,099,000 is primarily a result of (1) the design review for 283 E/W Pump Starters which identifies specification revisions has slipped the procurement schedule (2) 284E Forced Draft Fan Turbines, Feed Water Pumps and Sulfite Tanks are behind schedule due to higher priority work (3) the Pentrometer is behind schedule due to procurement finding an alternate vendor with superior performance and waste generation thus developing a sole source justification not originally planned in procurement schedule.

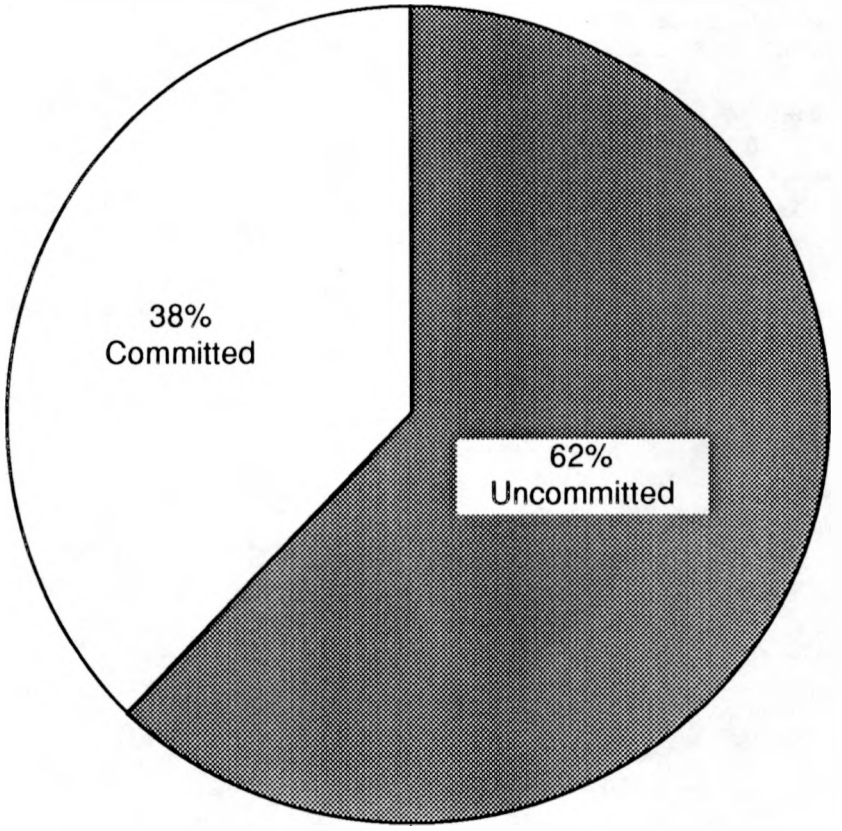
Current Year

No current year cost variance to report.

The Department of Energy Directive for prior years has been adjusted to subtract funding related to years in which all activities have been completed. Prior years include FY 1987, FY 1988 and FY 1989.

Hanford Site Landlord Program
FY 1990 Capital Equipment Status
March 1990
Current Year Funding
($ 000)

35-GF-05-25-00 - $8,881*



* $8,880.5 CENRTC Funds have been received

Hanford Site Landlord Program

CAPITAL EQUIPMENT NOT RELATED TO CONSTRUCTION

B & R 35-GF-05-25-00

Cost Performance Summary ($ in 000s)

March 1990

CENRTC Commitment Performance

	DOE Directive	Planned Committed	Actual Committed	Variance	% of Directive Committed
Current Year	8,880.5	3,378.0	3,378.0	0	38%
Prior Year	28,020.0	28,020.0	27,783.0	237.0	99%
TOTAL	36,900.5	31,398.0	31,161.0	237.0	84%

CENRTC Cost Performance

	Budget	Actual Cost	Variance
Current Year	0	0	0
Prior Year	22,453	19,761	2,692
TOTAL	22,453	19,761	2,692

Commitment Variances

Prior Year

The unfavorable commitment variance of $237,000 is being held for possible overruns to projected costs.

Current Year

No current year commitment variance to report.

Cost Variances

Prior Year

The favorable cost variance of $2,692,000 is primarily a result of (1) delays in the procurement of the mobile training simulator and Hazmat Vehicle due to an extensive requisition review process, (2) delays in the procurement of the Large Scale Information System (LSIS) due to an intensive requisition review process and higher priority work, (3) vendor delays of heavy automotive replacements and data processing equipment, (4) delays in procurement of Data Network Expansion equipment due to delays in vendor technology improvements, (5) organizational reorganizations have delayed the procurement process of Job Control System equipment, and (6) delays in the Integrated Voice Data Telecommunication System procurement have impacted the installation of the Local Area Communication System as the cable is planned to be installed simultaneously.

Current Year

No current year cost variance to report.

The Department of Energy Directive for prior years has been adjusted to subtract funding related to years in which all activities have been completed. Prior years include FY 1985, FY 1986, FY 1987, FY 1988, and FY 1989.

Hanford Site Landlord Program

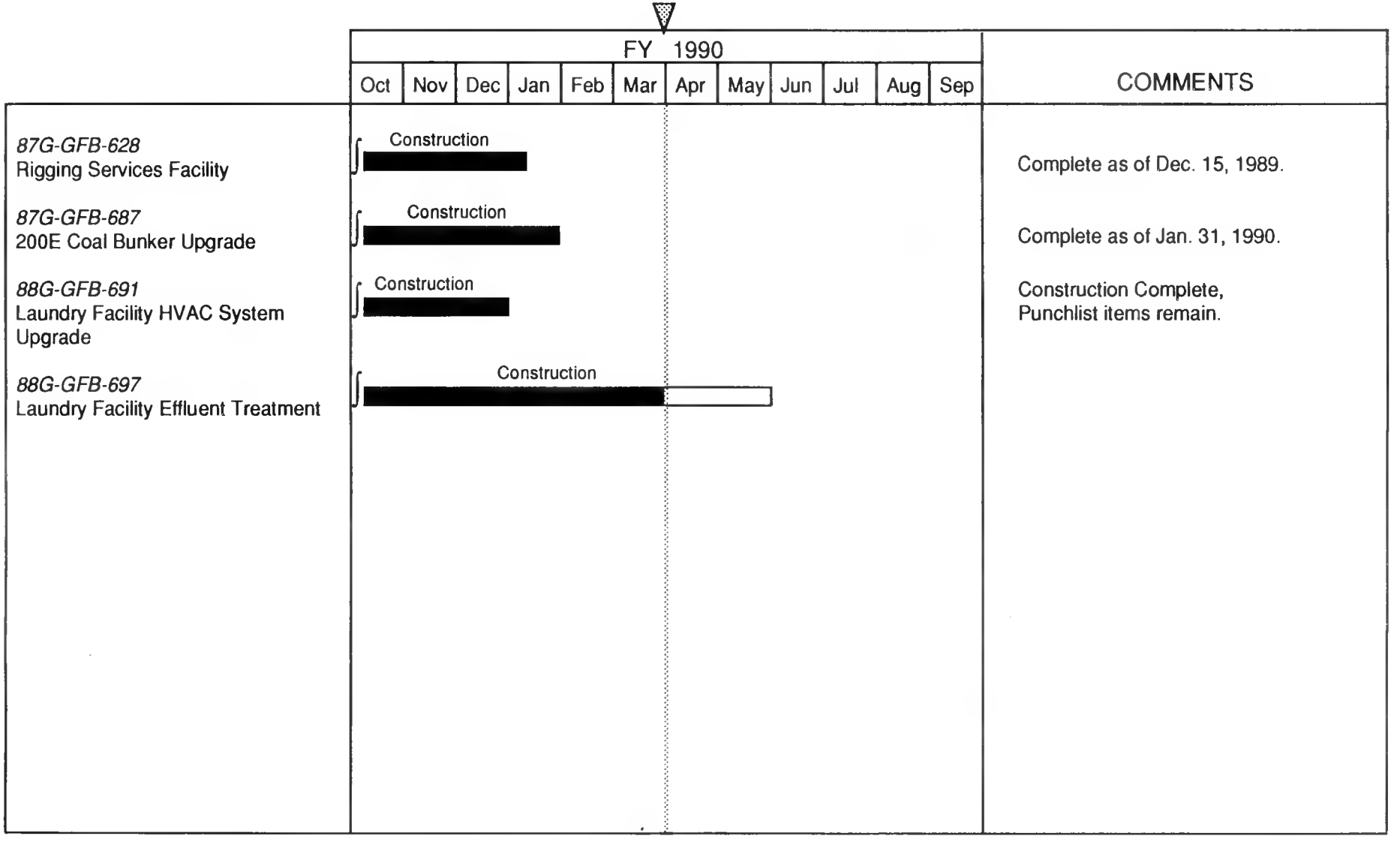
GENERAL PLANT PROJECTS

($ in 000s)

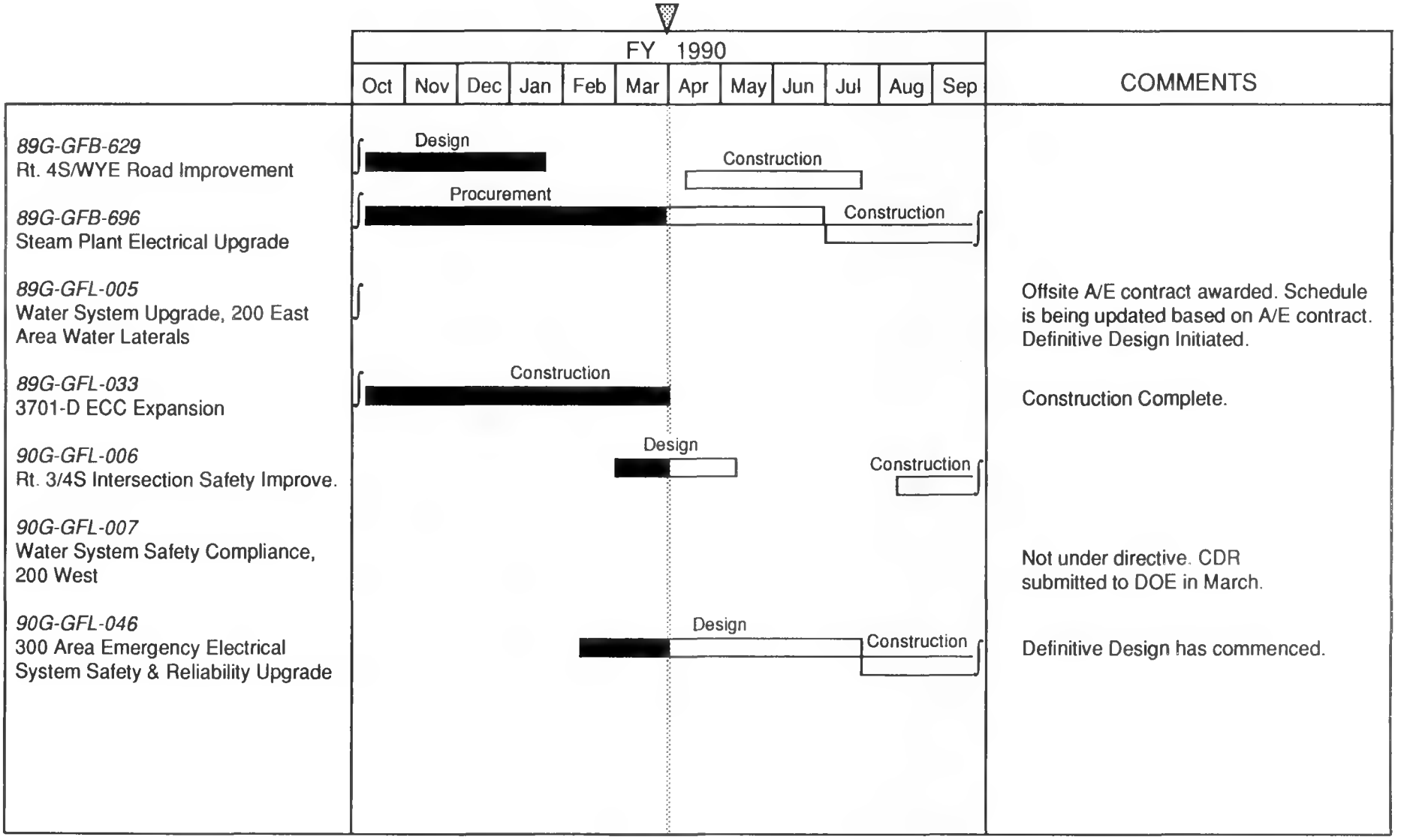
Project Number	Title	TEC	Funding (B/A) FY 1990 & Prior	Cost To Date
FY 1987				
87G-GFB-628	Rigging Services Facility	1,160	1,160	1,148
87G-GFB-687	200E Coal Bunker Upgrade	1,020	1,020	689
FY 1988				
88G-GFB-691	Laundry Facility HVAC System Upgrade	1,150	1,150	1,140
88G-GFB-697	Laundry Facility Effluent Treatment	940	940	875
FY 1989				
89G-GFB-629	Rt. 4S/WYE Road Improvement	845	845	181
89G-GFB-696	Steam Plant Electrical Upgrade	620	620	376
89G-GFL-005	East Area Water System Laterals	830	830	172
89G-GFL-033	3701-D ECC Expansion	440	440	431
	Capital Work Orders	1,561	1,428	1,199
	Subtotal FY 1989...	4,296	4,163	2,359
FY 1990				
* 90G-GFL-006	Rt. 3/4S Intersection Safety Improvement	1,100	0	0
* 90G-GFL-007	Water System Safety Compliance, 200 West	900	0	0
90G-GFL-046	300 Area Emergency Electrical System Safety & Reliability Upgrade	1,150	610	267
	Gramm-Rudman	149	0	0
	GPP Reserve/Capital Work Orders	170	0	0
	Subtotal FY 1990...	3,469	610	267

* Awaiting Authorization

Hanford Site Landlord Program
General Plant Projects
Project Status



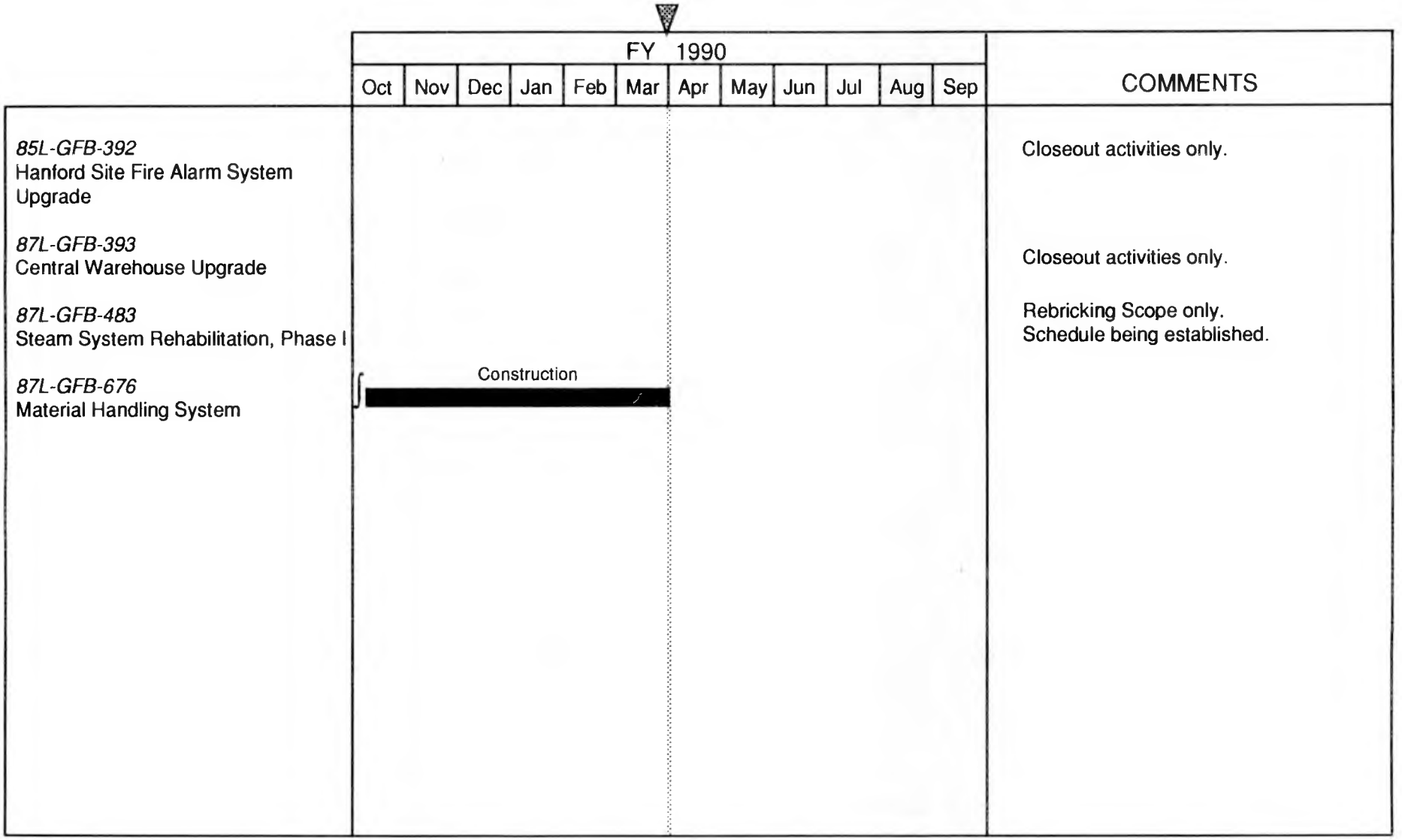
Hanford Site Landlord Program
General Plant Projects
Project Status



Hanford Site Landlord Program
LINE ITEM PROJECTS
($ in 000s)

Project Number	Title	TEC	Funding (B/A) FY 1990 & Prior	Cost To Date
FY 1985				
85L-GFB-392	Hanford Site Fire Alarm System Upgrade	4,850	4,850	4,817
FY 1987				
87L-GFB-393	Central Warehouse Upgrade	10,900	10,979	10,768
87L-GFB-483	Steam System Rehabilitation, Phase I	10,486	9,500	8,449
87L-GFB-676	Material Handling System	3,500	3,500	3,428
FY 1990				
90L-GFB-503	Decontamination Laundry Facility	16,800	2,680	0
90L-GFL-035	Landlord Program Safety Compliance, Phase I			
Sub-Projects Include:				
B-468	Railroad Upgrade - Mainline	10,700	163	1
B-604	Water System Upgrade - Reservoir	13,000	3,053	0
B-690	Steam System Safety & Productivity Upgrade	3,100	440	299
L-001	Fire Water Distribution & Storage Improve.	1,800	363	0
	Subtotal FY 1990...	45,400	4,019	300

Hanford Site Landlord Program
Line Item
Project Status



Hanford Site Landlord Program
Line Item
Project Status