

1249835

[0064974 H]

AGENDA
TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW
CHAIRPERSON: J. E. Kinzer

TUESDAY, JUNE 2, 1998
Suite 5, EPA Conference Room

712 Swift Blvd.,

<u>TIME</u>	<u>MILESTONE</u>	<u>TITLE</u>	<u>RL DIVISION DIRECTOR</u>
<u>CONTRACTOR MANAGER</u>		<u>PRESENTER</u>	
9:00 am J. L. Walsh	M-13-00 R. A. Holten	Complete RI/FS Submittals	R. A. Holten
J. L. Walsh	M-15-00 R. A. Holten	RI/FS Process Completion	R. A. Holten
J. L. Walsh	M-16-00 R. A. Holten	Complete Remedial Actions	R. A. Holten
L. Walsh	M-24-00 R. A. Holten	RCRA Well Installation	R. A. Holten J.
L. Walsh	M-93-00 R. A. Holten	Disposition of Surplus Reactors	R. A. Holten J.
10:30 am L. J. Olguin	M-80-00	Purex/UO3 Facility Transition L. E. Rogers	J. E. Mecca
L. J. Olguin	M-82-00	B-Plant Transition D. T. Evans	J. E. Mecca
L. J. Olguin	M-89-00	324 Bldg. Closure of MW Units D. W. Templeton	J. E. Mecca
J. Olguin	M-92-00	Facilities for Cesium/Strontium, D. W. Templeton	J. E. Mecca L.

1:00 pm FFTF SECRETARIAL DECISION AND INTERIM MILESTONE M-92-10 DISCUSSION

(O. Farabee, M. Wilson)

*Sodium ^{plant} Plan - Where is secretary decision
missed -
update:*

1:20 pm M-40-07 (VAPOR TREATMENT SYSTEM FOR 241-C-103) DISPUTE

(C. Sohn, S. Dahl)

Alex Stone

60 day extension

1:40 pm ADJOURN

DDO: Jerry Yokel

IMAGENDA.MAY

M-83
Plutonium Finishing Plant
Stabilization and Transition

June 2, 1997

M-83-03

Milestone Description:

Complete Plutonium Finishing Plant Transition
Phase Negotiations

These negotiations will establish agreement milestones (including specific M-83-00A end date) and target dates sufficient to effectively drive transition phase and PFP transfer to DOE's Environmental Restoration programs.

Significant Accomplishments

- RL granted formal Readiness Assessment approval for Group I operations at PFP (4/21/98)
 - » Fissile movement restriction lifted for laboratories, Solid Waste Operations, Vault Operations, Maintenance, and Radiological Control
- Commenced PFP Redesign (3/13/98)
- Initiated Project W-460, "Plutonium Stabilization and Handling System," Definitive Design (4/15/98)

Issues

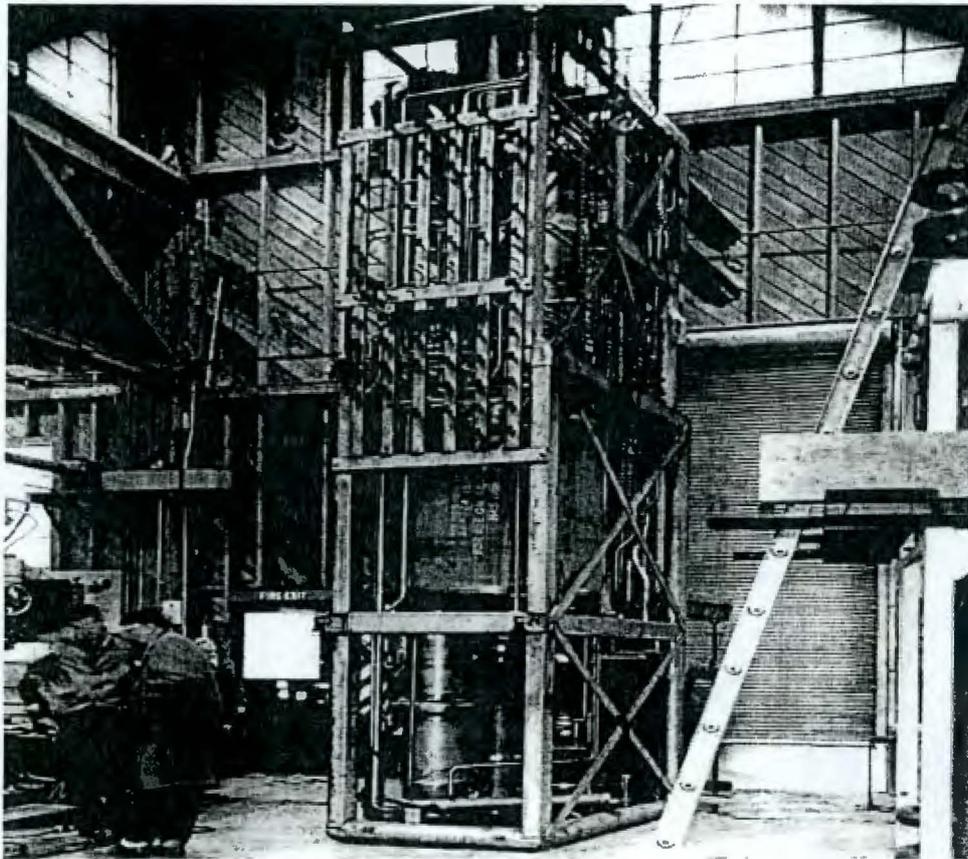
- M-83-03 (complete Facility Transition negotiations by March 31, 1998) was suspended (4/2/98)
- Restart of formal negotiations pending dispute resolution.

FY98 Planned Actions

- Issue Part A, Form 3 for PFP Cementation Process (August 1998)
- Open Tank 241-Z-361 and initiate characterization activities (September 1998)
- Complete PRF Recovery Actions (9/25/98)
- Contractor declaration of readiness for restart of thermal stabilization and routine handling of fissile material in support of plant operations (9/14/98)

IAMIT Meeting June 2, 1998
Tri-Party Agreement Milestone
Status Report

FACILITY STABILIZATION
MILESTONES
M-80, M-82, M-89, M-92



IAMIT Meeting June 2, 1998
Tri-Party Agreement Milestone
Status Report

PUREX/UO₃ Facility Stabilization

Milestone
TPA-M-80

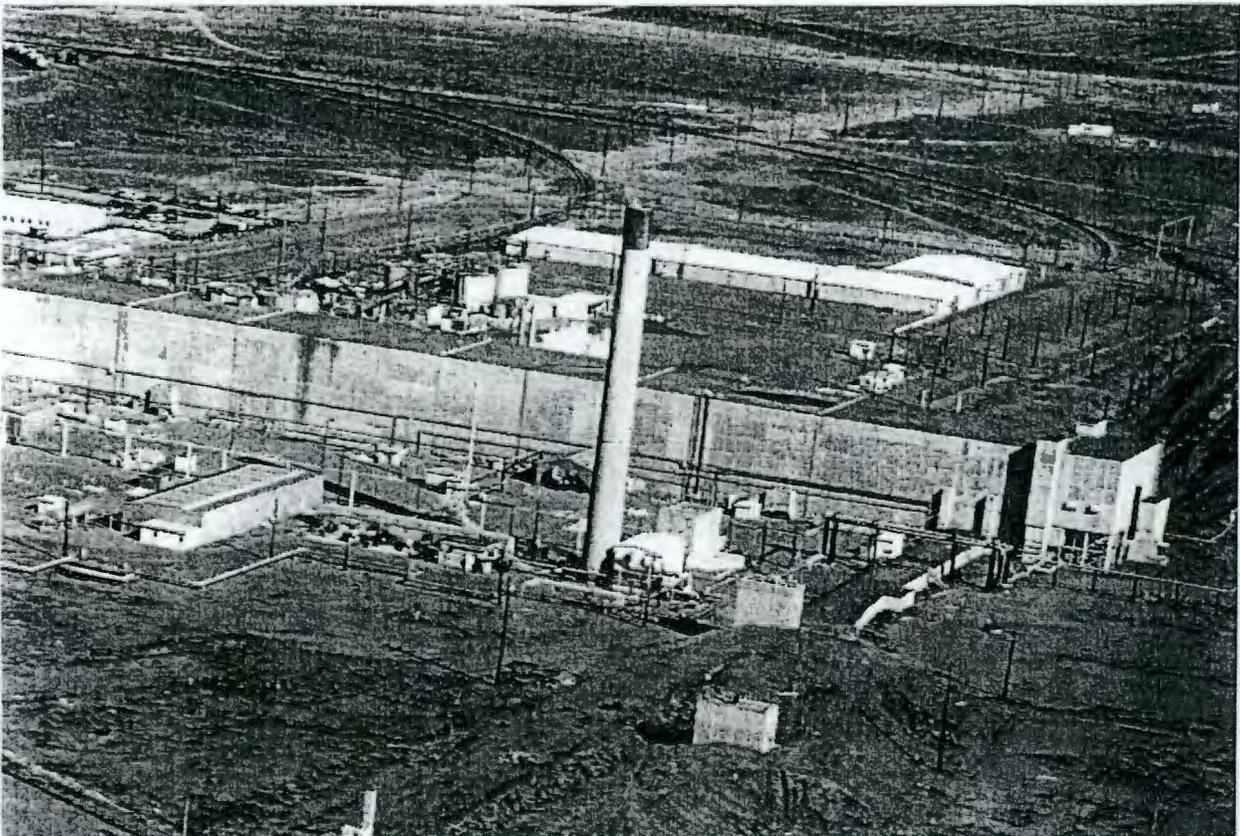
Ecology Program Manager -RJ Julian
DOE-RL Program Manager - LE Rogers
FDH Environmental Sponsor - AM Hopkins

Program Managers Assessment

Since last quarterly review

Project Summary

No Longer Prepared for the Project



Major Accomplishments

in last three months

M-80-00 Complete PUREX and UO3 Plant's transition phase and initiate the surveillance & maintenance phase

- The final action is to submit the Surveillance & Maintenance plan to Ecology for their approval. The plan has been prepared.

- Performed the quarterly surveillance

Planned Progress Next Six Months

M-80-00

- Submit the Surveillance and Maintenance Plan to Ecology and work with them for approval

- Complete the milestone

Baseline Performance and Variance Analysis

FYTD Cost and Schedule Variance

- BHI has the funding for the PUREX surveillance and maintenance
- There are no schedule variances; The quarterly surveillances are being conducted on schedule

Issues

None

IAMIT Meeting June 2, 1998
Tri-Party Agreement Milestone
Status Report

B Plant Facility Stabilization

**Milestone
TPA-M-82**

Ecology Program Manager - TA Wooley
DOE-RL Program Manager - DT Evans
FDH Environmental Sponsor - AM Hopkins

MILESTONE OVERVIEW

IAMIT Meeting
Status Report

Milestone M-82-00 and M-20-21A Milestones and Target Actions

Milestone	Description	Due Date	Target Date
M-82-00	Complete B Plant Facility Transition Phase and Initiate the Surveillance and Maintenance Phase	9/30/99	9/30/98
M-82-01	Submit End Point Criteria for Transition of B Plant	6/30/96	Complete
M-82-02	Complete Deactivation of the B Plant 211-B Area	1/31/97	Complete
M-82-03	Complete Removal of Organic Solvent Waste from the B Plant Canyon	6/30/97	Complete
M-82-04	Submit B Plant Surveillance and Maintenance Plan	6/30/97	Complete
M-82-05	Complete Deactivation of the B Plant Aqueous Makeup Area	5/31/98	Complete
M-82-06	Complete Deactivation of the B Plant Liquid Effluents Area	5/31/98	Complete
M-82-07	Document Hazardous Substances/Dangerous Wastes remaining within B Plant	6/30/98	6/30/98 Complete → Ecology
M-82-08	Complete Disposition of Organic Solvent Waste	9/30/98	Complete
M-82-09	Complete Decoupling of WESF from B Plant	12/31/98	9/30/98
M-82-10	Complete Deactivation of the B Plant Canyon	9/30/99	9/30/98
M-82-10-T01	Complete Isolation/Stabilization of Retired Filters and Provide Operating Canyon Ventilation System for S&M Phase (Project W-059)	9/30/99	9/30/98
M-20-21A	Submit a B Plant Preclosure Work Plan to Ecology	3/31/99	Complete

PERSONNEL CONTACT INFORMATION

Title	Contact	Telephone (509)	Fax (509)
ECOLOGY Program Manager	T. A. Wooley	736-3012	736-3030
DOE-RL Program Manager	D. T. Evans	373-9278	376-0695
FDH Environmental Sponsor	A. M. Hopkins	373-5395	376-6112
FDH Program Sponsor	G. W. Reddick, Jr.	376-2326	376-6112
BWHC B Plant Project Director	R. W. Bailey	373-4999	372-0232
BWHC B Plant Compliance Officer	G. J. LeBaron	373-1792	373-5596
BWHC B Plant Deactivation Planning	S. D. Godfrey	372-0501	372-0232

***Project Summary -
Satisfactory***

No environmental or safety issues have resulted due to B Plant transition activities. Cost and schedule variances coincide.

Major Accomplishments

in last three months

M-82-05 Complete deactivation of the B Plant aqueous makeup area
- Completed March 1998

M-20-21A Submit a PUREX preclosure work plan to EPA and Ecology
- Submittal included:
 S&M Plan and
 End Point Criteria
- Completed March 1998

M-82-07 Document hazardous substances/dangerous waste remaining within B Plant
- Identified the lead inventory in the canyon and coordinated the disposition plan with Ecology and BHI

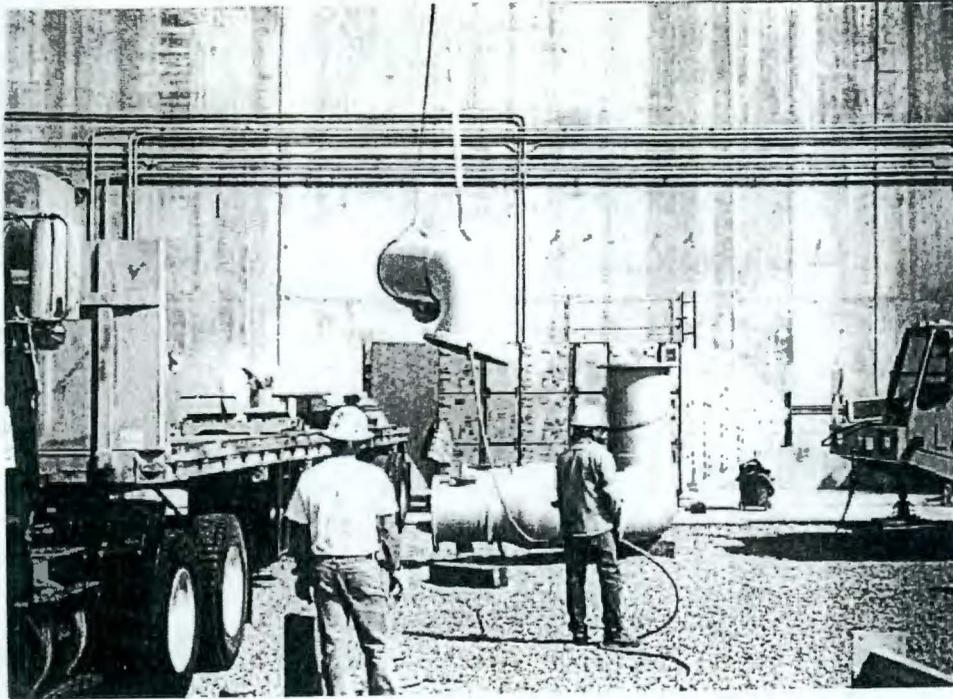
M-82-09 Complete decoupling of WESF from B Plant
- The Emergency Ion Exchange Project was complete
- Construction started on the Low Level Waste project. The last transfer of liquid waste from WESF to Tank Farms through B Plant.
- An alarm system independent of B Plant is being installed
- A WESF facility phone system is being installed

M-82-10 Complete deactivation of the B Plant Canyon
- Final transfers of liquid from the vessels to Tank Farms were completed.
- Boxes of solid waste are being removed from the canyon.

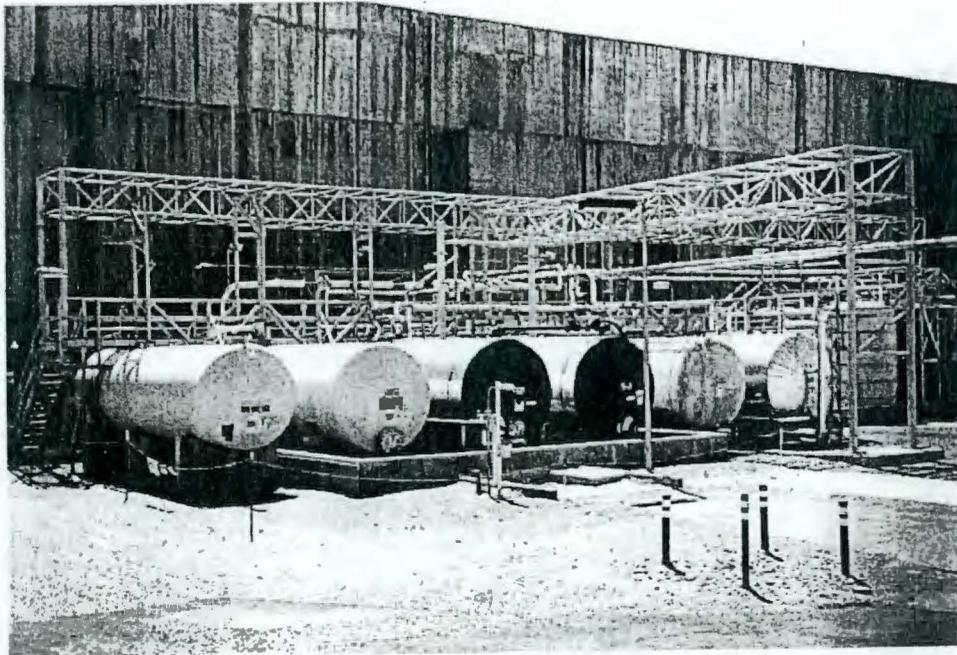
M-82-10-T01 Complete Isolation/Stabilization of Retired Filters and Provide Operating Canyon Ventilation System for S&M Phase (Project W-059)
- Ducting in the canyon has been installed
- Stack, fans and filters have been installed and the duct work between them is being fabricated and installed
- The model for testing and certifying the sample probe has been fabricated and is being installed for testing.

complete

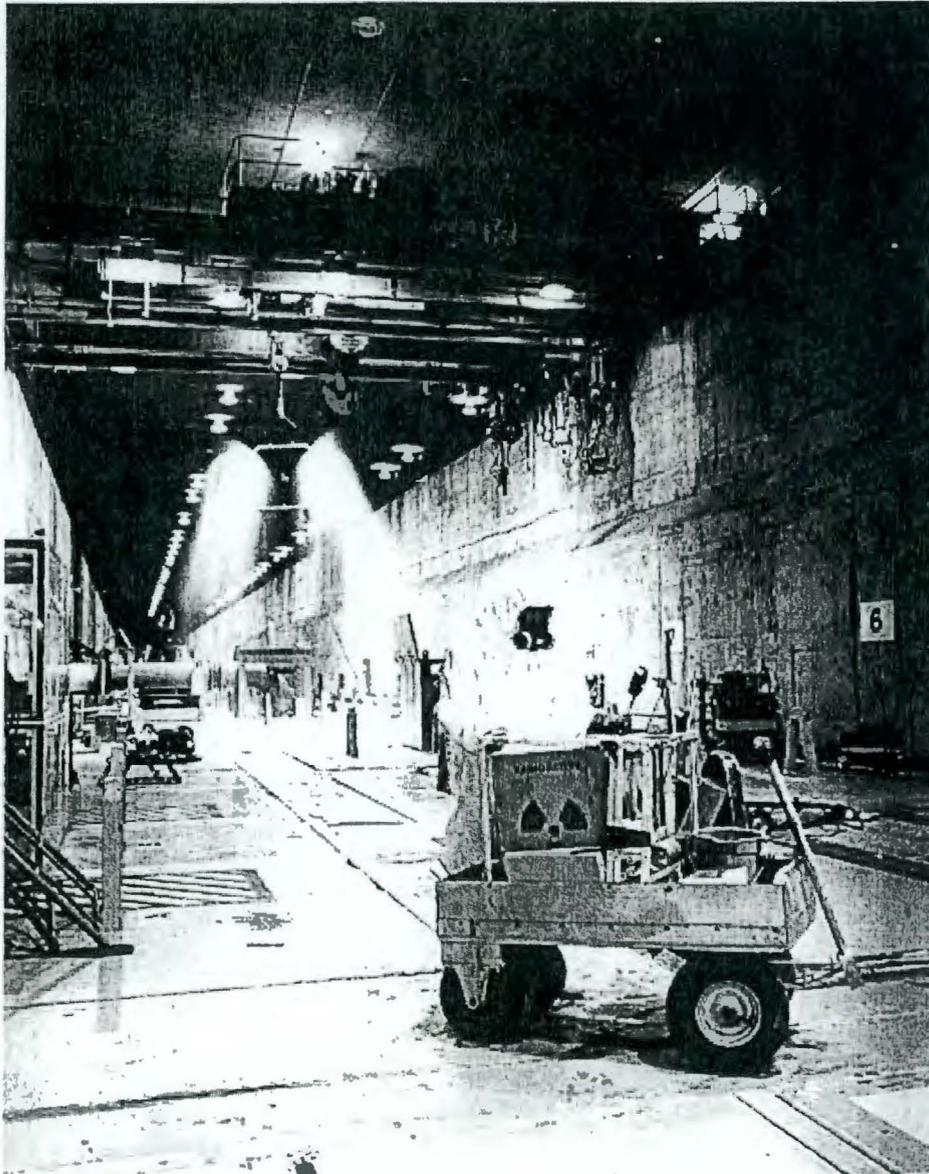
(impacts to schedule)



“Construction workers assemble the new B Plant Canyon ventilation stack and filtration system. This system reduces the canyon airflow for the Surveillance & Maintenance Phase and isolates the highly contaminated retired B Plant underground filters.”

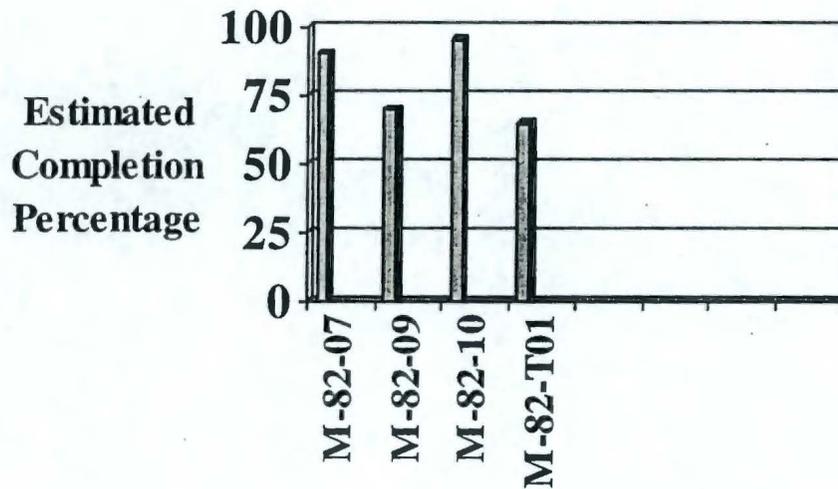


“Deactivation of the extensive B Plant chemical storage and handling systems (aqueous makeup area) was completed in March 1998.”



“Nuclear process operators work to deactivate the B Plant Canyon. An innovative device (fogger) sprays a fine mist of water to increase the humidity and help reduce airborne contaminants which were previously contributing to personnel skin and clothing contamination incidents.”

Milestone M-82 Completion Status



Planned Progress Next Six Months

M-82-07

Final inventories will be completed, the document approved and submitted to Ecology

M-82-09

The Low Level Waste project, the independent alarm system and the PAX telephone system will be completed

WESF decoupling will be complete

M-82-10

The vessel flushes and liquid transfers will be complete

The containerized waste will have been removed from the canyon

Canyon deactivation will be complete

M-82-10-T01

The new canyon vent system will be installed

The sampling system will be tested to meet standards

The passive vent system on the existing filters will be installed

The existing system will be isolated

The new vent system will be operational

Baseline Performance and Variance Analysis

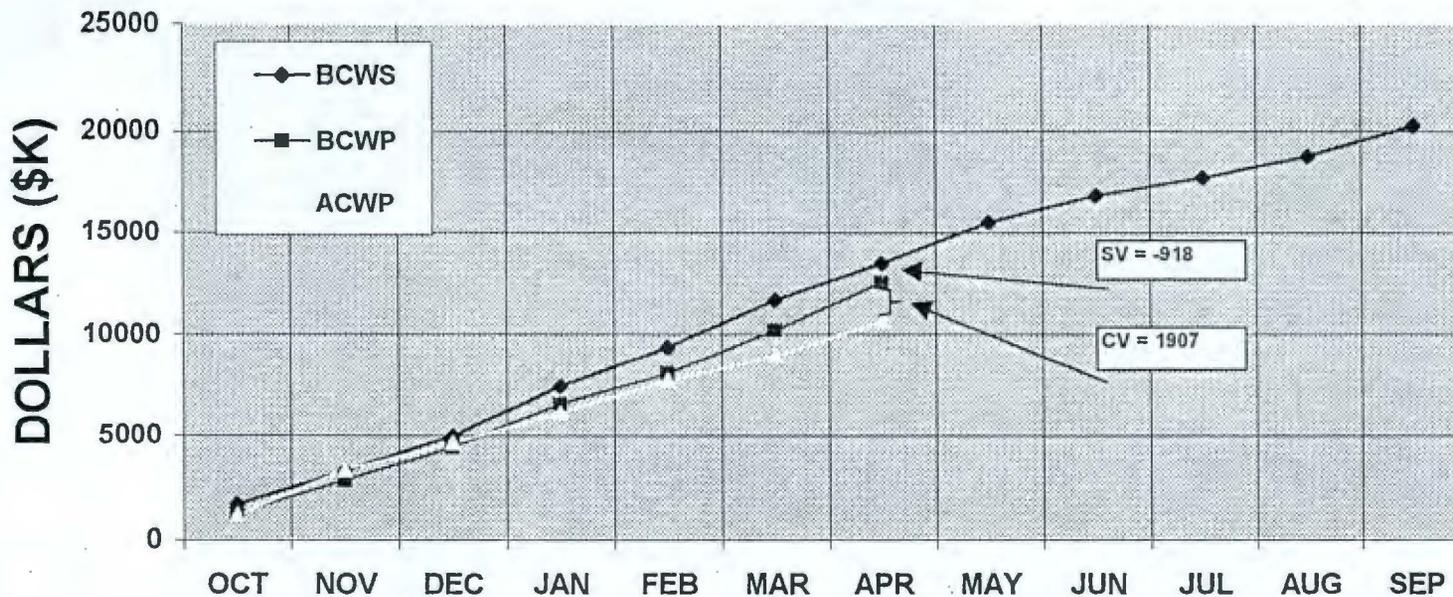
FYTD Cost Variance: \$1,860.4K

- Summary Variance Analysis** - A favorable pass-back of %622K from over accruals of labor and other charges. Reduced surveillance and maintenance costs by revisiting, and appropriate revision of, preventative maintenance requirements. Experienced less than anticipated corrective maintenance. Deactivation of non-contaminated areas is requiring substantially less effort than originally planned.
- Impact** - These reduced costs are allowing the project to forecast overall costs to be within allocated funding. The current fiscal year spending forecast is slightly under the allotted funds.
- Corrective Action** - None.

FYTD Schedule Variance: <\$755.1K>

- Summary Variance Analysis** - Delays in construction of the LLLW system due to a late start caused by resource shortage and discovery of listed waste in Tank 100, caused additional efforts in its removal. Delays in completion of the deactivation of the B Plant canyon were caused by higher than anticipated contamination levels which lead to unacceptable incidences of personnel contamination (this resulted in the need to perform decontamination of the canyon prior to completion of deactivation activities).
- Impact** - Both activities are causing a shortening of time available to complete B Plant deactivation.
- Corrective Action** - An "end game" strategy, statused weekly, has been developed that focuses on critical path activities.

FY98 B PLANT PROJECT



		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUL	AUG	SEP
BCWS	MONTHLY	1168	1598	1703	2462	1909	2326	1794	2034	874	1063	1466
	CUMULATIVE	1668	3266	4969	7431	9340	11666	13460	15494	17698	18761	20227
BCWP	MONTHLY	1249	1581	1590	2154	1525	2083	2359				
	CUMULATIVE	1249	2830	4420	6574	8099	10182	12541				
ACWP	MONTHLY	1169	2153	1335	1471	1612	1184	1710				
	CUMULATIVE	1169	3322	4657	6128	7740	8924	10634				
SV	MONTHLY	-419	-17	-113	-308	-384	-243	565				
	CUMULATIVE	-419	-436	-549	-857	-1241	-1483	-918				
CV	MONTHLY	80	-573	255	683	-87	899	649				
	CUMULATIVE	80	-492	-237	446	359	1259	1907				

Issues

None

* Working w/ Ted Wooley
on tank 100.
400 gal liquid
+ Sludge (75 ppm).

IAMIT Meeting June 2, 1998
Tri-Party Agreement Milestone
Status Report

300 Area Stabilization
Project

Milestone
TPA-M-89

Ecology Program Manager - JJ Wallace
DOE-RL Program Manager - DW Templeton
FDH Environmental Sponsor - AM Hopkins

IAMIT Meeting June 2, 1998 Tri-Party Agreement Milestone Status Report

Status Report Format

TPA-M-89

- TPA-M-89 Overview
- Program Managers Assessment
- Major Accomplishments
- Progress Last 6 Months
- Planned Progress Next 6 Months
- Baseline Performance and Variance Analysis
- Issues/Concerns

Additional Information

Title	Contact	Telephone (509)	Fax (509)
ECOLOGY Program Manager	JJ Wallace	736-3019	736-3030
DOE-RL Program Manager	DW Templeton	373-2966	376-4450
DOE-RL Project Engineer	DC Langstaff	376-5580	376-4450
FDH Environmental Sponsor	AM Hopkins	373-5395	376-6112
FDH Program Sponsor	M De Leon	372-1259	376-6112
BWHC 300 Area Project Director	GO Hayner	372-8135	376-9964
BWHC 300 Area Compliance Officer	DE Rasmussen	376-3288	376-1045
BWHC 300 Area Business/Planning	RM Millikin	372-0983	376-9964
BWHC 324/327 Projects Manager	SH Norton	376-9717	376-9964

IAMIT Meeting June 2, 1998 Tri-Party Agreement Milestone Status Report

MILESTONE OVERVIEW

Milestone M-89-00 Interim Milestones and Target Dates

Milestone	Description	Target Date
M-89-00	Complete closure of non-permitted mixed waste units in the 324 Building REC B-Cell, REC D-Cell, and the high-level vault.	TBD*
M-89-01	Complete removal of 324 Building HLV tank MW with the exception of residues that may remain following flushing and draining to the extent possible.	10/31/96
M-89-01A	DOE will submit to Ecology a report identifying the preferred option for management of liquid MW in the HLV tanks.	3/31/95
M-89-02	Complete removal of 324 Building REC B-Cell MW and equipment. Any remaining residues following removal actions will be managed through the final closure process.	5/31/99
M-89-03	Achieve compliance with interim status facility standards at non-permitted 324 Building MW units.	3/31/95
M-89-04	Submit to Ecology a report identifying MW management alternatives and DOE's proposal for achieving clean closure of the 324 Building REC B-Cell, D-Cell and HLV.	6/30/95
M-89-05	Complete 324 Facility SCW assessment in support of 324 closure.	June 1998
M-20-55	Submit closure plan for non-permitted mixed waste units located in the 324 Building REC B-Cell, REC D-Cell, and HLV.	12/31/95

*Pending completion and approval of the REC/HLV/LLV Closure Plan

Program Managers Assessment

Since last quarterly review

Environmental - Satisfactory

The 324 REC/HLV/LLV contains areas identified as nonpermitted TSD areas. Therefore, completion of activities that reduce overall risk to the environment and maintain compliance with the M-89 agreements improves the overall facility compliance status. Although size reduction activities resumed during March, movement of grouted containers loaded with low-level waste were delayed to resolve a radiological waste classification question. Shipment were resumed and four containers have been shipped to the 200 West Burial Grounds.

The 324 Building REC/HLV/LLV Closure Plan was submitted to Ecology on March 31, 1998.

Safety - Excellent

Due to the extreme radiological environment that the bulk of this work is associated with, the work is carefully planned and coordinated with PHMC and DOE safety standards. No safety related issues were identified during this period.

Cost - Excellent

The project has generated some favorable cost savings in preparing and as result of Special Case Waste Assessment. In addition the cost of revising the 324 REC/HLV/LLV Closure Plan has been absorbed by the project.

Schedule - Unsatisfactory

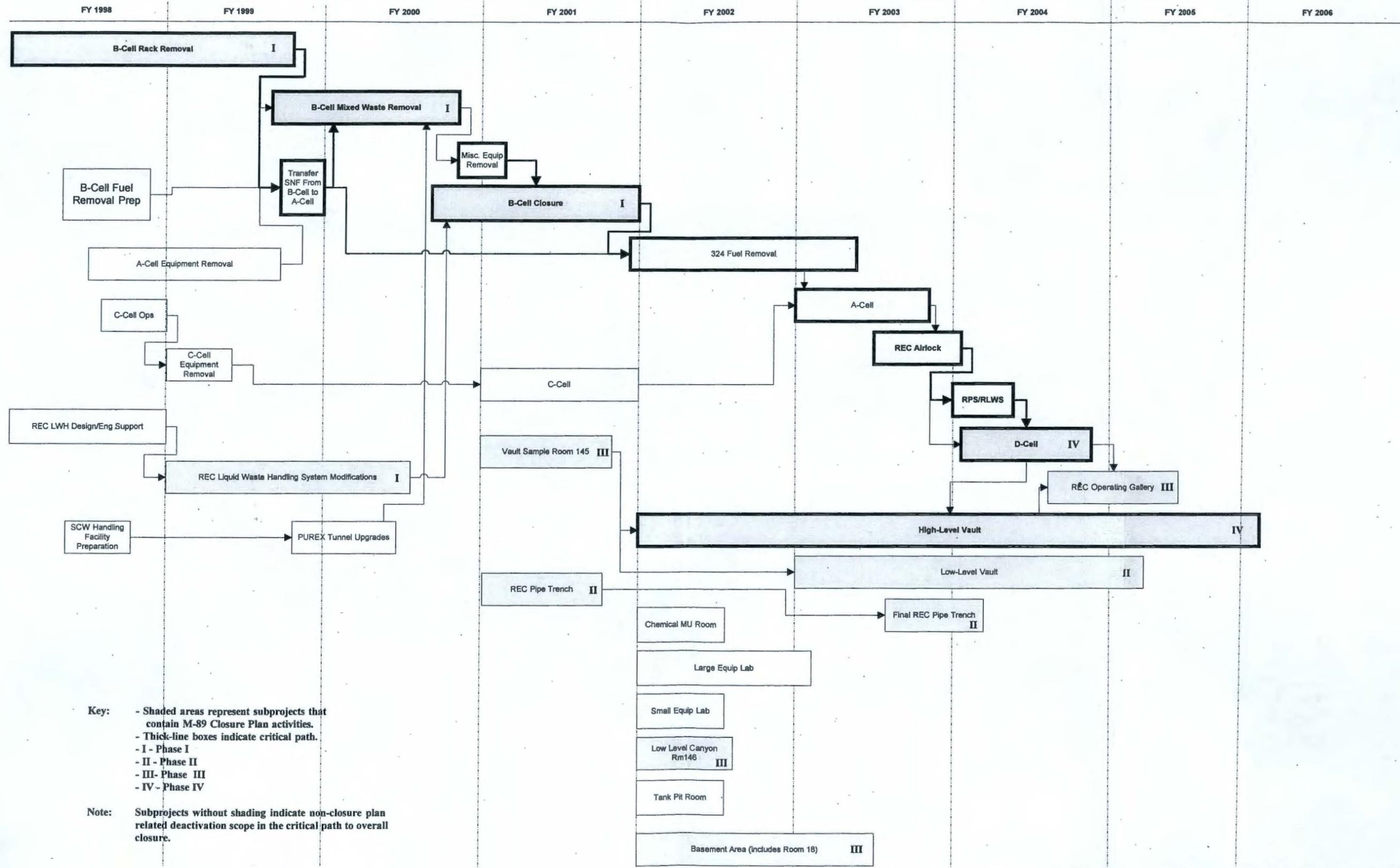
M-89-02 remains behind schedule (currently ten months with 15 months remaining). To complete TPA commitments on schedule, dramatic increases in actual and planned productivity will be required. However, an integrated life-cycle plan has been submitted in the REC/HLV/LLV and Associated Areas Closure Plan which integrates the scope of M-89-02 with the remaining closure activities.

Project Summary - Unsatisfactory

Significant roadblocks were encountered during the past six months that impact progress toward the completion of TPA milestone 89-02. Corrective action management has included the development of alternative strategies to the planned work schedule to minimize these effects. These roadblocks include:

- **Fire Hazards Analysis** -The new Fire Hazard Analysis (FHA) presented a "Major Fire" scenario that was inconsistent with the 324 Building Safety Analysis Report (SAR). Resolution was reached through modification to the main exhaust fans and through changes to combustible material management procedures.
- **Dispersible Materials Unreviewed Safety Question** - Size reduction of Tank 113, within the 1-A rack, potentially exposes dispersible material in excess of the radioactive material inventory specified in the 324 Building SAR. Management revised the order of rack reduction to allow resolution of this issue.
- **Radiological Waste Classification** - Questions regarding the basis for classifying grouted LLW arose in March 1998. Resolution was reached in April. Four containers have been shipped to the 200 West Burial Grounds. This shipping delay shutdown cutting operations for one month.

324 Building Closure Plan



- Key:**
- Shaded areas represent subprojects that contain M-89 Closure Plan activities.
 - Thick-line boxes indicate critical path.
 - I - Phase I
 - II - Phase II
 - III - Phase III
 - IV - Phase IV

Note: Subprojects without shading indicate non-closure plan related deactivation scope in the critical path to overall closure.

Major Accomplishments

in last three months

M-89-01 Complete.

M-89-02

- Completed removal of 1B Rack jumpers and completed 1B Rack removal (May).
- Repositioned 1A Rack to allow for 1B size reduction first.
- Recommenced hot work. Completed size reduction of TK-119 and other miscellaneous metal cell debris.
- Commenced grouting operations, as needed, to prepare RH-LLW containers.
- Completed four shipments of RH-LLW grout containers to the 200 Area burial grounds (May).

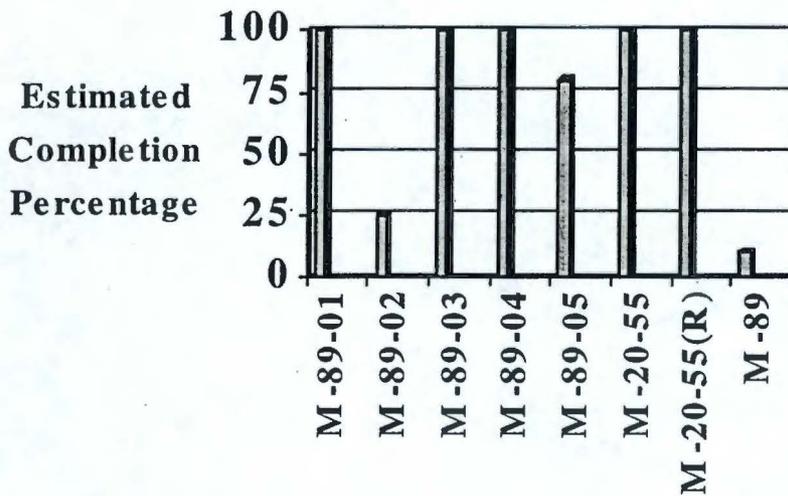
M-89-03 Complete.

M-89-04 Complete.

M-89-05 The Special-Case Waste Assessment in support of REC Closure was drafted and submitted to DOE-RL by the contractor.

M-20-55 Complete - The final Closure Plan was submitted to Ecology on March 31, 1998. The Closure Plan schedule will be submitted to Ecology on June 3, 1998

Milestone M-89 Completion Status



Progress Last Six Months

M-89-01 Completed prior to reporting period.

M-89-02

- Tank-119 was size-reduced and packaged for removal to burial.
- Size reduction of in-cell equipment was delayed during the last six months to address Fire Hazard Analysis issues. A white paper was submitted in response to a potential Unreviewed Safety Question (USQ)
- - Administrative and operational procedures were modified to enhance the Fire Hazards Protection Program required by Operations Safety Requirement (OSR) 3.2.
- - The administrative restriction on B-Cell specific "hot work" (plasma arc cutting torch) was lifted on March 4, 1998.
- Due to the suspension of hot work activities, focus on cleanup shifted to removing equipment racks from wall in preparation for size reduction.
- - The 1-A rack was removed from the cell wall and positioned. After the rack was moved, shield plugs were inserted in wall penetrations between B-Cell and the airlock/pipe trench.
- - Debris and dispersible material from the floor was collected. Approximately 10ft³ of dispersible material was separated from the debris.
 - Removal of the 1-B rack from the wall was **completed**, including removal of piping from the pipe trench.
 - Three-shift operations were started in January 1998 in preparation for a waste shipment campaign and resumption of size reduction of B-Cell equipment.
 - The grout delivery system was overhauled to ensure trouble-free operation during the waste removal campaign.
 - Four LLW grout containers were shipped to the 200 Area Burial Grounds.

M-89-03 Completed prior to reporting period.

M-89-04 Completed prior to reporting period.

M-89-05

- M-89-05 requires development of a Special Case Waste (SCW) Assessment in support of B-Cell Closure. HNF-2570, *324 Building Special-Case Waste Assessment in Support of the 324 Building Closure (TPA-Milestone M-89-05)*, dated May 1998 was submitted to DOE-RL on May 11, 1998 for DOE-RL approval and subsequent transmitted to Ecology by June 30, 1998. The 324 CSW Assessment currently has Ecology comments incorporated.

M-20-55 On September 30, Ecology responded to the May 1997 *324 Building REC/HLV/LLV Closure Plan* with 443 comments, requesting major revisions and additions.

- The final Closure Plan and Notice of Deficiency response was submitted to Ecology on March 31, 1998, completing this milestone. The closure plan schedule will be submitted to Ecology on June 3, 1998 which incorporates the FY 2000 IPL targets, completing this milestone.

Planned Progress Next Six Months

M-89-01 Complete.

M-89-02

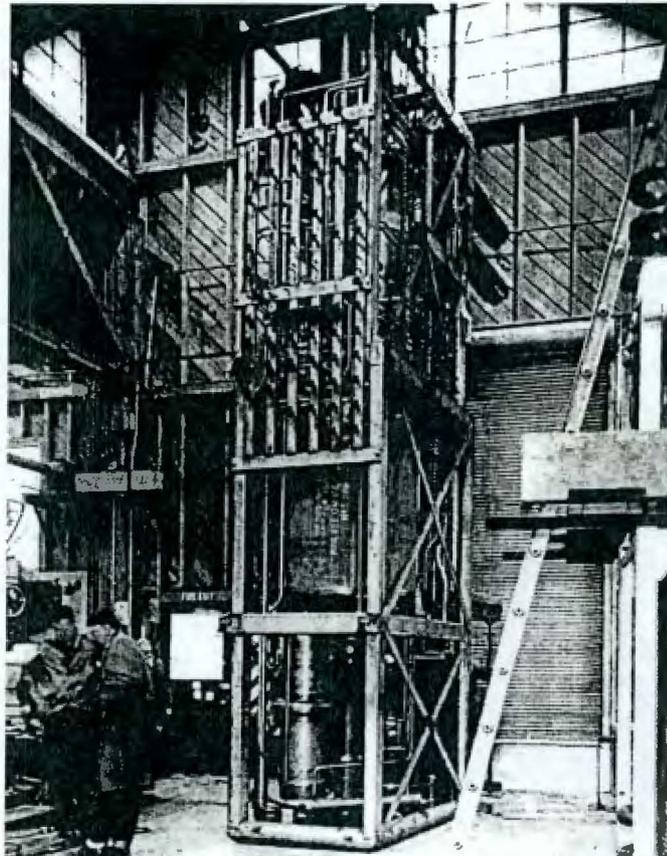
- Size reduction of the 1-B Rack will begin.
- Dispersible material will be collected from the floor under the 1-B Rack. This material, as well as material collected previously from under the 1-A rack will be packaged in engineering containers for future disposal or storage in the PUREX tunnels.
- M-89-02 scope was incorporated into the Closure Plan submitted to Ecology March 31, 1998.

M-89-03 Complete.

M-89-04 Complete.

M-89-05 On schedule

M-20-55 On Schedule



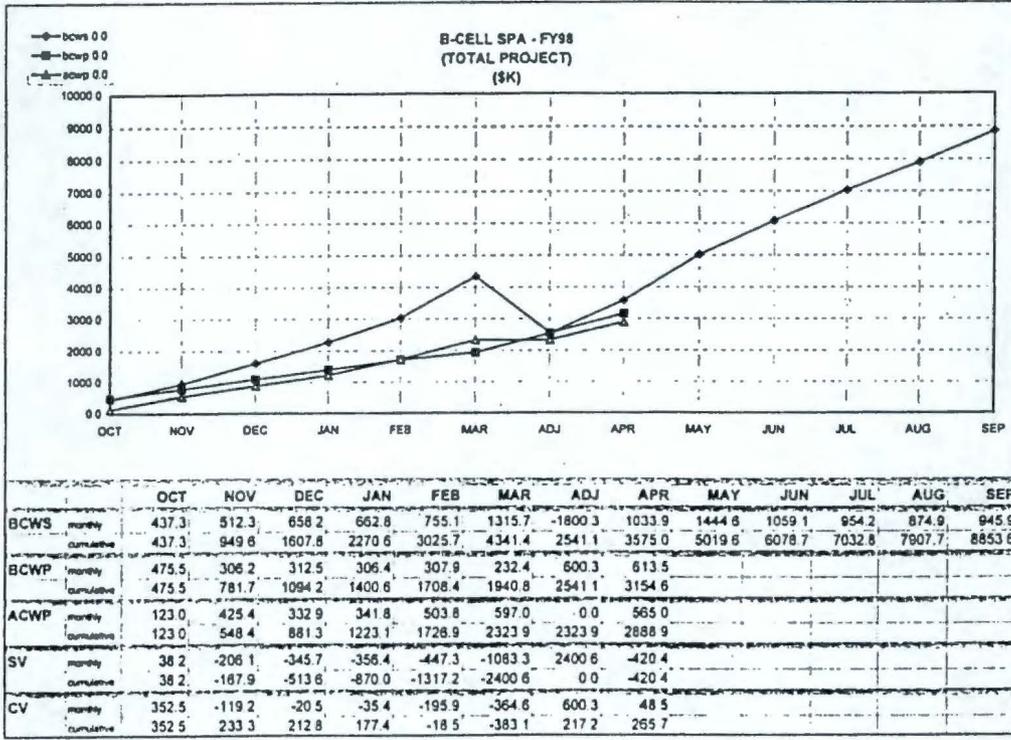
Baseline Performance and Variance Analysis

FYTD Schedule Variance (through April 1998) - \$420K

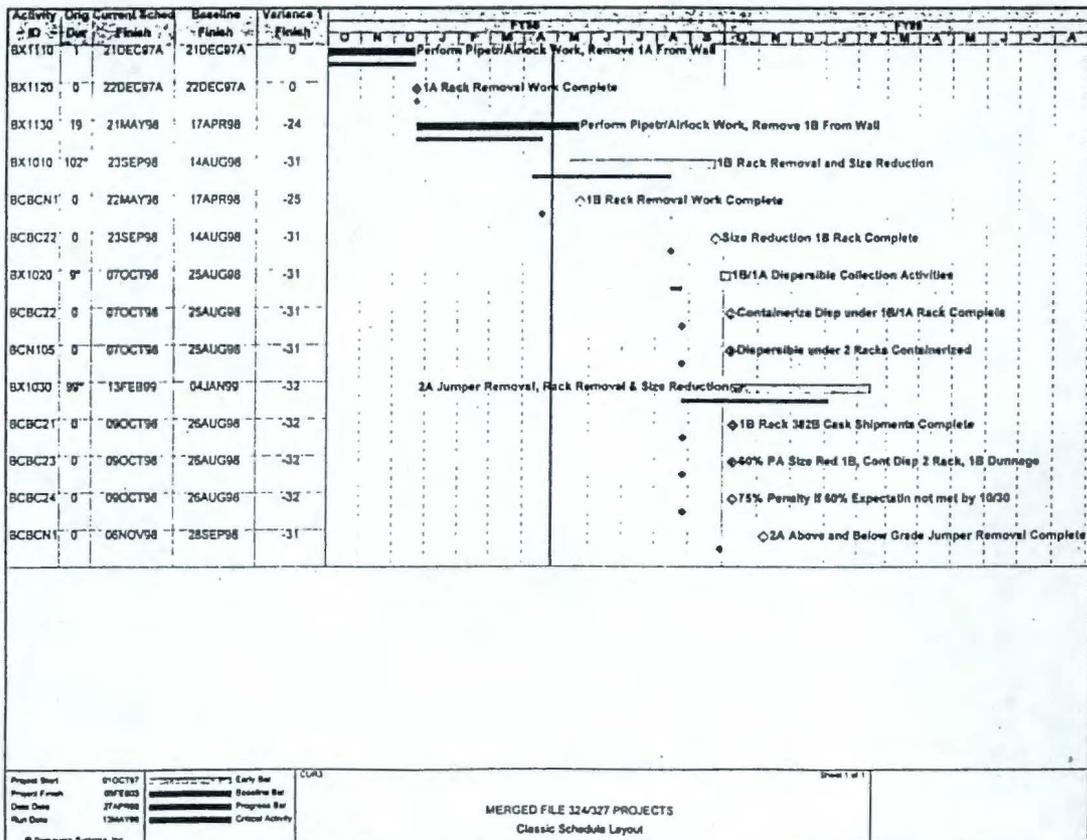
- **Summary Variance Analysis** - The current month schedule variance is a negative <\$420K>. \$229K of this variance is the result of not completing grouting, dose profiling, loadout and shipment of approximately six 3-82B shipments due to waste designation issues. The remainder of this negative variance is the result of not completing 1B Rack removal and size reduction activities. The rack cannot be removed from the wall until four grout containers are shipped out in the 3-82B.
- **Impact** - Delays in size reduction activities continue to place TPA milestone M-89-02 in jeopardy.
- **Corrective Action** - Radiological waste designation issues have been resolved for four of the grout containers (GC). Shipments to the burial grounds began April 30, 1997, and a total of three shipments have been completed as of May 18, 1997. Upon shipment of the fourth GC, 1B Rack removal/size reduction activities will begin. The remaining seven GC in the cell will have to be addressed individually based upon dose rates, curie content, and a determination will be made as to whether they will need to be shipped to PUREX tunnels for storage. In addition, samples of in-cell rack dunnage are planned to occur. The sample analysis data will then be used to prepare a revised waste summary for future GC to prevent waste designation issues holding up shipments in the future. ABCD shift is scheduled to begin for hot cell technicians beginning May 18, in creasing cell window work time and the ability to complete more size reduction activities within a 24-hour period.

FYTD Cost Variance (through April 1998) - \$265K

- **Summary Variance Analysis** - the FYTD positive cost variance is largely the result of a \$183.4K credit received in the month of March for passbacks. The remainder of this variance is due to outstanding invoices associated with Waste Management Northwest's rental of the 3-82B Cask and the 3-82B Cask lifting yokes costing less to be fabricated than originally planned.
- **Impact** - Impact is minimal. Funding associated with the \$183.4K of passbacks will be held for PFP. Additionally, a large amount of the remaining positive cost variance is expected to disappear as invoices are received for rental of the 3-82B Cask.
- **Corrective Action** - N/A



5/12/98



Issues

Issue: Completion of TPA commitments will require a dramatic increase in productivity in FY98. The B-Cell Project has significant challenges to overcome in order to meet the TPA milestone M-89-02, May 1999, *Complete Removal of Equipment and Mixed Waste from B-Cell.*

- **Impact** - Failure to meet the TPA commitments.
- **Status/Corrective Actions** - BWHC will continue to evaluate methods/analysis required to accelerate activities to meet the overall project schedule.

Issue: Equipment reliability in the B-Cell radiological environment continues to be an issue. Hardware, such as the in-cell manipulators, cranes, cameras, windows, and cell doors deteriorate in the hot cell environment. All in-cell activities are done remotely and require operational systems. Maintenance and repair of these systems are complex due to the high radiological dose. **Impact** - System downtime creates delays to critical path activities.

- **Corrective Action** - Equipment and systems will be maintained and inspected as required, based on scheduled maintenance and failures. A new cell crane was installed in FY97. A contract with the crane manufacturer is now in place to allow for on-call service. In addition, a cell window maintenance contract is in place. Spare cameras and manipulators are in inventory to allow for equipment replacement.

IAMIT Meeting June 2, 1998
Tri-Party Agreement Milestone
Status Report

300 Area Stabilization
Project

Milestone
TPA-M-92

Ecology Program Manager - JJ Wallace
DOE-RL Program Manager - DW Templeton
FDH Environmental Sponsor - AM Hopkins

IAMIT Meeting June 2, 1998

Tri-Party Agreement Milestone

Status Report

Status Report Format

TPA-M-92

- TPA-M-92 Overview
- Program Managers Assessment
- Major Accomplishments
- Progress Last 6 Months
- Planned Progress Next 6 Months
- Baseline Performance and Variance Analysis
- Issues/Concerns

Additional Information

Title	Contact	Telephone (509)	Fax (509)
ECOLOGY Program Manager	JJ Wallace	736-3019	736-3030
DOE-RL Program Manager	DW Templeton	373-2966	376-4450
DOE-RL Project Engineer	DC Langstaff	376-5580	376-4450
FDH Environmental Sponsor	AM Hopkins	373-5395	376-6112
FDH Program Sponsor	M De Leon	372-1259	376-6112
BWHC 300 Area Project Director	GO Hayner	372-8135	376-9964
BWHC 300 Area Compliance Officer	DE Rasmussen	376-3288	376-1045
BWHC 300 Area Business/Planning	RM Millikin	372-0983	376-9964
BWHC 324/327 Projects Manager	SH Norton	376-9717	376-9964

IAMIT Meeting June 2, 1998

Tri-Party Agreement Milestone

Status Report

MILESTONE OVERVIEW

Milestone M-92-00 Interim Milestones and Target Dates

Milestone	Description	Target Date
M-92-00	Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for the storage, treatment/processing, and disposal of Hanford Site cesium and strontium capsules (Cs/Sr), bulk sodium (Na), and 300 Area special-case waste (SCW).	TBD
M-92-01	Complete commercial disposition and/or acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for sitewide consolidation, and storage prior to commercial use, or treatment and/or repackaging by DOE TWRS.	December 2009
M-92-02	Submit Hanford Site Cs/Sr Project Management Plan (PMP) to Ecology pursuant to Agreement Action Plan, Section 11.5.	September 1997
M-92-03	Submit modified Hanford Site facility Part A Permit Application to Ecology, incorporating all Hanford Site Cs/Sr capsules (300 Area and unencapsulated salts) for which a commercialization contract has not been executed.	December 1997
M-92-04	Complete transfer of all 300 Area Cs/Sr to WESF and/or an approved storage location.	December 1998
M-92-05	Inclusion of Hanford Site Cs/Sr "treatment and/or repackaging parameters" in DOE TWRS Phase II Request for Proposals (treatment and/or repackaging of all remaining Cs/Sr).	June 2003
M-92-12	Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for consolidated storage prior to disposal of Hanford Site 300 Area special-case waste (SCW).	September 2006
M-92-13	Submit 300 Area SCW PMP to Ecology pursuant to Agreement Action Plan, Section 11.5.	September 2000
M-92-14	Complete removal and transfer, and initiate storage of Phase I 300 Area SCW waste and materials. Phase I inventory will consist of, at minimum, one-third the total curie content of all 300 Area SCW.	September 2002
M-92-15	Complete removal and transfer, and initiate storage of Phase II 300 Area SCW waste and materials. Phase II inventory will consist of, at minimum, half of the remaining curie content of 300 Area SCW waste and materials.	September 2004
M-92-16	Complete removal and transfer and initiate storage of Phase III 300 Area SCW and materials.	September 2006

Program Managers Assessment

Since last quarterly review

Environmental - Excellent

No negative environmental impacts or issues have arisen out of the storage and/or handling, packaging, or transportation of the Special-Case Waste inventory.

Safety - Excellent

No negative safety impacts or issues have arisen out of the storage and/or handling, packaging, or transportation of the Special-Case Waste inventory.

Cost - Satisfactory

Negative cost variances have been experienced in association with the cesium overpack and Federal Republic of Germany log storage project.

However, some of the Milestone M-92 activities are being **completed** within budget (327 Legacy Waste Buckets, PNNL Special-Case Waste Inventory Assessment, Unirradiated Uranium Planning, and 324 Cesium Powder and Pellet Removal Project), and some activities are being absorbed into the baseline (preplanning for M-92-13, including the Memorandum of Agreement and Project Management Plan). In addition, the negative cost variance associated with the Cesium capsule rework is being absorbed by the current project. A Baseline Change Request has been submitted.

Schedule - Excellent

The near-term milestones are being **completed** on and ahead of schedule. M-92-13 through M-92-16 are well ahead of schedule and are projecting early completion.

Project Summary - Good

The near-term milestones are being **completed** on and ahead of schedule.

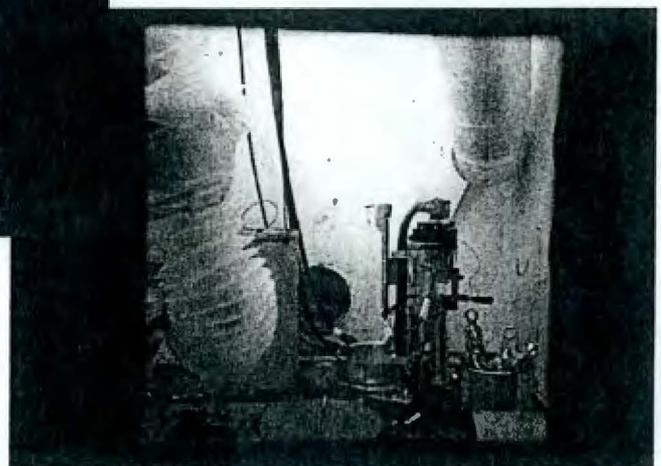
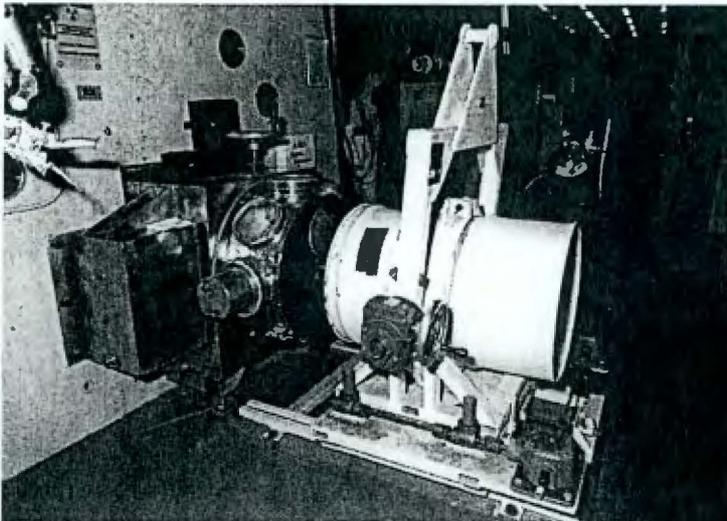
Significant progress was made in the packaging of the curie inventory associated with the Special-Case Waste from the 300 Area to compliant storage in the 200 Area.

This included:

Loading of 10 concrete-lined drums and four lead-lined drums with 327 Facility legacy waste buckets.

Characterization of over 127 legacy waste buckets (April).

Process reviews and planning have been completed for the remaining cesium stored in the 324 Building.



Major Accomplishments

in last three months

M-92-00 Summary milestone.

M-92-01 Summary milestone.

M-92-02 Complete.

M-92-03 Complete.

M-92-04 On schedule

M-92-05 On schedule

Currently incorporating results of engineering trade studies and decision analysis into TWRS technical baseline (Hanford Site Technical Database).

M-92-12 On schedule

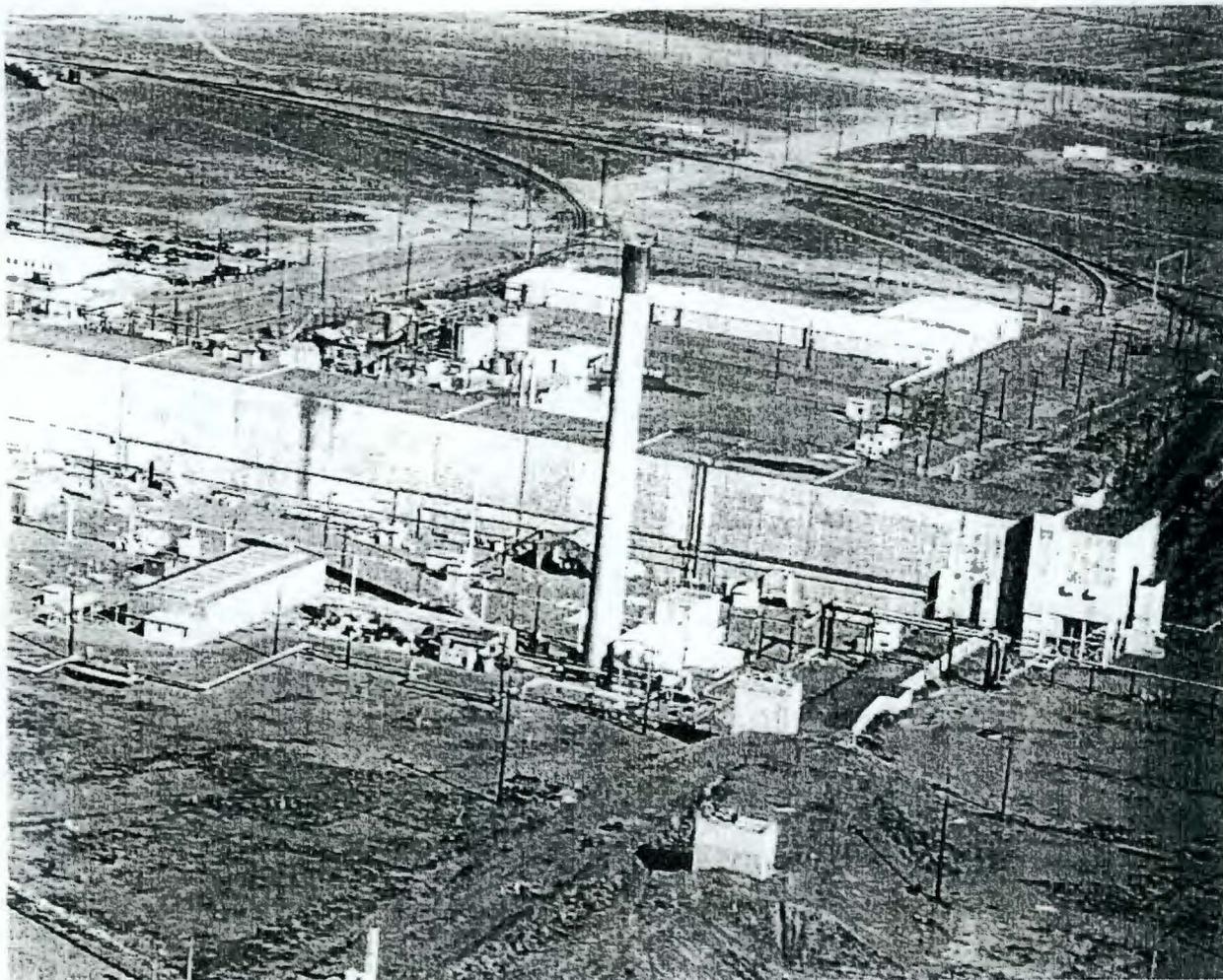
Completed the final 324/327 *Special-Case Waste Assessment and Disposition Alternatives Analysis* (HNF-SD-1730). The study currently proposes the use of existing facilities such as PUREX, Waste Encapsulation Storage Facility, Low-Level Burial Ground, and Central Waste Complex.

M-92-13 On schedule

Completed the final 324/327 *Special-Case Waste Assessment and Disposition Alternatives Analysis* (HNF-SD-1730). Contains the bulk of the information required in the Project Management Plan for 300 Area special-case waste.

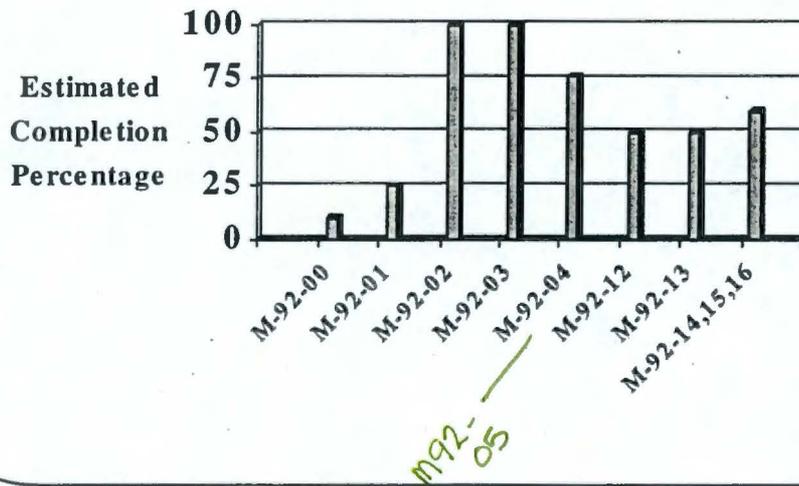
M-92-14, -15, -16 Ahead of schedule

Completed loading of ten concrete-lined drums and four lead-lined drums with 61 waste buckets in the 327 Facility for storage in the 200 West Area.



PUREX Tunnel and Stack

Milestone M-92 Completion Status



Progress Last Six Months

M-92-01

- Planning is proceeding to upgrade WESF for long-term storage of cesium capsules. Overall, the project is on schedule relative to the milestone goal date. Specifics are covered in the WESF update.

M-92-02 Complete as of September 1997.

M-92-03 Completed as of December 1997.

M-92-04

- Installation of overpacks to replace the outer containments on the defective capsules stored at 327.
- Overpacked three additional capsules shipped from WESF F-Cell to 324 Facility (seven of the 16 total capsules will be re-overpacked, see Issues).
- Completed initial project planning for the packaging of the remaining 324 cesium powder and pellet inventory and Nordian capsules.

M-92-05

- Based on results of engineering trade studies and decision analysis, the PHMC recommended (3/98) and DOE concurred (4/98), that for purposes of final disposal the Cs and Sr be removed from the capsules, blended with other high-level tank wastes, and vitrified.

M-92-12

- Issued to HNF-IP-1730, *324/327 Special-Case Waste Assessment and Disposition Alternatives Analysis* to RL (including Ecology comments), which includes over 95 percent of the Special-Case Waste covered in M-92-13 through 16. The study conclusions included:
 - Spent Nuclear Fuel would be properly packed for storage at an onsite SNF Interim Storage Area (ISA) pending final disposition.
 - Fuel pieces and fragments will be managed consistent with prior shipments as RH-TRU and stored in EBR-II Casks at the TRU pad pending final disposition.
 - Cesium capsules/nordian capsules and remaining inventory of "pure" cesium powder and pellets will be transferred to WESF storage basin pending final disposition.
 - B-Cell dispersables, tank heels, and metal filters will be packaged in shielded containers for storage in the PUREX tunnels, pending final disposition (in addition, ion exchange column media in 327 basin would be packaged for tunnel acceptance).
 - Waste buckets in 327 Facility hot-cells will be managed consistent with prior shipments at the LLBG.
 - SCW miscellaneous items in 324/327 Facilities were addressed and disposition options were chosen.
- Milestone is currently projected for early completion.

M-92-13

- Document, HNF-IP-1730, is the basis for the 324 and 327 Facilities' input to the Special-Case Waste Project Management Plan. Data to be added includes the 325 laboratory and the 340 waste handling facility inventories.
- A revised 300 Area Special-Case Waste inventory has been compiled following extensive evaluation of 324/327 listed inventory and work with PNNL waste personnel. The 325 Building waste was investigated and characterized after interviewing staff over a one to two-month period. Cut fuel canister records for 325 were investigated and calculations made to estimate the quantity of cut fuel pins.
- M-92-14, -15, -16
- Designations and destinations for most of the site Special-Case Waste have been proposed and preliminarily concurred with by DOE-RL/Ecology.
- M-92-14 and -15 are potentially completed (based on the shipments of the Federal Republic of Germany logs). However, the SCW inventory must be revised and approved prior to milestone closeout. (Note: considerable effort will be required to finish M-92-16 due to the distribution of the remaining material.)
- Completed loading of 10 concrete-lined drums and four lead-lined drums with 61 low-dose waste buckets in the 327 Building for storage in the 200 West Area.

Planned Progress Next Six Months

M-92-01

- Planning is proceeding to upgrade WESF for long-term storage of cesium capsules. Overall, the project is on schedule relative to the milestone goal date. Specifics are covered in the WESF update.

M-92-02 Completed as of September 1997.

M-92-03 Completed as of December 1997.

M-92-04

- Ship seven cesium capsules from WESF to the 324 Facility and replace the outer Type-W overpack.
- Complete packaging design and acceptance testing for storage systems for the remaining 324 Facility cesium powder and pellets for transfer to WESF.

M-92-05

- Incorporate requirements for vitrification of Cs and Sr for purposes of final disposal into Hanford Site Technical Database.

M-92-12

- Continue administrative activities to allow re-opening of the Number 2 PUREX tunnel and finalize the path forward for the 324 and 327 Facilities' Special-Case Waste, destined for the tunnel.

M-92-13

- Coordinate with PNNL and WMH to move forward with the 300 Area Project Management Plan for Special-Case Waste.
- Finalize Memorandum of Agreement.
- Finalize Special-Case Waste inventory. The 325 Building has a group of hot cell waste cans that may be proposed as additions to the list and shipments to the tunnel.

M-92-14, -15, -16

- Ship 200 of the legacy waste buckets within the 327 Building hot cells to storage in the 200 West Area.

Baseline Performance and Variance Analysis

M-92-01 Summary Milestone

M-92-02 **Completed** as of September 1997

M-92-03 **Completed** as of December 1997

M-92-05 Update covered in TWRS report

M-92-13

- No FY98 funding available. Completing Memorandum of Agreement and coordination with PNNL/WMH/BWHC/FDH through absorbed work scope.

M-92-04 Budget at Completion - \$849.6K

FYTD Cost Variance (through April 1998) <15.9>

- **Summary Variance Analysis** - No significant variance to report.
- **Impact** - n/a
- **Corrective Action** - n/a

FYTD Schedule Variance (through April 1998) <\$58.3K>

- **Summary Variance Analysis** - The negative variance is due to delays in preparation and approval of the fabrication work package and delay in maintenance of the BUSS cask used for the transfer between 324 Building and WESF.
- **Impact** - n/a
- **Corrective Action** - n/a

M-92-12 Budget at Completion - \$84.7K

FY98 activities include stack upgrades to PUREX tunnels and initiate re-opening activities.

FYTD Cost Variance (through April 1998) <\$0.7>

Summary Variance Analysis - n/a

- **Impact** - n/a
- **Corrective Action** - n/a

FYTD Schedule Variance (through April 1998) <2.2K>

Summary Variance Analysis - n/a

- **Impact** - n/a
- **Corrective Action** - n/a

M-92-14, -15, -16 Budget at Completion-\$1,017.7K

FY98 activities include only processing 327 hot cell waste containers.

FYTD Cost Variance (through April 1998) <\$70.6>

- **Summary Variance Analysis** - The negative cost variance is the result of resources used to support the project during the month of April, but no waste drums were loaded during the month due to required procedure changes. This variance will self-correct by the end of the third quarter.
- **Impact** - n/a
- **Corrective Action** - n/a

FYTD Schedule Variance (through April 1998) <\$89.4>

- **Summary Variance Analysis** - Under the approved baseline schedule, the project should have completed processing 80 waste buckets by the end of April. Also waste drum shipments were scheduled to begin April and this activity was not performed. These variances will self correct when shipments commence.
- **Impact** - n/a
- **Corrective Action** - n/a

Issues

•**Issue** - Upon review of QA records associated with the overpacks on seven cesium capsules processed at the 324 Shielded Materials Facility, deficiencies were identified and subsequently rejected for WESF pool storage.

- Seven cesium capsules shipped to WESF for acceptance into the WESF storage pool, were overpacked using material that had been intended for in-process demonstration of weld penetration.

- Samples of the welds were taken during the processing of the cesium capsules and sent to an NDE lab for analysis, all weld samples passed the testing.

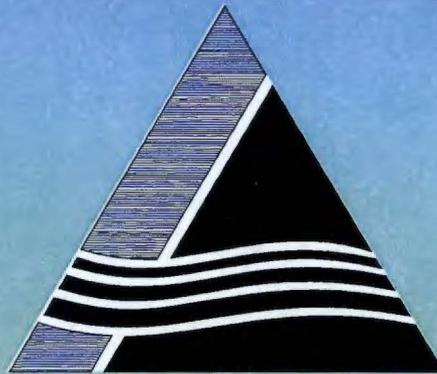
- The seven overpacks had been rejected during the acceptance testing due to a minor deviance in thickness. (It is expected that if additional testing on the material had been conducted, the capsules could have met the WESF storage criteria).

•**Impact** - These capsules will require shipment back to 324 for installation of new overpacks.

•**Status/Corrective Actions** - The path forward plan is to transfer the seven overpacked capsules back to 324 Facility in the BUSS cask as nuclear material. The overpacks will be removed and placed in new overpacks that meet the WESF storage criteria. The capsules will then be reshipped in the BUSS cask to WESF as nuclear material for subsequent acceptance and storage in the WESF pool.

Richland Environmental Restoration Project

TPA Quarterly Review



Tri-Party Agreement

U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

June 2, 1998

AGENDA

Agenda

Milestone Overview

Project Status/Accomplishments/Performance

Project Overview

Remedial Action/Waste Disposal Projects

Groundwater Management

Groundwater/Vadose Zone Integration Project

Decontamination and Decommissioning

Surveillance/Maintenance and Transition Projects

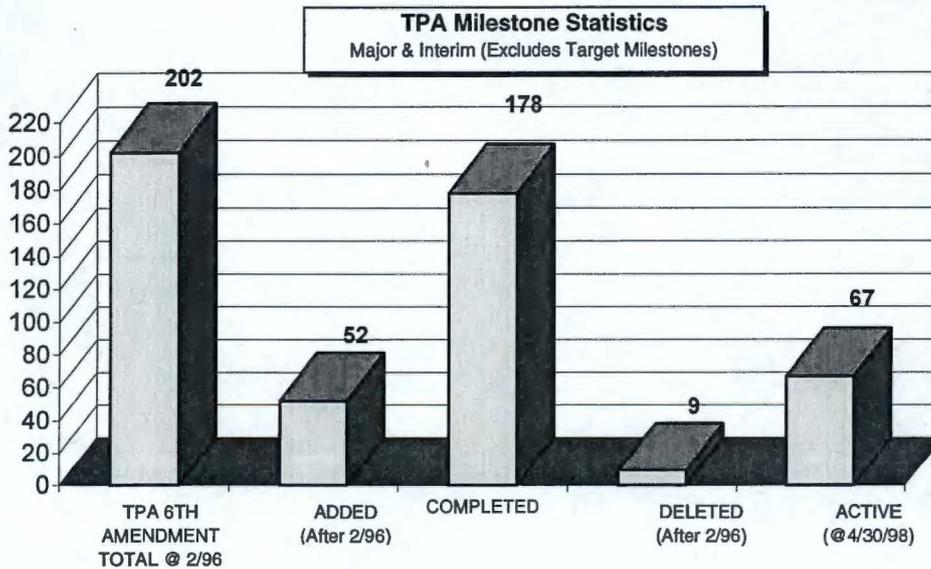
N Area Project

Program Management and Support/RL

Milestone Schedules

Richland ER Project

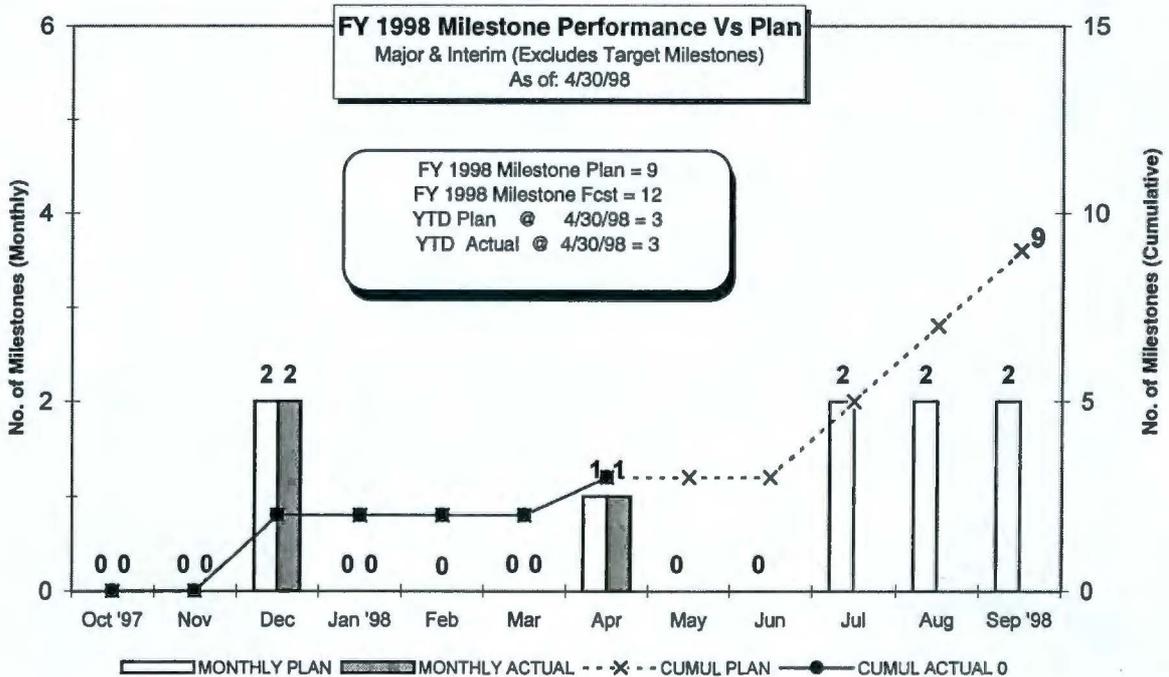
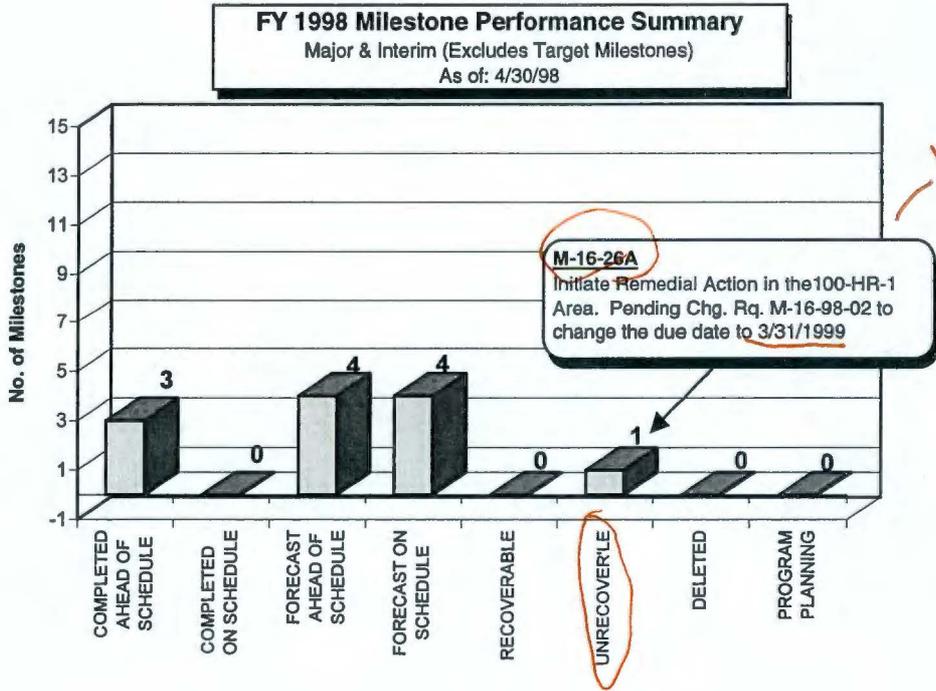
FY 1998 TPA Milestone Overview



TPA Milestone Statistics
Major & Interim (Excludes Target Milestones)

	Completion Date	Total @ 2/96	Added After 2/96	Completed @ 4/30/98	Deleted After 2/96	Active @ 4/30/98
M-13-00 Submit Workplans for RFI/CMS or RI/FS Studies	12/31/2005 (M-13-00P)	34	7	20	8	13
<i>2004</i> M-15-00 Site Investigations / Feasibility Studies	12/31/2008 (M-15-00C)	84	2	81	0	5
M-16-00 Remedial Design / Remedial Action	9/30/2018 (M-16-00)	20	15	21	1	13
M-20-00 Submit Closure Plans for All RCRA TSD Units	2/28/2004 (M-20-00)	13	0	7	0	6
M-24-00 RCRA Groundwater Monitoring	12/31/2003 (M-24-00C)	48	14	45	0	17
<i>complete</i> M-70-00 ERDF Operational	7/01/96A (M-70-00)	3	0	3	0	0
M-93-00 Reactors on River Final Disposition	TBD (M-93-00)	0	14	1	0	13
TOTAL		202	52	178	9	67

FY 1998 TPA MILESTONE PERFORMANCE



**This Quarter's TPA Change Requests
(January - March 1998)**

This Change Request adds seven (7) new TPA Milestones and deletes eight (8) TPA Milestones

M-13-00Q Deleted

M-13-11 Deleted

M-13-12 Deleted

M-13-13 Deleted

M-13-14 Deleted

M-13-15 Deleted

M-13-16 Deleted

M-13-17 Deleted

Waste site groupings

M-13-98-01
200 Area Strategy
Appv'd 3/31/98

M-13-18 Submit 200 Area RI/FS (RFI/CMS) implementation Plan. Due date of 8/31/1998.

M-13-19 Submit North Pond Cooling Water Group Work Plan. Due date of 2/28/1999.

M-13-20 Submit Gable Mountain/B Pond and Ditch Cooling Water Group Work Plan. Due date of 4/30/1999.

M-13-21 Submit Chemical Sewer Group Work Plan. Due date of 8/31/1999.

M-13-22 Submit U Pond/Z-Ditches Cooling Water Group Work Plan. Due date of 12/31/1999.

M-13-23 Submit Uranium Rich Process Waste Group Work Plan. Due date of 4/30/2000.

M-13-24 Submit General Process Waste Group Work Plan. Due date of 8/31/2000.

**This Quarter's TPA Change Requests
(January - March 1998)**

*New Waste Site Groupings
Types, Processes vs. area*

M-20-98-01
200 Area Strategy
Appv'd 3/31/98

M-20-00 Submit Part B Permit Applications or Closure /Post-Closure Plans for all RCRA TSD Units. Permit Applications, Closure, and Post-Closure Plans will be submitted to Ecology for approval. Due date of 2/28/2000 was changed to 2/28/2004.

M-20-33 Submit 216-A-10 and 216-A-36B Crib Closure/Post-Closure Plans to Ecology in coordination with the **Work Plan for Uranium Rich Process Waste Group (To be coordinated with M-13-23)**. Due date of 6/30/1998 was changed to 10/31/2003.

M-29-39 Submit 216-S-10 Pond and Ditch Closure/Post-Closure Plans to Ecology in coordination with the **Chemical Sewer Group Work Plan (To be coordinated with M-13-21)**. Due date of 6/30/1999 was changed to 2/28/2003.

M-20-52 Submit 216-A-37-1 Crib Closure/Post-Closure Plans to Ecology in coordination with the **Work Plan for the General Process Waste Group (To be coordinated with M-13-24)**. Due date of 10/31/1998 was change to 12/31/2003.

M-20-53 Submit 207-A Retention Basin Closure/Post-Closure Plan to Ecology in coordination with the **Work Plan for the General Process Waste Group (To be coordinated with M-13-24)**. Due date of 10/31/1999 was changed to 12/31/2003.

M-20-54 Submit 241-CX Tank System Closure/Post-Closure Plan to Ecology in coordination with the **Work Plan for the Infrastructure Waste Group (To be coordinated with M-13-00K)**. Due date of 2/28/2000 was changed to 2/28/2004.

**M-15-98-01
CRCIA
(Appv'd 1/29/98)**

M-15-80-T01 Submit a revised report of the draft from M-15-80 which incorporates responses to comments from the CRCIA Team, technical peer reviewers and the public. Responses are to be based on consensus of the CRCIA Team to the extent practicable; to the extent that comments cannot be reconciled, "minority opinions" will be included. **Due date of 1/31/1998 was changed to 3/31/1998.**

**M-16-98-01
N-Basin Cleanup
(Appv'd 3/25/98)**

M-16-01E-T02 Initiate pretreatment and removal of all N Reactor fuel storage basin waters pursuant to the N Reactor Deactivation Program Plan. **Due date of 1/31/1998 was changed to 4/30/1998.**

M-16-01E Complete N-Reactor/100 N Area Deactivation pursuant to the work scope identified in the N Reactor Deactivation Program Plan, Rev. 4, WHC-SP-0615, Dec. 1993. **Due date of 4/01/1998 was changed to 7/31/1998.**

**M-24-98-01
GW Monitoring
(Appv'd 1/29/98)**

This Change Request creates five (5) new TPA Milestones:

- M-24-36 Install one (1) replacement RCRA well for 216-U-12 Crib. Due date of 12/31/1998.
- M-24-37 Install two (2) replacement RCRA wells for the SST WMA T. Due date of 12/31/1998.
- M-24-37 Install four (4) replacement wells for the SST WMA TX-TY. Due date of 12/31/1998.
- M24-39 Install two (2) RCRA wells (one new and one replacement) for the SST WMA U. Due date of 12/31/1998.
- M-24-40 Install one (1) additional RCRA well for the SST WMA B-BX-BY. Due date of 12/31/1998.

FY 1998 Mid-Year Status

Progress as Promised



Remedial Actions

- Waste Site Remediation in progress at 100-BC, 100-DR, and 300 Areas on Columbia River; Six Waste Sites Completed.



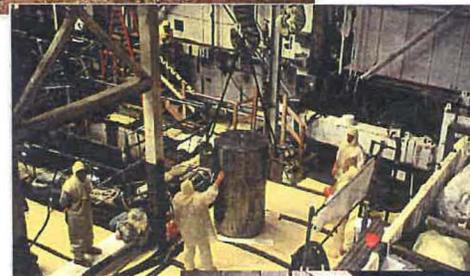
Decontamination and Decommissioning (D&D)

- C Reactor Interim Safe Storage (ISS) in Progress
- Initiated F and DR Reactor ISS
- D&D in Progress at 233-S Pu Concentration Facility



Environmental Restoration Disposal Facility (ERDF)

- Received 299,000 Tons of Contaminated Soil
- Expansion Preparatory Work Underway



N Reactor Deactivation

- Project Nearing Completion
- Nearing Completion with High Dose, Low Dose, and Sediment Relocation Activities
- Completed Design, Procurement, and Started Installation of Basin Shielding
- TPA Change Approved 4/1/98 to 7/31/98

Groundwater Management

- Management of Hanford GW Monitoring and Remediation
- Five Pump and Treat Units Operating



Surveillance & Maintenance

- S&M of Inactive Facilities
- Transition Support on PUREX and B Plant
- Risk Assessment Corrective Actions



Groundwater/Vadose Zone Integration

- Developed the Planning Approach for Management and Integration of the Hanford Site Groundwater and Vadose Zone Activities



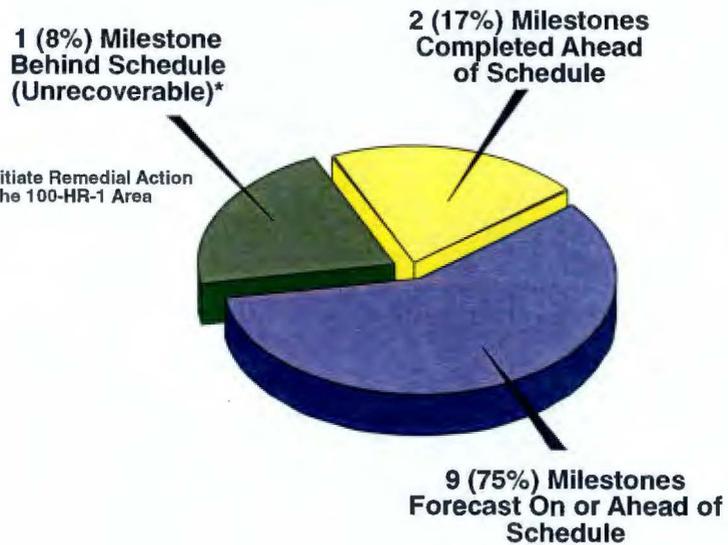
Project Support Functions

- Maintained Financial and Administrative Control and Project Support
- Provided External Interface and Communications

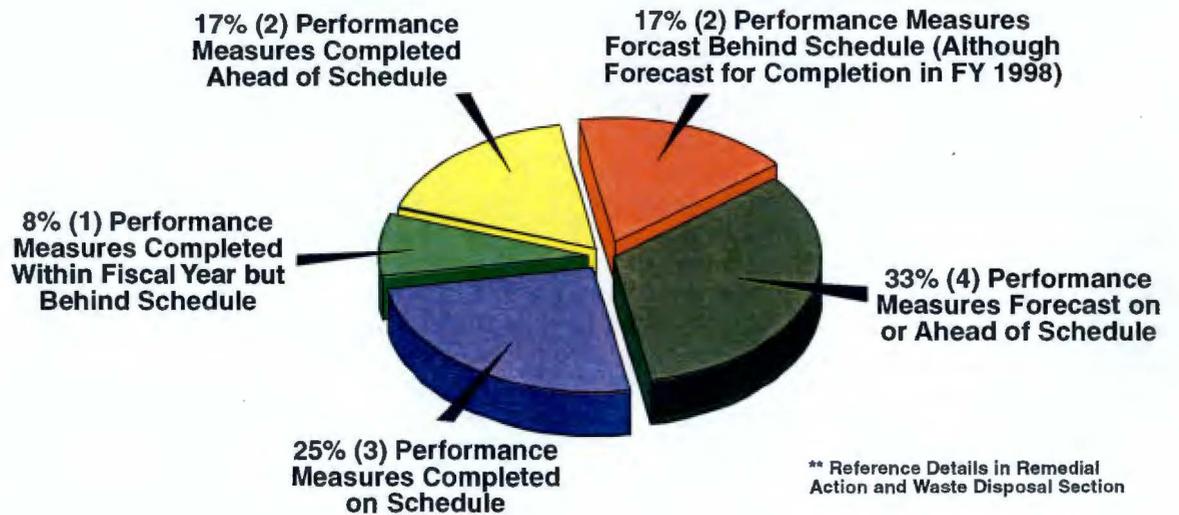


Key Indicators

FY98 TPA Milestones (12)

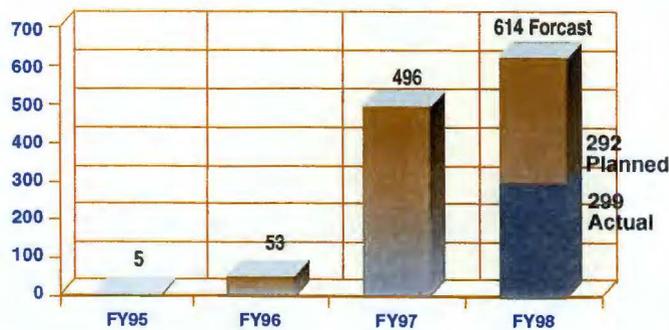


FY98 Performance Measures (12)** (Release Sites & Facilities)

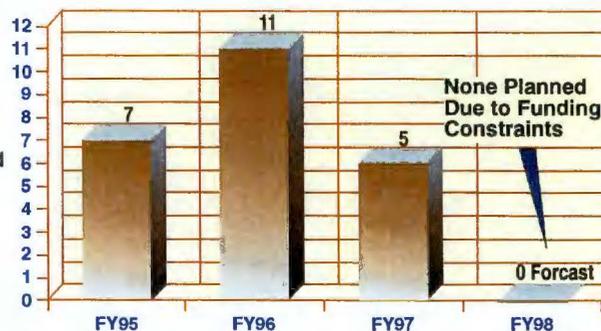


** Reference Details in Remedial Action and Waste Disposal Section

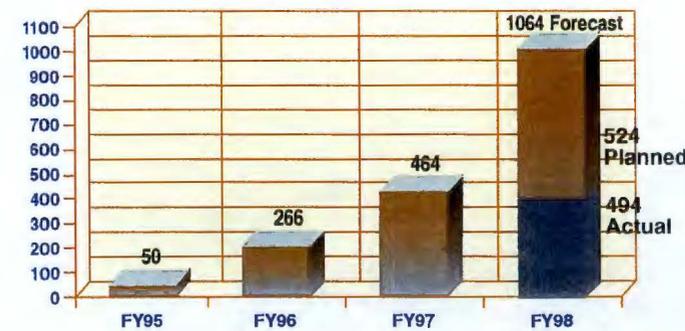
Soil and Material Disposed (Thousands of Tons Disposed)



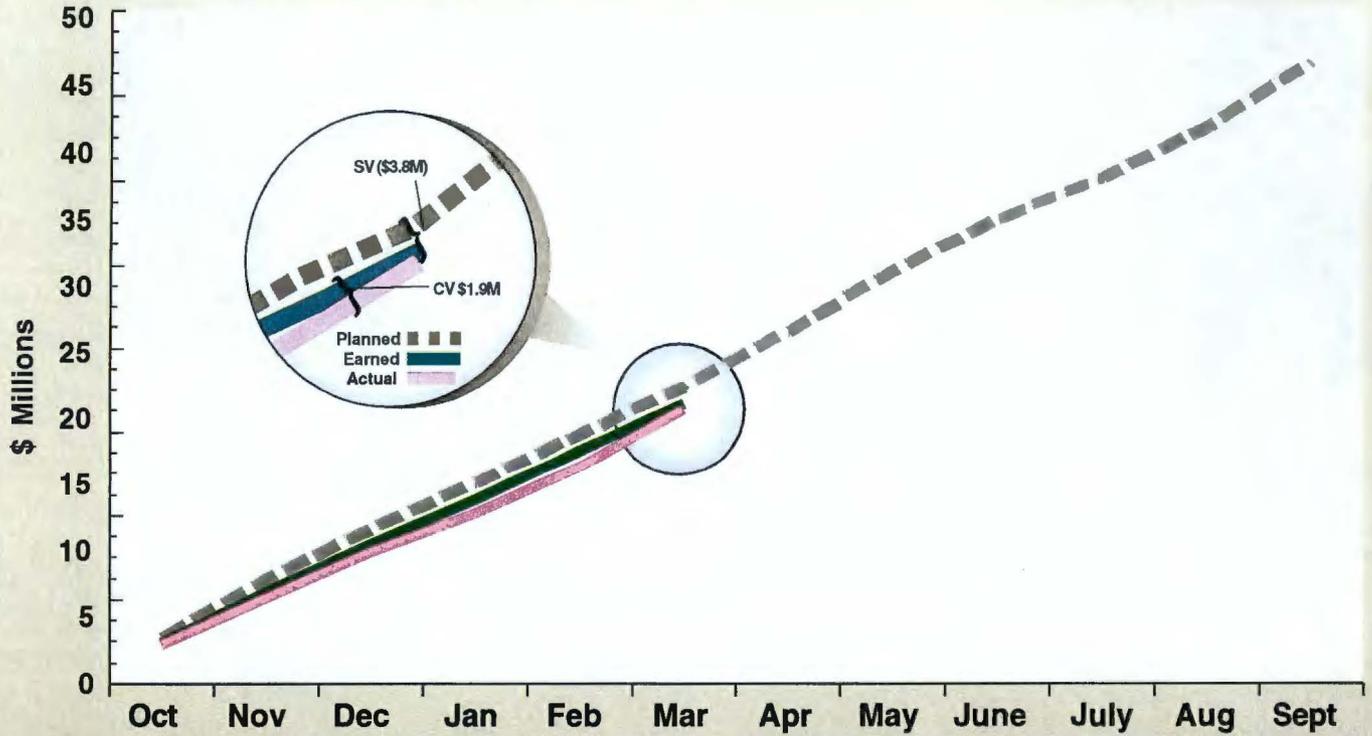
D&D Completions (Number of Facilities)



Groundwater Processed (Millions of Liters Processed)

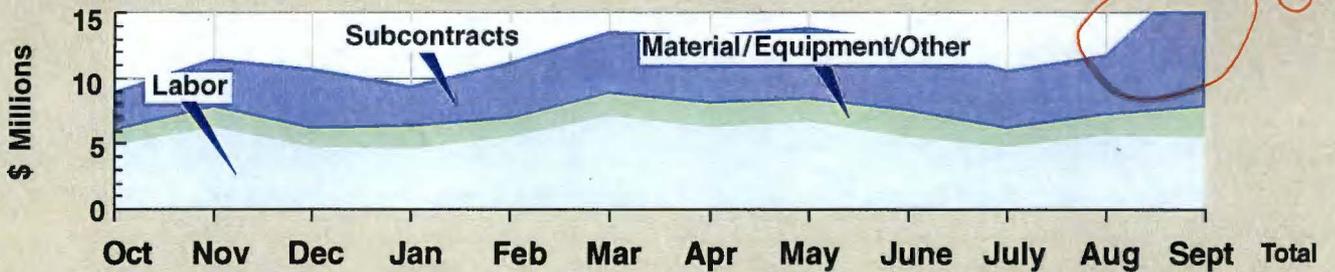


FY98 Project Performance (Cumulative) Status: Mid Year Review



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
BCWS (Planned)	10.6	25.0	36.6	47.5	59.4	70.7	83.8	98.4	110.7	120.3	131.8	147.1
BCWP (Earned)	9.6	21.7	33.0	44.0	55.4	66.9	-	-	-	-	-	-
ACWP (Actual)	9.0	20.4	31.1	40.4	51.5	65.0	-	-	-	-	-	-

FY98 Expenditures (Monthly)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Total
Labor	4.9	6.3	4.7	4.6	5.5	7.1	6.2	6.7	5.5	4.7	5.6	5.5	67.3
Matl/Equip/Other	1.1	1.5	1.4	1.6	1.4	1.7	1.9	1.6	1.9	1.4	1.5	2.2	19.2
Sub-contracts	3.0	3.6	4.6	3.1	4.3	4.7	5.1	5.5	5.4	4.4	4.6	10.9	59.2
Total	9.0	11.4	10.7	9.3	11.2	13.5	13.2	13.8	12.8	10.5	11.7	18.6	145.7

FY 1998 TPA Milestone Summary (Excludes Target Milestones)

Item	FY98 Month	Milestone	Description	Planned Due Date	Forecast Actual Date	Completed		Forecast		Recoverable	UnRecoverable	Deleted	Program Planning
						Ahead Schedule	On Schedule	Ahead Schedule	On Schedule				
	Oct-97	M-16-11	Begin systems operation of 100-KR-4	10/01/1997	9/29/1997A			(Completed Ahead of Schedule in FY 1997)					
1	Dec-97	M-24-00I	Install RCRA Groundwater Monitoring Wells at the rate of 0 to 50 in CY 1997 (If Required)	12/31/1997	12/30/1997A	X							
2		M-93-01	Submit recommendation for final disposition of the 105-C Fuel Storage Basin.	12/31/1997	12/17/1997A	X							
3	Apr-98	M-16-06C	Submit the 100-HR-3/100-KR-4 Performance evaluation Report	4/30/1998	4/24/1998A	X							
4		M-93-07	Initiate 105-F Reactor ISS Characterization and design	10/31/1999	6/30/1998F			X					
5		M-93-09	Initiate 105-F ISS Reactor Field Activities	10/31/2000	6/30/1998F			X					
6		M-93-13	Initiate 105-DR Reactor ISS Characterization and design	10/31/2002	6/30/1998F			X					
7	Jul-98	M-93-02	Submit the 105-C Surveillance and Maintenance Plan. This milestone will be met by a S&M plan submittal for the 105-C	7/31/1998	7/31/1998F				X				
8		M-16-01E	Complete N Reactor/100-N Area Deactivation	7/31/1998	7/18/1998F			X					
9	Aug-98	¹ M-13-18	Submit 200 Area Implementation Plan ?	8/31/1998	8/31/1998F (See below)				X				
10		M-16-03C	Submit the 618-4 Burial Ground excavation Report as the final BHI document	8/31/1998	8/31/1998F				X				
11	Sep-98	² M-16-26A	Initiate Remedial Action for 100-HR-1 OU	9/30/1998	3/31/1999F (See below)						X		
12		M-93-03	Complete 105-C Reactor Interim Safe Storage Large Scale Demonstration Project	9/30/1998	9/30/1998F				X				
-		³ M-16-92A(P)	Initiate excavation associated with ERDF Cells 3 & 4 Construction	9/30/1998	9/30/1998F (See Below)								
TOTAL FY 1998 TPA Milestones				9	12	3	0	4	4	0	1	0	0

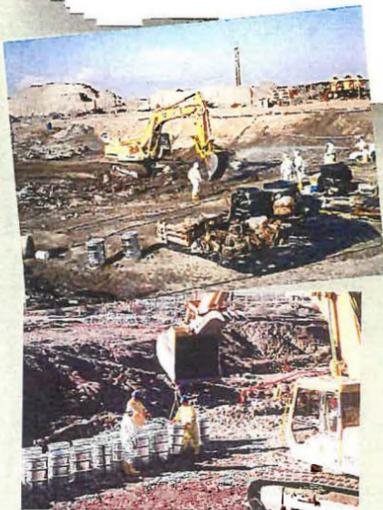
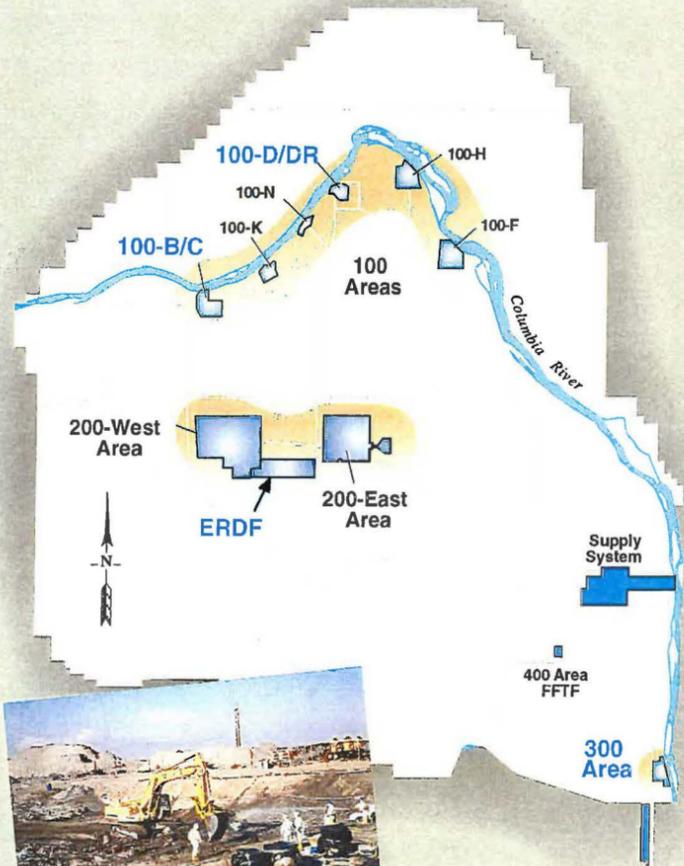
M-13-18 was added with the approval of the 200 Area Strategy.

M-16-26A The start of Remedial Action in the 100-HR-1 Area is being impacted by the additional plumes found in the 100-BC-1 O.U.

Pending TPA Change Request M-16-98-02 will change the due date to 3/31/99.

M-16-92A will be added upon approval of pending TPA Change Request M-16-98-03.

Remedial Action & Waste Disposal Project



100 Area

100-FR/HR/KR

- ▶ Complete Group 4 design
Group 4 Design (100-HR, FR, KR-1 Liquid Sites) will be completed in late spring.

100-HR

- ▶ Initiate 100 Area Burial Ground Feasibility Study
The 100 Area Burial Ground Feasibility Study was initiated November 1997.

▶ Complete 100 Area Remaining Sites Proposed Plan

The 100 Area Remaining Sites Proposed Plan (Rev. 0) is forecast to be issued to DOE-RL in the 2nd half of FY98.

- ▶ Assist in issuance of 100 Area Remaining Sites ROD

Assistance in issuing the 100 Area Remaining Site ROD is forecast for the 2nd half of FY98.

100-DR

- ▶ Issue 190-D Chromium Source Sampling Final Data Report

The 190-D Chromium Source Sampling Final Data Report will be issued in the 2nd half of FY98.

200 & 300 Area

200-BP-1

- ▶ Complete borehole characterization at 216-B-2-2 Ditch
The borehole characterization at 216-B-2-2 Ditch has been completed. The summary report will be issued in the spring.

- ▶ Complete three year field testing activities, including demobilization and interim report
Activity changed to "Continue Barrier Monitoring Activities at a reduced level". This revised activity is on schedule.

200 Area NPL Common

- ▶ Issue Draft A of 200 Area Strategy Implementation Plan

Draft A of the 200 Area Strategy Implementation Plan is on schedule to complete in August.

- ▶ Initiate LFI Work Plans for 200 Area Characterization

- ▶ Issue 100-D Ponds Closure Plan

The 100-D Ponds Closure Plan was submitted to DOE-RL in March.

100-N Area

- ▶ Respond to agencies 100-NR-1 TSD and 100-NR-1 & 2 CMSS/PP comments

Complete.

- ▶ Assist in issuance of 100-N Facilities EE/CA Action Memorandum

EE/CA support is ongoing.

- ▶ Assist in issuance of 100-NR-1 & 2, and 100-NR-1 TSD RODs

ROD support is ongoing.

100 Area Remediation

- ▶ Remove 386K tons of waste from 100 Area waste sites.

Revised to 508K tons removed for FY98.

Excavated

- ▶ 116-C-5 Retention Basin
Base volume complete, plumes encountered.

- ▶ Planned to complete 2nd half of FY98.

116-B-13 South Sludge Trench

116-B-14 North Sludge Trench

116-D-7 Retention Basin

This activity has been deleted from FY98 (BCP 98-009).

FY97 Carryover

- ▶ Continue 200 Area Implementation Plan
The carryover portion has been completed.

- ▶ Continue 200 Area Barrier Testing
This activity has changed to "Continue 200-CW-1 Borehole Sampling". The carryover portion of the borehole sampling was completed in October.

300-FF-1

- ▶ 316-5 Trench (300 Area Process Trenches)
Complete.

- ▶ 618-4 Burial Ground
Planned to complete 2nd half of FY98.

- ▶ 300-49 Dumping area (Landfill 1A)
Planned to complete 2nd half of FY98.

- ▶ 116-B-1 Process Effluent Trench
Deferred until 2nd half of FY98

In Process

- ▶ 116-B-11 Retention Basin
Planned to complete 2nd half of FY98. Replaced pipelines.

- ▶ 100-B-8 Pipelines (100-BC Pipelines)
Deferred until FY99.

- ▶ 100-C-6 Pipelines (100-BC Pipelines)
Deferred until FY99.

- ▶ 116-DR-9 Retention Basin
Progressing on schedule.

FY97 Carryover

- ▶ Complete Backfill of 116-C-1
Planned to complete 2nd half of FY98.

- ▶ Complete Excavation of 116-C-5
Base volume complete.

- ▶ Excavate 116-B-1
Deferred until 2nd half of FY98.

- ▶ Excavate 2900 LF North Process Pipelines
Deferred until FY99.

- ▶ 300-50 Dumping area (Landfill 1B)
Deferred until FY99.

- ▶ 628-4 Burn Pit (Landfill 1D)

Base excavation complete. Lead issues need to be resolved. Planned to complete 2nd half of FY98.

- ▶ Complete RCRA Certification closure of Process Trenches
Planned to complete 2nd half of FY98.

- ▶ Complete 618-4 Burial Ground 618-4 Excavation Report
Planned to complete 2nd half of FY98.

- ▶ Complete two rounds of groundwater sampling
Round one of the groundwater sampling will complete in early April 1998. Round two will begin in July, with a September completion.

ERDF

- ▶ Receive 621K tons of contaminated soil, debris, and miscellaneous material.

Revised to 614K tons for FY98. 299K tons completed to date.

- ▶ Transportation of waste totals 10.9M ton miles.

Revised to 9.3M ton miles. 3.5M ton miles to date.

ERDF Expansion

- ▶ Clearing and Grubbing

Clearing complete in February 1998. Water, electrical, and fencing to complete in May 1998.

- ▶ Complete ERDF expansion design for cells 3 & 4

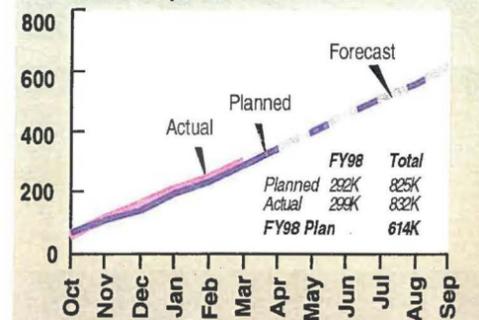
ERDF expansion design completed in February 1998.

- ▶ Begin construction of cells 3 & 4

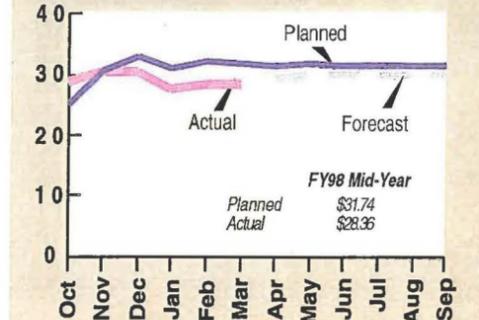
Construction of Cells 3 & 4 to start in September 1998.

EFDF

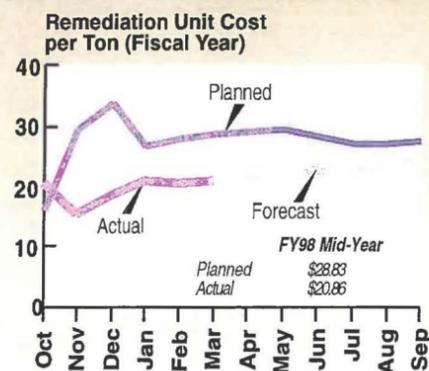
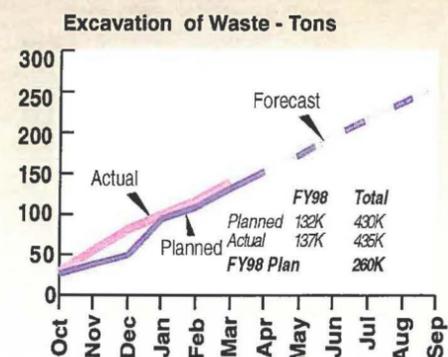
Waste Disposed - Tons



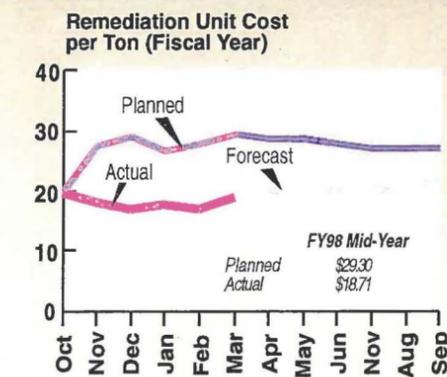
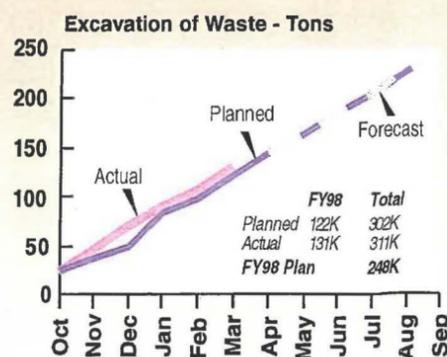
Waste Disposal and Transportation Costs per Ton (Fiscal Year)



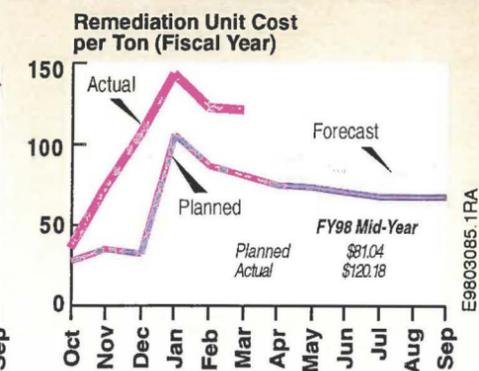
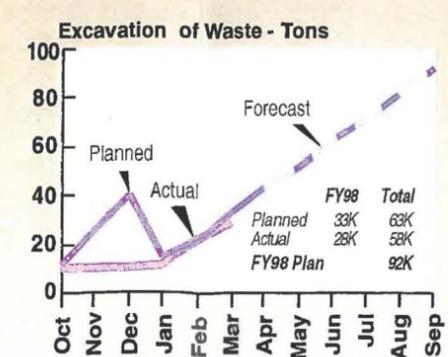
100-BC Remediation



100-DR Remediation

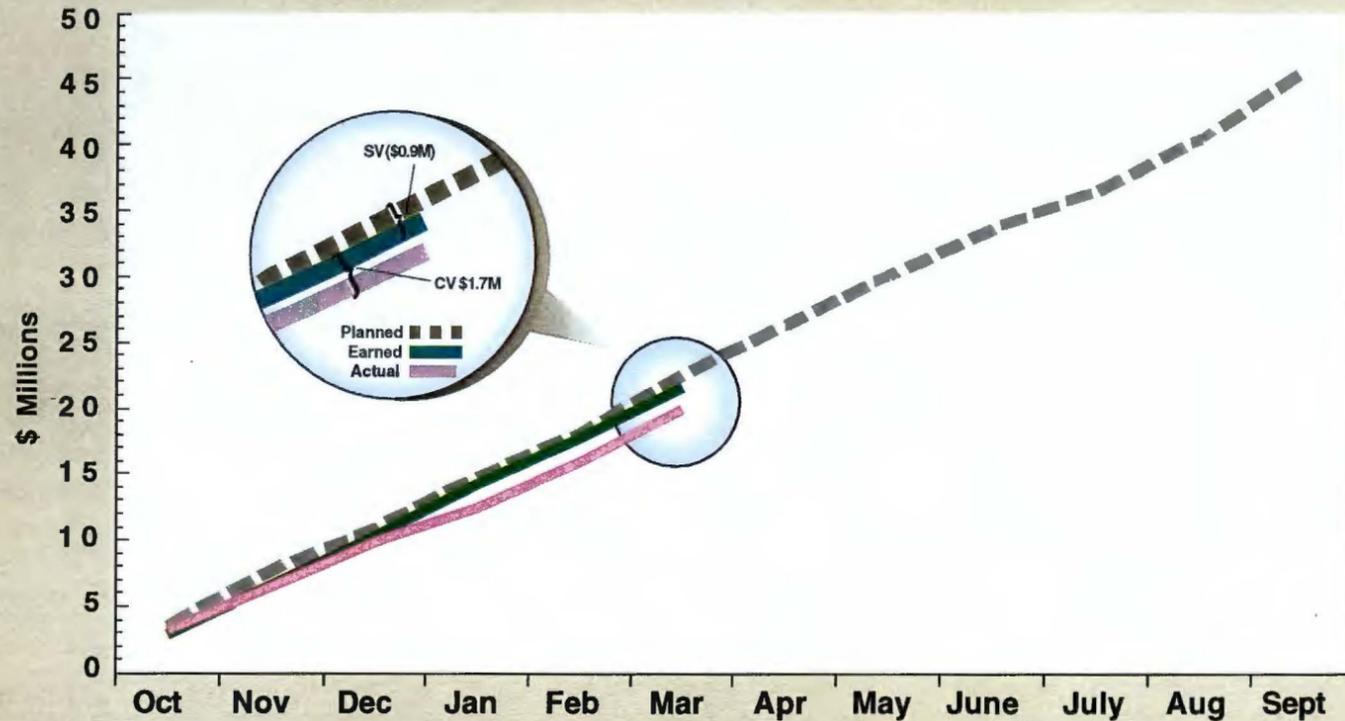


300 FF Remediation



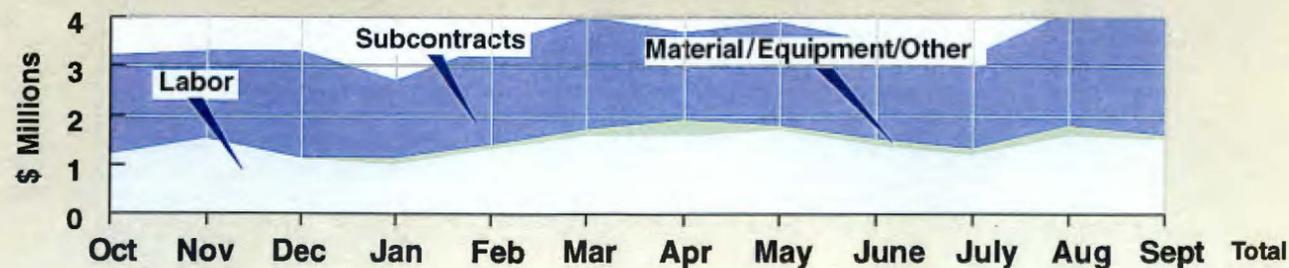
Remedial Action & Waste Disposal Project

FY98 Project Performance (Cumulative)



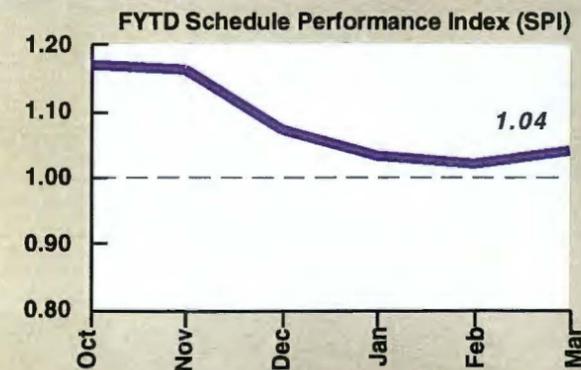
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
BCWS (Planned)	3.4	7.8	11.0	14.7	18.1	22.5	26.3	30.2	33.6	36.6	40.5	45.7
BCWP (Earned)	2.9	6.7	10.3	14.3	17.8	21.6	-	-	-	-	-	-
ACWP (Actual)	3.2	6.5	9.8	12.5	15.9	19.9	-	-	-	-	-	-

FY98 Expenditures (Monthly)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Total
Labor	1.2	1.5	1.1	1.0	1.3	1.6	1.6	1.7	1.4	1.2	1.6	1.5	16.7
Mat/Equip/Other	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.2	0.1	1.2
Sub-contracts	2.0	1.8	2.2	1.6	2.0	2.3	1.8	2.1	2.0	1.9	2.3	4.8	26.8
Total (EAC)	3.2	3.3	3.3	2.7	3.4	4.0	3.7	3.9	3.5	3.2	4.1	6.4	44.7

Schedule Performance



Schedule Variance (SV)

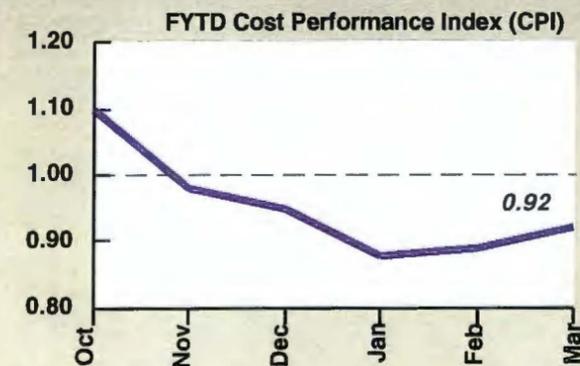
Behind Schedule

- Additional plumes were discovered at the B/C & D Area remediation sites.

Ahead of Schedule

- Waste disposal and transportation tons exceed baseline estimate due to favorable weather.

Cost Performance



Cost Variance (CV)

Cost Underruns

- Labor and subcontracting efficiencies at B/C & D Area remediation sites.
- Reduction in sampling requirements.
- Savings in waste disposal liner purchases and lower transportation cost.

Cost Overruns

- 300 Area Remediation cost increased due to discovery of waste volumes and types outside the original waste profile.

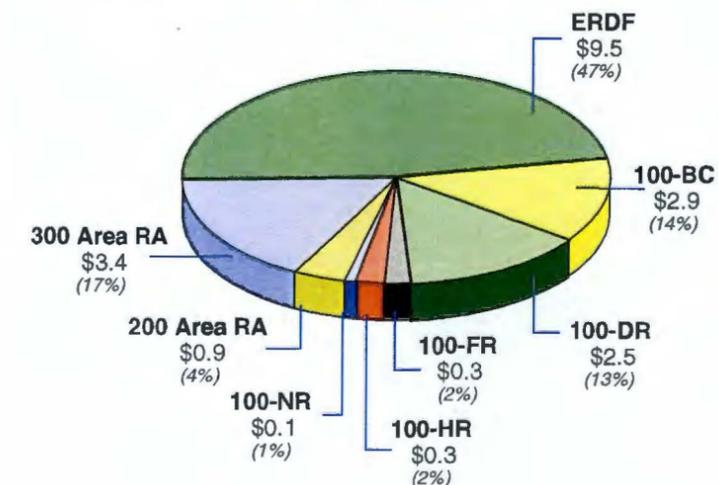
Remedial Action Issues

Issues

► The discovery of additional plumes and unexpected drummed waste types at the 300 Area remediation site has slowed production considerably. Several Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones will need to be resequenced. Stabilization, treatment, and disposal of these drummed wastes are out of planned ER Project work scope, and will require additional funding.

► Elevated levels of lead have been detected in routine samples of waste shipped from the 300 Area 618-4 burial ground. Additional analysis and new field screening criteria will need to be established before bulk shipments resume. These excavated coils cannot be disposed of at the ERDF until a plan for further characterization/treatment/disposal is developed. If treatment is required, additional funds will be required.

Subproject Actual Costs to Date (Project Total \$19.9 Million)



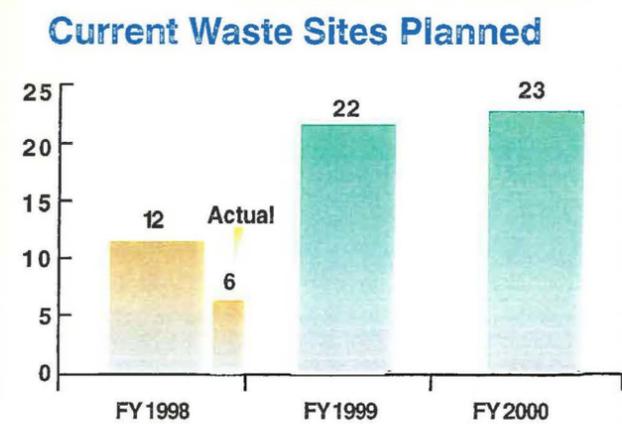
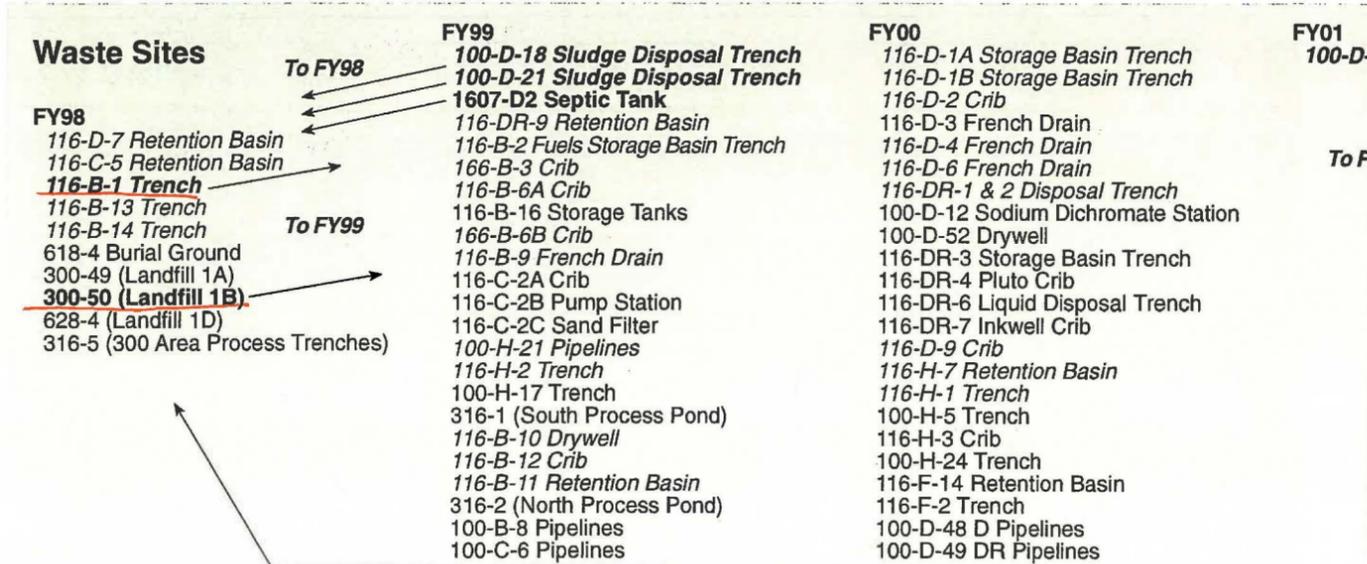
Remedial Action & Waste Disposal Project

FY98 Performance Measures—Milestone Summary

Milestone	Description	DWP Due Date	Current Baseline Due Date	Forecast (F) Actual (A) Date	Comments
Original Waste Sites					
FY98-PM-R11	Complete excavation of (316-5) 300 Area Process Trenches	10/07/97	02/03/98	02/03/98 (A)	Completed on schedule. Base excavation completed on schedule; additional plumes delayed closure.
FY98-PM-R07	Complete excavation of (618-4) Burial Ground 300-FF-1 OU	12/31/97	06/17/98	06/09/98 (F)	Remediation was re-planned due to wastes outside original profile.
FY98-PM-R02	Complete excavation of the 116-C-5 Retention Basin	12/31/97	03/25/98	TBD	Base excavation completed 02/25/98 on schedule; additional plume will delay final completion.
FY98-PM-R08	Complete excavation of (300-49) Landfill 1A 300-FF-1 OU	01/31/98	09/30/98	09/22/98 (F)	Landfills 1A, 1B, and 1D replanned due to high contamination levels.
FY98-PM-R09	Complete excavation of (300-50) Landfill 1B 300-FF-1 OU	02/28/98	12/03/98	11/23/98	Resequenced to FY99.
FY98-PM-R05	Complete excavation of 116-B-14 Trench	02/28/98	03/31/98	08/31/98 (F)	Resequenced the waste excavations after removal of pipeline excavation from current contract.
FY98-PM-04	Complete excavation of 116-B-13 Trench	02/28/98	09/30/98	09/30/98 (F)	Resequenced the waste excavations after removal of pipeline excavation from current contract.
FY98-PM-R10	Complete excavation of (628-4) Landfill 1D 300-FF-1 OU	03/15/98	01/26/98	01/26/98 (A)	Completed ahead of schedule. Landfills 1A and 1B replanned due to high contamination levels.
FY98-PM-R01	Complete excavation of 116-D-7 Retention Basin	03/31/98	09/30/98	09/30/98 (F)	Resequenced the excavation completion to the end of FY98.
FY98-PM-R03	Complete excavation of <u>116-B-1 Trench</u>	06/15/98	04/30/99	11/09/98	Resequenced to FY99 due to discovery of additional plume at other waste sites.
Added Waste Sites					
FY98-PM-R14	Complete excavation of 1607-D2 Septic Tank Drain Field	09/30/99	02/27/98	02/27/98 (A)	Completed on schedule. Waste site resequenced from FY99 to FY98.
FY98-PM-R15	Complete excavation of 100-D-21 Sludge Pit (formerly 107-D-2)	09/30/99	03/14/98	03/17/98 (A)	Completed ahead of schedule. Waste site resequenced from FY99 to FY98.
FY98-PM-R13	Complete excavation of 100-D-20 Sludge Pit (formerly 107-D-3)	09/30/01	03/31/98	03/31/98 (A)	Completed on schedule. Waste site resequenced from FY01 to FY98.
FY98-PM-R12	Complete excavation of 100-D-18 Sludge Pit (formerly 107-D-4)	09/30/99	04/15/98	03/10/98 (A)	Completed ahead of schedule. Waste site resequenced from FY99 to FY98.



FY98 Performance Measures Status Thru March	9	7	6(A); 6(F)
FY98 DWP vs. Current Baseline Totals	10	12	



Cleanup of Contaminated Soils



100 DR Area

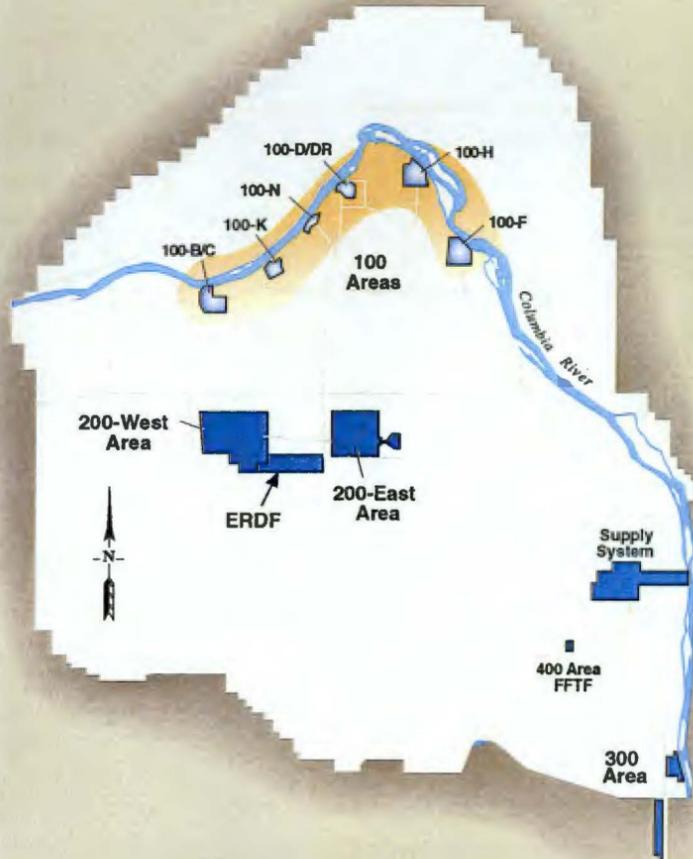
100 B/C Area



300 Area



Groundwater Management



Action Plan

100 Area

- ▶ Operate Pump and Treat systems at 100-HR-3, 100-KR-4, and 100-NR-2, including performance monitoring. *Ongoing*
- ▶ 100 Area Investigation Derived Waste. *Ongoing*
- ▶ Minor subcontract work for 100-HR-3-KR-4. *Complete*
- ▶ Complete 100-NR-2 Proposed Plan by incorporating with Remedial Action Waste Disposal Plan. *Complete*

200 Area

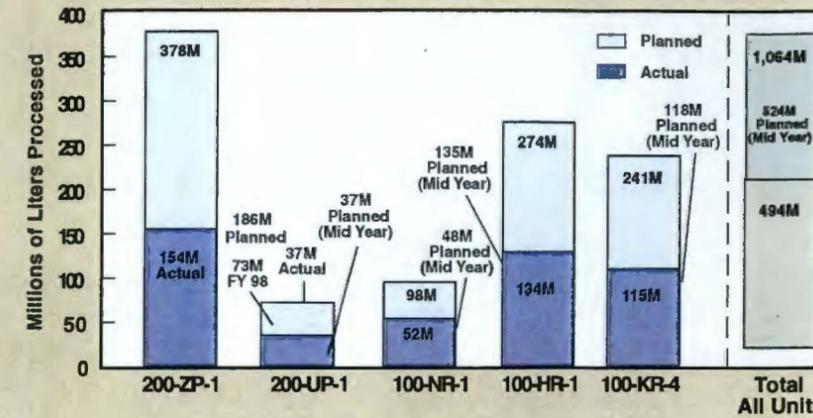
- ▶ Operate Pump and Treat systems for 200-ZP-1 and 200-UP-1, including performance monitoring. *Ongoing*
- ▶ Operate Vapor Extraction System at 200-ZP-2 including performance monitoring. *Second half of FY98*
- ▶ Disposal of 200 Area Investigation Derived Waste. *Ongoing*

Other Groundwater Work

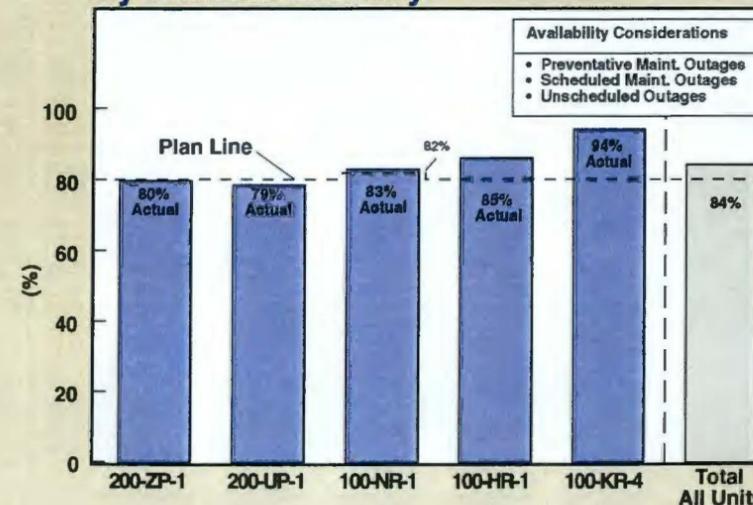
- ▶ Complete Columbia River Comprehensive Impact Screening Assessment Final Report. *Complete*
- ▶ Complete Columbia River Shoreline Porewater Drive Point Installation. *Complete*
- ▶ Manage site-wide groundwater work scope to ensure groundwater is being contained, and to maintain compliance with CERCLA and RCRA requirements as implemented through the Tri-Party Agreement. *Ongoing*



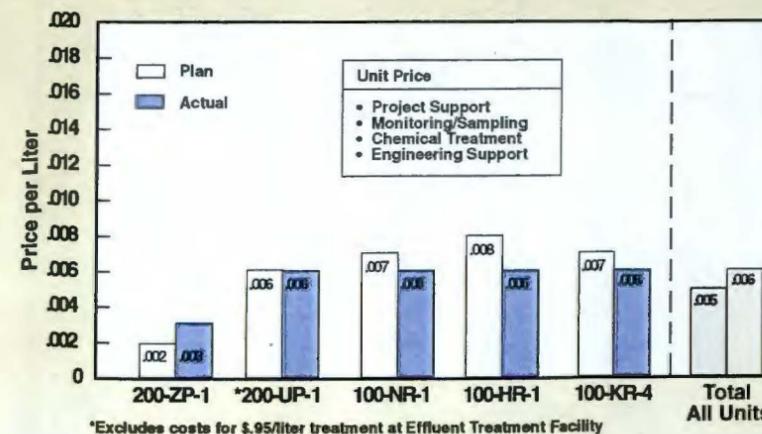
FY98 Groundwater Processed (Actual through March 31)



Groundwater Pump & Treat Units System Availability

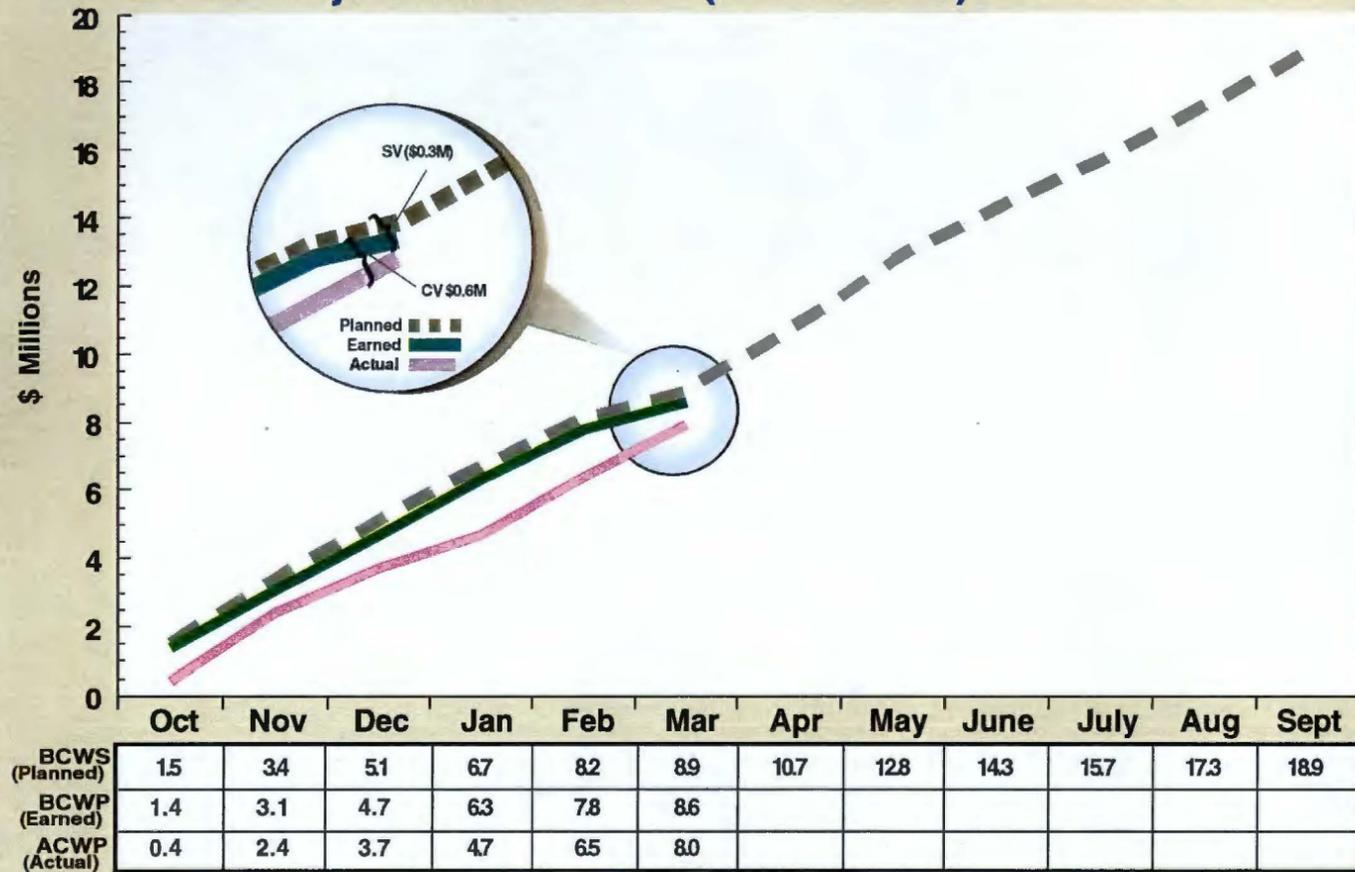


Groundwater Processing Unit Price Per Liter

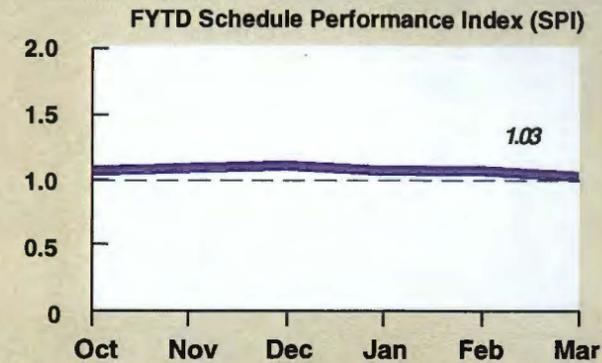


Groundwater Management

FY98 Project Performance (Cumulative)



Schedule Performance

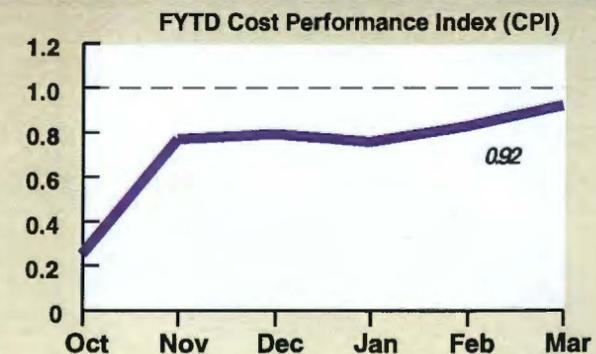


Schedule Variance (SV)

Behind Schedule

- Technical planning on groundwater monitoring deferred to second half of FY98.

Cost Performance



Cost Variance (CV)

Cost Underruns

- Savings in 100-ZP-2 Vapor Extraction unit upgrades.
- Efficiency savings in groundwater sampling, collecting, and data evaluation.
- Labor efficiencies and design optimization.

Cost Overruns

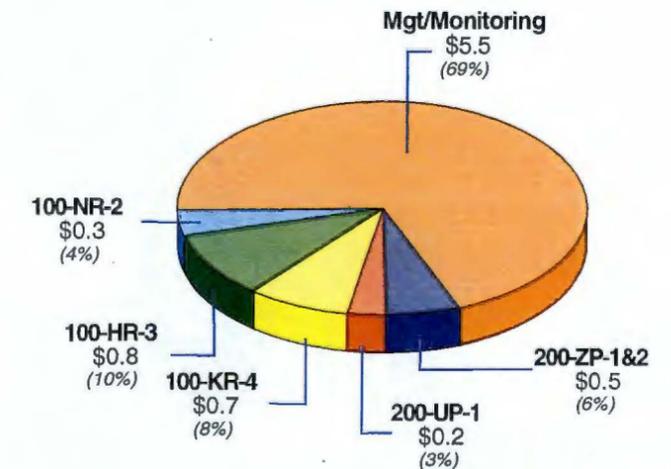
- Several small dollar overruns relating to project support labor and vendor engineering expenditures.

Groundwater Issues

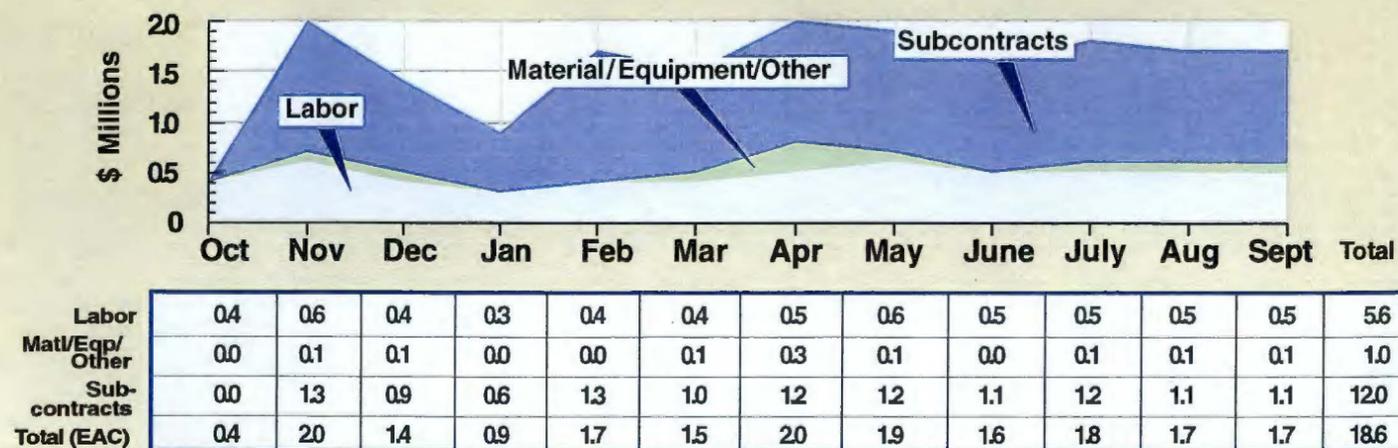
Issues

- ▶ Disposal of organic/carbonaceous waste is currently not permitted at the ERDF due to regulatory requirements.
A site-wide petition is under review by the regulators. All waste impacted by this issue must continue to be stored and monitored until a final determination is made.

Subproject Actual Costs To Date (Project Total \$8 Million)



FY98 Expenditures (Monthly)



Groundwater/Vadose Zone Integration Project



Phases

Phase I

Pre-Planning—Develop the planning approach for management and integration of the Hanford Site vadose zone and groundwater programs.

Phase II

Integration and Formulation— Evaluate existing Hanford Site programs; identify existing data gaps; define the needs, goals, and objectives for an effective new program; set the near-term and long-range priorities for the program; prepare a cohesive plan that reflects this information.

Phase III

Implementation—Carry out detailed work plans for priority activities in FY 99; refine plans as appropriate.

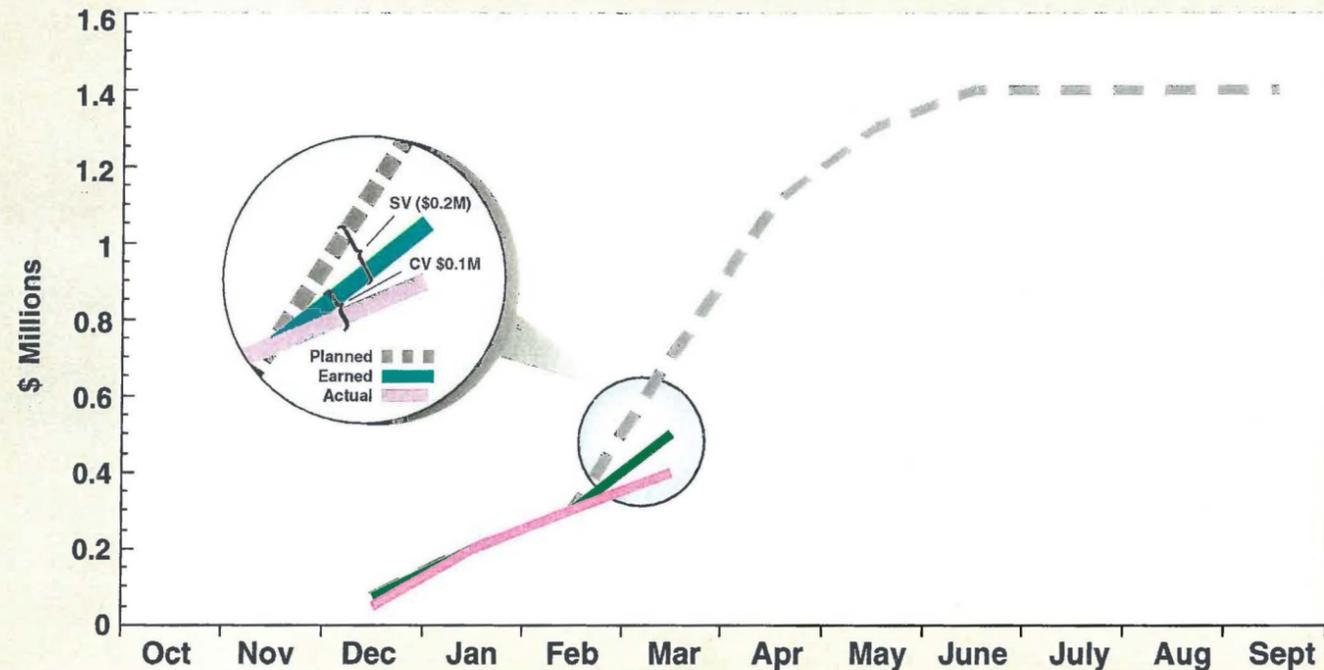
Action Plan

FY98

- ▶ Submit a plan to DOE-RL by 2/13/98 that will outline preparation of a Project Specification Plan, a Project Management Plan, the Cost and Schedule Baseline and the Public Involvement Plan.
Plan was submitted to DOE-RL on 2/13/98.
- ▶ Meetings with stakeholders, contractors, Tribal Nations and regulators to discuss issues and the need for participation by these groups.
Initial meeting scheduled for 4/14.
- ▶ Meetings to discuss the approach to the project with DOE-RL, PHMC, and PNNL. Co-locate the integrated project team.
An integrated team of BHI, PNNL and FDH has been formed and co-located. Definition of roles and responsibilities is an ongoing activity.
- ▶ Support Undersecretary Moniz's visit to Hanford
Completed. Presentations and support were provided.
- ▶ Create a detailed logic-driven schedule that depicts how the project will proceed.
Completed. The detailed schedule has been created and forms the baseline for the project.
- ▶ Develop Initial Baseline/Long Range Plan.
Work scope formulation meetings are being held with Hanford projects personnel to support the preparation of GW/VZ project baseline and Long Range Plan.
- ▶ Develop FY99-FY01 Detailed Work Plan by September 30, 1998.

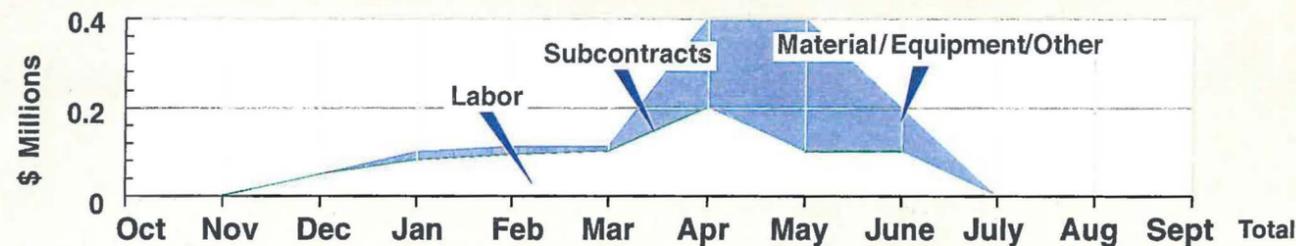
Groundwater/Vadose Zone Project

FY98 Project Performance (Cumulative)



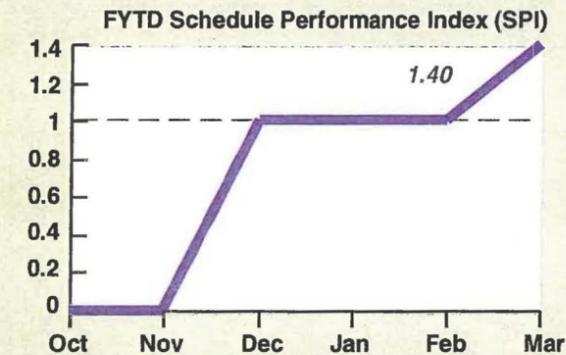
BCWS (Planned)	-	-	0.07	0.2	0.3	0.7	1.1	1.3	1.4	1.4	1.4	1.4
BCWP (Earned)	-	-	0.07	0.2	0.3	0.5						
ACWP (Actual)	-	-	0.05	0.2	0.3	0.4						

FY98 Expenditures (Monthly)



Labor	0.0	0.00	0.05	0.08	0.09	0.10	0.2	0.1	0.1	0.0	0.0	0.0	0.72
Mat/Equip/Other	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Sub-contracts	0.0	0.00	0.00	0.02	0.03	0.01	0.2	0.3	0.1	0.0	0.0	0.0	0.66
Total (EAC)	0.0	0.00	0.05	0.10	0.12	0.11	0.4	0.4	0.2	0.0	0.0	0.0	1.38

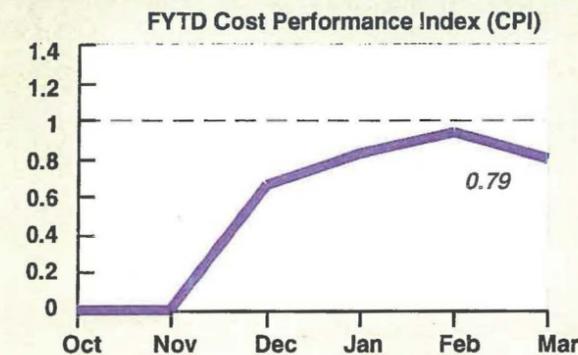
Schedule Performance



Schedule Variance (SV)

No items to report.

Cost Performance



Cost Variance (CV)

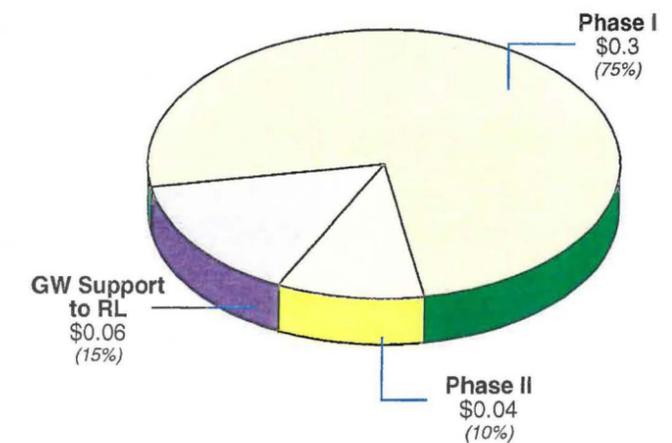
No items to report.

Groundwater/Vadose Zone Project Issues

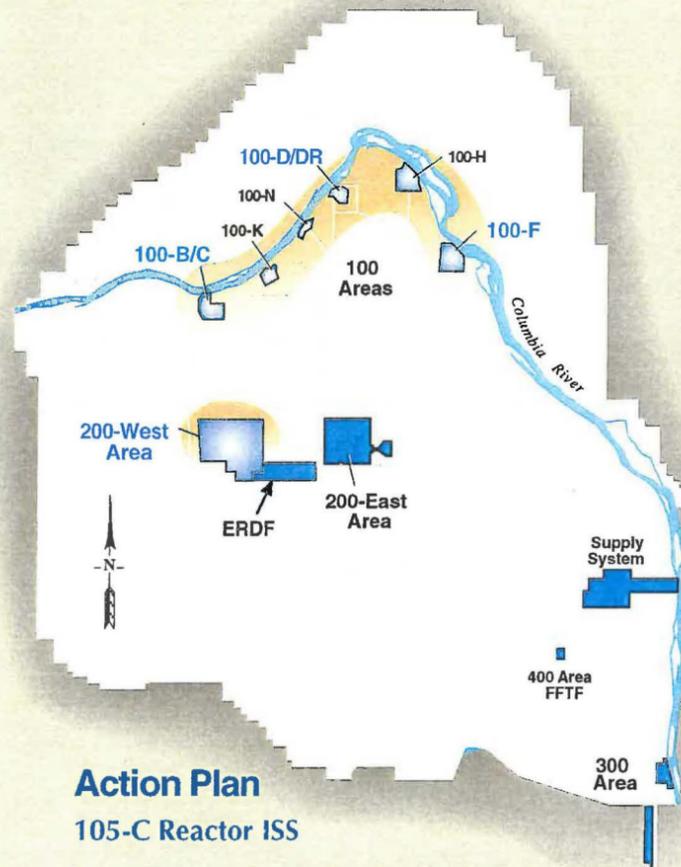
Issues

- Limited funding was authorized for the Groundwater/Vadose Zone project to date. Current funding will be depleted in late May. Additional funding has been requested to continue Groundwater/Vadose Zone integration work through FY98.

Subproject Actual Costs To Date (Project Total \$0.4 Million)



Decontamination & Decommissioning



Action Plan

105-C Reactor ISS

- ▶ Complete Interim Safe Storage of 105-C Reactor
 - Completed Demolition of North East/South East Reactor, Outer Rod Room Above Grade, North East Sample Room Completed all Asbestos Abatement; all Equipment and Material removed*
 - Completed 8 of 9 Technology Demonstrations*
 - Completed Sampling of Concrete & Soil from the Fuel Storage Basin*
 - Completed SSE Roofing System Design*
 - Completed all Roof Removal by SSE Subcontractor and Continued Demolition of the Upper Reactor*
 - Issued SAP Rev. 0 to DOE/EPA for Approval*

105-F /105-DR Reactor ISS

- ▶ All FY98 Work was Accelerated from FY00
 - Initiated ISS Characterization & Design Activities, TPA Milestones M-93-07 for F Reactor & M-93-13 for DR Reactor*
 - Submitted ASA/FHC Decisional Drafts to DOE for Review (PBCI Item)*
 - Submitted Draft EE/CA to DOE & EPA for Review*
 - Completed Phase I DQO Scoping Document & Design Workbook. Conducted External Review Meeting with Regulators*
 - Initiated Hazardous Material Collection at 105-F and DR.*
 - Initiated Asbestos Abatement Activities at 105-F and DR.*



Completed Field Inspections, Estimates, & Plans to Support the Development of the FY98 DWP (PBCI Item). Received RMT Approval for the Balance of FY98 Funds.

Initiated Formal Transfer of the DR Ancillary Facilities from B&W/FDNW (Sodium Burn Facility & Other) to the ERC.

Completed Procedural Requirements to Transfer Facility Responsibility from the ERC S&M Program to the ERC D&D Program.

Completed Site Mobilization Activities to Support FY98 Work Scope (PBCI Item)

Completed Health & Safety Plans

Initiated and Completed F and DR Reactors Radiological Scoping Surveys in all RBA Areas

Initiated F & DR Reactor Radiological Scoping Surveys in Contaminated (CA's) Areas

Initiated F Reactor Biological Cleanup (First Direct Work Activity, TPA Milestone M-93-09)

Additional Accomplishments:

- Initiated Hazardous Material Collection at 105-F and DR.*
- Initiated Asbestos Abatement Activities at 105-F and DR.*

Balance of D&D

- ▶ **118-C-4:**
 - ▶ Complete Horizontal Rod Cave 118-C-4 Safety Evaluation
 - Completed 100% of Project Scope (Characterization)*
 - Issued Final Characterization Report I*

111-B:

- ▶ Completed concrete tank characterizations.

108-F Biology Laboratory:

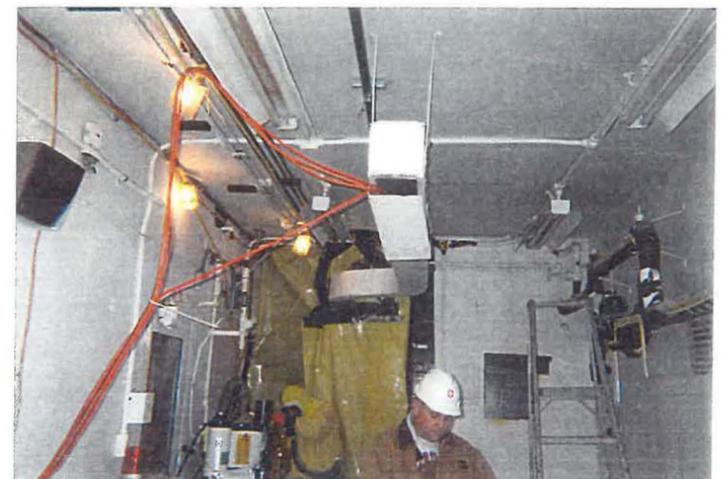
- ▶ Continue D&D of 108-F Biology Laboratory (through 12/97)
 - D&D performed through 12/97; further work deferred due to limited funding*

233-S Facility

- ▶ Continue D&D of 233S Plutonium Concentration Facility
 - Completed Removal of all Equipment, Asbestos & Inactive Conduit from the Equipment Room, SWP Change Lobby, & Lavatory. Area released from Asbestos Status & Reposted to RBA Status*
 - EPA Approved the 233-S Sampling & Analysis Plan (Rev. 0)*
 - Completed Removal of all Electrical Components & Conduit from the Non-Process Pipe Gallery*
 - Completed Loadout Hood & Pipe Trench Work Package. This Allowed for the Closure of Over 90% of the Operational Readiness Review (ORR) Pre-Start Items*
 - Completed the Project Management Assessment in Preparation for the ORR.*

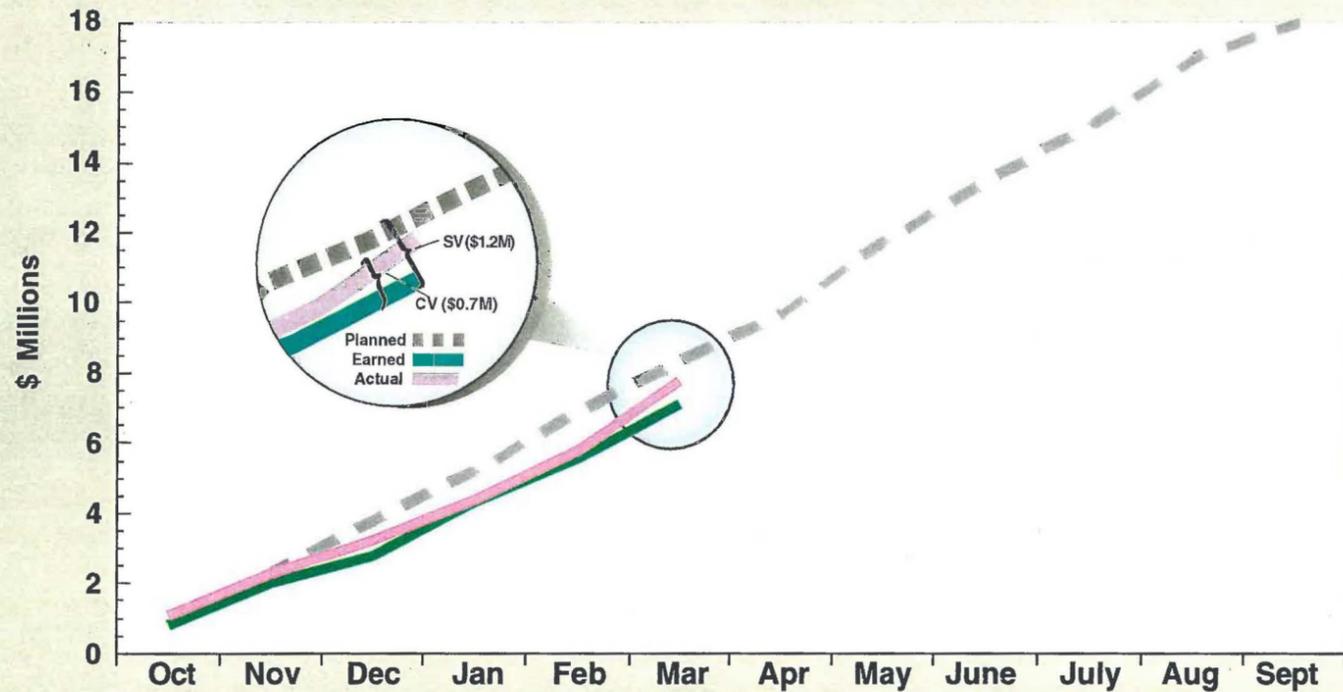
Other D&D Work

- ▶ Commence Historic al Building Mitigative Project
 - In progress*
- ▶ Continue Canyon Strategy Initiatives
 - In progress*



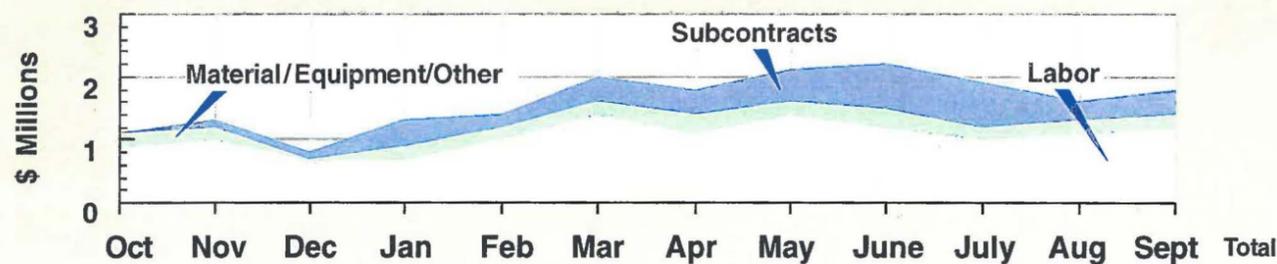
Decontamination & Decommissioning

FY98 Project Performance (Cumulative)



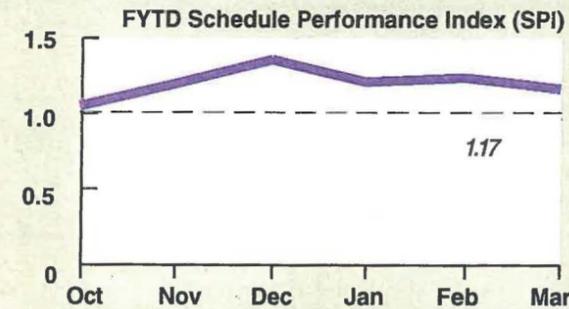
BCWS (Planned)	0.8	2.3	3.8	5.2	6.9	8.3	9.7	11.8	13.5	15.1	17.0	18.0
BCWP (Earned)	0.8	2.0	2.8	4.3	5.6	7.1	-	-	-	-	-	-
ACWP (Actual)	1.1	2.3	3.2	4.4	5.8	7.8	-	-	-	-	-	-

FY98 Expenditures (Monthly)



Labor	0.9	1.0	0.7	0.7	1.0	1.4	1.1	1.4	1.2	1.0	1.1	1.2	12.7
Matt/Equip/Other	0.2	0.2	0.0	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	2.4
Sub-contracts	0.0	0.1	0.1	0.4	0.2	0.4	0.4	0.5	0.7	0.7	0.3	0.4	4.2
Total (EAC)	1.1	1.3	0.8	1.3	1.4	2.0	1.8	2.1	2.2	1.9	1.6	1.8	19.3

Schedule Performance



Schedule Variance (SV)

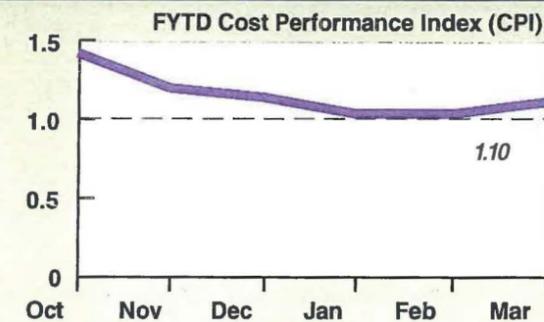
Behind Schedule

- Delay in the start of 105-C Fuel Storage Basin demolitions, surveys for RESRAD have been delayed.
- More work than expected caused delays in performing the Operational Readiness Review of the 233-S Plutonium Concentration Facility.

Ahead of Schedule

- Technology demonstrations at C Reactor ISS.

Cost Performance



Cost Variance (CV)

Cost Underruns

- Technology demonstrations savings.

Cost Overruns

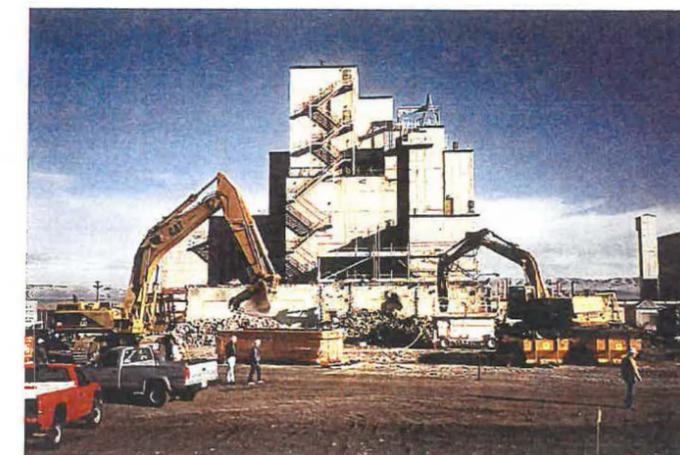
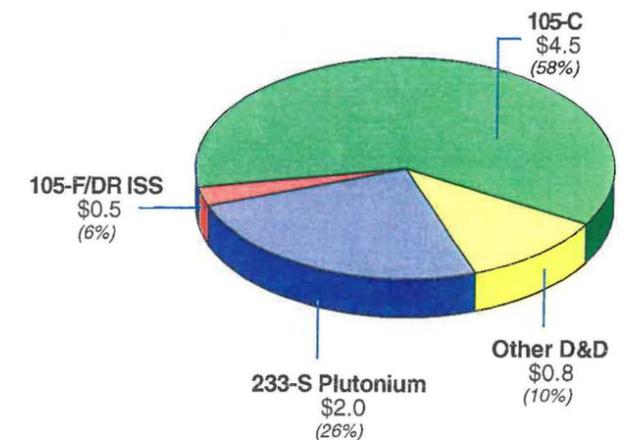
- Heavy equipment costs for 105-C Reactor demolition is trending greater than budgeted.
- Higher than expected contamination levels in the 105-C Inner Rod Room resulted in additional demolition costs.
- Sampling and analysis costs at the C Reactor ISS project were higher than expected.
- Additional costs incurred at 233-S due to elevated derived air concentrations, discovery of acid, and more extensive ORR requirements.

Decontamination and Decommissioning Project Issues

Issues

- ▶ More extensive work preparing the 233-S Plutonium Concentration Facility Operational Readiness Assessment, plus conditions such as higher radiation concentrations and acid discovery, have delayed original project milestones.

Subproject Actual Costs to Date (Project Total \$7.8 Million)



C Reactor Interim Safe Storage Project

Progress - March 1998

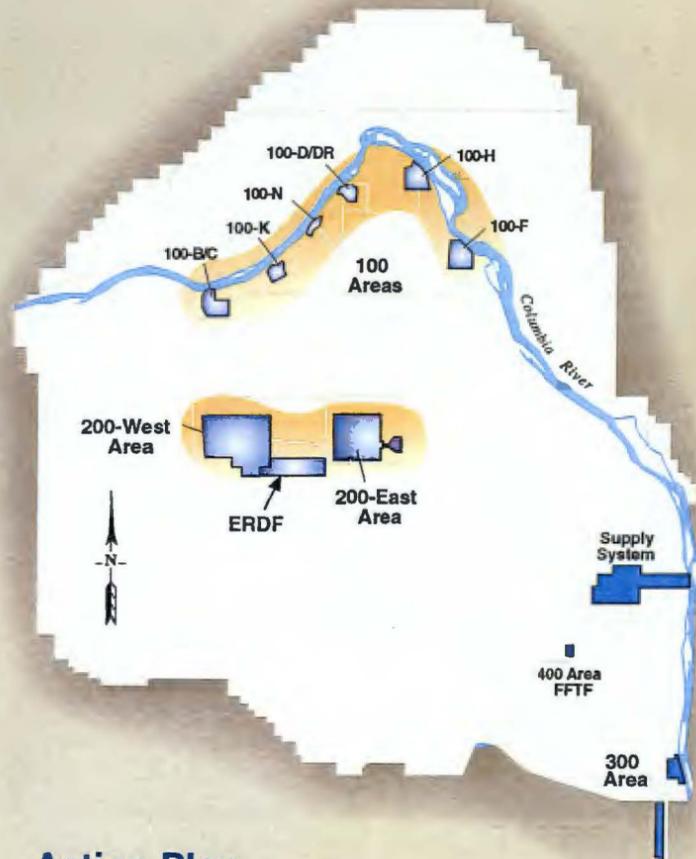


C Reactor in 1996



Completed Project, September 1998

Surveillance/Maintenance and Transition Project



Action Plan

FY98

- ▶ Commence S&M of the PUREX complex (~50 buildings).
Commenced surveillances and instrument calibrations at the PUREX complex
- ▶ Commence S&M of the 308 Building
Commenced S&M activities of the 308 Building
- ▶ Complete RARA stabilization (B/C Control Area DQO process, Railroad Cuts at REDOX, Glass Dump at 120-F, and Brine Pit at 100-KW, 107-H Basin Restabilization, 100 KE/KW Floodplain Fencing).
Completed RARA stabilization at REDOX 107-H Basin and 120-F Glass Dump. B/C Control Area DQO process, Brine pit at 100-KW and UN-216-W9 stabilizations, and 100 KE/KW Floodplain Fencing to be completed (Pre-engineering has started on both stabilization projects).
- ▶ Complete the following 100 Area Risk Assessment Corrective Actions (163-N Acid/Caustic line Removal,



Emergency Dump Tank Asbestos Removal, 105-KE/KW Electrical Repairs).

Completed 105 KE/KW Electrical Repairs. Corrective Actions (163-N Acid/Caustic Line Removal, and 1304-N Emergency Dump Tank asbestos removal to be completed [Work package preparation is complete]).

- ▶ Continue S&M of 100 & 200 Area inactive facilities.
Continued S&M of 100 & 200 Area inactive facilities
- ▶ Continue RARA surveillance, monitoring and herbicide activities.
Continued RARA surveillance, monitoring and herbicide activities (Awarded contract for herbicide application).
- ▶ Continue long term post-remediation surveillance and monitoring.
Commenced vegetation monitoring at North Slope and Horn Rapids Landfill.
- ▶ Complete transition of B Plant Complex (~35 buildings).
Completed transition of B Plant Complex (897 of 1,785 end points verified).
- ▶ Configuration control at REDOX.
Commenced correcting drawings for REDOX (14 completed out of 94) and walkdowns for electrical systems.



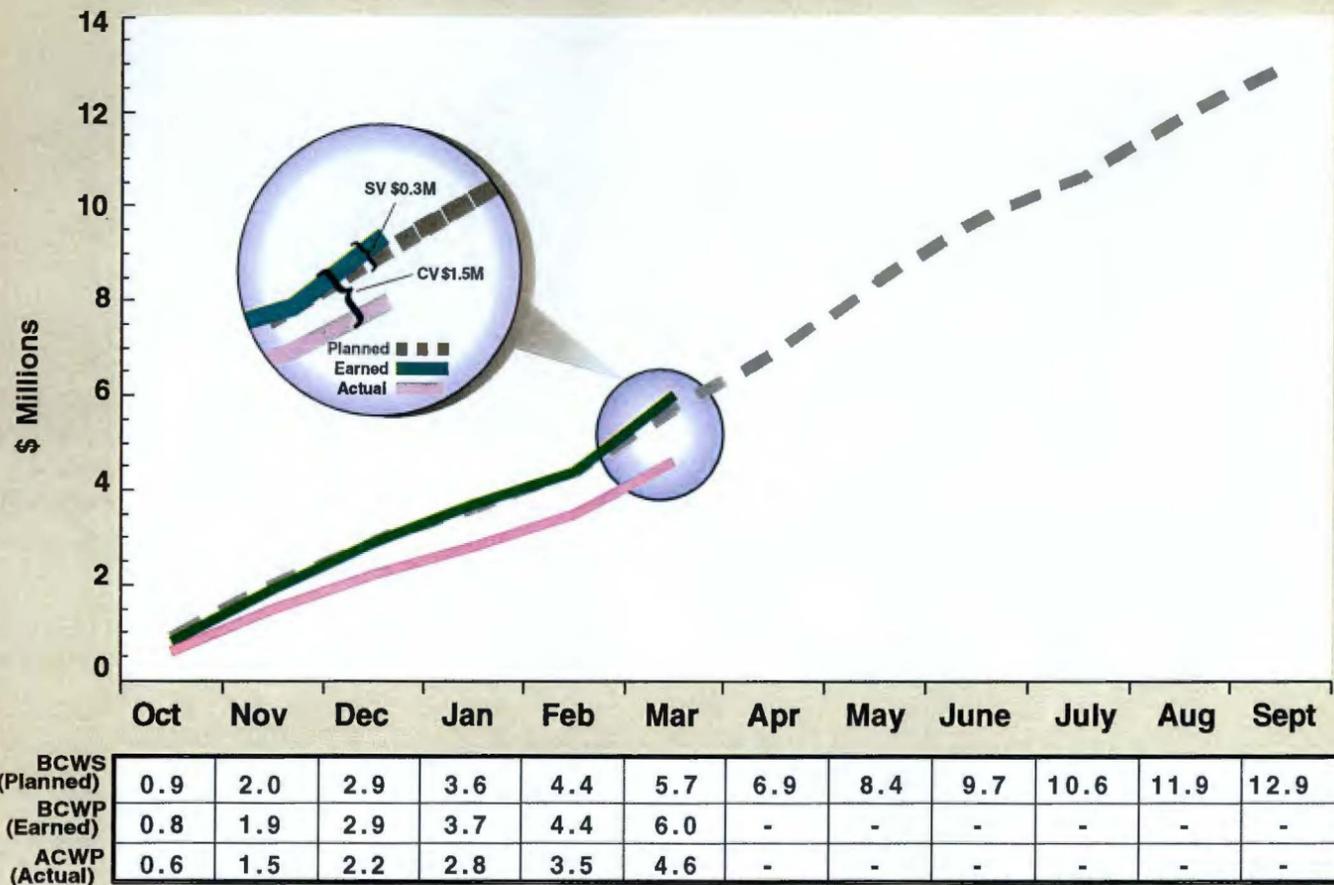
- ▶ Complete characterization of 202-S Pu Loadout Hood.
Completed draft work instructions, sampling instructions, air sampling assessment and Readiness Assessment Plan.
- ▶ Complete graded SARs for REDOX, U Plant, and 224-B.
Completed comment disposition for the REDOX graded SAR.
- ▶ Commence Chemical Management System Plan.
Developed draft of IMUST (Inactive Miscellaneous Underground Storage Tanks) strategy plan.

- ▶ Complete S&M Program Plan.
Completed draft of S&M Program Plan and received functional department comments.
 - ▶ Update Risk Assessment Report.
Risk Assessment Report to be completed.
- Additional Work Scope**
- ▶ Commenced walkdowns of 256 high priority sites.

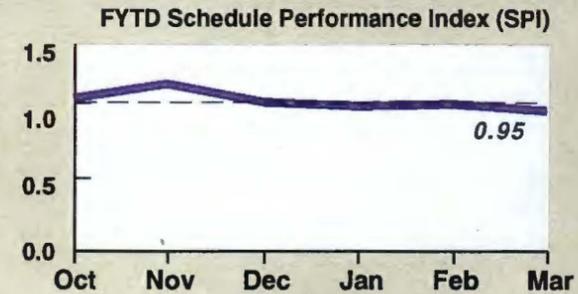


Surveillance/Maintenance and Transition Project

FY98 Project Performance (Cumulative)



Schedule Performance



Schedule Variance (SV)

Behind Schedule

- 1304 Emergency Dump Tank Asbestos Abatement due to resources supporting N-Basin completion.

Ahead of Schedule

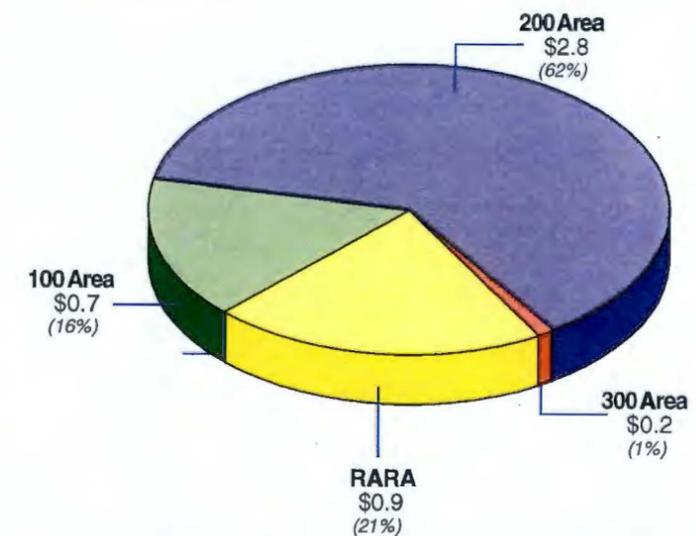
- Reactor Preliminary Hazard Analysis (PHA) completed ahead of schedule.
- Completed 107-H basin stabilization and commenced UN-216-W9 ahead of schedule.
- Tri-annual surveillance of 200 and 600 Areas completed ahead of schedule.
- Completed REDOX Plutonium Loadout Hood Readiness Assessment Plan ahead of schedule.

Surveillance/Maintenance and Transition Issues

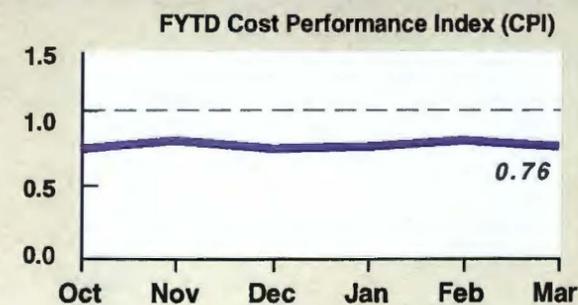
Issues

- ▶ None to report

Subproject Actual Costs To Date (Project Total \$4.6 Million)



Cost Performance

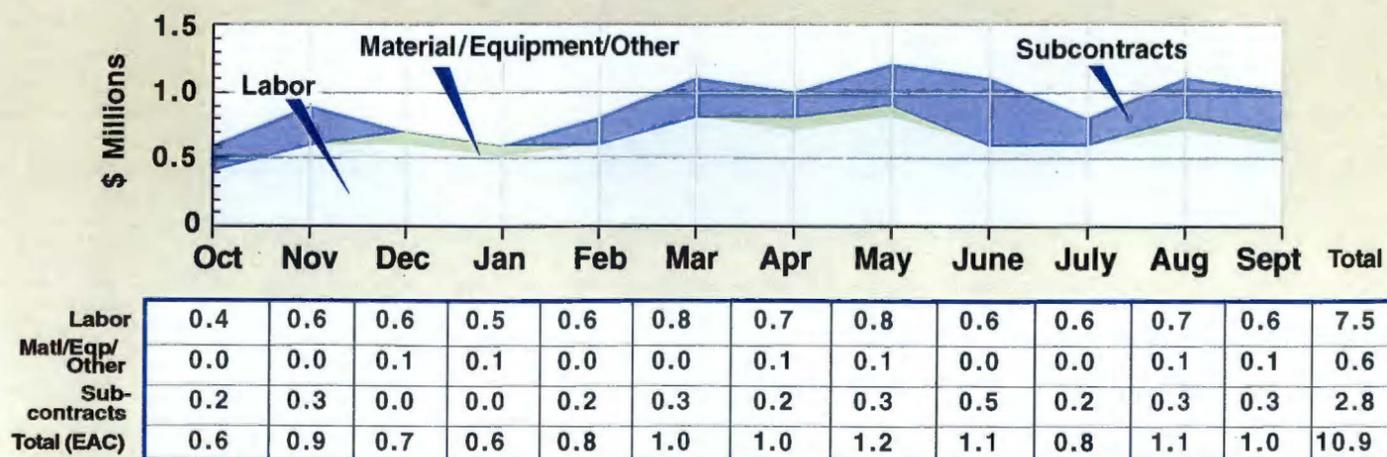


Cost Variance (CV)

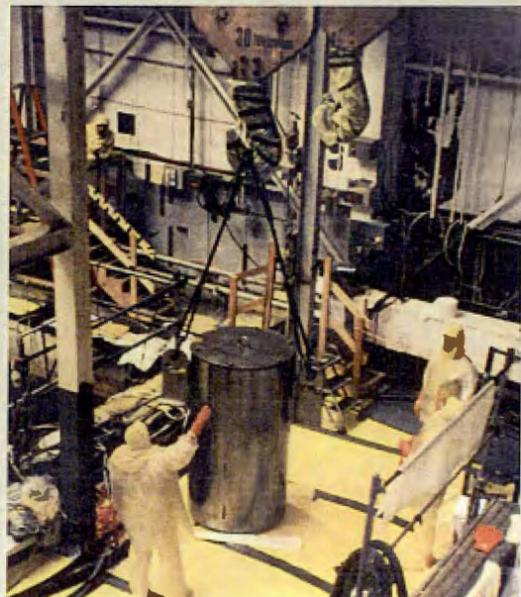
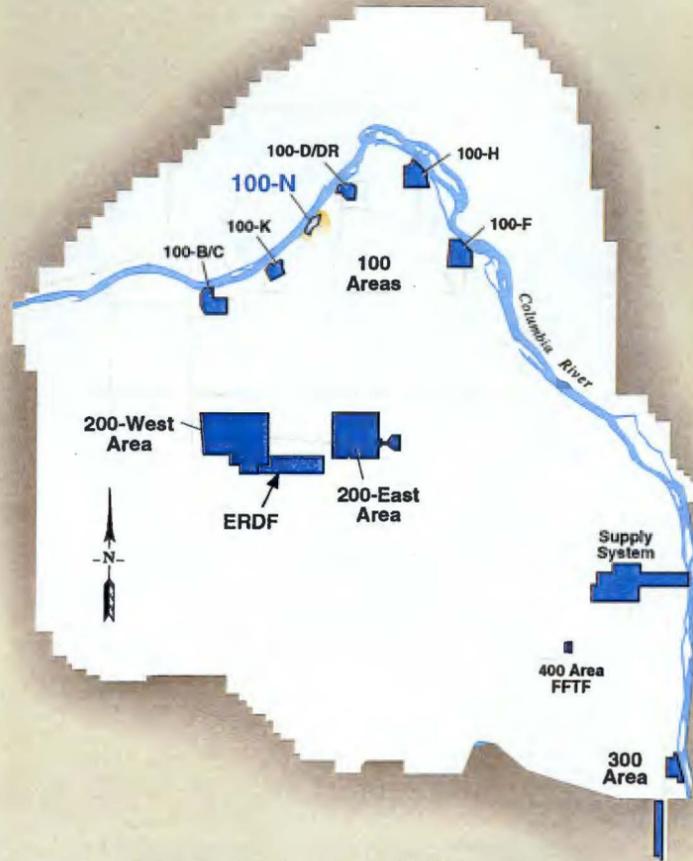
Cost Underruns

- Labor productivity in stabilizations required.
- Labor productivity in 100 Area Risk Assessment Corrective Actions.
- REDOX roof repair completed with less labor than anticipated.
- Maintenance activities at 308 less than planned.

FY98 Expenditures (Monthly)



N Area Project



Action Plan

N Area Project (N Basin Cleanout)

- ▶ Complete removal of High Exposure Rate Hardware (HERH) and Low Dose Rate Hardware

HERH and Low Dose removal is nearing completion. 30 of 33 monoliths have been completed and disposed of at ERDF. Low Dose volumes have exceeded planned levels due to additional quantities located during sediment relocation activities. 6,650 cu. ft. versus the planned 5,000 cu. ft. has been removed and disposed of at ERDF. Approximately 69 cu. ft. remain to go.

- ▶ Complete Sediment Relocation

Sediment relocation efforts are nearing completion. Clean-up of the 1024 basin cubicles has been considerably more involved and time consuming than anticipated. Appreciable amounts of crusted sediment, high and low dose debris has resulted in a change in clean-up methodology (hydrolasing, airlifting and sandpiping of each cubicle) resulted in higher costs and extended duration. Sediment relocation to the north cask pit is 98% complete.

- ▶ Initiate/Complete transfer of N Basin Water to the 200 Area Effluent Treatment Facility (ETF)

Initiation of basin drain down has been delayed due to requirements for completion of N Basin shielding installation. Approximately 1.2 million gallons of water will be transferred to the ETF utilizing 6 tankers per day for 45 days. Full scale initiation of water drain down is scheduled to begin mid-May.

- ▶ Initiate/Complete Sediment Removal and Disposal

Increased time for sediment solidification is required due to higher packaging volumes to meet waste acceptance criteria. This was caused by increased radionuclide concentration in the final sediment characterizations. (The number of containers has increased from 10 to 23.) A sub-contract has been awarded to perform solidification of the sediment prior to disposal at the ERDF facility. Sub-contractor mobilization is planned for the end of April with removal activities commencing mid May.

- ▶ Complete stabilization of N Basin surfaces

The methodology for stabilizing the N Basin surfaces was modified from applying fixative and spot shielding to installation of shielding over the entire

basin infrastructure. This entails installation of 33 steel I beams and 99 1 foot thick pre cast concrete panels. A sub contract has been awarded with mobilization and installation scheduled to begin the end of April.

- ▶ Complete deactivation of N Basin facility
Efforts to seal and secure the facility have begun. Walkdowns of the facility have been completed and "To Go" punchlists have been developed. Work-off of these activities will be accomplished pending completion of basin water, sediment, and equipment removal.

N Area Project (Facility Deactivation)

- ▶ Isolate the 107-N tanks, removing remaining water and sediment

Facility 107-N water and sediment have been removed. Isolations and walkdowns are complete. This facility has been turned over to IFS&M for future surveillance and monitoring.

- ▶ Complete deactivation of the 1722-N facility
Work packages, walkdowns and "To Go" punchlists have been developed. Punchlist work-off is restrained pending completion of N Basin work activities.

- ▶ Complete deactivation of the 153-N facility
All work activities have been completed with the exception of facility isolations and battery removal which are restrained pending the completion of N Basin work activities.

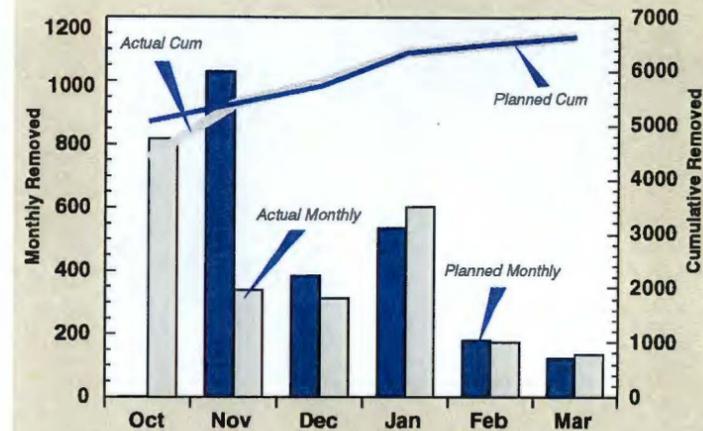
- ▶ Complete deactivation of the 105-N facility
All work activities have been completed with the exception of facility isolations and final clean-up which are restrained pending the completion of N Basin work activities.

- ▶ Complete deactivation of the 151-N facility
All work activities have been completed with the exception of facility isolations with are restrained pending the completion of N Basin work activities.

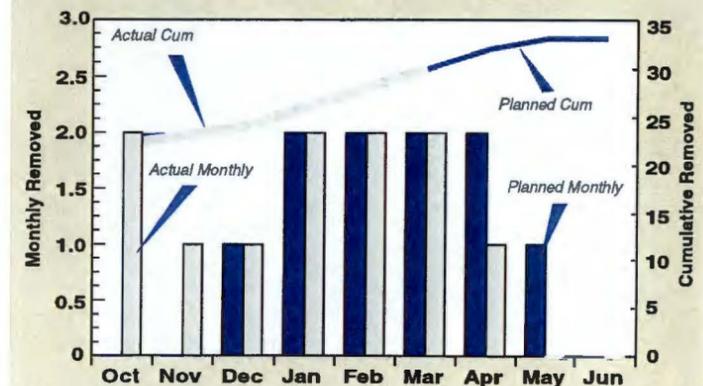
- ▶ Maintain facility compliance for non-deactivated equipment and facilities.

Level of effort tasks used to perform preventative maintenance on operating systems. This function will be phased out upon completion of the N Area Project deactivation program.

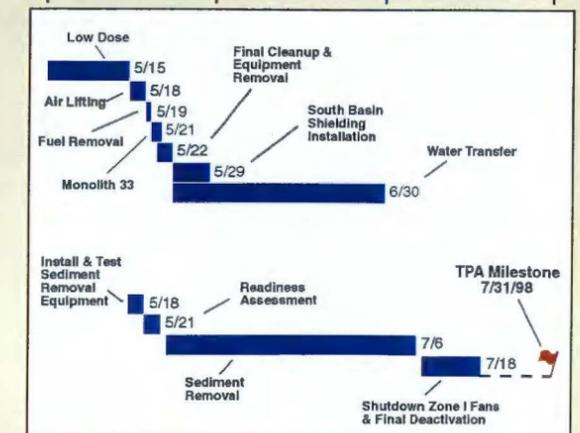
Low Dose Hardware Removal



Monoliths-Loading, Grouting, Transporting

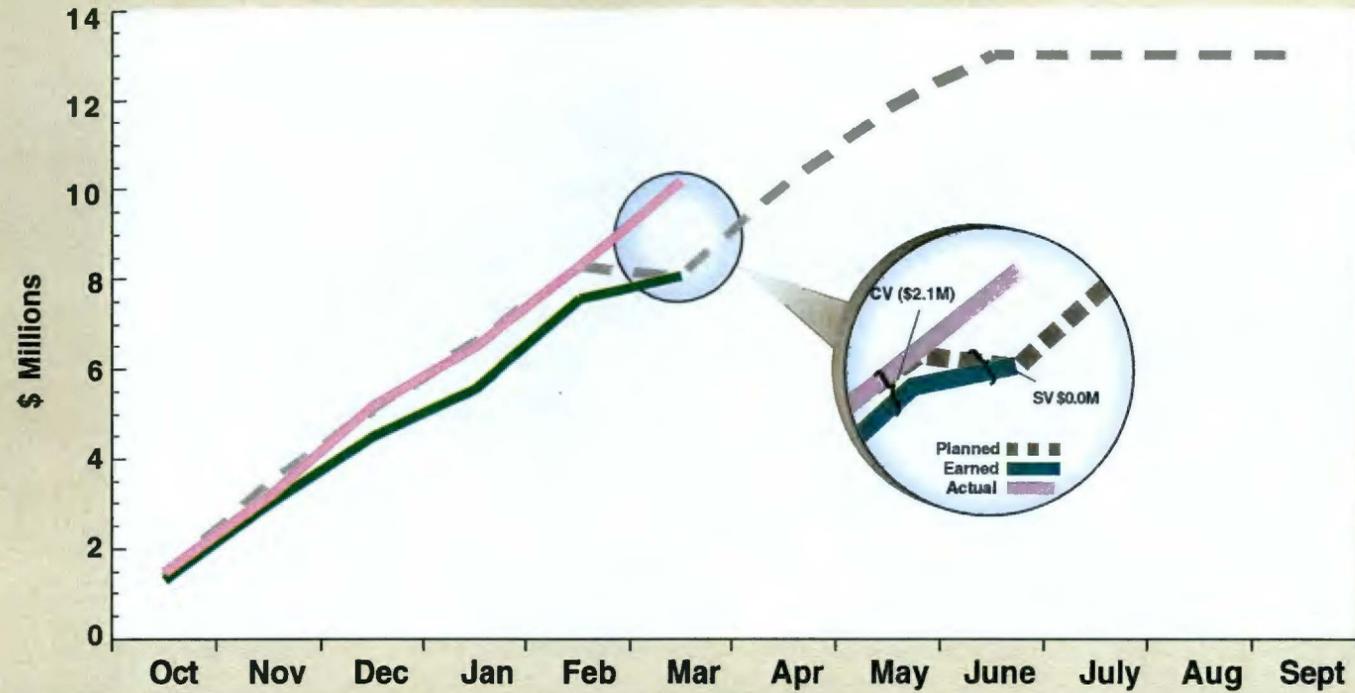


Completion Schedule



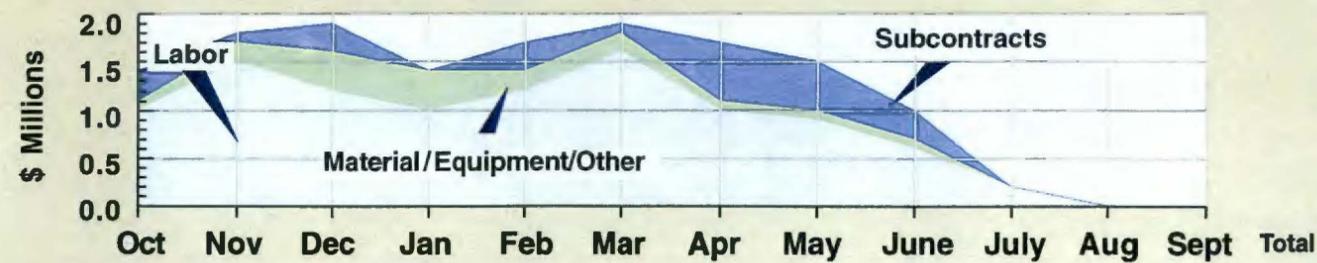
N Area Project

FY98 Project Performance (Cumulative)



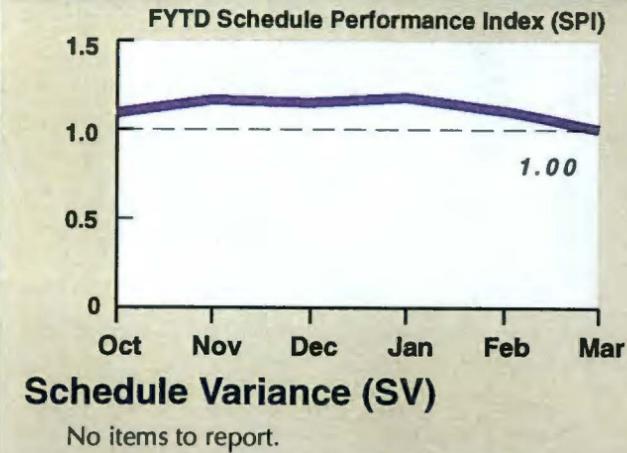
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
BCWS (Planned)	1.4	3.5	5.1	6.6	8.3	8.1	10.1	11.8	13.0	13.0	13.0	13.0
BCWP (Earned)	1.3	3.0	4.5	5.6	7.6	8.1						
ACWP (Actual)	1.5	3.2	5.2	6.5	8.3	10.2						

FY98 Expenditures (Monthly)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Total
Labor	1.0	1.5	1.2	1.0	1.2	1.6	1.0	0.9	0.6	0.2	0.0	0.0	10.2
Mat/Eqp/Other	0.1	0.2	0.4	0.4	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	1.8
Sub-contracts	0.4	0.1	0.3	0.0	0.3	0.1	0.6	0.4	0.3	0.0	0.0	0.0	2.5
Total (EAC)	1.5	1.8	1.9	1.4	1.7	1.9	1.7	1.4	1.0	0.2	0.0	0.0	14.5

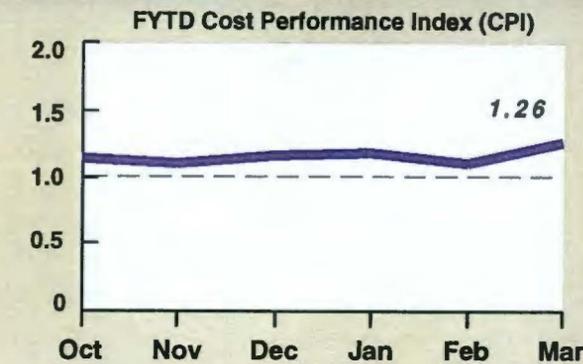
Schedule Performance



Schedule Variance (SV)

No items to report.

Cost Performance



Cost Variance (CV)

Cost Underruns

- 107 N Recirculation Facility deactivation completed below cost.
- Site support costs (laundry, etc.) not received from PHMC.
- Reversal of FY97 Accrual for sample.

Cost Overruns

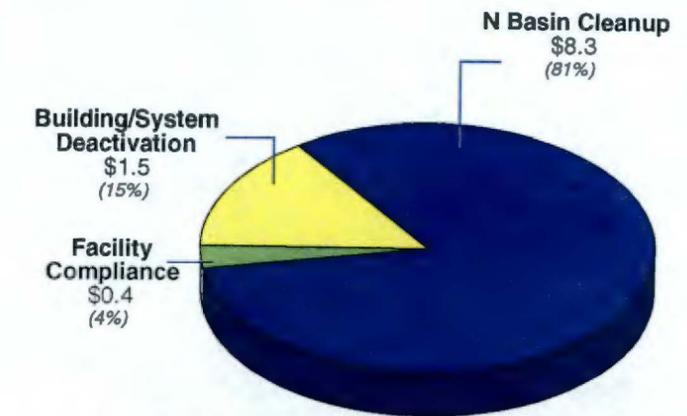
- Hardware removal volumes and sediment relocation difficulties exceeded estimates.
- Additional filtration equipment and labor was required to maintain water clarity.
- Sediment relocation difficulties resulted in higher than planned costs.
- Fabrication of tooling and equipment along with additional personal protective equipment (PARP, Hoods, etc.) were required.
- Additional costs were incurred for legacy waste disposal.

N Area Issues

Issues

- ▶ Off-loading capability at the Effluent Treatment Facility (minimum of six tankers per day to meet TPA milestone of 7/31/98)
- ▶ Excessive craft absenteeism has resulted in increased overtime and schedule slippage of key activities.

Subproject Actual Costs To Date (Project Total \$10.2 Million)



Program Management and Support

Project & Program Support

- ▶ Maintain automated Procurement Tracking System (PTS), small business program, and continue Balanced Scorecard Self-Assessment.

Achieved \$127K savings by awarding a Purchase Order for ERDF waste transport box liners directly with the manufacturer.

Negotiated a fixed price with incentive fee subcontract for 224-U and U Plant Safety Analysis.

Developed Procurement Balanced Scorecard (BSC) Plan.

Developed Agreements (Subcontracts) for PHMC Enterprise Companies.

Exceeded Small Business goals (fourth consecutive year.)

- ▶ Participate in public involvement activities.

Co-developed site-wide initiative to develop coordinated information and public involvement activities related to protecting the Columbia river.

Conducted C Reactor Large Scale Technology Demonstration Open House.

Produced 1997 ER Project Annual Report.

- ▶ Provide Graphics, Record, and Document Controls Support.

Received an Award of Excellence for RCRA poster submission to International Technical Art Competition.

Provided timely support for ~700 "Downwinder" requests.

Initiated WEB page access to drawing and change document information.

- ▶ Maintain ERC Quality, Safety and Health Program.

Supported the 327 Building emergency/evacuation effort.

Participated in the site-wide Plutonium Reclamation Facility (PRF) Initiatives.

Initiated an assessment of chemical and radioactive hazards associated high-level tank wastes.

Developed a beryllium disease prevention program.

- ▶ Identify and evaluate technologies, and develop technology proposals to meet priority project technology needs.

Coordinated a Decontamination Technology Exchange.

Issued EM-40/50 Partnering Strategy for enhancing Technology Utilization.

Successfully completed assessment of 21 new technologies.

- ▶ Ensure protection of natural and cultural resources, including endangered or threatened species. Integrate ecological/cultural values into project-wide planning.

Provided technical expertise to the Natural Resource Trustee Council (NRTC).

Supported Public Issues Exchange.

Completed Hanford Site Manhattan Project and Cold War Era District Treatment Plan.

Prepared/presented wildlife exposure model.

Completed the decisional draft of the Revegetation Manual Guidance for the Hanford Site.

Finalized the subcontract to prepare the Historic American Engineering Record (HAER) documentation for B Reactor with the B Reactor Museum Association (BRMA).

Supported the Site Groundwater Model Consolidation Task.

Reviewed the first draft of the Hanford Steelhead Management Plan.

- ▶ Provide Sample and Data Management support.

Obtained Tri-Parties approval, and issued Waste Information Data System (WIDS) procedure for release site tracking.

Upgraded the Environmental Data Viewer (EDV) software for World Wide Web Access.

Updated and published the Hanford Site Atlas.

Issued the Site Specific Waste Management Instruction.

- ▶ Prepare input to environmental reports required by environmental statutes, regulations, and DOE orders including ERCR/SARA, Rad air emissions, RCRA dangerous waste, and environmental permitting

Prepared Draft State Waste Discharge Permit Application for Storm Water.

Participated in the DOE Site Contractor/State Agency Task Team on notification requirements.

Completed the Annual Septic Tank Report.

Developed site-wide PCB Strategy.

- ▶ Develop and maintain a Nuclear Safety Program for nuclear facilities and activities.

Issued four Engineering Department Project Instructions (EDPIs) and four Engineering Guides that address hazard classification and nuclear safety. These EDPIs and Engineering Guides reflect clarification and consolidation of DOE guidance to the ERC on Nuclear Safety.

- ▶ Issue ERC Systems Engineering Management Plan.

In progress

- ▶ Support RL Reports and Presentations (Monthly Progress Report, Project Tracking System, TPA Milestone Report, Project Plan).

Ongoing

- ▶ Perform project management services (management systems, project controls, reporting, baseline maintenance and scheduling).

Ongoing

- ▶ Prepare DWP, LRP, PBSs, and Baseline Update/MYWP.

Completed and issued baseline database and Long Range Plan (LRP).

Completed various studies and scenarios in support of the final revised IPL submittal in April.

Updated PBSs to reflect FY98 baseline and LRP updates.

- ▶ Funds Tracking and Reporting.

Ongoing

- ▶ Rate Reviews and Development.

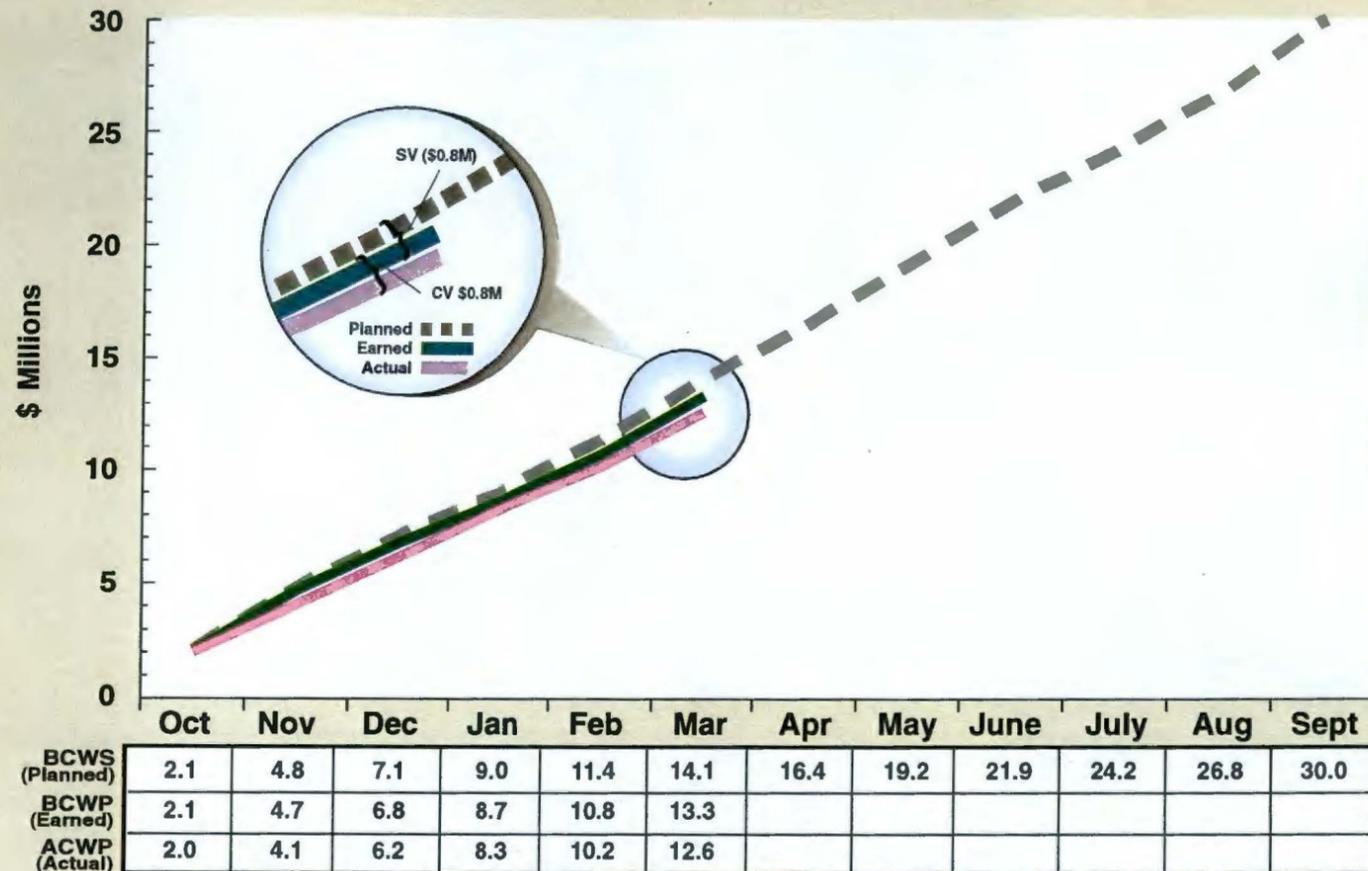
Ongoing

- ▶ Provide Support to the Hanford Integrated Site Baseline (ISB).

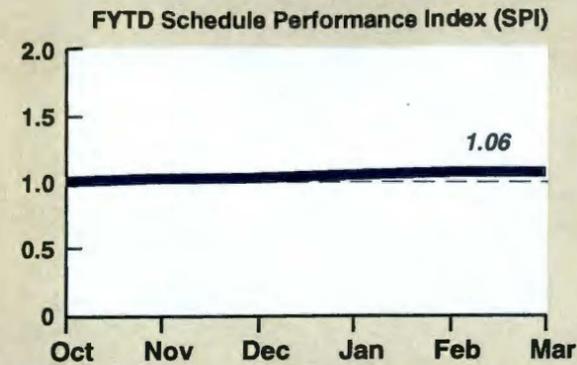
Efforts are continuing in support of ISB on an as needed/as requested basis.

Program Management and Support

FY98 Project Performance (Cumulative)



Schedule Performance

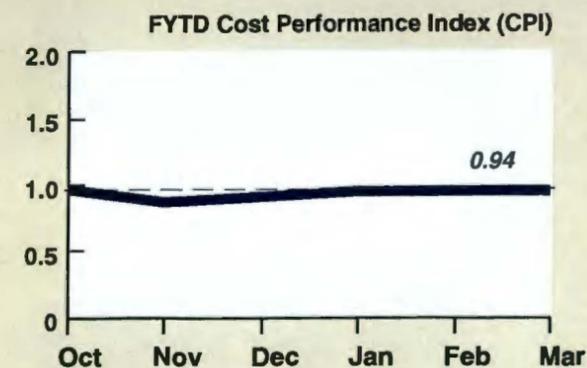


Schedule Variance (SV)

Behind Schedule

- Restructuring delayed due to extending of N Basin work and start-up of 105-F/DR ISS.
- Development/revision of engineering procedures has been impacted by other higher priority work.
- HGIS & WIDS maintenance and support are behind schedule.

Cost Performance



Cost Variance (CV)

Cost Underruns

- Labor efficiency savings in Project Technical Support, Procurement, and Document Control.
- Project (field work) staffing needs were obtained from administrative staff reductions.

Cost Overruns

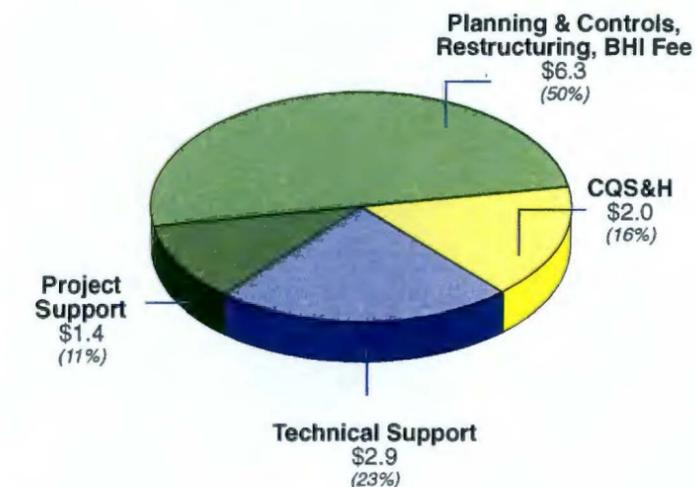
- Equipment and performance fee exceed plan.

Program Management Issues

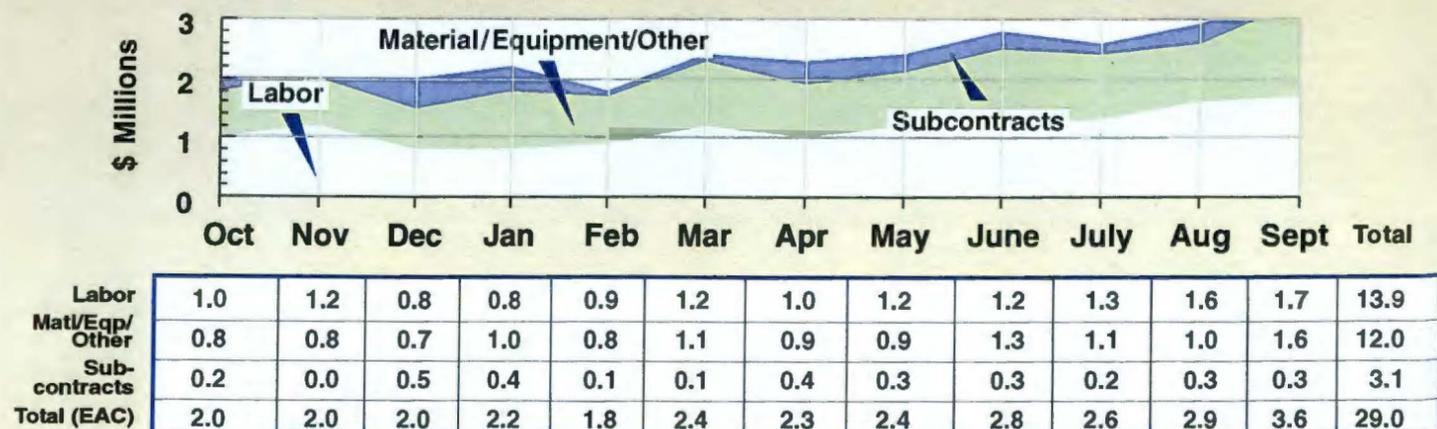
Issues

None to report.

Subproject Actual Costs To Date (Project Total \$12.6 Million)



FY98 Expenditures (Monthly)



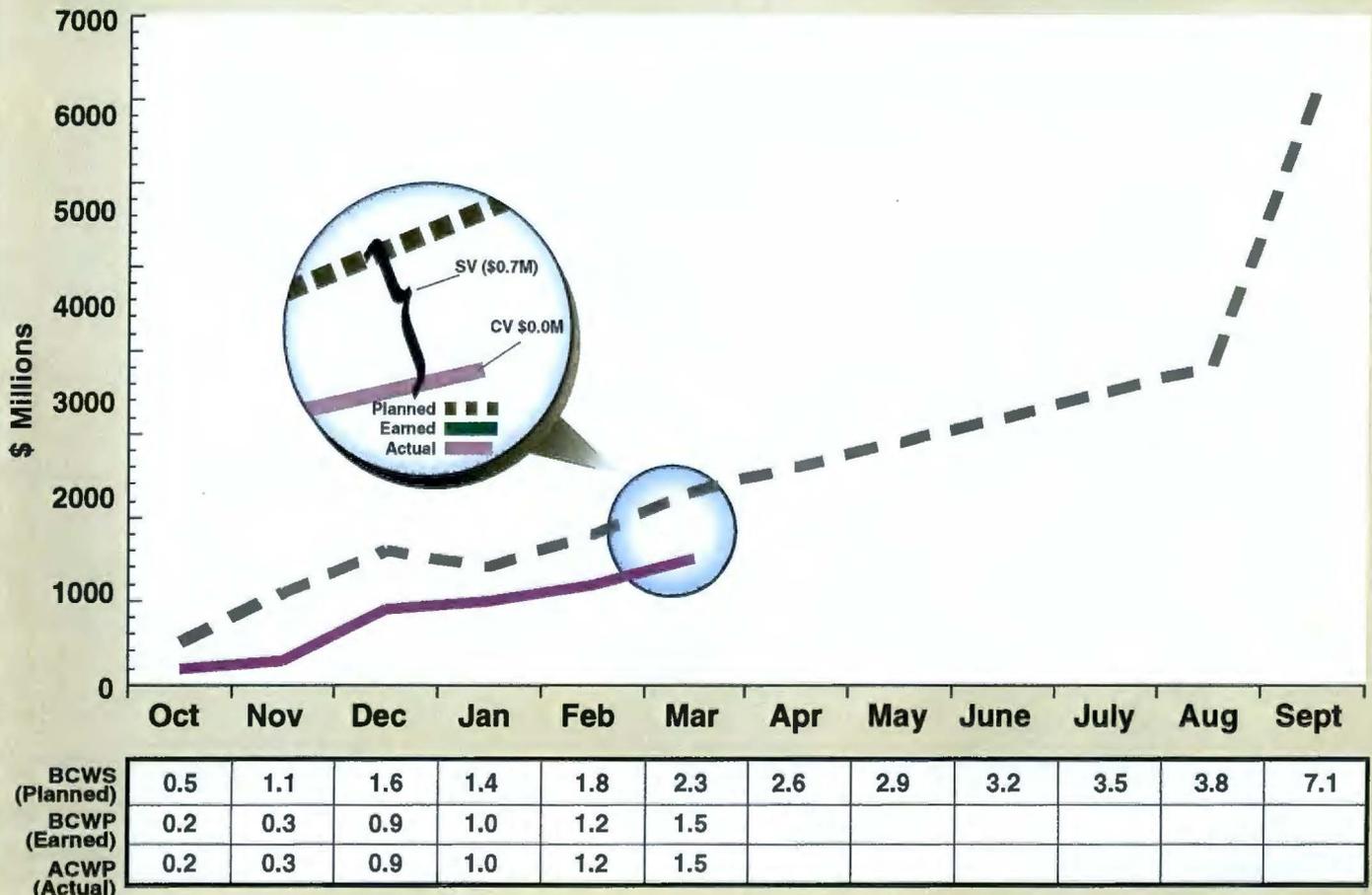
Program Management-RL

RL-Programs

- ▶ USACE Direct Support
- ▶ HRA EIS
- ▶ Ecology Grant (CERCLA)
- ▶ Sitewide Assessments
- ▶ USFWS Aquatic Resources Study
- ▶ BPS Electric
- ▶ INS Laundry
- ▶ Management Initiatives



FY 1998 Project Performance (Cumulative)



BASIN SUMMARY

6/1/98

- South Basin Cubicles (to go)
 - Pick and Place - Complete
 - 2- Air Lift (fuel search complete)
 - Video - Complete
 - 22- Cubicle Covers to Install (six installed to date)

- Shielding (subcontractor begins 3rd shift on 5/26)
 - North Basin
 - Panels - 100%
 - Sealing - 100%
 - Segregation Pit
 - Panels - 100%
 - Sealing - 100%
 - Examination Pit
 - Beams - 100%
 - Panels - 100%
 - South Basin
 - Beams - 6/6 (total: 11 beams; 4 set, 2 installed)
 - Panels - 6/7 (total: 40 panels, 0 installed)

- Monoliths
 - #32 - At ERDF - 100%
 - #33 - Grout - 6/3

• Fuel

- 178# Found to date for 2nd/final shipment
- Five additional suspect fuel pieces found on 6/1
- Current forecast shipment is 6/3

• Basin Drain Down

- Started 5/21
- Four tankers shipped through 5/31
- Completion 6/30 (33 days at an average of six tankers/day and 1.2 million gallons)
- Full scale draindown operations currently scheduled for 6/8 restraints include monolith #33, remaining cubicle covers, air lifting, fuel removal and shielding installation

• Sediment Removal (27 Liners) (Liner quantity increased from 23 to 27 due to increased sediment quantity [2] and dose [2])

- Equipment installation - Complete
- Readiness Assessment - Complete
- Removal
 - 5/28 Homogenization complete
 - Sediment Removal (3 liners completed 5/31, ship to ERDF 6/2)
 - 7/8 Completion

(Duration increased five days due to four additional liners)

Project Completion

- 7/18

- **Outstanding Risks**

- Amount of spot shielding under review
- Equipment failures (crane down due to arcing – 2:00 p.m., 5/28, back on line – 11:00 p.m., 5/28)
- Water visibility impacts

- **Basis**

- Sediment removal – 2 shifts/10 hrs./6 days wk.
- H₂O Drain down – 2 shifts/10 hrs./6 days wk.

- **Assumed Holidays**

- Memorial weekend – 2 days off
- Independence Day – 4 days off

Milestone M-24-00
RCRA Groundwater Wells
June 2, 1998

SIGNIFICANT ACCOMPLISHMENTS
LAST THREE MONTHS

- TPA M-24-00 Interim Change Control for CY 1998 milestones (M-24-98-01) approved for ten RCRA wells
- Additional M-24-00 ICC approved for Immobilized Low Activity Waste Disposal Site well
- ILAWDS well (299-E17-21) completed April 23
- Characterization requirements for new wells were completed (GW/TWRS integrated effort)
 - Split spoon sediment samples will be collected from 11 depth intervals in the vadose zone
 - Groundwater samples will be collected from intervals between 50 and 220 ft below water table in two wells at SST T and TX-TY
 - These plans were discussed with Ecology personnel

SIGNIFICANT ACCOMPLISHMENTS LAST THREE MONTHS (cont)

- Well locations have been staked
- Contract proposal prepared and will be sent to qualified bidders in early June; start of work expected in early July
- Well Decommissioning
 - 23 of 30 planned wells were decommissioned since October, 1997
 - Funding for decommissioning ran out in late March
- Hanford Site Groundwater Monitoring Report for FY97 that includes meeting RCRA annual reporting requirement completed and distributed on February 27, 1998

SIGNIFICANT ACCOMPLISHMENTS LAST THREE MONTHS (cont)

- Provided Ecology and EPA with proposed monitoring modifications identified to date from the DQO process
 - Site wide plumes: change from annual to 3-year frequency, and reduce sampling by 20%; implement in FY99
 - B Pond: use specific indicators (alpha, beta, conductivity), improve statistical methods (control charts), reduce from 13 to 8 wells; plan will be completed in June
 - 300 APT: improve statistical methods (control charts); not yet implemented, awaiting Ecology approval
 - LLBG: final-status plan completed; use site-specific indicators, improve statistical methods, reduce number of wells; plan awaiting Ecology approval
 - LERF: final-status plan completed; awaiting Ecology approval

SIGNIFICANT PLANNED ACTIONS NEXT SIX MONTHS

- Gain approval to install 35 ft well screens from Ecology
 - No response received to date
- Revise groundwater monitoring plans for TSDs that require new wells to be installed (via Interim Change)
- Start and complete well construction in summer 1998 of ten M-24-00 wells
- Gain Ecology approval of LLBG and LERF final status groundwater monitoring plans
- Gain Ecology approval of 300 APT corrective action groundwater monitoring plan

SIGNIFICANT PLANNED ACTIONS NEXT SIX MONTHS (cont)

- Submit revised B Pond groundwater monitoring plan to Ecology
- Implement revised, 3-yr frequency groundwater monitoring of site-wide plumes
- Complete RCRA Phase 2 groundwater quality assessment plans for single shell tanks WMAs B-BX-BY, S-SX, T, and TX-TY

BUDGET/COST STATUS

- Well construction - Capital
 - Costs for the ILAW well (not yet available)
 - Additional expenditures associated with contract preparation
 - Capital budget at FY start, approximately \$2,220K
- Well construction - Expense
 - TWRS has provided \$143K for expense costs for the 9 single shell tanks wells for characterization efforts
 - No expenditures to date

ISSUES

- Replacement wells or alternative monitoring strategy must be considered for 1999 and beyond to maintain RCRA compliance
- Current capital budget for well installation not adequate for future well needs based on current monitoring approaches
- Future RCRA groundwater monitoring compliance is at risk of becoming deficient under current monitoring strategy without replacement of wells projected to go dry
- DQO process continues for Hanford Site consolidated groundwater monitoring strategy - projected to minimize number/location of existing and future monitoring wells

ISSUES (cont)

- Letter transmitted to Ecology requested approval of Final Status Plans for LLBG and LERF (transmitted March 27); no response to date
- Presentations made to Ecology requested approval of revised monitoring approach at 300 APT in April; no consensus decision provided
- RCRA Groundwater Assessment Initiated at 1324-N/NA
 - TOC elevated above the critical mean
 - Other organic waste sites nearby are presumed source(s)
 - Groundwater Assessment Plan submitted to Ecology (on May 13)

Non-TPA Regulatory Issues

- Total of 30 wells were to be decommissioned in FY98
 - Only 24 wells were decommissioned
 - Money ran out in late March
- Budget for well decommissioning was approximately \$250K for FY 1998

AGENDA
INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT)
MEETING

June 23, 1998
1:00 PM - 1:30 PM

EPA CONFERENCE ROOM
712 SWIFT BLVD., SUITE 5
(CHAIRPERSON: D. R. SHERWOOD)

1:00 pm INTRODUCTION OF DR. ROBERT SHOUP (FDH-ES&H) TO THE IAMIT
(R. Shoup)

1:10 pm PRESENT FINAL DRAFT OF QUALITY ASSURANCE CHANGES TO THE
TRI-PARTY AGREEMENT (J. Yokel) ⇒ will go thru
one more review.

1:20 pm APPROVAL OF TRI-PARTY AGREEMENT CHANGE REQUESTS

- M-15-98-02 Revise 300-FF-2 milestone
- M-16-98-03 Establish 100-FR-1, FR-2 milestones
- M-16-98-04 Establish ERDF expansion milestones

- M-16-98-02 Revise 100-HR-1 interim milestone

1:30 pm ADJOURN

WIDS/Appendix C (of TPA) - IAMIT set
one month deadline to see if
revised Appendix C could be included
in next update of TPA.

IMAGENDA.JUN.DOC

Change Number M-32-97-01	Federal Facility Agreement and Consent Order Change Control Form <small>Do not use blue ink. Type or print using black ink.</small>	Date June 9, 1997
------------------------------------	---	-----------------------------

Originator R. M. Gordon	Phone (509) 372-2139
-----------------------------------	--------------------------------

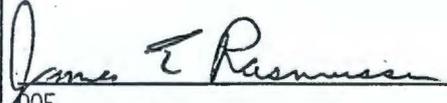
Class of Change <input type="checkbox"/> I - Signatories	<input checked="" type="checkbox"/> II - Executive Manager	<input type="checkbox"/> III - Project Manager
---	--	--

Change Title 219-S Upgrade Schedule Revision (M-32-02)
--

Description/Justification of Change		
This change request revises a Tri-Party Agreement interim milestone, modifies the scope and due date of a target date, and creates one additional target date as follows:		
<small>Note: Struckout text indicates text to be removed and <u>shaded</u> text indicates text to be added.</small>		
M-32-02	Complete 219-S Tank Interim Status Actions	September 30, 1997 <u>April 30, 1999</u>
M-32-02-T02	Complete Construction Upgrades to Upgrade Existing Transfer Lines to meet Secondary Containment Requirements (Project W-087).	September 30, 1997 <u>December 31, 1997</u>
M-32-02-T03	Complete Construction Upgrades to 219-S Facility (Project W-178).	<u>April 30, 1999</u>
<small>Continued on Page 2 of 2.</small>		

Impact of Change Approval of this change request will result in the revision of the interim milestone M-32-02 schedule, clarification of the scope and milestone completion criteria and a schedule revision for M-32-02-T02, and addition of target date M-32-02-T03.

Affected Documents Hanford Federal Facility Agreement and Consent Order, Action Plan, Appendix D, February, 1996.
--

Approvals	
 DOE	<u>6/10/97</u> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved Date
_____	_____ Approved _____ Disapproved Date
EPA	_____ Approved _____ Disapproved Date
_____	_____ Approved _____ Disapproved Date
Ecology	_____ Approved _____ Disapproved Date

Change Number M-32-97-01	Federal Facility Agreement and Consent Order Change Control Form <small>Do not use blue ink. Type or print using black ink.</small>	Date June 9, 1997
------------------------------------	---	-----------------------------

Originator R. H. Gordon	Phone (509) 372-2139
-----------------------------------	--------------------------------

Class of Change <input type="checkbox"/> I - Signatories	<input checked="" type="checkbox"/> II - Executive Manager	<input type="checkbox"/> III - Project Manager
---	--	--

Change Title
219-S Upgrade Schedule Revision (M-32-02)

Description/Justification of Change
This change request revises a Tri-Party Agreement interim milestone, modifies the scope and due date of a target date, and creates one additional target date as follows:

Note: ~~Struckout~~ text indicates text to be removed and shaded text indicates text to be added.

M-32-02	Complete 219-S Tank Interim Status Actions	September 30, 1997 <u>April 30, 1999</u>
M-32-02-T02	Complete construction upgrades for Upgrade Existing Transfer Lines to meet Secondary Containment Requirements <u>(PROJECT # 1997)</u>	September 30, 1997 <u>December 31, 1997</u>
M-32-02-T03	Complete construction upgrades for 219-S Facility <u>(PROJECT # 1997)</u>	April 30, 1999

Continued on Page 2 of 2.

Impact of Change
Approval of this change request will result in the revision of the interim milestone M-32-02 schedule, clarification of the scope and milestone completion criteria and a schedule revision for M-32-02-T02, and addition of target date M-32-02-T03.

Affected Documents
Hanford Federal Facility Agreement and Consent Order, Action Plan, Appendix D, February, 1996.

Approvals

<i>[Signature]</i> DOE	<u>6/10/97</u> Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
EPA	Date	<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
<i>[Signature]</i> Ecology	<u>6/16/97</u> Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved

Post-It™ brand fax transmittal memo 7671 # of pages **16**

Post-It® Fax Note	7671	Date	<u>6/25/97</u>	# of pages	16
To	<i>[Signature]</i>	From	<i>[Signature]</i>		
Co./Dept.	MIKE CANILL	Co.	<i>[Signature]</i>		
Phone #	1040	Phone #			

To	Ann Sherwood	From	Mike Cahill
Co.		Co.	
Dept.		Phone #	3-3715
Fax #	6-7811	Fax #	

TPA MILESTONE CHANGE PACKAGE

M-15-98-02

M-15-23B

Submit 300-FF-2 FFS/PP

M-16-98-02

M-16-26A

Initiate RA in 100-HR-1 OU

M-16-98-03

7 Milestones

Initiate RA in 100-FR, and 100-KR. Complete RA in 100-BC, 100-DR, 100-HR, 100 Area ROD/Amendment Sites, and 100-FR.

M-16-98-04

2 Milestones

Establish Start/Completion Dates for ERDF Expansion Cells 3 and 4.

M-15- TPA Interim Milestone

<u>Milestone</u>	<u>Scope</u>	<u>Date</u>
M-15-23B (Existing)	Submit 300-FF-2 FFS/PP 327 Sites	07/31/99
M-15-23B (Mod)	Submit 300-FF-2 FFS/PP 420 Sites	11/30/99

Reason for 100 Area RA TPA Change Package

- Modify interim TPA milestones for completing waste sites in 100-BC, 100-DR, & 100-HR Operable Units.
- Establish new interim milestones for initiation/ completion of work in 100-FR and 100-KR.
- Change accommodates increased waste volumes in 100-BC and 100-DR and waste sites added through the ROD Amendment.

M-16- TPA Interim Milestones

<u>Milestone</u>	<u>Scope</u>	<u>Date</u>
M-16-92A (New)	Initiate excavation ERDF cells 3 and 4	09/30/98
M-16-26A (Mod)	Initiate RA, 100-HR-1	03/31/99
M-16-08B (Mod)	Complete RA, 19 waste sites in 100-BC-1 &100-BC-2	09/30/99
M-16-92B (New)	ERDF cells 3 & 4 ready for waste	12/31/99
M-16-13A (New)	Initiate RA, 100-FR-1	01/31/00
M-16-07B (Mod)	Complete RA, 22 waste sites & Pipelines in 100-DR-1 & 100-DR-2	04/30/00

M-16- TPA Interim Milestones (Cont)

<u>Milestone</u>	<u>Scope</u>	<u>Date</u>
M-16-26C (New)	Complete RA, 10 waste sites in 100-HR-1	8/31/00
M-16-26B (Mod)	Complete RA, 51 waste sites & Pipelines in 100-BC, 100-DR, & 100-HR	2/28/01
M-16-10A (New)	Initiate RA, 100-KR-1	7/31/02
M-16-13B (New)	Complete RA, 16 waste sites & Pipelines in 100-FR-1 & 100-FR-2	8/31/03

Change Number M-15-98-02	Federal Facility Agreement and Consent Order Change Control Form <small>Do not use blue ink. Type or print using black ink.</small>	Date June 3, 1998
Originator R. G. McLeod DOE/RICHLAND OPERATIONS-ENVIRONMENTAL RESTORATION PROJECT		Phone (509) 372-0096
Class of Change <input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager		
Change Title Revision to Milestone M-15-23B for the 300-FF-2 Operable Unit		
Description/Justification of Change <p>Change the date for milestone M-15-23-B, "Submit the 300-FF-2 operable unit FFS and PP for regulator review" from July 31, 1999 to November 30, 1999.</p> <p>The 300-FF-2 Limited Field Investigation (LFI) report (DOE/RL-96-42) assumed that waste sites that were near or under active facilities (TSD or other) would be deferred until such time as characterization activities could be coordinated with D&D and RCRA activities. This would result in additional LFIs, and subsequent records of decision (RODs), in the future. Based on these assumptions the scope of the Focused Feasibility Study (FFS) and Proposed Plan (PP) was limited to approximately 40 waste sites that had been addressed in the LFI report, out of a total of about 415 waste sites that comprise the entire 300-FF-2 Operable Unit.</p> <p>Recent discussions have concluded that all known 300-FF-2 wastes sites will be included in the FFS and PP so that only one ROD will be necessary. With the inclusion of the additional waste sites, four additional months are needed to complete the documents.</p> <p>Waste sites that have been accepted into the WIDS database through October 1, 1998, will form the basis for the sites to be addressed in the FFS and PP. Any sites identified subsequent to this will be addressed in a manner that will be agreed to by the regulators and DOE/RL. The information contained in WIDS or other readily available sources will form the information base for the FFS and PP.</p> <p>The FFS and PP will be similar in approach, level of detail, and format to counterpart 100 Area Remaining Sites project documents, including the waste site categorization process. For those 300 Area WIDS waste sites where LFI or other data are not available to finalize the nature and extent of contamination, the observational approach will be mandated in the FFS and PP, to obtain the necessary waste site information. Such additional site characterization will generally occur after the record of decision has been signed.</p> <p>Satisfactory completion of this milestone will also suffice to complete milestone M-15-00B, "Complete all 300 Area operable unit pre-ROD site investigations under approved work plan schedules" which is scheduled for December 31, 1999.</p> <p>Modify target date for M-15-23B (strike through indicates text to be removed, strachitg indicates text to be added)</p> <p>M-15-23B Submit the 300-FF-2 Focused Feasibility Study Report (FFS) and Proposed Plan for Regulator Review. 7/31/99</p>		
Impact of Change Including more information in the documents will lengthen their preparation time (and the milestone) by four months.		
Affected Documents Hanford Federal Facility Agreement and Consent Order Action Plan.		
Approvals		
DOE	_____ Date	_____ Approved _____ Disapproved
EPA	_____ Date	_____ Approved _____ Disapproved
Ecology	_____ Date	_____ Approved _____ Disapproved

Change Number M-16-98-02	Federal Facility Agreement and Consent Order Change Control Form <small>Do not use blue ink. Type or print using black ink.</small>	Date June 8, 1998
------------------------------------	---	-----------------------------

Originator G. I. Goldberg DOE/RICHLAND OPERATIONS-ENVIRONMENTAL RESTORATION PROJECT	Phone (509) 376-9552
--	--------------------------------

Class of Change		
<input type="checkbox"/> I - Signatories	<input checked="" type="checkbox"/> II - Executive Manager	<input type="checkbox"/> III - Project Manager

Change Title Extend milestone date M-16-26A.
--

Description/Justification of Change In FY96 interim milestones were established for Remediation and Backfill of the original 37 liquid waste sites listed in the 100 Area ROD in the 100-BC-1, 100-DR-1, and 100-HR-1 Operable Units (OU's). The predicted volumes of contaminated material at 100-BC-1 and 100-DR-1 have increased substantially and the 100 Area ROD has been amended to include additional liquid waste sites in 100-BC-1, 100-DR-1, and 100-HR-1, plus sites in 100-BC-2, 100-DR-2, 100-FR-1, 100-FR-2 and 100-KR-1, requiring the existing interim milestone date to be extended.
Modify milestone date for M-16-26A (strikethrough indicates text to be removed, shading indicates text to be added)
M-16-26A Initiate Remedial Action 100-HR-1 Operable Unit. 9/30/98 9/31/99

Impact of Change Contaminated volumes have increased from the time the milestones were established, while the rate of remediation (250,000 more tons to ERDF by the end of FY98) have also increased. The addition of the 100 Area ROD Amendment sites to the milestones will ensure all liquid waste sites are remediated prior to demobilization from an Operable Unit.

Affected Documents Hanford Federal Facility Agreement and Consent Order Action Plan

Approvals	
_____	Approved _____ Disapproved _____
DOE	Date
_____	Approved _____ Disapproved _____
EPA	Date
_____	Approved _____ Disapproved _____
Ecology	Date

Change Number M-16-98-03	Federal Facility Agreement and Consent Order Change Control Form <small>Do not use blue ink. Type or print using black ink.</small>	Date June 18, 1998
------------------------------------	---	------------------------------

Originator G. I. Goldberg DOE/RICHLAND OPERATIONS-ENVIRONMENTAL RESTORATION PROJECT	Phone (509) 376-9552
--	--------------------------------

Class of Change		
<input type="checkbox"/> I - Signatories	<input checked="" type="checkbox"/> II - Executive Manager	<input type="checkbox"/> III - Project Manager

Change Title
Extend target dates for M-16-07B, M-16-08B, and M-16-26B. Establish milestones for 100-FR-1, 100-FR-2, 100-HR-1, and 100-KR-1 remediation.

Description/Justification of Change
In FY96 interim milestones were established for Remediation and Backfill of the original 37 liquid waste sites listed in the 100 Area ROD in the 100-BC-1, 100-DR-1, and 100-HR-1 Operable Units (OU's). The predicted volumes of contaminated material at 100-BC-1 and 100-DR-1 have increased substantially and the 100 Area ROD had been amended to include additional liquid waste sites in 100-BC-1, 100-DR-1, and 100-HR-1, plus sites in 100-BC-2, 100-DR-2, 100-FR-1, 100-FR-2 and 100-KR-1, requiring the existing interim milestones to be modified and the target dates to be extended to include the additional scope of work. In addition new interim milestones are being established for completion of liquid waste site remediation for 100-HR-1 and initiation/ completion of liquid waste site remediation for 100-FR-1 and 100-FR-2. A new interim milestone is established to initiate waste site cleanup at 100-KR-1 OU.

Modify target dates for M-16-07B, M-16-08B, and M-16-26B, add M-16-26C, M-16-13A, M-16-13B, and M-16-10A (strikethrough indicates text to be removed, shading indicates text to be added)

M-16-08B	Complete Remediation and Backfill of 15 19 Liquid Waste Sites and Process Effluent Pipelines in the 100-BC-1 and 100-BC-2 Operable Unit as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area.	1/31/99 9/30/99
M-16-13A	Initiate Remedial Action in the 100-FR-1 Operable Unit	1/31/00
M-16-07B	Complete Remediation and Backfill of 15 23 Liquid Waste Sites and Process Effluent Pipelines in the 100-DR-1 and 100-DR-2 Operable Unit as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area.	9/30/99 4/30/00

Impact of Change
Contaminated volumes have increased from the time the milestones were established, while the rate of remediation (250,000 more tons to ERDF by the end of FY98) have also increased. The addition of the 100 Area ROD Amendment sites to the milestones will ensure all liquid waste sites are remediated prior to demobilization from an Operable Unit.

Affected Documents
Hanford Federal Facility Agreement and Consent Order Action Plan

Approvals		Page 1 of 2
DOE	Date _____ Approved _____ Disapproved _____	
EPA	Date _____ Approved _____ Disapproved _____	
Ecology	Date _____ Approved _____ Disapproved _____	

M-16-26C	Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area	8/31/00
M-16-26B	Complete Remediation, Backfill, and Revegetation of 37 51 Liquid Waste Sites and Process Effluent Pipelines in the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, & 100-HR-1 Operable Units as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area.	10/31/00 2/28/01
M-16-10A	Initiate Remedial Action in the 100-KR-1 Operable Unit	7/31/02
M-16-13B	Complete Remediation and Backfill of 16 Liquid Waste Sites and Process Effluent Pipelines in the 100-FR-1 & 100-FR-2 Operable Units as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area	8/31/03

Change Number M-16-98-04	Federal Facility Agreement and Consent Order Change Control Form Do not use blue ink. Type or print using black ink.	Date May 20, 1998
Originator O. Robertson DOE/RICHLAND OPERATIONS-ENVIRONMENTAL RESTORATION PROJECT		Phone (509) 373-6295
Class of Change [] I - Signatories [X] II - Executive Manager [] III - Project Manager		
Change Title Establish interim milestones for initiation of excavation associated with ERDF cells 3 & 4 construction and completion of construction and readiness to accept waste in cells 3 & 4.		
Description/Justification of Change M-16-92A Initiate excavation associated with ERDF cells 3 & 4 Construction 9/30/98 M-16-92B ERDF cells 3 & 4 ready to accept remediation waste 12/31/99		
Impact of Change These milestones represent initiation of excavation for construction and completion of cells 3 & 4 at ERDF.		
Affected Documents Hanford Federal Facility Agreement and Consent Order Action Plan		
Approvals _____ DOE Date _____ Approved _____ Disapproved _____ EPA Date _____ Approved _____ Disapproved _____ Ecology Date _____ Approved _____ Disapproved		

AGENDA

TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW (CHAIRPERSON: D. R. SHERWOOD)

TUESDAY, JUNE 23, 1998

Location: EPA Conference Room
712 Swift Blvd. Richland

<u>TIME</u>	<u>MILESTONE</u>	<u>TITLE</u>	<u>RL DIVISION DIRECTOR</u>	<u>CONTRACTOR MANAGER</u>	<u>PRESENTER</u>
10:00am	M-26-01	LDR Annual Report	H. E. Bilson	J. A. Winterhalder	E. M. Bowers
	M-19-00	WRAP II	H. E. Bilson	D. E. McKenney	E. M. Bowers
	M-91-00	Acquisition of Facilities to TSD TRU/TRUM, LLMW and GTC3	H. E. Bilson	D. E. McKenney	E. M. Bowers
11:00am	M-20-00	Part B and Closure Plans	J. E. Rasmussen	S. M. Price	E. M. Mattlin
11:30am	M-32-00	Waste Tanks/ Corrective Action (non TWRS milestones)	J. E. Rasmussen	S. M. Price	E. M. Bowers
12:00am	ADJOURN				

LAND DISPOSAL RESTRICTIONS ANNUAL REPORT

M-26-01

WASTE PROGRAMS DIVISION
E. M. Bowers
June 23, 1998

Milestone Description

- M-26-01 Submit an annual Hanford Site LDR Report in accordance with the LDR Plan to cover the period from April 1 through March 31
- Deliverables Submit the "1999 Hanford Site Land Disposal Restrictions for Mixed Waste" to EPA and Ecology (M-26-01I)
- Schedule Report submitted annually by April 30.

RL Program Manager's Assessment of Contractor Performance

- Satisfactory performance, on schedule

Accomplishments

- Transmitted 1998 report on April 29, 1998
(Incorporates revisions resulting from Ecology comments on 1997 report).

Planned Actions

- Respond to any regulator comments received on 1998 report
- Begin 1999 report preparation process. Prepare data sheets for revision.

Milestone Assessment - schedule and technical

- On schedule

Non-TPA Regulatory Issues. Potential Impacts on TPA

- None.

Budget

- Budget versus actual cost (cumulative \$ in 000's)

	Jan	Feb	Mar	Apr	May
FYTD Budget	30	38	47	55	64
FYTD Actual	34	47	67	85	79
FYTD Variance	-4	-9	-20	-30	-15

Summary of Changes for 1998 Report

- One waste stream per profile sheet, 33 streams total (23 at CWC).
- Narrative supporting each stream or group of streams. Summary tables included.

Known Changes for 1999 Report

- Include comparison of 1998 generation projections to actual 1998 generation.

M-19-00 & M-91-00

WASTE PROGRAMS DIVISION

E. M. Bowers

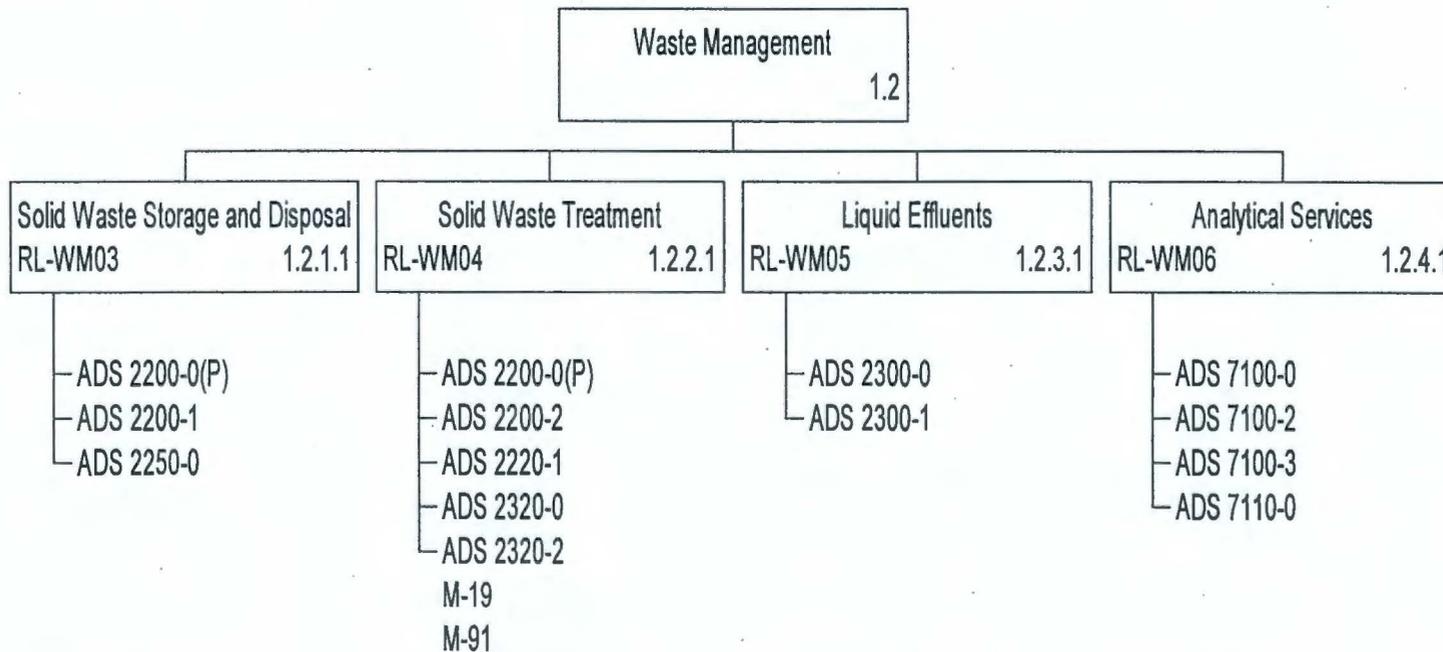
May 1998

<p>TPA MILESTONE REVIEW</p>	<p>WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT</p>	<p>MAY 1998</p>
---------------------------------	---	-----------------

MILESTONE DESCRIPTION

<p>TPA MILESTONE</p>	<p>DESCRIPTION</p>
<p>M-19-00</p>	<p>Complete treatment and/or direct disposal of at least 1,644 cubic meters of Contact Handled Low Level Mixed Waste already in storage as of October 1, 1995, as well as newly generated Hanford Site low level mixed waste.</p> <p>Cumulative treatment and/or direct disposal rates will be at least 246 cubic meters by the end of FY 2000, 822 cubic meters by the end of FY 2001, and 1,644 cubic meters by the end of FY 2002.</p>
<p>M-91-00</p>	<p>Complete the acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal of all Hanford site TRU/TRUM, LLMW, and GTC3.</p>

WORK BREAKDOWN STRUCTURE



(P) Represents an ADS split between 2 PBSs

TPA MILESTONE REVIEW	WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT	MAY 1998
-------------------------	--	----------

MILESTONE SCHEDULE

WBS (PBS)	BASELINE DATE	FISCAL YEAR 1998													
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1.2.2.1 (RL-WM04) Solid Waste Treatment														(M-19-01-T03) Complete all NEPA requirements related to commercial → contract for LLMW stabilization	 I (Target)  RL
MILESTONE TYPES:		 M TPA MILESTONE  I TPA INTERIM	 DOE-HQ  FO DOE-FO	 FORECAST  RL DOE-RL	FOOTNOTES: * indicates current month activity										

TPA MILESTONE REVIEW	WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT	MAY 1998
---------------------------------	---	-----------------

MILESTONE SCHEDULE

WBS (ADS)	BASELINE DATE	FISCAL YEAR 1999												
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1.2.1.1 (RL-WM04) Solid Waste Treatment	9/30/99													 I (M-91-02) Initiate treatment of CH-LLMW
	12/31/98													 I (M-91-02) Initiate processing of CH-TRU/TRUM at WRAP I
	6/30/99													 I (M-91-10) Submit Hanford Site LLMW and GTC 3 Waste PMP to Ecology 
MILESTONE TYPES:		 M TPA MILESTONE	 I TPA INTERIM	 DOE-HQ	 FO DOE-FO	 FORECAST	 RL DOE-RL	 WHC KEY	FOOTNOTES: * indicates current month activity					

<p>TPA MILESTONE REVIEW</p>	<p>WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT</p>	<p>MAY 1998</p>
---------------------------------	---	-----------------

MILESTONE EXCEPTION REPORT

<p>FUTURE MILESTONES IN JEOPARDY</p>	
<p>M-19-01-T03</p>	<p>“Complete all NEPA requirements related to commercial contract for stabilization of CH-LLMW” by September 30, 1998.</p> <p>The NEPA Environmental Assessment for the stabilization contract is behind schedule. RL is developing a recovery plan.</p>
<p>M-91-04</p>	<p>“Complete construction of small container Contact Handled (CH) TRU/TRUM retrieval facility(s) and initiate (Project W-113) retrieval of small container TRU/TRUM from 200 Area burial grounds” by September 2000.</p>
<p>M-91-07</p>	<p>“Complete Project W-113 for Post 1970 CH TRU/TRUM retrieval” by September 2004.</p> <p>Baseline capital construction for the TRU Retrieval activities would require \$834 K in FY 1998 and \$15.9 million in FY 1999 – not currently funded. A change request has been approved for \$100K in expense funding in FY 1998 to explore simplified retrieval alternatives to meet required start and completion dates.</p>
<p>M-91-10</p>	<p>“Submit Hanford Site LLMW and GTC3 waste Project Management Plan (PMP) to Ecology” by June 1999.</p> <p>FY 1998 funding for the PMP (\$200K) was provided by change request in May 1998. Recovery plan is in process to recover from delay in starting the PMP from January to June 1998.</p>

<p>TPA MILESTONE REVIEW</p>	<p>WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT</p>	<p>MAY 1998</p>
---------------------------------	---	-----------------

M-19 ACCOMPLISHMENTS

<p>WBS 1.2.2.1</p>	<p style="text-align: center;"><u>M-19-00</u> <u>LOW LEVEL MIXED WASTE TREATMENT</u></p> <p>Nothing to report.</p>
------------------------	--

TPA MILESTONE REVIEW	WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT	MAY 1998
-------------------------	--	----------

M-19-00 SCORECARD

“Treat and/or directly dispose of at least 1,600 cubic meters of CH-LLMW by September 2002”	<u>Quantity in cubic meters</u>
M-19 Waste: <ul style="list-style-type: none"> – Macroencapsulation Pilot – Long Length Equipment – Backlog Soils Disposal – B Plant Organic Liquid (TBP) – Mixed Waste from PNNL 	185 70 56 11 1
TOTAL M-19 WASTE	323

<p>TPA MILESTONE REVIEW</p>	<p>WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT</p>	<p>MAY 1998</p>
---------------------------------	---	-----------------

M-91 ACCOMPLISHMENTS

<p>WBS 1.2.2.1</p>	<p style="text-align: center;"><u>M-91-00</u> <u>FACILITIES FOR STORAGE, TREATMENT/PROCESSING AND DISPOSAL OF TRU/TRUM, LLMW AND GTC3</u></p> <p>FY 1998 funding (\$200K) obtained to begin preparing the Hanford site LLMW and GTC# Project Management Plan.</p>
------------------------	---

TPA MILESTONE REVIEW	WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT	MAY 1998
-------------------------	--	----------

PLANNED ACTIONS

TPA MILESTONE SUPPORTED	DESCRIPTION	SCHEDULED COMPLETION DATE
M-19-00	Complete Macro-Secure demonstration using proven commercial technology to macroencapsulate 150 drums (32 cubic meters) of mixed waste debris in compacted drums or concrete rubble (may be delayed into early FY 1999).	9/30/98
M-19-00	Dispose of the balance of the non-PCB Backlog Soils as LLW -- 225 cubic meters.	9/30/98
M-19-01-T02	Complete all NEPA requirements related to the commercial treatment contract (see Exception Report).	9/30/98
M-91-04	RL is pursuing more cost effective alternatives for TRU container retrieval based upon similar projects at Savannah River and Los Alamos. Alternative sources for funding, including expense cost savings, are being explored (see Exception Report).	9/30/00
M-91-10	Initiate preparation of the Hanford Site LLMW and GTC3 Project Management Plan.	6/30/99

TPA MILESTONE REVIEW	WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT	MAY 1998
-------------------------	--	----------

EXPENSE COST PERFORMANCE

(\$ in Millions)

WBS (ADS)	FY 1998 TO DATE					AT COMPLETION					COMMENTS
	BUDGETED COST		ACTUAL CST	VARIANCE		BAC	EAC	FYSF	EXPECTED FUNDS FY 98	PROJECTED CARRYOVER WORKSCOPE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST	BCWS					
1.2.2.1 MW AND TRU TREATMENT (2200-00)	1.1	0.8	0.4	(0.3)	0.4	4.6	4.1	1.5	4.6	2.6	Carryover: \$2.3M - T for C \$.2M - Macro Secure & WERF

<p>TPA MILESTONE REVIEW</p>	<p>WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT</p>	<p>MAY 1998</p>
---------------------------------	---	-----------------

EXPENSE COST VARIANCE ANALYSIS

WBS (ADS)	COST VARIANCE \$252K	
<p>1.2.2.1</p>	<p><u>(Description and Cause:)</u> Earlier in Fiscal Year 1998, activities relating to MLLW treatment contracting were limited to planning. Emphasis has since shifted to contract implementation and the variance will be reduced by the end of the Fiscal Year.</p>	<p><u>(Impacts and Corrective Action:)</u> No impacts. The funding for Mixed Waste Treatment is still required for FY 1998.</p>

TPA MILESTONE REVIEW	WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT	MAY 1998
-------------------------	--	----------

EXPENSE SCHEDULE VARIANCE ANALYSIS

WBS (ADS)	SCHEDULE VARIANCE \$(168K)	
1.2.2.1	<p><u>(Description and Cause:)</u></p> <p>The Macro-Secure project has been delayed while alternative (non-carbonaceous) waste streams are identified and evaluated.</p> <p>Increased expenditures on the characterization projects will be incurred late in the fiscal Year when sampling and analysis will be conducted.</p>	<p><u>(Impacts and Corrective Action:)</u></p> <p>No corrective action is necessary.</p>

<p>TPA MILESTONE REVIEW</p>	<p>WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT</p>	<p>MAY 1998</p>
---------------------------------	---	-----------------

M-19 ISSUES

TPA MILESTONE	DATE IDENT	ISSUE	IMPACT	STATUS
M-19-00	1/97	State Organic Carbonaceous LDR requires combustible debris to be incinerated.	Prevents macroencapsulation of combustible debris (90 - 95% of Hanford debris).	<p>RL received direction from Ecology on the conditions for petitioning for exemption(s) from the Organic Carbonaceous regulations. Appropriate petitions are being prepared.</p> <p>An exemption was not received in time to complete the Macro-secure project as planned in FY 1998. Alternate waste streams and/or an accelerated exemption are being evaluated.</p> <p>The debris portion of the non thermal treatment contract may have to be amended or terminated if an exemption is not obtained before treatment starts in FY 1999.</p>

TPA MILESTONE REVIEW	WASTE MANAGEMENT FEDERAL SERVICES OF HANFORD, INC. 1.2.2.1 SOLID WASTE TREATMENT	MAY 1998
-------------------------	--	----------

M-91 ISSUES

TPA MILESTONE	DATE IDENT	ISSUE	IMPACT	STATUS
M-91-04 & M-91-07	10/97	TRU Retrieval activities in FY 1999 are currently unfunded..	Will impact baseline capital construction in later years and place M-91-04 and M-91-07 in jeopardy.	A change request has been approved to provide \$100K in expense funding in FY 1998 to explore simplified retrieval alternatives to meet required start and completion dates. RL is in the process of re-prioritizing FY 1999 funding.
M-91-10	10/97	Funding for the LLMW and GTC3 PMP was not received until June 1998.	Delay start from January to June 1998 does not support the June 1999 Milestone to complete the PMP.	Alternatives for accelerating the PMP are being evaluated.

PERMITS AND CLOSURE PLANS

Milestone M-20-00

E. M. Mattlin

Environmental Assurance, Permits
and Policy Division
U.S. Department of Energy
Richland Operations Office

June 23, 1998

MILESTONE DESCRIPTION

M-20-00

Submit Part B Permit Applications or closure plans for all RCRA TSD Units (2-00)

Deliverable(s)

Complete individual TSD unit submittals in accordance with Appendix D Work Schedules

ACCOMPLISHMENTS (last three months)

Closure Plans

- Submitted NOD Response Table and revised closure plan for the 324 REC/HLV (3/31/98)
- Completed closure of the 222-S Laboratory Complex storage structures
- The administrative closure of the ISO West Interim Organic Storage Tank at the B Plant Complex was accepted by Ecology and sent for public review
- Submitted 100-D Pond Closure Plan for inclusion in Modification D of the Hanford Facility RCRA Permit

ACCOMPLISHMENTS (last three months)

Closure Plans (cont'd)

- Revised the Phase 2 Decontamination and Inspection Plan for the 300 Area Waste Acid Treatment System
- Removed sumps and completed sampling and analysis activities at the 3718-F Alkali Metal Storage and Treatment Facility
- Closure Plans for the following units were sent for public review. These closure plans will be included in Modification D of the Hanford Facility RCRA Permit:
 - 1301-N Liquid Waste Disposal Facility
 - 1324-N Surface Impoundment
 - 1324-NA Percolation Pond
 - 1325-N Liquid Waste Disposal Facility

ACCOMPLISHMENTS (last three months)

Part A

- Submitted revised Part A permit application, Form 3s, for the following units:
 - Central Waste Complex, Revision 6 (5/98)
 - Waste Receiving and Processing Facility, Revision 2 (5/98)
 - Liquid Effluent Retention Facility, Revision 6 (5/98)
 - 200 Area Effluent Retention Facility, Revision 3 (5/98)
 - 105-DR Large Sodium Fire Facility, Revision 4 (5/98)

- Conducted sampling of suspect areas at the 2727-WA SRE Sodium Storage Building in support of procedural closure of this unit

ACCOMPLISHMENTS (last three months)

Part B

- Submitted Dangerous Waste Part B permit applications for inclusion in Modification D of the Hanford Facility RCRA Permit for the following units:
 - Central Waste Complex
 - Waste Receiving and Processing Facility

- Submitted information for 325 Hazardous Waste Treatment Units as required by Hanford Facility RCRA Permit Conditions III.6.B.e., III.6.B.h, III.6.B.j., and III.6.B.o.

Form 2

- Submitted revised Form 2 for the 3000 Area requesting that the RCRA Site ID# be canceled

ACCOMPLISHMENTS (last three months)

Hanford Facility RCRA Permit

- Quarterly Class 1 modification package submitted to Ecology in accordance with Permit Condition I.C.3 (04/10/98)
- Submitted Class 2 and 3 Permit modifications for inclusion in Modification D of the Hanford Facility RCRA Permit for the following units:
 - Liquid Effluent Retention Facility and 200 Area Effluent Retention Facility
 - 242-A Evaporator
 - 325 Hazardous Waste Treatment Units
 - 305-B Storage Facility
 - 616 Nonradioactive Dangerous Waste Storage Facility
 - 300 Area Process Trenches

ACCOMPLISHMENTS (last three months)

Hanford Facility RCRA Permit (cont'd)

- Submitted Revision 4 of the Hanford Facility Dangerous Waste Permit Application, General Information Portion (DOE/RL-91-28) for inclusion in Modification D of the Hanford Facility RCRA Permit
- Submitted Hanford Site Annual Dangerous Waste Report electronically (4/13/98)
- Submitted draft building emergency plan revisions for final status and Modification D operating TSD units to Ecology for review (4/15/98)
- Completed annual high river inspection (4/28/98)
- Completed annual 100 Area inspection (6/9/98)

PLANNED ACTIONS (next six months)

Closure Plans

- Submit closure plans for inclusion in Modification E of the Hanford Facility RCRA Permit for the following units:
 - Transuranic Storage and Assay Facility
 - 616 Nonradioactive Dangerous Waste Storage Facility
 - 300 Area Waste Acid Treatment System
- Issue Phase 3 decontamination and inspection plan for the 300 Area Waste Acid Treatment System
- Begin closure activities for the 2401-W storage building

PLANNED ACTIONS (next six months)

Closure Plans (cont'd)

- Complete closure activities for the 3718-F Alkali Metal Storage and Treatment Facility
- Establish closure strategy for the 1706-KE Waste Treatment System
- Establish path forward for cleanup actions needed at the 303-K Storage Facility

PLANNED ACTIONS (next six months)

Part A

- Submit revised/new Hanford Facility Dangerous Waste Part A Permit Application, Form 3s, for the following units:
 - 222-S Laboratory Complex, Revision 7
 - T Plant Complex, Revision 6
 - Plutonium Finishing Plant, Revision 0
 - Low-Level Burial Grounds, Revision 11

- Submit Notices of Intent for expansion of interim status capacity at Hanford to address the following units:
 - Immobilized Low-Activity Waste Storage Unit
 - Immobilized High-Level Waste Interim Storage Unit

PLANNED ACTIONS (next six months)

Part A (cont'd)

- Complete procedural closure for the following units:
 - 221-T Containment Systems Test Facility
 - 2727-WA SRE Sodium Storage Building

- Transfer co-operator responsibilities from the Fluor Daniel Hanford Company to Bechtel Hanford Inc. for the following units:
 - 600 Area Purgewater Storage and Treatment Facility
 - PUREX Plant

Part B

- Discuss Double-Shell Tank System Part B finalization schedule

PLANNED ACTIONS (next six months)

Hanford Facility RCRA Permit

- Submit Quarterly Class 1 modification packages to Ecology in accordance with Permit Condition I.C.3 (7/10/98, 10/10/98)
- Support Modification D efforts as necessary
- Begin 45-day Public Comment Period for Modification D (7/20/98)
- Support Public Hearing for Modification D (8/5/98)
- Ecology issue Revision 5 of the RCRA Permit (10/2/98)
- RCRA Permit, Revision 5 becomes effective (11/2/98)

PLANNED ACTIONS (next six months)

Hanford Facility RCRA Permit (cont'd)

- Submit waste pipeline schematics for areas inside the fences of 200 East, 200 West, 300, 400, 100-N, and 100-K Areas (9/28/98)
- Submit waste pipeline maps for areas inside the fences of 200 East, 200 West, 300, 400, 100-N, and 100-K Areas (9/28/98)
- Complete annual 300 Area inspection (7/98)
- Complete annual 200 East Area inspection (7/98)
- Complete annual low river inspection (9/98)
- Submit Annual Closure Cost Estimate Report to Ecology (10/31/98)

ISSUES

- P.E. certification of drawings and calculations associated with container management units
- Closure requirements for 303-K
- 222-S Laboratory Complex Part B submittal date

**Interim Status Dangerous Waste Tank
Systems Hanford Federal Facility
Agreement and Consent Order
Milestone M-32-00**

June 23, 1998

Milestone Description

"Complete Identified Dangerous Waste Tank Corrective Actions" - September 1999

M-32-00 establishes Tri-Party Agreement compliance schedules for correcting known compliance deficiencies in certain Hanford interim status dangerous waste tank systems while allowing the continued operation of those tank systems.

**Interim Status Dangerous Waste Tank Systems
Milestone M-32-00
Project Manager's Assessment**

Interim Milestone	Description	RCRA Compliance	Customer	Technical	Schedule	Cost
M-32-01	Complete PFP Actions	<input type="checkbox"/>				
M-32-02	Complete 219-S Action	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	↓	↓
M-32-03	Complete T Plant Actions	<input type="checkbox"/>				
M-32-04	Complete DST Actions	<input type="checkbox"/>				
M-32-05	Complete B Plant Actions	<input type="checkbox"/>				

Legend:

Good Performance

↓ Worsened Future Outlook

F. R. Miera
RL Project Manager

Date

Interim Milestone M-32-02 219-S (222-S Lab)

Significant Accomplishments (last three months)

- **Project W-178 (tank system upgrades): Incorporated Value Engineering initiatives into project work plans.**

Significant Planned Activities (next six months)

- **Project W-178 (tank system upgrades): Empty 219-S tanks 101 and 102. Remobilize project team and restart construction activities. Remove tanks 101 and 102.**

Issues

- **Project W-178 (tank system upgrades): Construction activities were stopped in April 1998 until 219-S tanks could be emptied. PCB questions, which caused the delay, were resolved on June 11th. A waste transfer is scheduled for June 23rd. The construction subcontractor has been directed to remobilize and a July 20th work restart is planned. Existing budgets are inadequate to complete the upgrades. Sources for meeting the funding shortfall are being explored. These issues put the TPA interim milestone in jeopardy.**

Significant Planned Activities (next six months)

- **Project W-259 (2706-T upgrades): Complete remaining construction activities. Begin operational testing of air and sanitary water lines, electrical systems, waste transfer lines, fire system, and punch-list items. Begin WMH internal readiness activities and FEB readiness assessment.**