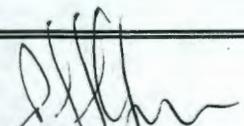
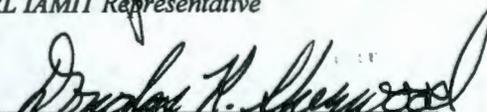
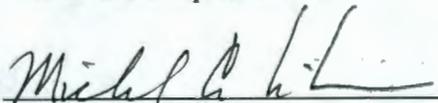


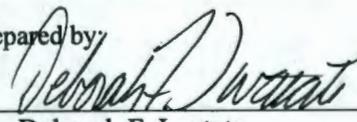
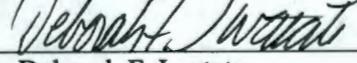
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Meeting Minutes
Major Milestone Management Review
Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)
August 24th, 1999

Approval:  Date: 12/22/99
Peter M. Knollmeyer (A5-11)
RL IAMIT Representative

Approval:  Date: 12/15/99
Douglas K. Sherwood (B5-01)
EPA IAMIT Representative

Approval:  Date: 12/15/99
Michael A. Wilson (B5-18)
Ecology IAMIT Representative

Minutes Prepared by: 
Approval:  Date: 12/17/99
Deborah F. Iwatate (A5-15)
Fluor Daniel Hanford, Inc.

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Black, G. L.	BHI	H0-11 *	Murphy-Fitch, E. J.	EDMC	A1-14 *
Cusack, L.	Ecology	B5-18 *	Piippo, R. E.	FDH	A5-15 *
Hedges, J. A.	Ecology	B5-18 *	Rodriguez, H. M.	RL	A5-15
Hertzel, J. S.	FDH	H8-67 *	Rogers, L. E.	RL	R3-79
Hopkins, A. M.	FDH	L5-65 *	Romine, L. D.	RL	R3-79
Huston, D.	OR Energy		Rowland, D.	YN	
Hughes, M. C.	BHI	H0-09	Sanders, G. H.	RL	A5-15 *
Iwatate, D. F.	FDH	A5-15 *	Sherwood, D. R.	EPA	B5-01 *
Jarvis, M. F.	RL	A5-15	Skinnarland, E. R.	Ecology	B5-18
Kjarmo, K. J.	CH2MH	A1-14 *	Stanley, R.	Ecology	Lacey *
Knollmeyer, P. M.	RL	A5-11	Stone, A.	Ecology	B5-18
Lutter, D. K.	PNNL	P8-34	Thompson, K. M.	RL	
Mohan, S.	Ecology	B5-18	Wilson, M. A.	Ecology	B5-18 *
Morrison R. D.	FDH	A1-14 *	Yerxa, J. K.	RL	A5-15
			Administrative Record	EDMC	H6-08 *

* w/Attachments

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Environmental Restoration (ER) Project Quarterly Review

DOE Division Director: R. A. Holten/R. E. Gerton
Contractor Manager: J. L. Walsh
Presenter: S. N. Balone

Milestones presented:

- M-13-00 Complete RI/FS Submittals
- M-15-00 RI/FS Process Completion
- M-16-00 Complete Remedial Action
- M-24-00 RCRA Well Installation
- M-93-00 Disposition of Surplus Reactors

Presentation information is provided in handout /Attachment 1. Additional items discussed during the presentation includes:

- Ten of 11 milestones scheduled for completion in FY 1999 were completed on, or ahead of, schedule. A single, remaining/ongoing milestone, will be completed on schedule.
- Three Tri-Party Agreement (TPA) Change Requests were approved during the third quarter of FY-1999 (April – June).
- Remediation work (soil excavation) continued, on schedule, at the B/C, D, DR, HR, and 300 Areas.
- Excavation of the B/C plumes was completed and backfill of the site is underway.
- Construction of two new cells at the Environmental Restoration Disposal Facility (ERDF) is proceeding ahead of the Detailed Work Plan (DWP) schedule.
- The Groundwater/Vadose Zone Integration (GWVZ) Project Description Document was issued.
- Several system assessment capability documents were completed and drafts transmitted for review. Public interface continued.
- Five pump and treat systems are operating at or above planned availability for the quarter.
- FY 1999 demolition activities were completed at the F- and DR-Reactor Interim Safe Storage (ISS) project.
- Engineering was initiated on F-Reactor fuel storage basin removal and on the F and DR safe storage enclosure (roof structure).
- Demolition of the 108-F Biology Laboratory is proceeding ahead of schedule.
- Decommissioning work at the 233-S Facility continues to improve as the project recovers from schedule delays related to greater-than-anticipated hazards discovered earlier this fiscal year.
- Efficiency savings in other ER restoration activities have allowed for the acceleration of demolition of the D and DR stacks from FY 2000 to FY 1999.

Surveillance and Maintenance (S&M) activities of deactivated facilities continued.

- Roof repairs on the N and K Area Reactor buildings are in progress.
- Inspection of cells at the 221-U Facility as part of the Canyon Declaration Initiative (CDI) continued.
- The 105-B Hazards Assessment and Characterization Report was issued on schedule.

Turnover of B-Plant from the PHMC to ER was discussed.

- Funding to support annual roof inspections has been impeding the turnover of the facility to ER (required roof inspection estimated to cost \$100,000).

NOTE: At the time of preparing these meeting minutes this item was stasured as follows:
B-Plant was transitioned from EM-60 to EM-40 on September 30, as scheduled. Open items that remained at transition were documented for resolution.

Two TPA milestones for FY-2000 and FY-2001 are in jeopardy.

- TPA Milestone M-16-07B (Complete Remediation and Backfill of 22 Waste Sites at 100 DR), due April 30th, 2000 - was impacted due to the discovery of additional plumes and is forecast for completion in December 2000.
- TPA Milestone M-16-26B (Complete Remediation and Backfill of 51 Sites at B/C, DR and HR), due February 28th, 2001 - was impacted by the BC pipeline and is forecast for completion in FY 2003. Formal discussions need to be initiated.

Other issues impacting ER activities include:

- FY 1999 capital funds for groundwater monitoring wells have been depleted. No funds have been identified in out years.
- Operable Units (200 Area Assessment) need to be reprioritized to more appropriately align with Office of River Protection (ORP) tank farm assessment activities. Dialogue continues.

M-82-00 B-Plant Transition

DOE Division Director: L. D. Romine
Contractor Manager: L. J. Olguin
Presenter: L. E. Rogers

Presentation information is provided in handout /Attachment 2.

TPA Milestone M-82-00 (Complete B-Plant Transition to S&M Phase), due September 30th, 1999, is forecast for completion approximately three months late. Comment resolution on the environmental documentation, S&M Plan and the Pre-Closure Work Plan continues.

M-83-00 Plutonium Finishing Plant

DOE Division Director: L. D. Romine
Contractor Manager: L. J. Olguin
Presenter: W. D. Seaborg

Presentation information is provided in handout/Attachment 3.

Status of Plutonium Finishing Plant (PFP) Stabilization Project was provided. Chemical Hazard Mitigation corrective actions, identified during the Ecology compliance inspection, are complete.

Stabilization accomplishments included closure of the unreviewed safety question (USQ) associated with the metal opening hazards evaluation. Approval was also received for the Final Safety Analysis Report (FSAR), Revision 1, and the Environmental Impact Statement (EIS). Processing of sludge feed material was started on July 15th, 1999. PFP issues currently being worked include identifying transition activities, scheduling those activities and, the timely and definitive waste/material designations (needed for management of wastes and materials).

M-89-00 324 Building Closure of Mixed Waste Units

DOE Division Director: L. D. Romine
Contractor Manager: L. J. Olguin
Presenter: D. W. Templeton

Presentation information is provided in handout/Attachment 4.

Unresolved issues with the TRU/LLW classification of grout containers continue to impact B-Cell activities. Shipment of all grout containers was suspended pending resolution of TRU/LLW characterization issues. The inability to ship grout containers is causing space limitations in B-Cell. Legacy grout containers in B-Cell cannot be shipped to the 200 Area Burial Grounds until waste designation is confirmed. Newly generated grout containers cannot be shipped at this time due to questions on the TRU/LLW classification. Intensive shipping effort will be required through winter to get back on track. The Project is looking at innovative ways to catch up. If the activities cannot be accomplished in accordance with the TPA milestone, the regulators will be notified.

M-92-00 Facilities for Cesium/Strontium, Sodium and Special Case Waste

DOE Division Director: L. D. Romine
Contractor Manager: L. J. Olguin
Presenter: D. W. Templeton

Presentation information is provided in handout/Attachment 5.

To date, all M-92 activities have been completed on or ahead of schedule. All future milestones are forecast to be completed on or ahead of schedule - with two exceptions: M-92-09 and M-92-10. These milestones are associated with the Fast Flux Test Facility (FFTF) and are on hold pending the FFTF Mission Decision.

M-81-00 Fast Flux Test Facility

DOE Division Director: O. A. Farabee
Contractor Manager: D. B. Klos
Presenter: O. A. Farabee

Presentation information is provided in handout/Attachment 6.

The FFTF EIS process change notice was signed by Ecology and has been transmitted to EPA for signature. The comment resolution packages have been transmitted. The Notice of Intent will be published in the Federal Register in mid-September. The Record of Decision (ROD) is scheduled for December 2000 and completion of the EIS for the fall of CY-2000. DOE-HQ committed to having the

Draft EIS completed and issued by October 31st, 1999. Public meetings will be held in Washington State (Seattle and Richland), in Oregon (Portland and Hood River) and in Washington, D.C.

AGENDA
TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW
CHAIRPERSON: J. E. Kinzer (acting for P. M. Knollmeyer)

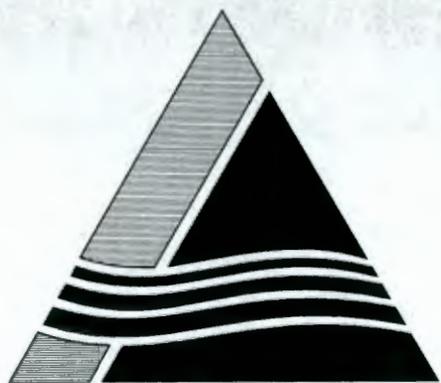
TUESDAY, August 24, 1999

712 Swift Blvd., Suite 5, EPA Conference Room

<u>TIME</u>	<u>MILESTONE</u>	<u>TITLE</u>	<u>RL DIVISION DIRECTOR</u>	<u>CONTRACTOR MANAGER</u>	<u>PRESENTER</u>
9:00 am	M-13-00	Complete RI/FS Submittals	R. A. Holten/R. E. Gerton	J. L. Walsh	S. N. Balone
	M-15-00	RI/FS Process Completion	R. A. Holten/R. E. Gerton	J. L. Walsh	S. N. Balone
	M-16-00	Complete Remedial Actions	R. A. Holten/R. E. Gerton	J. L. Walsh	S. N. Balone
	M-24-00	RCRA Well Installation	R. A. Holten/R. E. Gerton	J. L. Walsh	S. N. Balone
	M-93-00	Disposition of Surplus Reactors	R. A. Holten/R. E. Gerton	J. L. Walsh	S. N. Balone
10:30 am	M-82-00	B-Plant Transition	L. D. Romine	L. J. Olguin	L. E. Rogers
	M-83-00	Plutonium Finishing Plant	L. D. Romine	L. J. Olguin	W. D. Seaborg
	M-89-00	324 Bldg. Closure of MW Units	L. D. Romine	L. J. Olguin	D. W. Templeton
	M-92-00	Facilities for Cesium/Strontium, Sodium and Special Case Waste	L. D. Romine	L. J. Olguin	D. W. Templeton
	M-81-00	Fast Flux Test Facility	O. A. Farabee	D. B. Klos	O. A. Farabee

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

August 24, 1999

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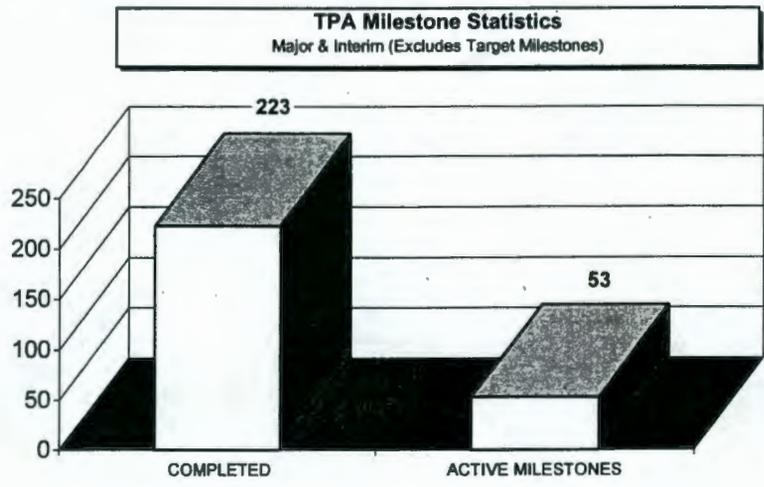
- Remedial Action/Waste Disposal Projects
- Groundwater/Vadose Zone Integration Project
- Decommissioning Projects
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4. CURRENT ISSUES

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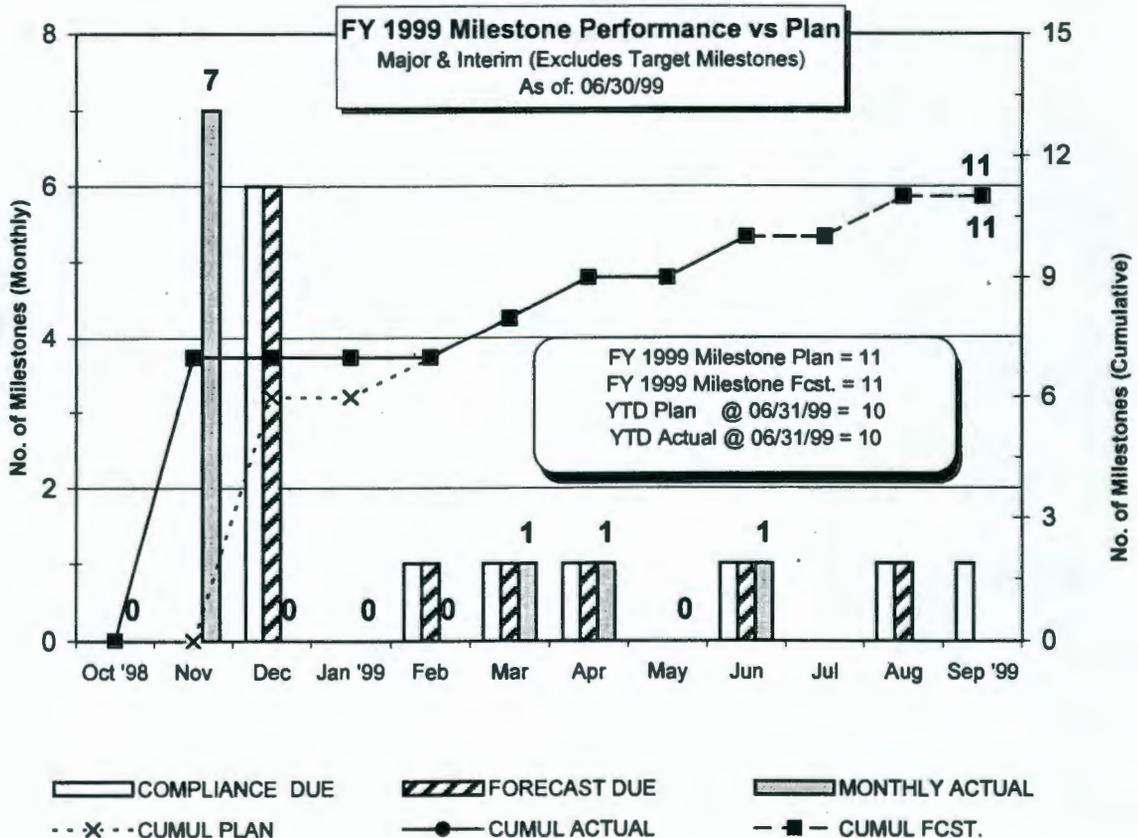
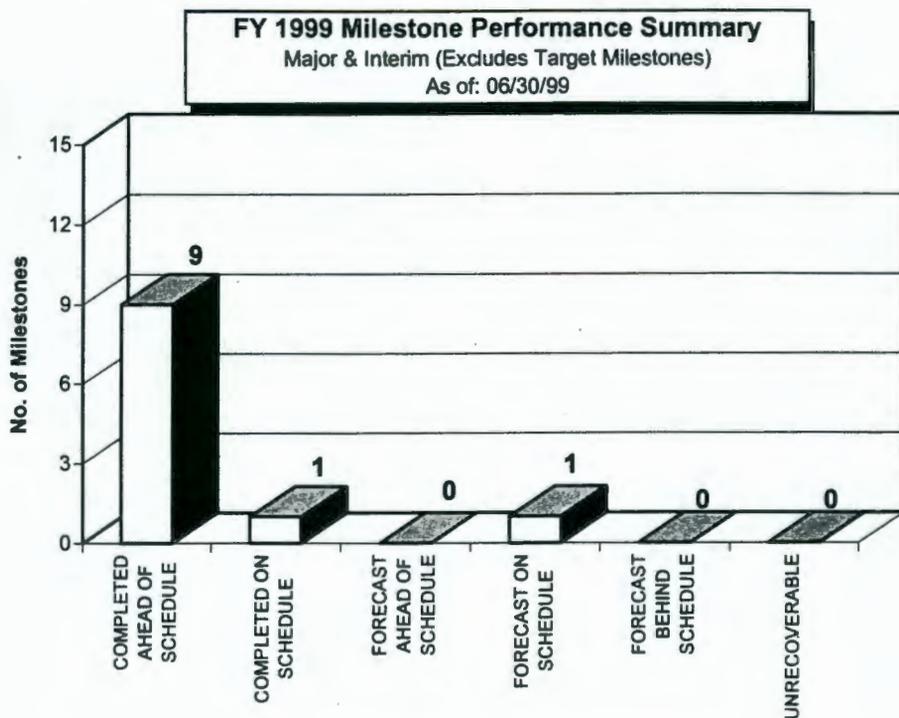
- Overview
- TPA Schedule
- Project Performance



TPA Milestone Statistics
Major & Interim (Excludes Target Milestones)

	Compliance Due Date	Total Active @ 8/99	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date
M-13-00 Submit Workplans for RFI/CMS or RI/FS Studies	12/31/2005 (M-13-00P)	10	M-13-00K	12/31/2000	M-13-19 (C)	02/28/1999
			M-13-00L	12/31/2001	M-13-20 (C)	04/30/1999
			M-13-00M	12/31/2002	M-13-21	08/31/1999
			M-13-00N	12/31/2003	M-13-22	12/31/1999
			M-13-00O	12/31/2004	M-13-23	04/30/2000
			M-13-00P	12/31/2005	M-13-24	08/31/2000
M-15-00 Site Investigations / Feasibility Studies	12/31/2008 (M-15-00C)	5	M-15-00	12/31/2008		
			M-15-00A	12/31/1999		
			M-15-00B	12/31/1999		
			M-15-00C	12/31/2008		
			M-15-23B	11/30/1999		
M-16-00 Remedial Design / Remedial Action	9/30/2018 (M-16-00)	16	M-16-00	09/30/2018	M-16-08B	03/31/2000
			M-16-00A	TBD	M-16-10A	07/31/2002
			M-16-00B	TBD	M-16-13A	01/31/2000
			M-16-00F	12/31/2001	M-16-13B	08/31/2003
			M-16-01	TBD	M-16-26A (C)	03/31/1999
			M-16-03A	06/30/2002	M-16-26B	02/28/2001
			M-16-03E	12/31/2000	M-16-26C	08/31/2000
			M-16-03F	TBD	M-16-92B	12/31/1999
			M-16-07B	04/30/2000		
M-20-00 Submit Closure Plans for All RCRA TSD Units	(Shared with PHMC) 2/28/2004 (M-20-54)	5	M-20-33	10/31/2003		
			M-20-39	02/28/2003		
			M-20-52	12/31/2003		
			M-20-53	12/31/2003		
			M-20-54	02/28/2004		
M-24-00 RCRA Groundwater Monitoring	12/31/2003 (M-24-00C)	10	M-24-00J (C)	12/31/1998	M-24-41	02/29/2000
			M-24-00K	12/31/1999	M-24-42	02/29/2000
			M-24-00L	12/31/2000	M-24-43	02/29/2000
			M-24-00M	12/31/2001	M-24-44	02/29/2000
			M-24-00N	12/31/2002	M-24-45	02/29/2000
			M-24-00O	12/31/2003		
M-70-00 ERDF Operational	7/01/1996A (M-70-00)	0				
M-93-00 Reactors on River Final Disposition	TBD (M-93-00)	7	M-93-00	TBD	M-93-11	09/30/2003
			M-93-04 (C)	06/30/1999	M-93-12	02/28/2002
			M-93-05	06/30/2000	M-93-14	06/30/2003
			M-93-10	07/31/2003	M-93-15	12/31/2003

FY 1999 TPA MILESTONE PERFORMANCE



TPA Third Quarter Review

**FY 1999 TPA MILESTONE SUMMARY AS OF 6/30/99
(Excludes Target Milestones)**

Item	FY99 Month	Milestone	Description	Compliance Due Date	Forecast/ Actual Date	Completed		Forecast			Unrecov erable	Deleted
						Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
1	Dec-98	M-24-36	Install one (1) Replacement RCRA Well for the 216-U-12 Crib	12/31/98	11/25/98A	X						
2		M-24-37	Install two (2) Replacement RCRA Wells for the SST WMA T	12/31/98	11/25/98A	X						
3		M-24-38	Install four (4) Replacement RCRA Wells for the SST WMA	12/31/98	11/25/98A	X						
4		M-24-39	Install two (2) Replacement RCRA Wells for the SST WMA U	12/31/98	11/25/98A	X						
5		M-24-40	Install one (1) Additional RCRA Wells for the SST WMA B-BX-BY	12/31/98	11/25/98A	X						
6		M-24-00J	Install RCRA Groundwater Monitoring Wells @ the Rate of 0 to 50 in CY 1998 (if Required)	12/31/98	11/25/98A	X						
7	Jan-99	C-10-06	The Hanford Site Waste Management Units Report	01/31/99	12/28/98A	(Compliance Milestone completed but not included in total)						
8	Feb-99	M-13-19	Submit 200 North Pond Cooling Water Group Work Plan	02/28/99	11/02/98A	X						
9	Mar-99	M-16-26A	Initiate Remedial Action for 100-HR-1 Operable Unit	03/31/99	03/17/99A	X						
10	Apr-99	M-13-20	Submit 200 Gable Mountain /B Pond and Ditch Cooling Water Group Work Plan	04/30/99	04/29/99A	X						
11	May-99	¹ M-16-03D	Complete Remediation of the Waste Sites in the 300-FF-1 Operable Unit	05/31/99	08/31/01F							X
12	Jun-99	M-93-04	Submit 105-B Hazards Assessment and Characterization Report to EPA	06/30/99	06/30/99A		X					
13	Aug-99	M-13-21	Submit Chemical Sewer Group Work Plan	08/31/99	08/31/99F				X			
14	Sep-99	² M-16-08B	Complete Remediation and Backfill of 19 Liquid Waste Sites in 100-BC-1 and 100-BC-2 Operable Units	03/31/00	12/31/00F							
TOTAL FY 1999 TPA Milestones				11	10 (A); 1 (F)	9	1	0	1	0	0	1

¹M-16-03D Change Request M-16-98-05 deletes this milestone and replaces it with new milestones M-16-03E, due date 12/31/2000; and M-16-03F, due date TBD.

²M-16-08B Evacuation and Backfill in 100-BC-1/100-BC-2 Operable Units is delayed due to the discovery of Chrome 6. TPA Change Request M-16-99-01, extends the completion date to 03/31/2000.

Third Quarter TPA Change Requests (April - June 1999)

Approved Change Control

M-16-98-05
Remedial Design /
Remedial Action
Approved 03/19/99

This change request deleted M-16-03D milestone and replaces it with two M-16-03E and M-16-03F outyear milestones.

M-16-03D (Deleted) Complete remediation of the waste sites in the 300-FF-1 Operable Unit as defined in the *Remedial Design Report/Remedial Action Work Plan* for the 300-FF-1 Operable Unit.

M-16-03D Replaced by:

M-16-03E (12/31/00) Complete remediation of the waste sites in the 300-FF-1 Operable Unit (Excluding the 618-4 Burial Ground), to include excavation, verification, and backfilling.

M-16-03F (TBD) Complete excavation, verification, soil and drummed waste treatment and disposal, and backfilling of the 618-4 Burial Ground.

M-16-99-01
Remedial Design /
Remedial Action
Approved 06/14/99

M-16-08B Complete Remediation and Backfill of 19 Liquid Waste Sites in the 100-BC-1 and 100-BC-2 Operable Units as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area from September 30, 1999 to March 31, 2000.

M-24-99-01
RCRA Groundwater
Monitoring
Approved 06/18/99

This change request establishes Calendar Year 1999 Interim Milestones for RCRA Well Installation.

The following RCRA well locations are in support of Milestone **M-24-00K**, "Install RCRA groundwater monitoring wells at the rate of...up to 50 per year..."

M-24-41 Install three (3) additional RCRA wells for the SST WMA S-SX 02/29/00

M-24-42 Install one (1) replacement RCRA well for the 216-S-10 Pond 02/29/00

M-24-43 Install one (1) additional RCRA well for the SST TX-TY 02/29/00

M-24-44 Install one (1) RCRA well for the 216-B-3 Pond (This is an extension of the CERCLA vadose borehole) 02/29/00

M-24-45 Install two (2) additional RCRA wells for the SST WMA B-BX-BY 02/29/00

Bold/Underlined = Added and Text Changes

~~Strike Through = Text Deletions~~

STATUS BY PROJECT

Overall Status

Remediation work continued at the B/C, D, DR, HR, and 300 Areas, where soil excavation work is proceeding on schedule. Construction of two new cells at the Environmental Restoration Disposal Facility (ERDF) is proceeding ahead of the Detailed Work Plan (DWP) schedule. Excavation of the B/C plumes was completed, and backfill of the site is underway.

B/C Area Remediation.

- Excavation of the B/C plumes was completed on May 20. The last containers of contaminated material were shipped from the 100-B/C Areas.
- EPA approval to backfill 116-C-5, 116-B-11, 116-B-13, and 116-B-14 has been received.
- Since inception 621,174 metric tons (684,731 tons) have been removed and transported to ERDF from 100-B/C.

D Area Remediation.

- The major D Area excavation activities occurred at the 100 DR effluent pipeline removal site. A mechanical shear is being used to enhance pipe cutting and safety. A total of 514,405 metric tons (567,037 tons) of material have been excavated and disposed of since work began in November 1996.
- Excavation of overburden continued on various effluent pipelines associated with the 116-D-7 and 116-DR-9 Retention Basins.
- Asbestos abatement and cutting of the 60-inch pipeline are in progress.
- As part of the waste minimization effort, segregation of contaminated and clean soils continued the DR site.

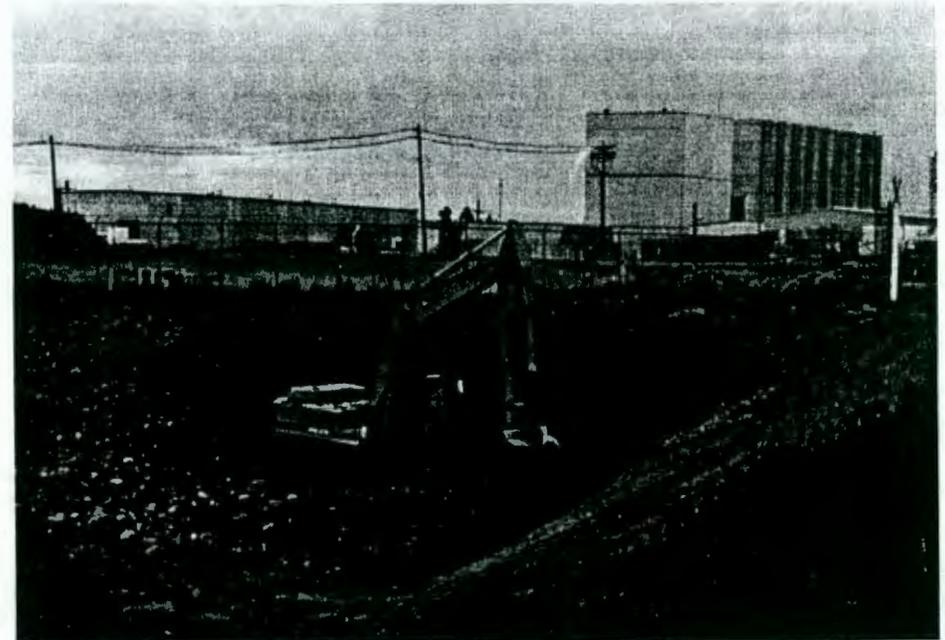
H Area Remediation.

- Excavation initiated mid-March (two week ahead of schedule).
- April survey results indicate that all overburden removed from the site is contaminated. This trend will result in a significantly higher volume of contaminated waste than expected.
- Concrete demolition of the 116-H-7 structure was initiated in May. 74,738 metric tons (82,385 tons) of material have been removed and

disposed in FY 1999 from 116-H-7 and 116-H-1.

300 Area Remediation.

- Remediation work continued at the 300 Area South Process Ponds. 282,982 metric tons (311,936 tons) of material have been removed and disposed to date from 300-FF-1.



- Excavation is complete in the North Process Pond. Field surveys indicate the cleanup criteria have been met. Data will now be compiled into a site verification report.
- Draft A was completed for the *Final Hazard Classification and Auditable Safety Analysis (FHA/ASA)* for the 300-FF-1 Remedial Action Project.

300 Area Remediation (continue).

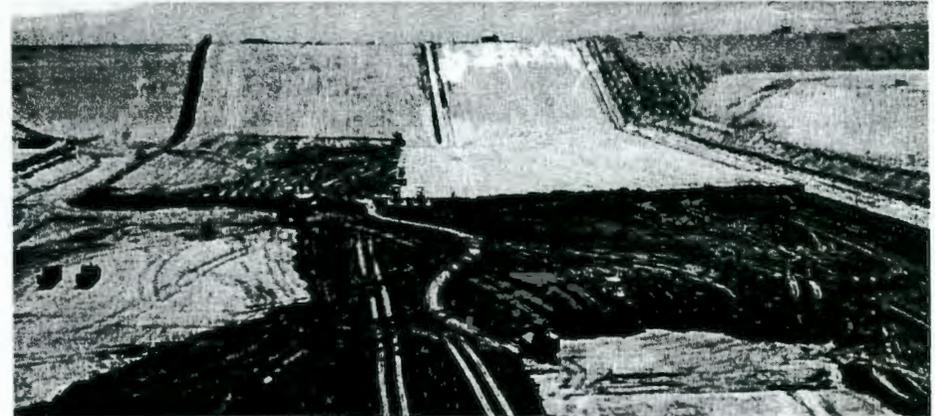
- Discussions are underway with Fluor Daniel Hanford (FDH) to potentially utilize the FDH contract for thermal treatment of wastes (when the incinerator under construction in Richland is operational). If the 618-4 uranium drums can be treated under the terms of the FDH contract, and certain transportation issues can be resolved, the cost of treatment could become more competitive with other options. Public review of the owner's permit is underway, and the site could be ready to receive waste in mid to late 2000.
- A vendor proposal has been received for treating the drums of depleted uranium from the 618-4 Burial Ground.

ERDF Operations.

- For FY99, 447,801 metric tons (493,619 tons) of contaminated waste have been transported to ERDF. Since inception, a total of 1,538,015 metric tons (1,695,380 tons) have been received.
- Leachate collection activities continued.
- The subcontractor is replacing the XR-5 liner in Leachate Tank #1 with an 80-mil high-density polyethylene (HDPE) material.
- Lead debris from the 108-F, 105-DR, and 105-C demolition projects was macro-encapsulated at the ERDF using a High-Density Polyethylene (HDPE) burial box. The HDPE box shows every indication of providing the lowest cost method for lead disposal to date.

ERDF Cells 3 and 4 Construction.

- ERDF expansion, i.e. construction of two new cells (#3 and #4), is proceeding about seven weeks ahead of the DWP schedule.
- Thru June, fabrication and installation of the Leachate Collection Recovery System is 75% complete.
- The placement of the operations layer soil in Cell #4 is 45% complete.
- 95% of Cells 3 and 4 primary geomembrane liner construction, including CQA buyoff, has been completed.



Overall Status

The Groundwater/Vadose Zone Integration (GWVZ) project *Project Management Plan* was approved. Several System Assessment Capability (SAC) documents have been completed and drafts were transmitted for review. Public interface on groundwater issues continued.

Five pump and treat systems are operating. Overall, the pump and treat units operated at or above planned availability.

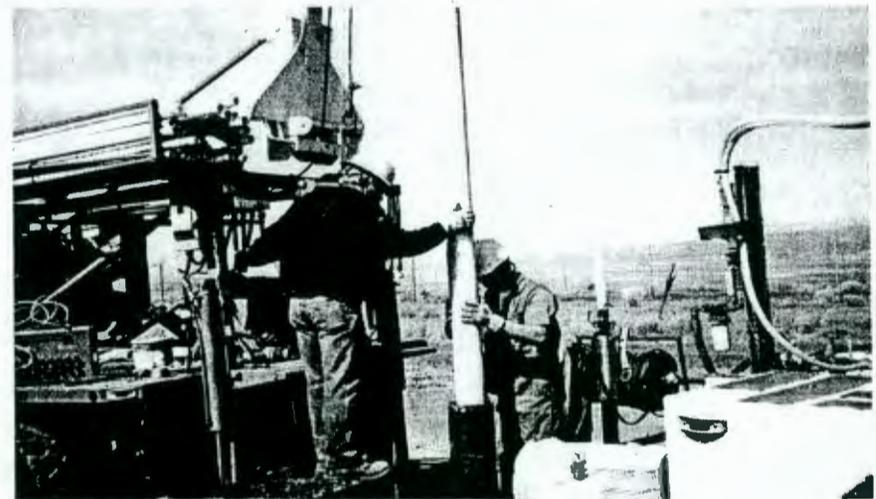
Groundwater/Vadose Zone activities:

- *Project Management Plan (PMP)*. BHI, PNNL, and FDH signed the GWVZ Project Management Plan on May 11. This plan defines Project Team roles and responsibilities, and the GWVZ project management approach.
- *Science & Technology (S&T)*. The integrated needs document was completed and issued for review. A soil inventory kickoff meeting was conducted that will include science and technology applications for remotely assessing soil conditions.
- *Hanford Integration*. Integration briefings were held with RL and Hanford contractors.
- *System Assessment Capability (SAC)*. The SAC Team met with the S&T Technical Elements Leads to provide input on the S&T Roadmap and identify links to the SAC Long-Range Plan. A Candidate Set for inventory was also drafted.
- *Public Involvement*. A meeting was held with City of Richland personnel to plan the GWVZ Project presentation for the upcoming September 15-17 "Energy Communities Alliance" Conference. An open Project Team Meeting was held and The Hanford Advisory Board (HAB) Committee was briefed. Project personnel participated in the American Society for Testing and Materials (ASTM) symposium on Environmental Toxicology and Risk Assessment that was held in Seattle. A meeting with the Army Corps of Engineers (Seattle district) was held to discuss the Project status and potential coordination of data. Project personnel hosted the Site Technology Coordination Group (STCG) Science Workshop in Richland. Regulatory Path Forward Work Group meetings were also conducted. The National Academy of Sciences (NAS) group that is investigating soil cleanup levels at the Hanford Site was briefed on

the GWVZ Project status. The GWVZ Integration Project Team met with the Nez Perce Tribe and their technical representatives. The Project Team also met with EPA and Ecology managers to discuss FY00 planning assumptions and the system assessment capability approach.

Groundwater Management activities:

- Five pump and treat systems are operating. The vapor extraction unit began FY99 operations on March 29, ahead of schedule and continues to operate as planned. The pump and treat units operated at or above planned availability for the quarter.



Well Drilling, Sampling, Maintenance, and Decommissioning.

- Sampling and analysis plans were completed for drilling 8 RCRA groundwater monitoring wells in 1999. Draft RCRA work descriptions for the new wells were completed. Fieldwork associated with aquifer testing on RCRA wells drilled in 1998 was completed.
- An agreement was reached with Ecology for constructing eight wells in calendar year 1999 (Milestone M-24-00 K).

Long-Term Monitoring.

- Through June, samples have been collected from 883 of 963 (includes a net 35 cancelled samples) planned monitoring wells for the fiscal year (92%).
- 7,571 analytical results were received out of 7,677 planned (99%) (does not include 171 analyses added).
- A new U.S. Geological Survey (USGS) National Seismic Network (NSN) station was installed on the Fitzner Eberhardt Wildlife Reserve. The station represents one of the first components of the NSN (operated by the USGS) that will form the Tsunami Warning System for the northern Pacific.

Interim Action Monitoring.

- The 100-HR-3 and 100-KR-4 Pump and Treat Operations and Operable Units Annual Summary Report was published. The Request for Proposal (RFP) for Well Maintenance and Well Sampling was also released. Bids have been received and are being evaluated.

200-ZP-1 Pump and Treat.

- Through June 246,212,000 liters of groundwater were processed, removing 935.12 kg of carbon tetrachloride. From inception to date, 861,082,000 liters have been processed.
- Extensive algae growth in the 200-ZP-1 air stripper tower reduced removal efficiencies in April. The treatment system was periodically placed in a re-circulation mode to comply with discharge limits. Algae was cleaned from the stripper tower and operating efficiency was restored.

200-ZP-2 Vapor Extraction.

- The 200-ZP-2, 500 cfm system operation restarted March 29 and is scheduled to operate the last six months of FY 99.
- Through June 1,570,981 cm³ of groundwater were processed, removing 447.10 kg of carbon tetrachloride. From inception to date, 84,019,981 cm³ have been processed.

N-Springs Pump and Treat.

- Through June, 127,520,000 liters of groundwater were processed, removing .14 curies of strontium. From inception to date, 431,299,000 liters have been processed.

HR-3 Pump and Treat.

- Installation of 12 remedial design wells began in early March to define the chromate plume.
- Design activities have been initiated for deployment of in situ reduction and oxidation (REDOX) manipulation in the 100 D Area.
- Through June, 204,497,000 liters of groundwater were processed, removing 23.79 kg of chromium. From inception to date, 540,220,000 liters have been processed, removing 62.311 kg of chromium.

KR-4 Pump and Treat.

- Through June 218,815,000 liters of groundwater were processed, removing 28.73 kg of chromium. From inception to date, 446,220,000 liters have been processed, removing 59.143 kg of chromium.

UP-1 Pump and Treat.

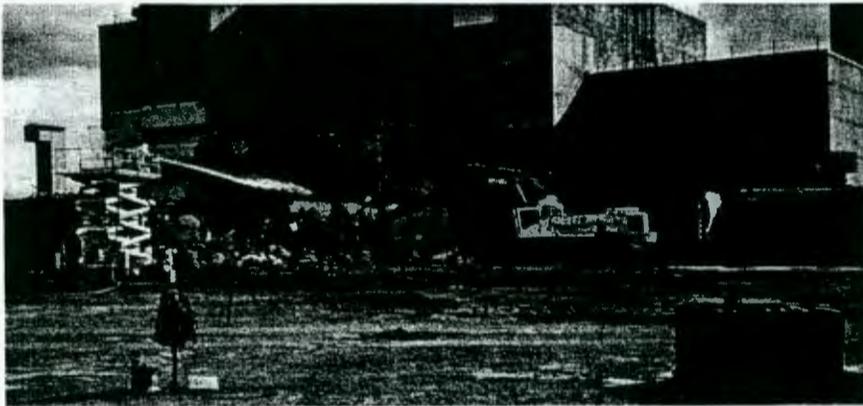
- Through June, 67,289,000 liters of groundwater were processed. 206,412,000 liters have been transported to the Effluent Treatment Facility (ETF) for processing. From inception to date, 342,778,000 liters have been processed at both facilities.

200 Area Remedial Actions.

- Public comments received for the *200 Area Remedial Investigation/ Feasibility Study (RI/FS) Implementation Plan (Draft B)* were dispositioned.
- The *200-BP-1 Prototype Barrier Treatability Test Report* for the Hanford Prototype Barrier was issued in June for review.
- Regulatory review comments on the *200-CW-1 Gable Mountain/B Pond Cooling Water OU RI/FS Work Plan Draft A*, were received and dispositioned.
- The internal review of the *200-CS-1 Chemical Sewer OU RI/FS Work Plan* was completed and the document is being finalized.

Overall Status

FY 1999 demolition activities were completed at the F & DR Reactor ISS project. Engineering was initiated on F Reactor fuel storage basin removal and on the F and DR safe storage enclosure (roof structure). Demolition of the 108-F Biology Laboratory is proceeding ahead of schedule. Decommissioning work at the 233-S Facility continues to improve, as the project recovers from schedule delays related to greater-than-anticipated hazards discovered earlier this fiscal year. Efficiency savings in other ER restoration activities have allowed for acceleration of demolition of the D and DR stacks from FY00 to FY99.



F/DR ISS.

- All FY 99 demolition work on DR Reactor was completed five weeks ahead of schedule. F Reactor FY99 ISS work was completed in March; three weeks ahead of schedule.
- The draft Phase III (below grade structures) sample and analysis plan (SAP) for the F and DR Reactors was completed and issued for review. (work in FY00)
- Preparation of the Phase III field investigation guide (FIG) was initiated.
- Engineering work began on the F Reactor fuel storage basin soil removal plan and the F and DR safe storage enclosure (SSE) design package.

108-F Building Demolition Project.

- Liquid pipe check activities and ceiling panel removal work were completed in June, and structural demolition was initiated. Work is about two weeks ahead of scheduled completion date of August 31, 1999.
- RL and the regulators have tentatively agreed to utilize the cement masonry unit (CMU) block that meets radiation release survey requirements as fill.
- Have agreement with the regulators to integrate demolition and site removal activities.

233-S Plutonium Concentration Facility Demolition.

- The 233-S hot trench decommissioning activity was completed.
- Neptunium Trench pipe removal, decontamination, and installation of pipe trench covers was completed ahead of schedule.
- Other work completed this period included testing a portable exhauster and preparation of the exhauster safety evaluation report, core drilling equipment testing, and installation of a ductwork trestle. During Process Hood HEPA filter replacement, the preliminary radiological survey data showed lower contamination levels than previously estimated.
- The project team successfully implemented the use of the Alpha Sentry Constant Air Monitors (ASC) at 233-S, which discriminate between Plutonium and Radon. The successful demonstration of this technology has encouraged other site contractors to evaluate the ASC for their use.
- The next phase of decommissioning activities at 233-S (approximately 2 years of scope) was initiated. Work now in progress includes installation of temporary ventilation, isolation of 233-SA, exhaust duct removal and roof decontamination, removal of the process hood PMMA panels, decontamination of the viewing room and process hood, and vessel removal.

Balance of Decommissioning Projects.

- *116-D/DR Stack Demolition.* Efficiency savings in other ER restoration activities have allowed for acceleration of demolition of the D and DR stacks from FY00 to FY99. *Explosive demolition of both stacks occurred on August 14.*

Overall Status

Surveillance and Maintenance (S&M) activities of deactivated facilities continued. Roof repairs on the N and K Area Reactor buildings are in progress. Inspection of cells at the 221-U facility as part of the Canyon Disposition Initiative (CDI) continued. The 105-B *Hazards Assessment and Characterization Report* was issued on June 30th, meeting TPA Milestone M-93-04.

Canyon Disposition Initiative (CDI).

- In June, 221-U Plant cells #22, #33 were inspected, and equipment categorization was initiated. A summary report is being prepared on the analysis of cells #5, #22, and #33. (Inspections were completed in April-May).
- Preparations for performing a vent tunnel inspection have been completed.

Facility Transition.

- The PUREX facility was transitioned to the ER Project from the Project Hanford Management Contract (PHMC) (EM-60 into EM-40) on April 21.

KE/KW

- Backfill of the 107-KW contaminated area site was completed. The work items completed include pipe removal, spraying contamination fixative inside pipes, and pipe cutting for disposal.
- Mobilization, container inspection, and identifying items to be sampled were completed for legacy waste removal at the 105-KE (front face).
- Subcontractor mobilization for making flashing repairs to the 105-KE and 105-KW Reactor building roofs commenced.

B Reactor Historical Museum.

- The 105-B *Hazards Assessment and Characterization Report* was issued June 30th, meeting TPA Milestone M-93-04.
- Waste segregation continued at the 105-B Reactor facility and the project began loading burial boxes in anticipation of the *Remaining Sites Rod* being approved allowing the waste to be shipped to ERDF.

Other S&M Activities.

- A safety evaluation is underway for stabilization of the hexone tanks at the 202-S REDOX facility. A nitrogen purge has been re-instituted as a precautionary measure until safety evaluation work is completed.
- A purchase order was issued to recalculate inventory levels in the Pu loadout hood. The project team began developing engineering alternatives for the removal of the Pu loadout hood.
- A contract for performing a safety evaluation of the explosion potential of the Hexone Tanks was awarded this period.
- Subcontractor completed 105-N roof foaming and commenced 109-N roof foaming.



Overall Status

ER Project functional organizations continued to support project activities as well as community involvement activities. The kickoff meeting for development of the FY00-FY02 Detailed Work Plan (DWP) was held on June 1. Development of project scoping statements are in progress. The DWP is scheduled for completion in September and will be implemented on October 1.

Compliance, Quality, Safety & Health

- Revision 1 of BHI-SH-03, Vol. 1, *Emergency Management Program Manual*, was completed and issued.
- Revisions to BHI-MA-02, Procedure 2.6, "Occurrence Reporting and Investigations" were prepared and issued as a result of a program self-assessment.
- A "Radiation Protection Program Compliance Table" was prepared in response to the latest amendments to the *Code of Federal Regulations* (10 CFR 835). A compliance schedule was also developed for implementing new requirements.
- An evaluation of fire supply water needs to the 100 Areas was made to assess changing conditions as facilities are taken out of service or decommissioned. Fire hydrants now in service will be maintained but those out of service will be removed and plates will be placed over the risers.
- The mid-year update to the *Hanford Site Environmental, Safety, and Health Fiscal Year 1998/1999 Execution Commitment* document was prepared.
- Virus detection software has been implemented on the ER electronic mail system.

Economic Development

- The ER Project continues to support the Hanford Site Economic Transition effort. Three cranes are being excessed from the 308-A Building: two from the 190-KW Building, one from 165-KW, and one from 184-N to the community. The total acquisition value is \$83,000. These items will go to businesses in the area to support economic development. This is a joint effort between RL, the ERC, and the PHMC.

External Affairs.

- ER Project participation in the community "Playground of Dreams" project began in April. The ER Project is a key sponsor in development of a children's playground that is being constructed near the recently developed Family Fishing Pond.
- A series of interviews was conducted with six students from local, Tri-Cities high schools, as part of the ER Project's support for the community's student Work Based Learning Program, wherein high school seniors obtain course credit while working part-time in ERC offices. This will be the third year of ER support for this program.



Planning & Controls

- Presentation packages were prepared and staff personnel supported various audits of the ER Baseline.
- The ER mid-year review document/presentation was completed and issued. The midyear review ER breakout session was held on May 17.
- The *FY 2000-2002 Detailed Work Plan (DWP) Development Process Guidance Document* was prepared and issued.
- *FY99 Project Baseline Summaries (PBSs)* were completed and submitted for incorporation into the Hanford Site submittal to HQ.
- A *Solid Waste Forecast* (planned and actual) was prepared and transmitted to the PHMC for inclusion in the Hanford Site overall forecast.
- DOE Secretary Richardson visited the Hanford Site on April 10. The ER Project provided support for the visit, and prepared briefing sheets on the Wahluke Slope for inclusion in the press kits.

Project and Program Support

- Proposals for obtaining technology development funding in FY00 were submitted to the DOE EM-50 Office of Science and Technology. Initial review indicates that ER proposals have been selected for funding. Key among the requests is funding for the Canyon Disposition Initiative.

Property Management

- The PUREX facility records were transferred to ER from PHMC in June. There are 793 records associated with this facility with an acquisition value of \$72.9 million. All PUREX property that could be devalued has been and fire codes have been reduced accordingly, to reduce site assessment costs.

Technology Development

- The broad spectrum of technologies that were considered to address strontium-90 contamination at the N Area Innovative Treatment Remediation Demonstration (ITRD) project has been reduced to seven. A combination of technologies will likely be used in a treatment train to address strontium contamination in the GW/VZ.

- The *ERC Criteria and Review Approach Documents (CRADS)* and the *Integrated Safety Management System (ISMS) Assessment Plan* were developed and issued.
- ER personnel were part of an Integrated Contractor Assessment Team (ICAT) assessment of a chemical analytical laboratory in Recra Lionville, Pennsylvania that may be used for sample analysis. No significant findings were identified.

ISSUES

REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

Issue: Landfill 1D in 300-FF-1 contains lead-contaminated soil that exceeds ERDF Waste Acceptance Criteria. EPA has drafted a variance that will allow direct ERDF disposal without treatment. Currently awaiting Ecology's review and approval. However, the lead soil has impacted the project schedule such that remediation of Landfill ID cannot be completed in FY1999.

Strategy/Status: Continue working with EPA to obtain the variance. Revise the project schedule after the variance is approved.

Issue: Two TPA Milestones will be missed: (1) M-16-07B due 4/30/00, "Complete remediation and backfill of 22 waste sites at 100-DR"; regulators were verbally informed. The issue was also mentioned at the DWP kickoff meeting; delays are due to additional plumes. Forecast completion is December 2000. (2) M-16-26B due 2/28/01, Complete remediation and backfill of 51 sites at B/C, DR and HR is impacted by BC Pipelines. The current DWP scheduled start for pipelines work is July 2001. Forecast completion in FY2003. EPA has stated an expectation that the milestone date be met.

Strategy/Status: (1) M-16-07B – Negotiate revised dates with DOE and the regulators in conjunction with the development of the DWP. (2) M-16-26B – BHI submitted a letter to DOE identifying possible options and seeking guidance on which option to pursue. All options envisioned require funding for the B/C pipelines in FY2000. A BCP is being prepared to initiate the bid process.

Issue: Burial Ground Focused Feasibility Study Alternative Remedies Require Resolution. Each proposed remedy has merit. The final solution must consider cost, public expectations, future land use, and risk to the public and environment. Resolution is required before a proposed plan can be issued.

Strategy/Status: RL is working with the regulators to reach consensus on the comments on the focused feasibility study. A meeting was held in early August at the project level. A follow-up discussion will be schedule at the management level as part of "Brown Bags."

GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

Issue: *Resource Conservation and Recovery Act (RCRA) Compliance Well Funding.* Groundwater monitoring well installation capital funds will be expended in FY99. No funds are currently available for out-years, which impacts the M-24-00 milestone.

Strategy/Status: DOE is working across all programs to identify funding for new well strategy in calendar year 2000. Each program is being requested to fund their own requirements.

Issue: Reprioritization of Operable Units (200 Area Assessment): Recommendations have been made to move "Submit the Uranium Rich Process Group Work Plan" CW-5, Milestone M-13-23 from April 30, 2000 to August 31, 2000; move the "Submit 1 RI/FS (RFI/CMS) Work Plans for 200 NPL area, Milestone M-13-00K from December 31, 2000 to December 31, 2001; and move the "Submit 3 RI/FS (RFI/CMS) Work Plans for 200 NPL area, Milestone M-13-00L from December 31, 2001 to June 31, 2001; to better align with the Office of River Protection tank farm assessment activities.

Strategy/Status: Recommendations have been made to move the 200-TW-1 Scavenged Waste Group and 200-TW-2 Tank Waste Group forward to better align with the Office of River Protection (ORP) tank farm assessment activities. The 200-PW-2 Uranium Rich Process Waste Group and 200-PW-4 General Process Waste Group would be moved to a later date. A TPA Change Request will be required if the regulators agree with the strategy.

GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT – Continued

Issue: No funding for well decommissioning; UP-1, ZP-2 treatment systems fall below the funding line; no long-term pathway for final Groundwater RODs.

Strategy/Status: Per RL direction UP-1 has a December shutdown and budget for a rebound study. For ZP-2 the baseline case will be to operate the system, shutdown, watch the rebound, and restart per decisions based on rebound study. Well decommissioning will be prioritized with other "below-the-line" needs for FY2000.

DECOMMISSING PROJECTS

Issue: The funding guidance of \$2 million for FY2000 will be used to fund the F&DR ISS projects through December 22, 1999. There is no funding for shutdown and termination beyond December.

Strategy/Status: There is the possibility of obtaining additional funding via Congressional "add-on" to support this work through FY2000.

PROGRAM MANAGEMENT AND SUPPORT

Issue: The President's budgets of \$135.1M for FY2000, and the budget submittal of \$106.3M for FY2001, do not support all of the *Tri-Party Agreement* compliance milestones.

Strategy/Status: DOE is continuing to evaluate priorities and options for the site. ER, as part of the DWP process has planned FY2000, FY2001, FY2002 at the \$135.1M, \$163.7M, and \$164.0M respectively.

TECHNOLOGY INSERTION POINTS (TIPs)

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TIP Number	TIP Title	Date Issued	TIP Milestone	Description	PBS	Project Area
TIP-0001	Burial Ground Remediation	FY99	FY01	Currently, 45 burial grounds are scheduled for excavation or containment. Final design for the excavations will specify technologies for remediation, characterization, segregation, and treatment where necessary.	ER-01	Remedial Action
TIP-0002	Soils and Burial Ground Remediation	FY99	FY01	Planning is underway for the 200 Area soils and burial grounds. Assessment of potential remedial action alternatives will consider technologies for excavation, capping, characterization, segregation, and treatment where necessary.	ER-02	200 Area Remedial Action
TIP-0003	300-FF-2 Remediation	FY99	FY06	Planning is underway for the 300-FF-2 Operable Unit soils and burial grounds. Assessment of potential remedial action alternatives will consider technologies for excavation, capping, characterization, segregation, and treatment where necessary.	ER-08	300-FF-1 Assessment
TIP-0004	Strontium Remediation	FY99	FY08	Current remedial action for the strontium plume is Pump-and-Treat to contain the plume such that strontium does not migrate into the Columbia River. Enhanced treatment through application of in situ remediation techniques or improved Pump-and-Treat approaches are being considered. The current approach is expensive and may not be cost effective as a permanent, final remediation for the strontium plume.	ER-08	100 Area Groundwater Remediation
TIP-0005	Chromium Remediation	FY99	FY03	Current Interim Response Measure (IRM) for the chromium plumes is Pump-and-Treat to contain the plume such that chromium does not migrate into the Columbia River. Enhanced treatment through application of in situ remediation techniques or improved Pump-and-Treat approaches are being considered. The current approach is expensive and may not be cost effective as a permanent, final remediation for all the chromium plumes.	ER-08	100 Area Groundwater Remediation
TIP-0006	Carbon Tetrachloride Remediation	FY99	FY03	Current Interim Response Measure (IRM) for the carbon tetrachloride plume is Pump-and-Treat to contain the plume within the 2000-to-3000 ug/L contour boundaries. The current approach would need to be expanded significantly and continued for several years to treat the entire plume. Enhanced treatment through application of in situ remediation techniques or improved Pump-and-Treat approaches are being considered as ways to speed remediation and reduce costs.	ER-08	200 Area Groundwater Remediation

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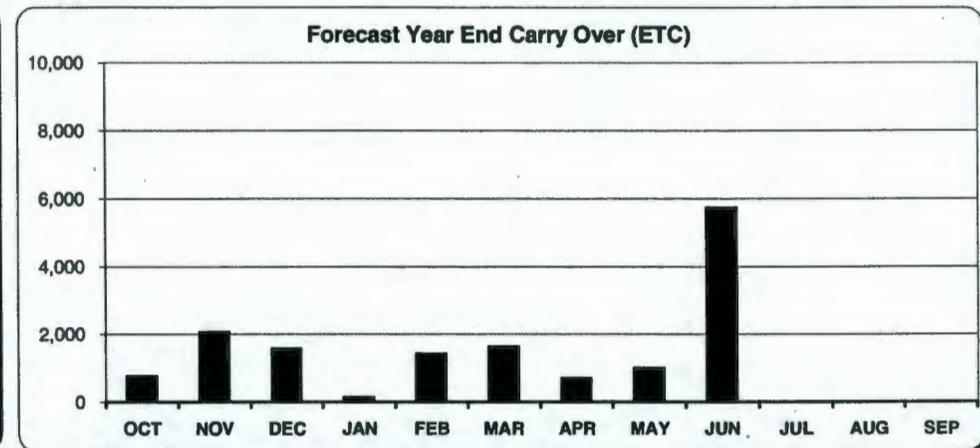
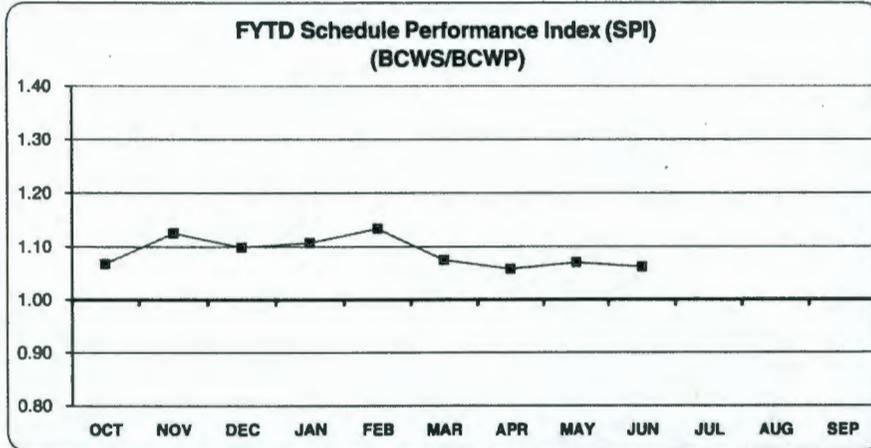
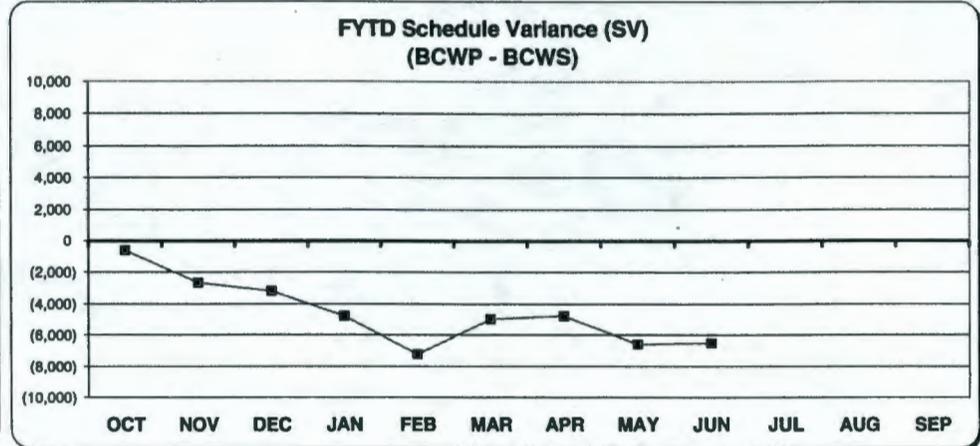
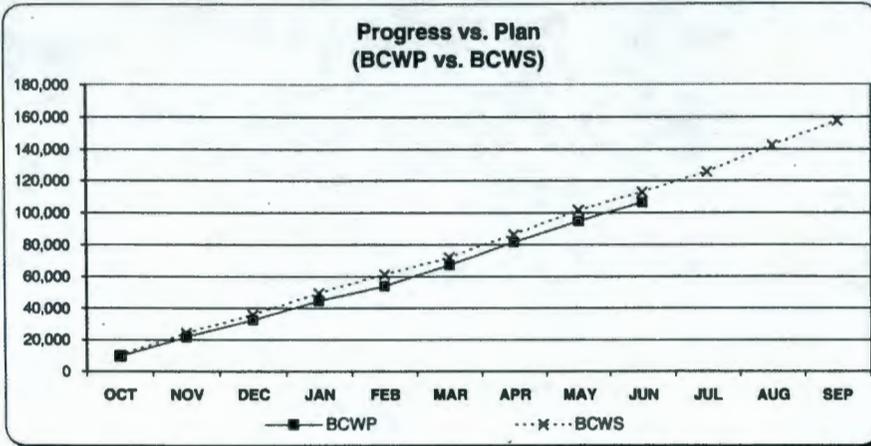
TIP Number	TIP Title	Date Issued	TIP Milestone	Description	PBS	Project Area
TIP-0007	Surface Barrier for CDI	08/04/99	FY06	A surface barrier design is needed for the Canyon Disposition Initiative (CDI) Project. The CDI Project will determine the end-state for the 221-U Facility. Several potential end-state alternatives will require a surface barrier. The surface barrier must protect against water infiltration, wind and water erosion, and plant, animal, and inadvertent human intrusion. If an entombment alternative is selected the surface barrier design will be required to provide for steep slopes (e.g., 1:3).	ER-05	200 W Area Surveillance & Maint.
TIP-0008	Asbestos Abatement For 105-KE/KW/N	08/04/99	FY04	An improved method is needed for stripping asbestos from circular piping and rectangular ductwork ranging in sizes from 2" to 48".	ER-06	100 Area Reactors
TIP-0009	Expert System	08/04/99	FY07	An expert system is needed to support characterization of reactors for interim safe storage. The purpose of the system will be to compile and correlate the voluminous information from the characterization of the previous reactors. This information will form the basis for planning the minimal characterization required for future reactors. Functional requirements of the system include statistically assessing large data arrays from different perspectives to evaluate consistency with respect to various compliance criteria. By carefully assessing existing characterization data (radiation, chemical, metals, and physical) from similar areas, correlations may be discovered that will reduce or eliminate the need for costly/time-consuming sampling and analysis at future reactors.	ER-06	100 Area Reactors
TIP-0010	Heavy Concrete Demolition for 105-D/H	08/04/99	FY04	An improved technology is needed for the demolition of dense, reinforced, thick (i.e., two to three feet thick) concrete.	ER-06	100 Area Reactors

COST/SCHEDULE STATUS

PROJECT OVERVIEW

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SCHEDULE PERFORMANCE (\$'s In 000)

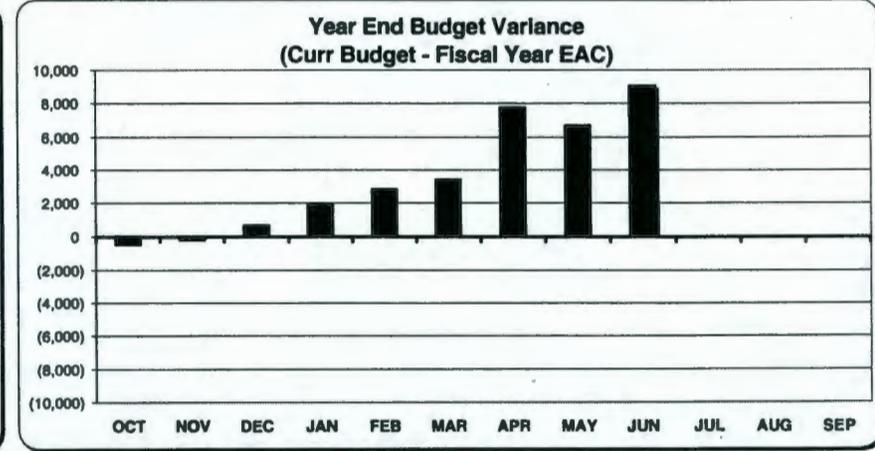
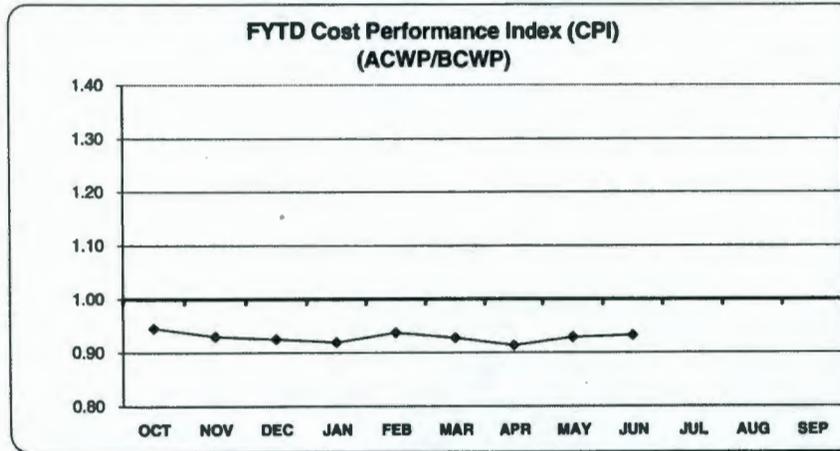
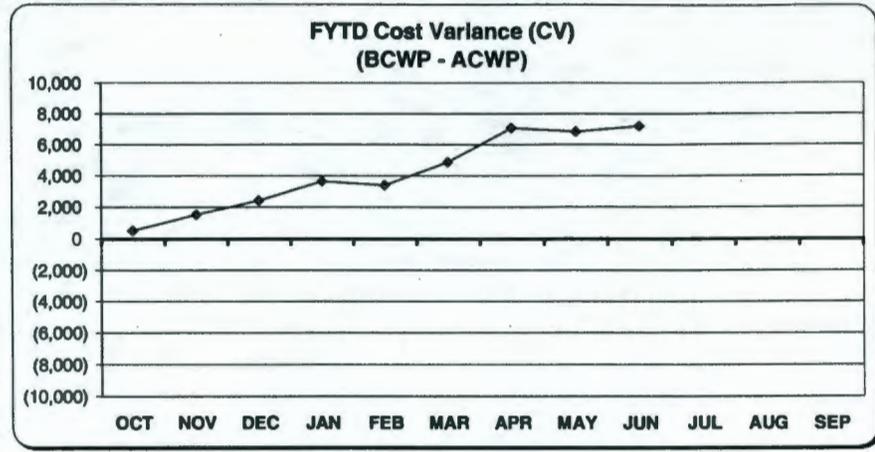
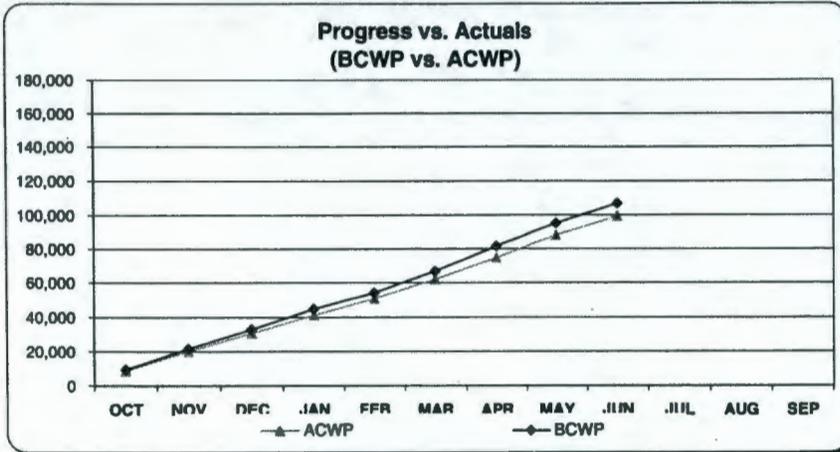


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	8,130	11,566	9,643	12,098	10,057	10,402	11,643	15,120	11,235	10,344	12,581	14,180
DWP (Accum)	8,130	19,696	29,339	41,437	51,494	61,896	73,539	88,659	99,894	110,238	122,820	137,000
CURRENT PERIOD												
BCWS	9,899	14,316	11,730	13,564	11,663	10,770	14,484	15,053	11,620	12,802	16,439	15,286
BCWP	9,278	12,245	11,204	11,985	9,232	13,018	14,703	13,225	11,684	-	-	-
FISCAL YEAR TO DATE												
BCWS	9,899	24,215	35,945	49,509	61,171	71,941	86,426	101,479	113,099	125,901	142,340	157,625
BCWP	9,278	21,523	32,727	44,711	53,943	66,962	81,665	94,890	106,574	-	-	-
SV	(621)	(2,691)	(3,218)	(4,797)	(7,228)	(4,979)	(4,760)	(6,589)	(6,525)	-	-	-
SPI	1.07	1.13	1.10	1.11	1.13	1.07	1.06	1.07	1.06	-	-	-
Yr End Sch Carry Over	755	2,052	1,561	141	1,416	1,631	691	1,003	5,743	-	-	-

PROJECT OVERVIEW

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COST PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	8,773	11,234	10,284	10,777	9,476	11,561	12,506	13,461	11,298	-	-	-	-
BCWP	9,278	12,245	11,204	11,985	9,232	13,018	14,703	13,225	11,684	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	8,773	20,007	30,291	41,068	50,544	62,105	74,611	88,071	99,369	-	-	-	-
BCWP	9,278	21,523	32,727	44,711	53,943	66,962	81,665	94,890	106,574	-	-	-	-
CV	505	1,516	2,436	3,644	3,399	4,857	7,054	6,819	7,205	-	-	-	-
CPI	0.95	0.93	0.93	0.92	0.94	0.93	0.91	0.93	0.93	-	-	-	-
EAC (Cumulative)	8,773	20,007	30,291	41,068	50,544	62,105	74,611	88,071	99,369	111,547	126,387	142,797	148,540
Yr End Budget Var	(470)	(217)	668	1,874	2,842	3,409	7,799	6,708	9,086	-	-	-	5,743

Schedule Variance Report

Project	Variance	Reason	Impact	Corrective Actions
ER01 - 100 Area Remedial Action	(\$0.2M)	The 100-HR-1 remediation site subcontractor production schedule was re-sequenced.	None	Contractor has accelerated HR remediation ramp-up to full production mode, which will correct schedule variance.
ER02 - 200 Area Source Remedial Action	(\$0.1M)	The EPA has requested that closeout of the prototype barrier be delayed pending regulator review of the treatability test plans. Comments are expected mid-July.	Closeout will be delayed until FY00	Identified for carryover.
ER03 - 300 Area Source Remedial Action	(\$0.3M)	Loadout and disposal of 300-FF-1 lead contaminated soil cannot occur until disposal variance is obtained.	Current projections indicated Landfill 1D cannot be completed on schedule. Schedule variance at South Process Pond will continue until a decision on lead treatment occurs.	Baseline change control will be prepared after variance is received.
ER04 - ER Disposal Facility	(\$0.5M)	Additional containers planned in the first quarter of FY99 have not been purchased	None	None required; BCP will be written to remove this scope.
ER05 - Surveillance & Maintenance	(\$0.3M)	Sampling activities behind schedule due to late completion of electrical upgrades to the CDI crane; delays in herbicide application due to high winds.	Railroad tunnel sampling may be carried over to FY00	Electrical upgrades on the crane are completed; liquid detection sampling contract awarded in June will help alleviate backlog.
ER06 – Decommissioning Projects	(\$0.9M)	Decommissioning work at the 233-S Plutonium Concentration Facility is behind schedule due to premature failure of radiological control gloves in the loadout hood, and higher than anticipated radiation levels; DR Reactor ISS non-manual oversight, equipment, and RAD monitoring behind schedule due to re-sequencing / levelizing of work with 108-F.	Loadout hood work and DR Reactor asbestos and housekeeping work remains behind schedule.	Improved gloves have been installed; DR asbestos work will be recovered; implementation of recovery plans at 233-S have significantly improved the schedule delays; all FY99 planned work is projected to be completed this fiscal year.

Schedule Variance Report

Project	Variance	Reason	Impact	Corrective Actions
ER08 - Groundwater Management	(\$2.2M)	Contractual issues have delayed groundwater routine maintenance activities; resin regeneration behind schedule due to delays in receiving resin analysis data; resin shipment behind schedule due to chromium concentration; groundwater modeling is behind schedule due to addition of sensitivity/ uncertainty analysis from peer/regulator comments; LERF Facility Vadose Zone monitoring feasibility study impacted due to pursuing a waiver regarding future groundwater monitoring requirements; sampling delays.	Routine maintenance activities will not be recovered this fiscal year; modeling implementation delayed by new analysis. FY98 LERF plans waiting Ecology concurrence.	The site maintenance contract is expected to be awarded within the next few months (some maintenance scope will be carried over to FY00); shipment of resin offsite may not be allowed due to CERCLA requirements so the purchase contract will be re-negotiated or re-bid (fiscal year carryover required); the LERF plan is on indefinite hold until agreement is reached on an acceptable groundwater monitoring strategy; groundwater monitoring sampling will be managed to maintain compliance and meet project objectives.
ER10 - ER Program Management and Support - RL	(\$1.8M)	Billing not received for site-wide assessments	N/A	None required
VZ01 - Site-Wide Groundwater/Vadose Zone Integration Project	(\$0.3M)	Completion of the science and technology roadmapping was deferred to allow additional time for resolution of comments; development of system assessment capability behind schedule due to work being more extensive than planned.	Recoverable	The S&T Roadmap was accelerated to meet a June 30 deliverable and the S&T planning will be completed in FY00.
Total	(\$6.6M)			

Cost Variance Report

Project	Variance	Reason	Impact	Corrective Actions
ER01 – 100 Area Source Remedial Actions	\$2.1M	Labor and subcontract savings are being realized; reduced regulatory and administrative support requirements.	Cost underrun	Savings being used to accelerate other ER work.
ER02 – 200 Area Source Remedial Action	\$0.2M	The underrun is due to efficiencies in preparing the <i>Hanford Prototype Barrier Treatability Study</i> report; efficiencies in preparing the 200 Area Assessment; and streamlining preparation of the Gable Mountain/B Pond assessment.	Cost underrun	Savings being used to accelerate other ER work.
ER03 - 300 Area Source Remedial Action	\$0.1M	Reduced regulatory and program support requirements for 300-FF-2 Focus Feasibility Study.	Cost underrun	Savings being used to accelerate other ER work.
ER04 - ER Disposal Facility (ERDF)	\$1.6M	Waste transportation and ERDF operating efficiencies from higher volumes and the nature of waste received resulted in lower rates per ton; labor efficiencies in ERDF Cells 3 and 4 construction.	Cost underrun	Savings being used to accelerate other ER work.
ER05 - Surveillance & Maintenance	\$0.9M	Productivity savings in Radiation Area Remedial Actions (RARA) stabilization and herbicide application; productivity savings in 100 Area surveillance and maintenance activities; offsetting overruns from additional N Area roof repair sampling, plus additional troubleshooting performed and viewing window added at the 221-U facility (Canyon Disposition Initiative project).	Cost underrun	Savings being used to accelerate other ER work.

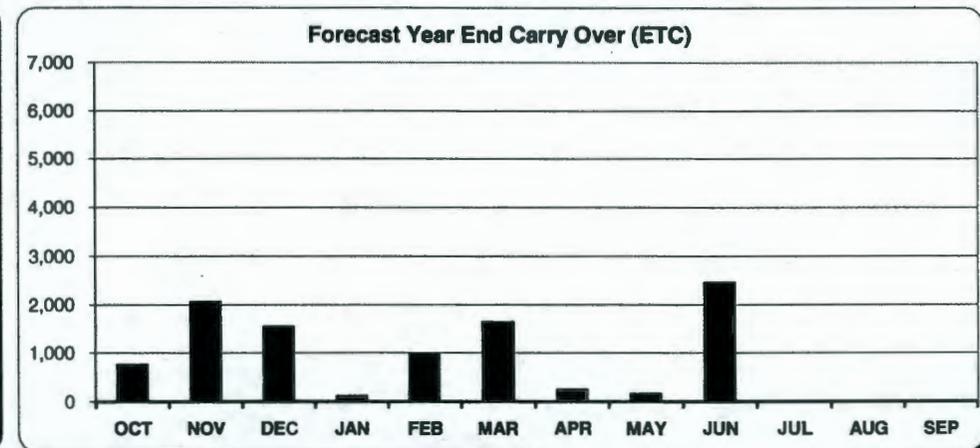
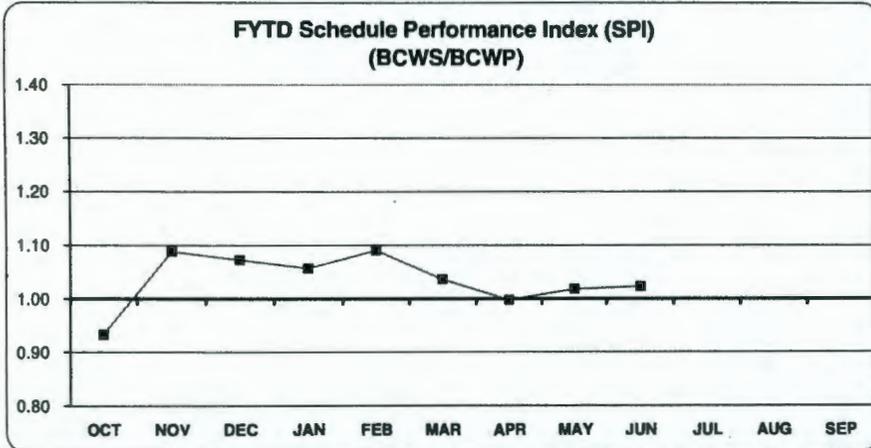
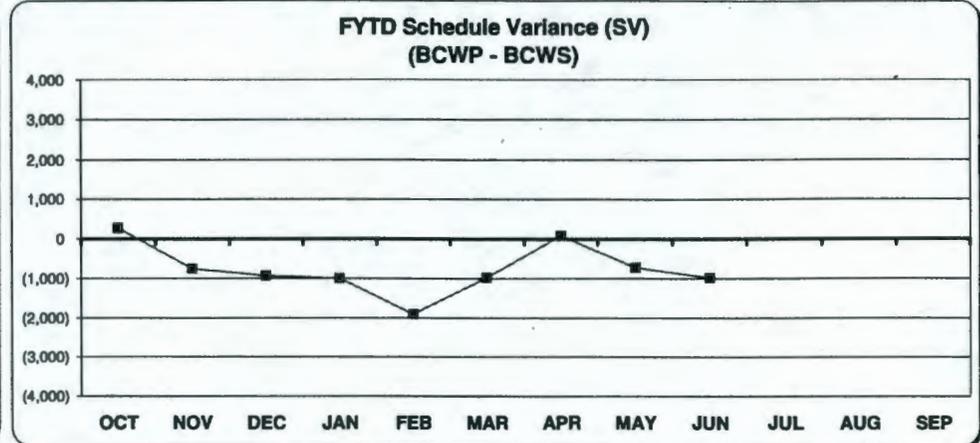
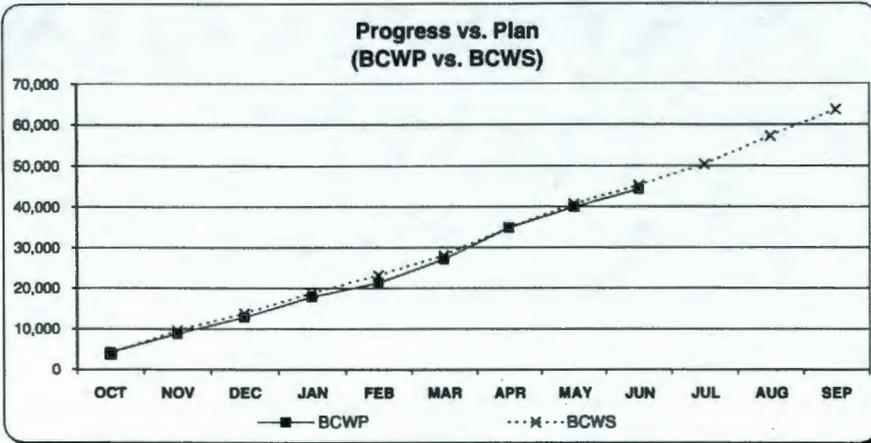
Cost Variance Report

Project	Variance	Reason	Impact	Corrective Actions
ER06 - Decommissioning Projects	\$0.4M	Labor productivity underruns and reduced sampling and analysis costs at the F and DR Reactor ISS projects; offsetting the ISS underruns are cost overruns at the 233-S decommissioning project due to spurious CAM alarms, higher than planned radiation levels, and premature failure of radiological control gloves.	Cost underrun	Underruns at the F and DR ISS projects will allow acceleration of FY00 work; the 233-S project team continues to implement cost savings measures; Baseline Change Requests have been prepared to incorporate additional work scope on the ISS and other decommissioning projects.
ER08 - Groundwater Management	\$0.4M	Labor efficiencies on pump and treat unit support; groundwater sampling underrun.	Cost underrun	Savings being used to accelerate other ER work.
ER10 - ER Program Management and Support	\$0.8M	The underrun reflects staff labor efficiencies.	Cost underrun	Savings being used to accelerate other ER work.
VZ01 - Site-Wide Groundwater/Vadose Zone Integration Project	\$0.6M	Science and technology road mapping underrun	Cost underrun	Savings being used to accelerate other ER work.
Total	\$7.2M			

REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

TPA Third Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

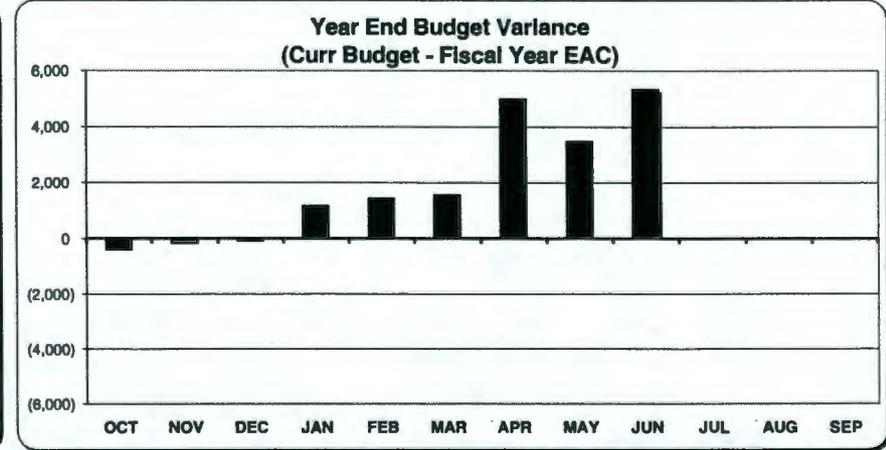
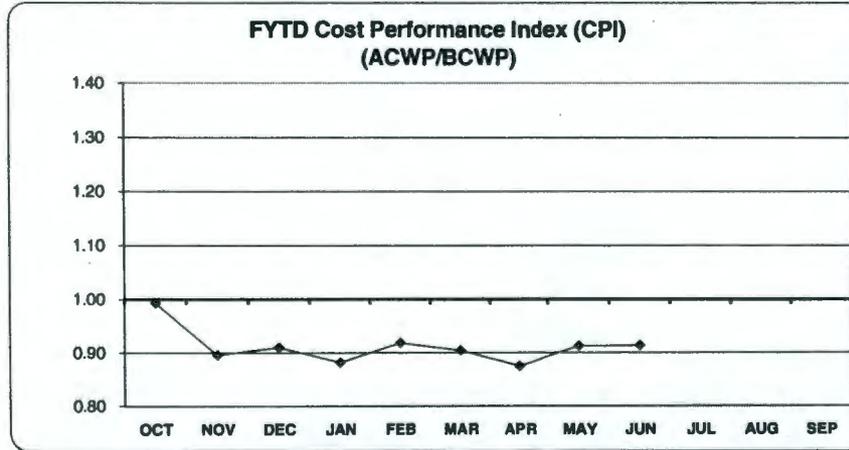
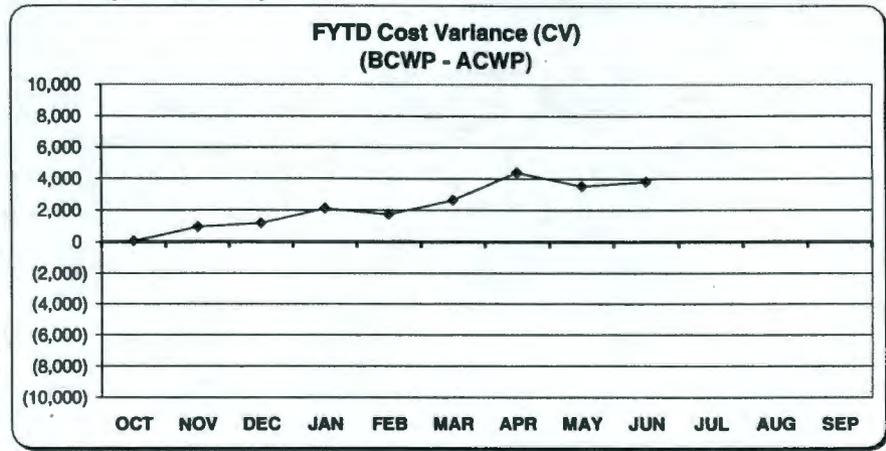
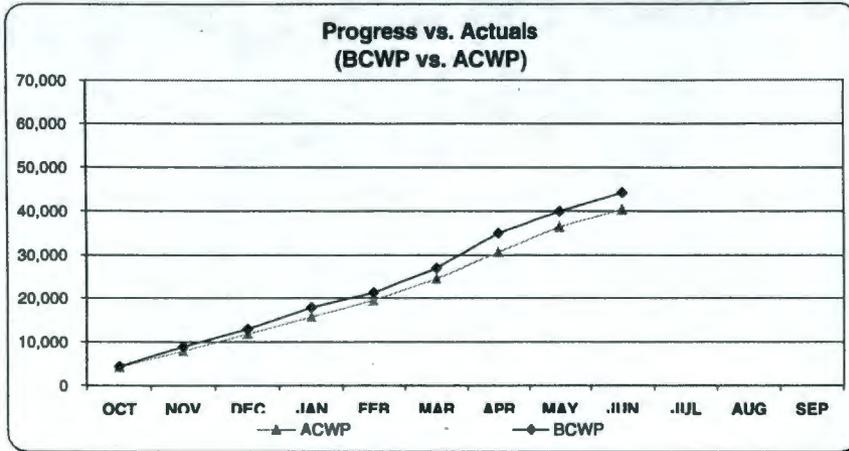


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	3,614	5,314	4,146	5,459	4,343	4,553	5,575	7,004	5,476	4,470	5,039	5,524
DWP (Accum)	3,614	8,928	13,074	18,532	22,875	27,428	33,003	40,007	45,482	49,953	54,992	60,516
CURRENT PERIOD												
BCWS	3,889	5,594	4,296	5,013	4,380	4,776	6,851	5,770	4,624	5,049	6,909	6,416
BCWP	4,170	4,550	4,123	4,943	3,471	5,704	7,920	4,965	4,361	-	-	-
FISCAL YEAR TO DATE												
BCWS	3,889	9,483	13,778	18,791	23,171	27,947	34,798	40,568	45,192	50,241	57,151	63,567
BCWP	4,170	8,720	12,843	17,786	21,256	26,960	34,880	39,845	44,206	-	-	-
SV	281	(763)	(936)	(1,005)	(1,915)	(987)	82	(723)	(985)	-	-	-
SPI	0.93	1.09	1.07	1.06	1.09	1.04	1.00	1.02	1.02	-	-	-
Yr End Sch Carry Over	755	2,052	1,530	102	972	1,631	235	146	2,443	-	-	-

REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

TPA Third Quarter Review

COST PERFORMANCE (\$'s in 000)

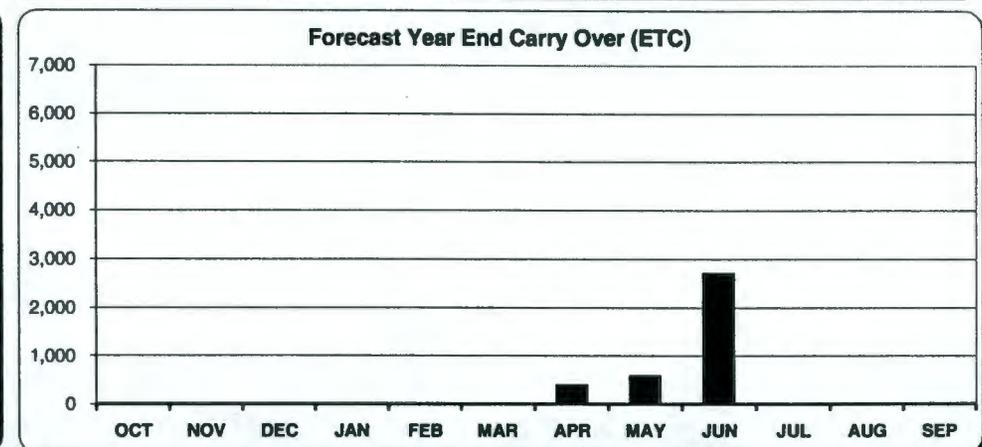
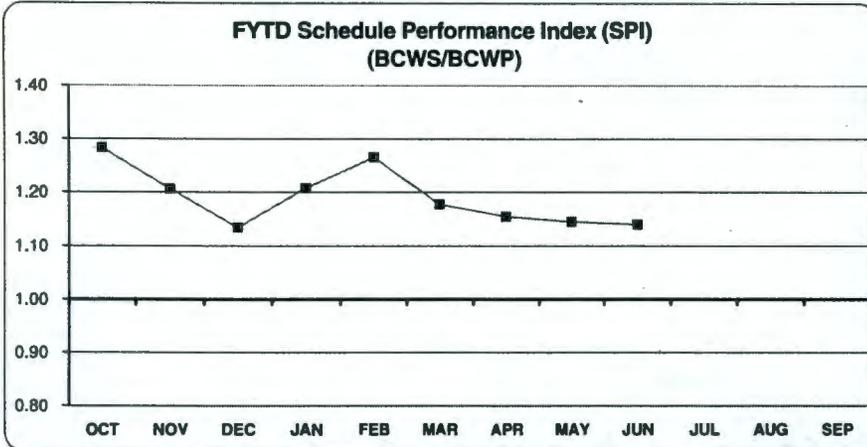
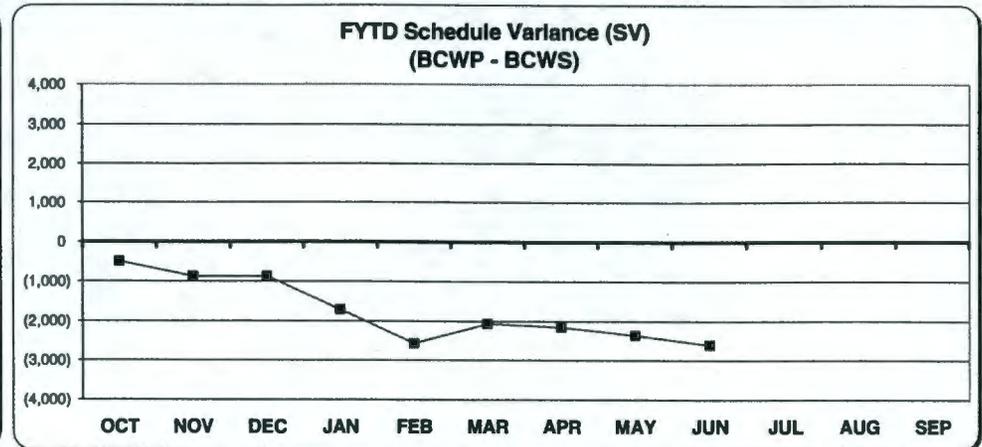
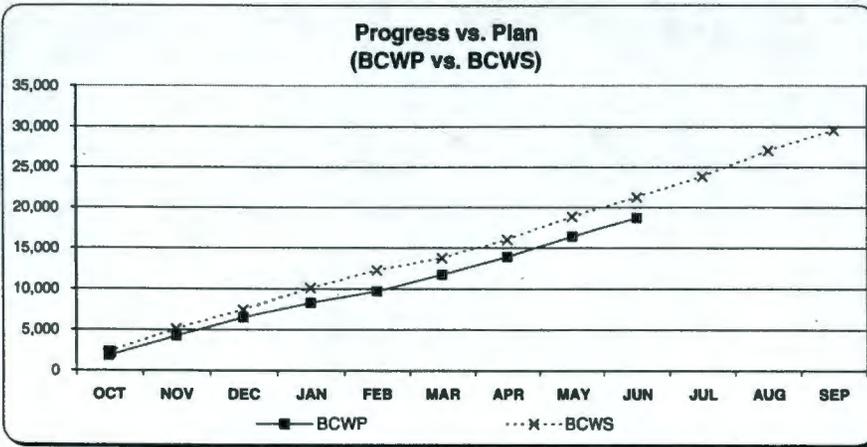


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	4,139	3,668	3,876	3,992	3,833	4,845	6,132	5,855	4,052	-	-	-	-
BCWP	4,170	4,550	4,123	4,943	3,471	5,704	7,920	4,965	4,361	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	4,139	7,807	11,683	15,674	19,508	24,352	30,485	36,339	40,391	-	-	-	-
BCWP	4,170	8,720	12,843	17,786	21,256	26,960	34,880	39,845	44,206	-	-	-	-
CV	31	912	1,160	2,112	1,749	2,608	4,395	3,506	3,815	-	-	-	-
CPI	0.99	0.90	0.91	0.88	0.92	0.90	0.87	0.91	0.91	-	-	-	-
EAC (Cumulative)	4,139	7,807	11,683	15,674	19,508	24,352	30,485	36,339	40,391	45,009	50,621	55,799	58,241
Yr End Budget Var	(409)	(173)	(82)	1,159	1,436	1,555	4,994	3,486	5,326	-	-	-	2,443

GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

TPA Third Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

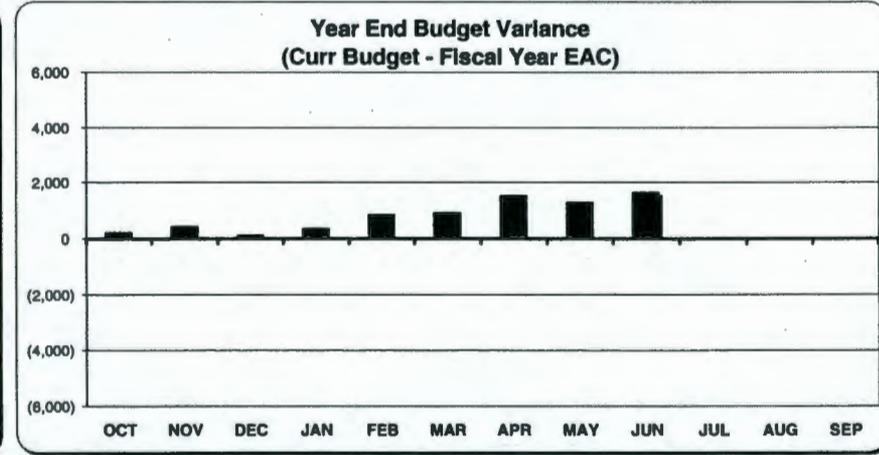
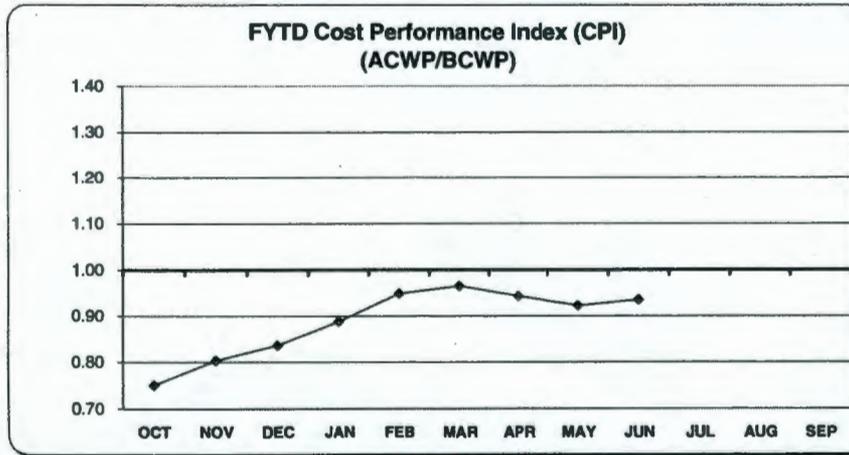
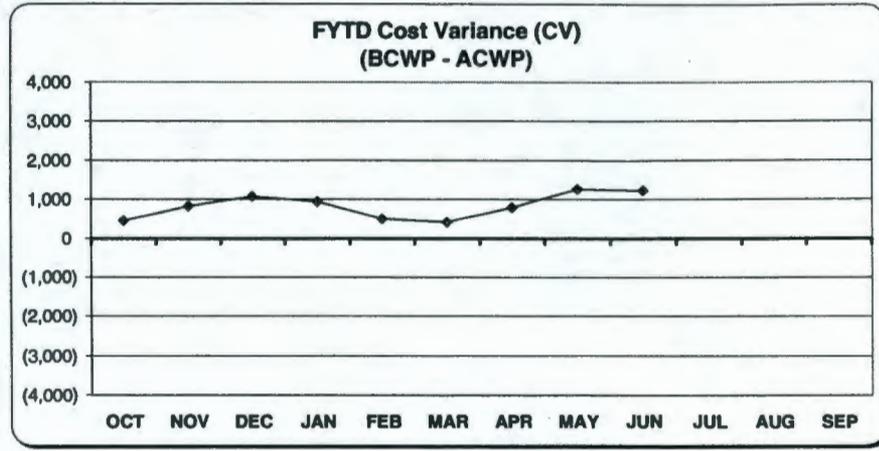
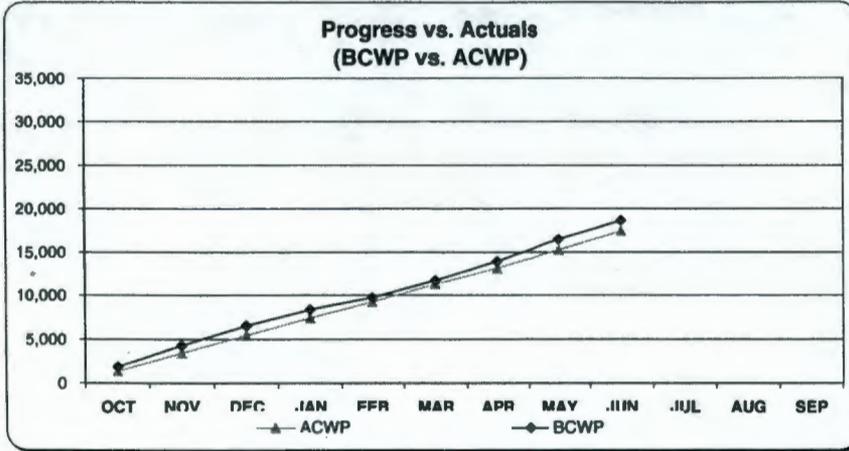


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	1,703	1,811	1,767	1,779	1,783	1,871	1,963	2,354	1,791	1,660	2,511	2,125
DWP (Accum)	1,703	3,515	5,282	7,061	8,844	10,715	12,678	15,032	16,823	18,483	20,994	23,120
CURRENT PERIOD												
BCWS	2,300	2,770	2,319	2,650	2,257	1,467	2,280	2,763	2,440	2,589	3,170	2,507
BCWP	1,792	2,410	2,312	1,803	1,406	1,966	2,205	2,544	2,198	-	-	-
FISCAL YEAR TO DATE												
BCWS	2,300	5,070	7,389	10,039	12,296	13,763	16,043	18,806	21,246	23,835	27,005	29,512
BCWP	1,792	4,203	6,515	8,318	9,724	11,690	13,895	16,439	18,636	-	-	-
SV	(508)	(867)	(874)	(1,721)	(2,572)	(2,073)	(2,148)	(2,367)	(2,609)	-	-	-
SPI	1.28	1.21	1.13	1.21	1.26	1.18	1.15	1.14	1.14	-	-	-
Yr End Sch Carry Over	-	-	-	-	-	-	377	574	2,694	-	-	-

GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

TPA Third Quarter Review

COST PERFORMANCE (\$'s in 000)

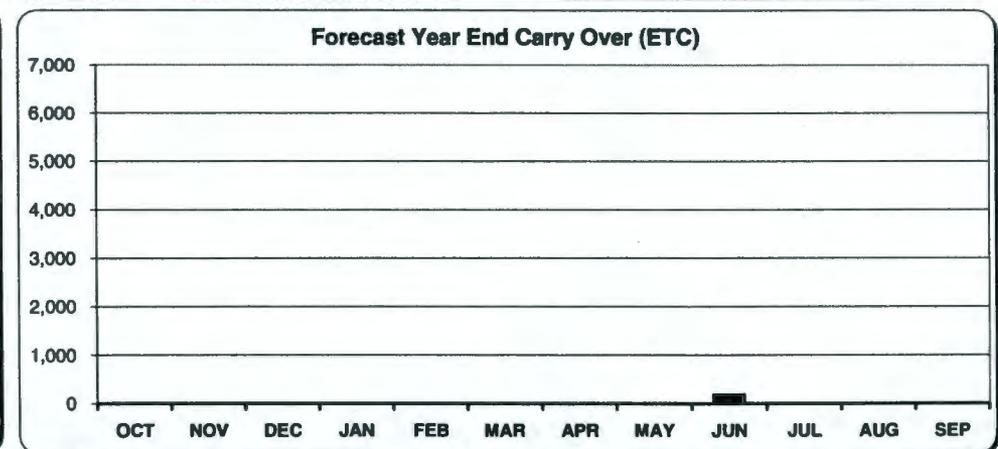
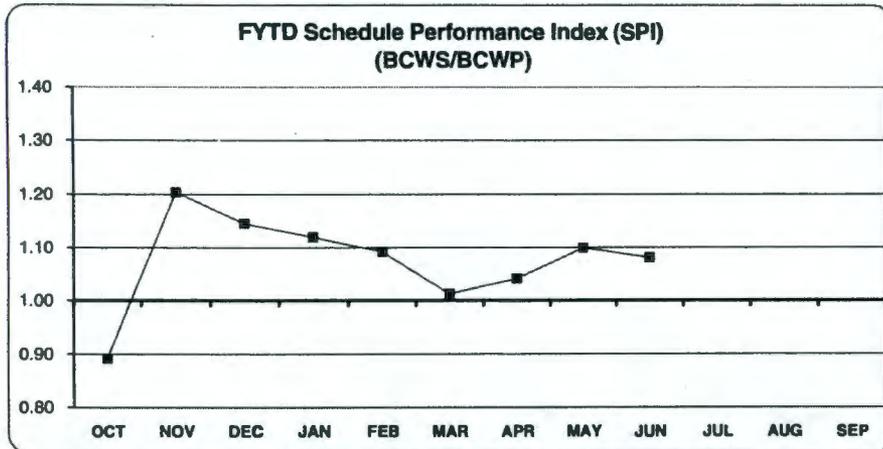
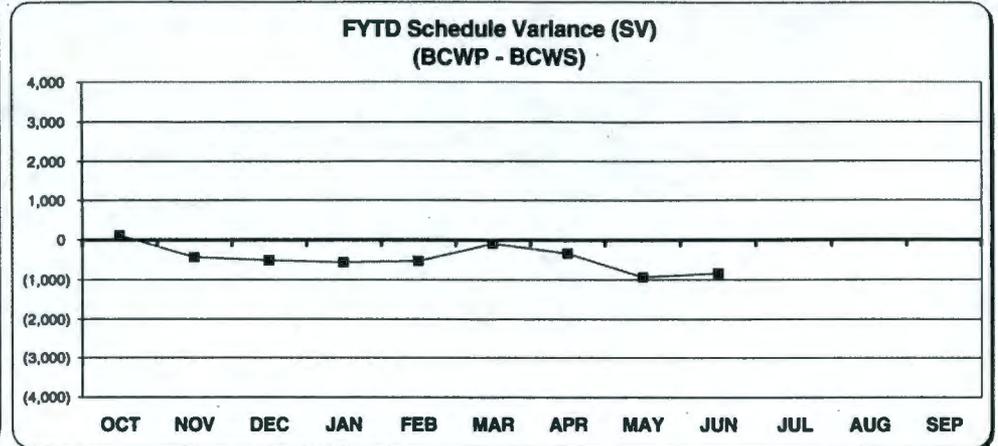
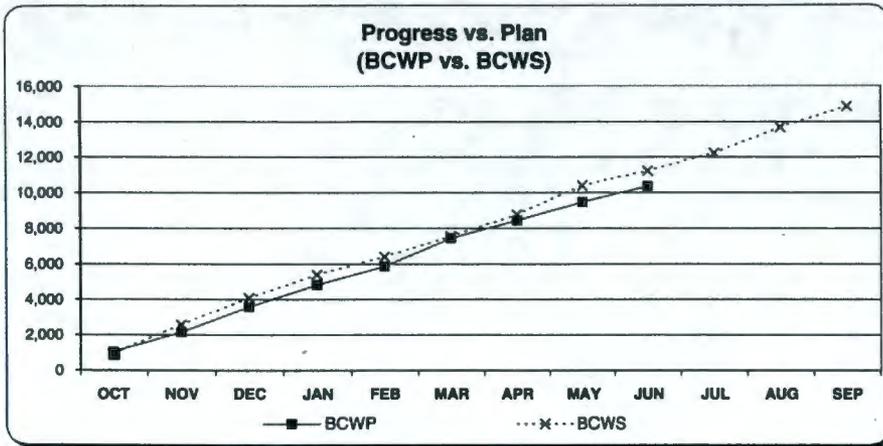


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	1,344	2,029	2,070	1,937	1,849	2,051	1,819	2,070	2,242	-	-	-	-
BCWP	1,792	2,410	2,312	1,803	1,406	1,966	2,205	2,544	2,198	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	1,344	3,374	5,443	7,381	9,229	11,280	13,099	15,169	17,411	-	-	-	-
BCWP	1,792	4,203	6,515	8,318	9,724	11,690	13,895	16,439	18,636	-	-	-	-
CV	448	829	1,072	937	495	410	796	1,269	1,225	-	-	-	-
CPI	0.75	0.80	0.84	0.89	0.95	0.96	0.94	0.92	0.93	-	-	-	-
EAC (Cumulative)	1,344	3,374	5,443	7,381	9,229	11,280	13,099	15,169	17,411	19,726	22,175	25,175	27,869
Yr End Budget Var	193	395	111	337	832	909	1,522	1,271	1,643	-	-	-	2,694

DECOMMISSIONING PROJECTS

TPA Third Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

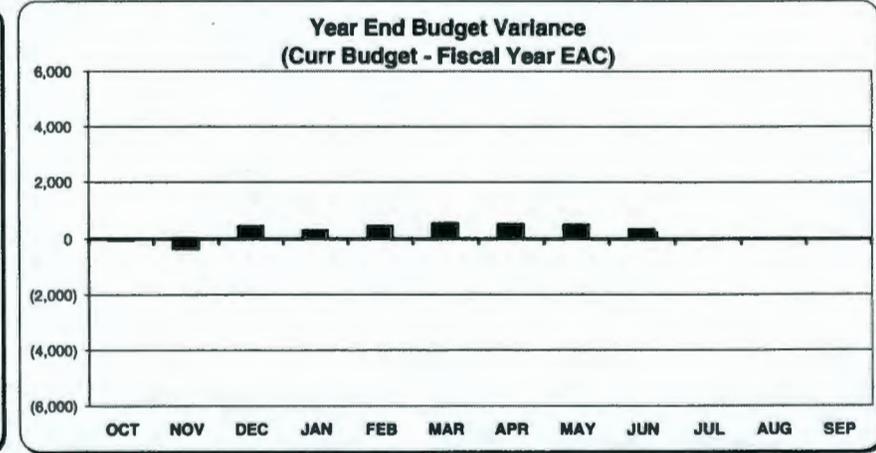
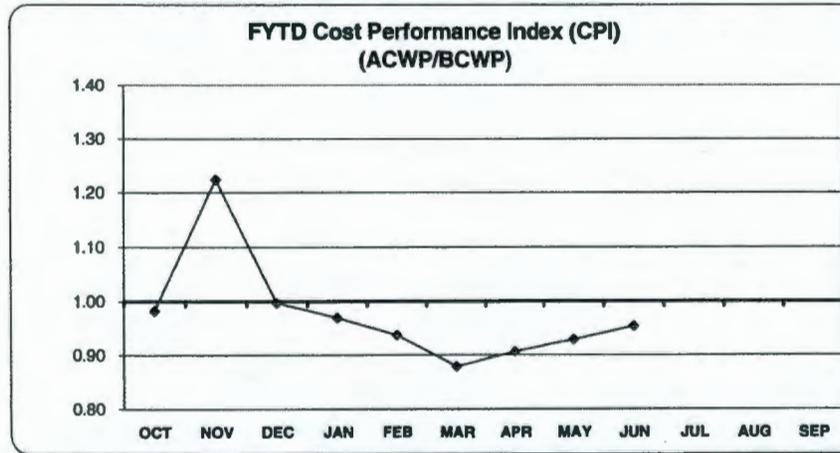
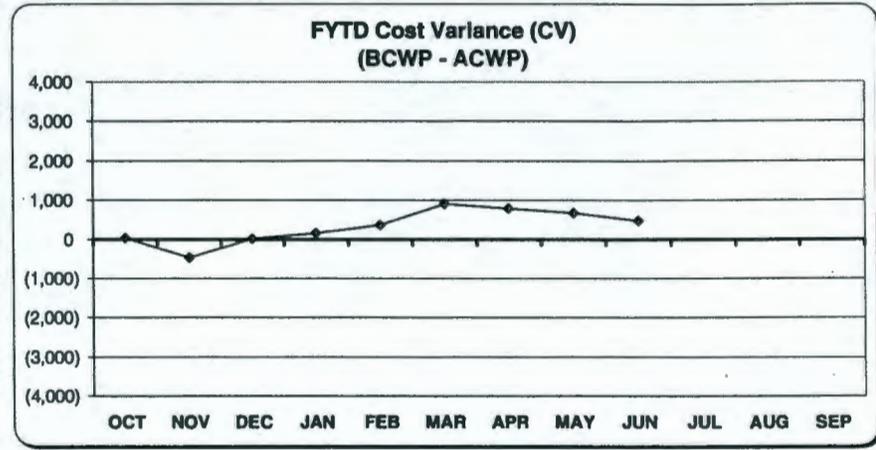
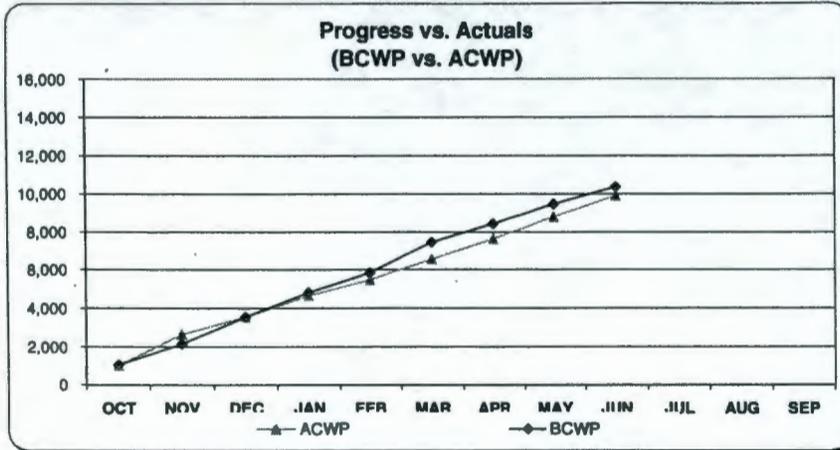


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	311	619	573	636	614	481	600	603	401	514	713	473
DWP (Accum)	311	930	1,503	2,139	2,753	3,234	3,834	4,437	4,838	5,353	6,066	6,539
CURRENT PERIOD												
BCWS	926	1,657	1,484	1,312	1,009	1,147	1,223	1,639	808	1,027	1,432	1,179
BCWP	1,038	1,107	1,409	1,252	1,048	1,591	973	1,045	901	-	-	-
FISCAL YEAR TO DATE												
BCWS	926	2,582	4,066	5,378	6,387	7,534	8,757	10,396	11,204	12,232	13,663	14,843
BCWP	1,038	2,145	3,554	4,805	5,853	7,444	8,417	9,462	10,363	-	-	-
SV	112	(437)	(512)	(573)	(534)	(90)	(340)	(934)	(841)	-	-	-
SPI	0.89	1.20	1.14	1.12	1.09	1.01	1.04	1.10	1.08	-	-	-
Yr End Sch Carry Over	-	-	-	0	(0)	0	0	(0)	189	-	-	-

DECOMMISSIONING PROJECTS

TPA Third Quarter Review

COST PERFORMANCE (\$'s In 000)

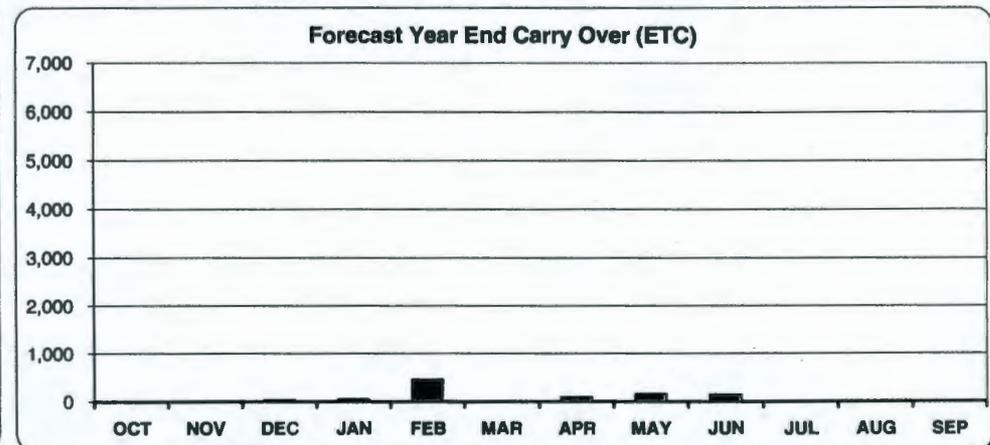
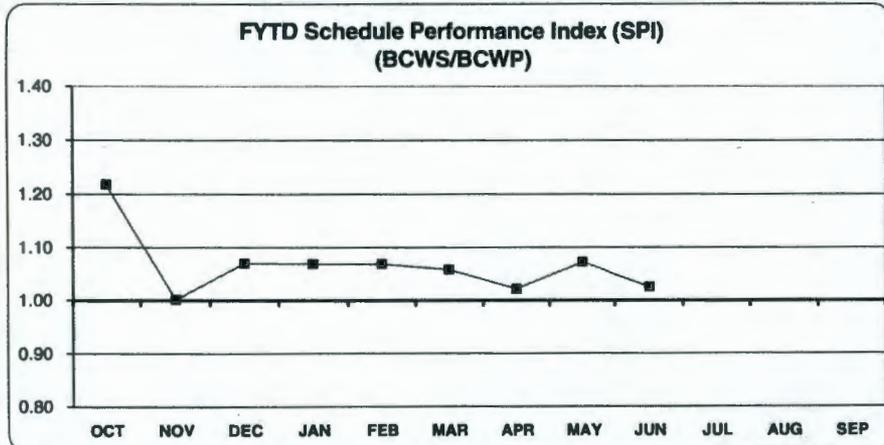
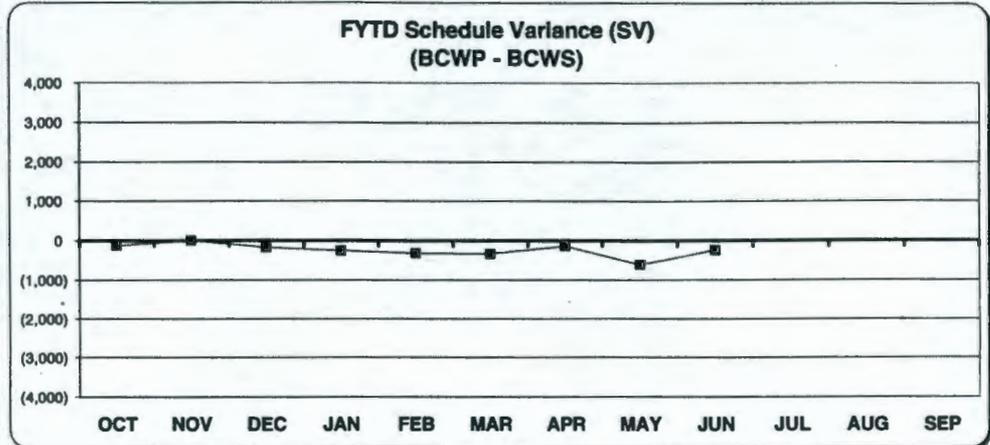
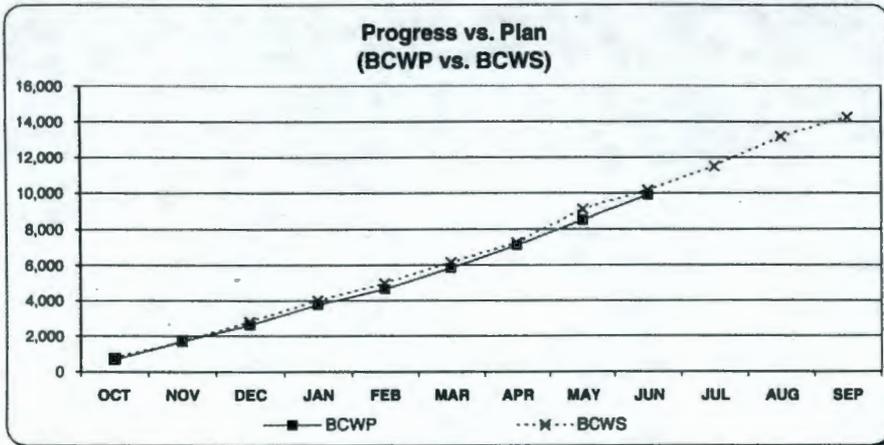


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	1,019	1,607	914	1,117	824	1,061	1,085	1,163	1,095	-	-	-	-
BCWP	1,038	1,107	1,409	1,252	1,048	1,591	973	1,045	901	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	1,019	2,626	3,540	4,657	5,481	6,543	7,627	8,790	9,885	-	-	-	-
BCWP	1,038	2,145	3,554	4,805	5,853	7,444	8,417	9,462	10,363	-	-	-	-
CV	19	(481)	14	148	372	902	790	673	478	-	-	-	-
CPI	0.98	1.22	1.00	0.97	0.94	0.88	0.91	0.93	0.95	-	-	-	-
EAC (Cumulative)	1,019	2,626	3,540	4,657	5,481	6,543	7,627	8,790	9,885	11,201	13,087	14,329	14,518
Yr End Budget Var	(56)	(371)	459	287	438	545	526	489	325	-	-	-	189

SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS

TPA Third Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

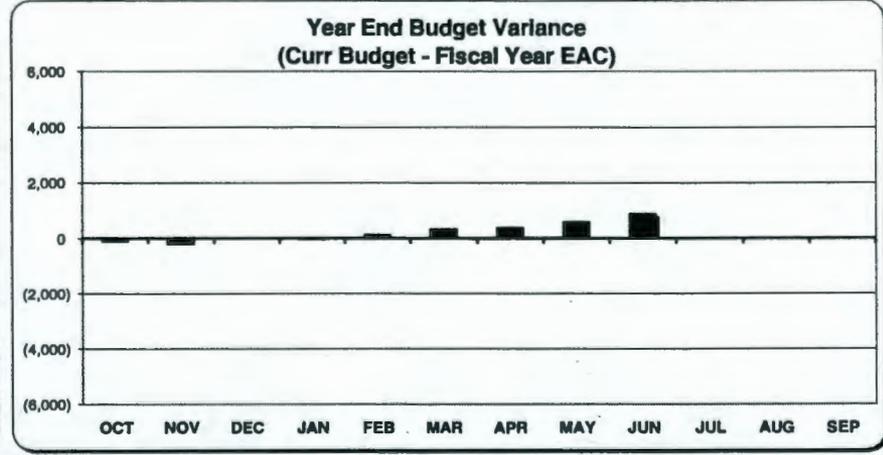
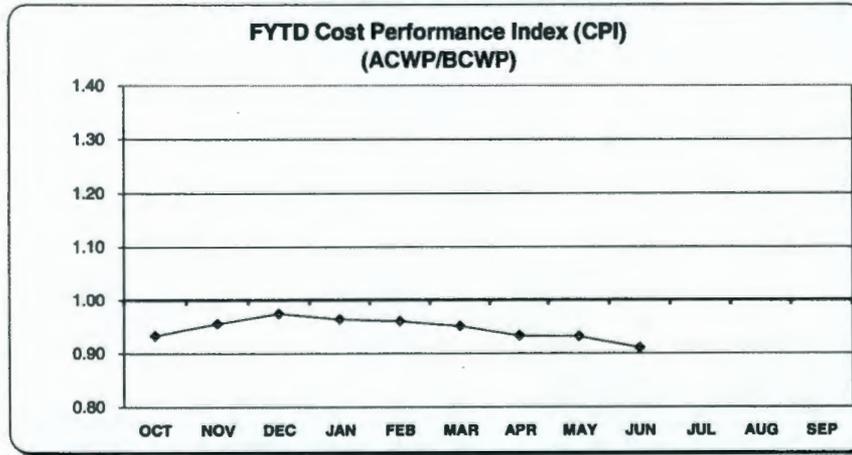
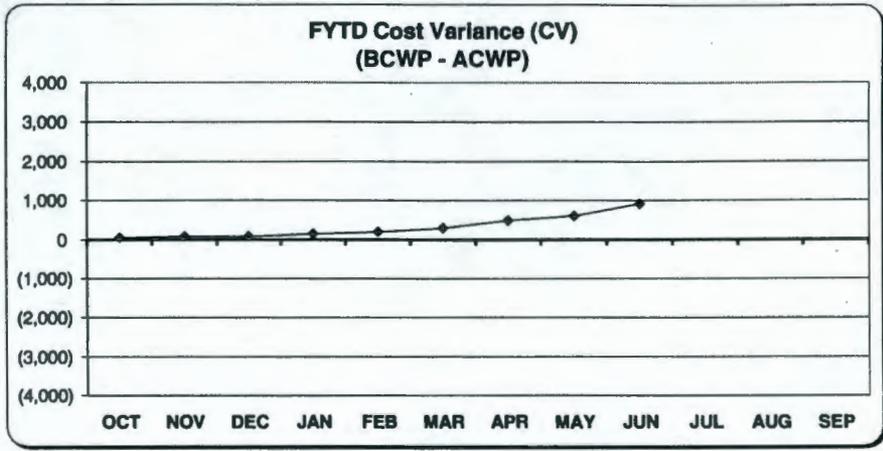
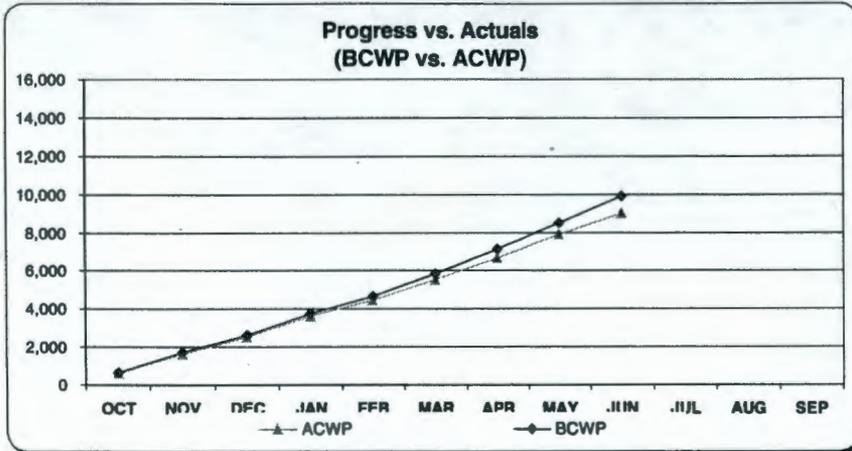


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	655	985	953	1,306	1,009	1,063	1,059	2,070	1,204	1,335	1,208	1,056
DWP (Accum)	655	1,640	2,593	3,899	4,908	5,971	7,030	9,100	10,304	11,639	12,847	13,903
CURRENT PERIOD												
BCWS	765	925	1,081	1,219	961	1,194	1,120	1,832	1,044	1,369	1,670	1,070
BCWP	629	1,060	902	1,142	899	1,175	1,309	1,370	1,410	-	-	-
FISCAL YEAR TO DATE												
BCWS	765	1,690	2,771	3,990	4,951	6,145	7,266	9,098	10,142	11,511	13,162	14,252
BCWP	629	1,689	2,591	3,732	4,631	5,806	7,115	8,485	9,895	-	-	-
SV	(137)	(1)	(180)	(258)	(320)	(339)	(150)	(613)	(247)	-	-	-
SPI	1.22	1.00	1.07	1.07	1.07	1.06	1.02	1.07	1.02	-	-	-
Yr End Sch Carry Over	-	-	31	38	443	-	79	140	138	-	-	-

SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS

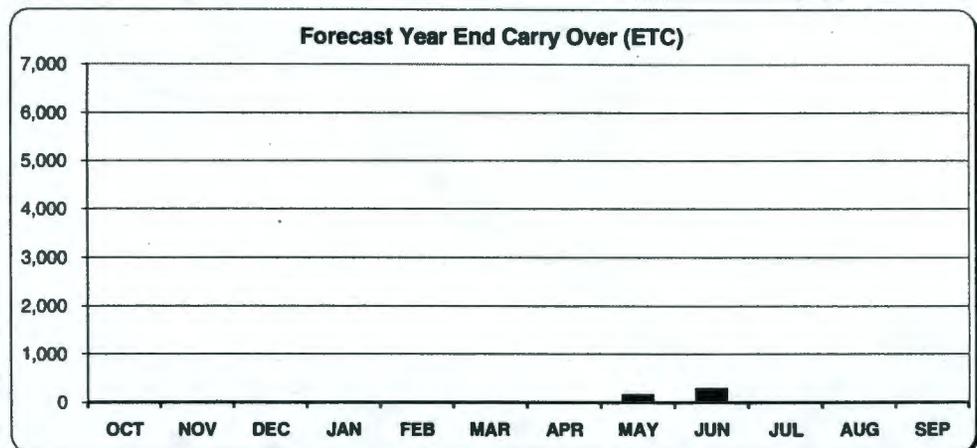
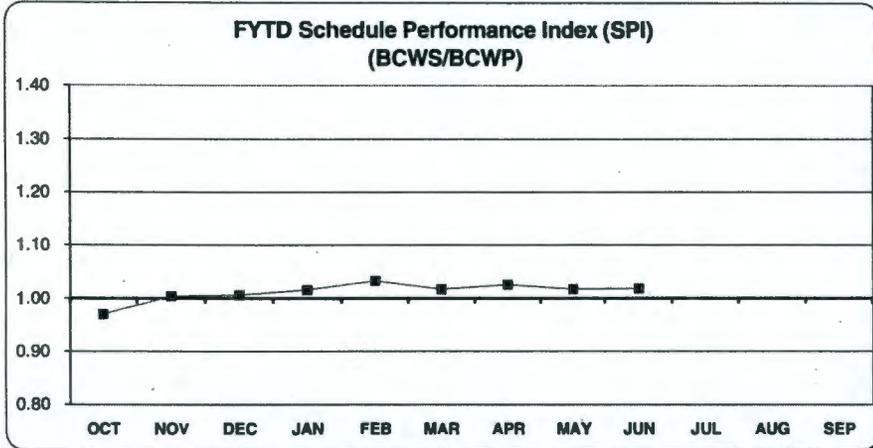
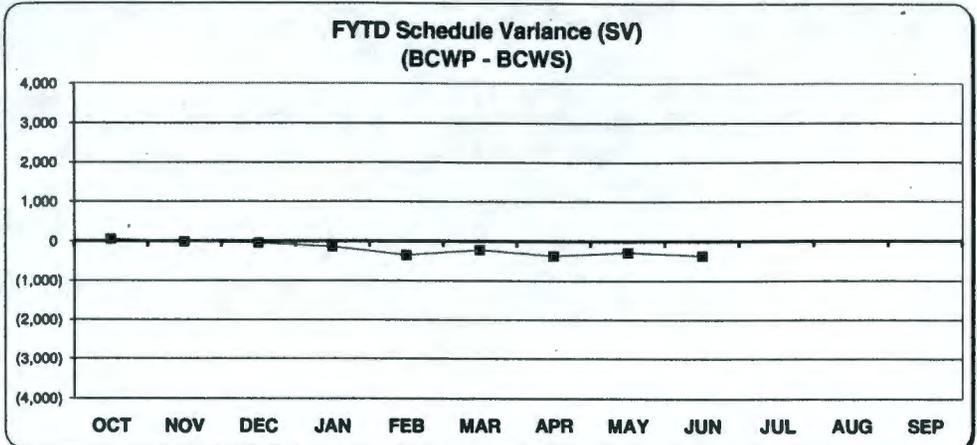
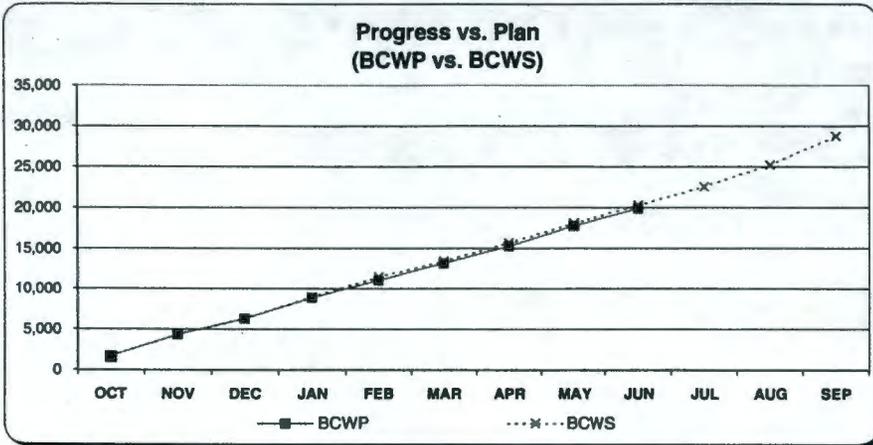
TPA Third Quarter Review

COST PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	586	1,026	910	1,073	851	1,068	1,120	1,265	1,096	-	-	-	-
BCWP	629	1,060	902	1,142	899	1,175	1,309	1,370	1,410	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	586	1,612	2,521	3,594	4,446	5,514	6,634	7,898	8,994	-	-	-	-
BCWP	629	1,689	2,591	3,732	4,631	5,806	7,115	8,485	9,895	-	-	-	-
CV	42	77	69	138	186	293	482	587	901	-	-	-	-
CPI	0.93	0.95	0.97	0.96	0.96	0.95	0.93	0.93	0.91	-	-	-	-
EAC (Cumulative)	586	1,612	2,521	3,594	4,446	5,514	6,634	7,898	8,994	10,094	11,720	13,234	13,373
Yr End Budget Var	(112)	(189)	(14)	(24)	134	343	386	596	879	-	-	-	138

SCHEDULE PERFORMANCE (\$'s in 000)

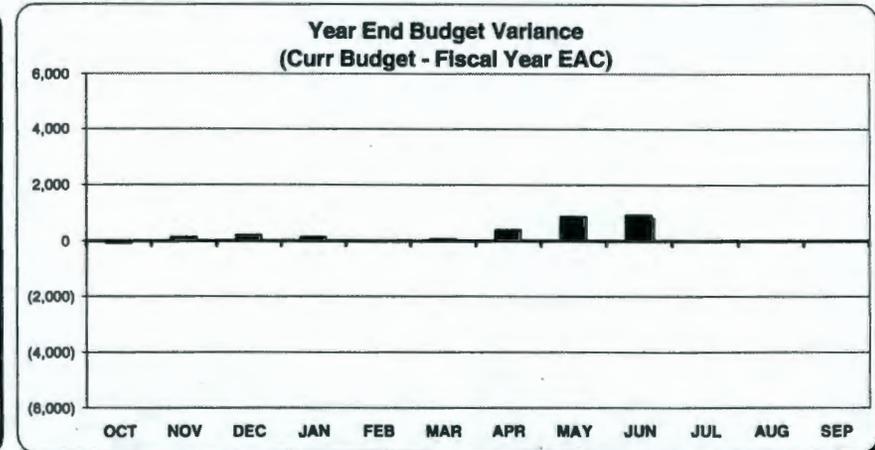
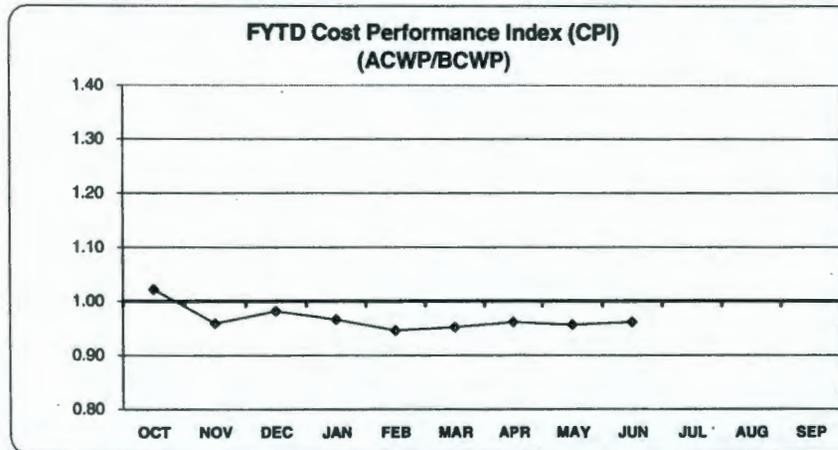
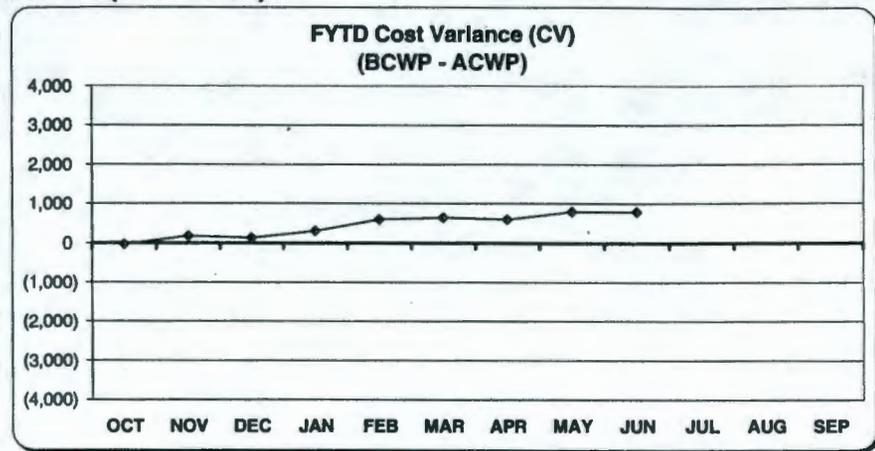
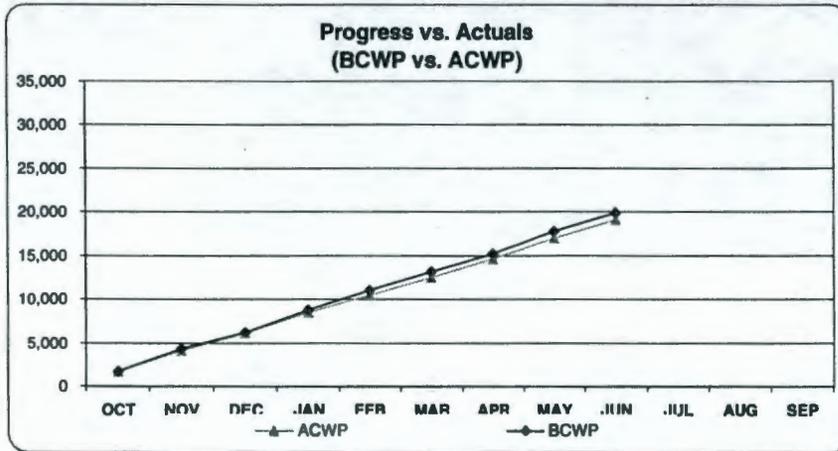


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	1,446	2,295	1,779	2,354	1,860	1,962	1,974	2,500	1,916	1,916	2,521	4,460
DWP (Accum)	1,446	3,741	5,520	7,873	9,734	11,696	13,670	16,170	18,085	20,001	22,523	26,982
CURRENT PERIOD												
BCWS	1,618	2,683	1,980	2,658	2,462	1,946	2,243	2,430	2,226	2,289	2,638	3,537
BCWP	1,668	2,617	1,957	2,556	2,241	2,088	2,085	2,518	2,147	-	-	-
FISCAL YEAR TO DATE												
BCWS	1,618	4,301	6,282	8,940	11,402	13,348	15,591	18,021	20,247	22,536	25,174	28,711
BCWP	1,668	4,284	6,241	8,797	11,038	13,126	15,212	17,729	19,876	-	-	-
SV	49	(17)	(41)	(143)	(364)	(222)	(379)	(291)	(370)	-	-	-
SPI	0.97	1.00	1.01	1.02	1.03	1.02	1.02	1.02	1.02	-	-	-
Yr End Sch Carry Over	-	-	1	-	-	-	-	144	278	-	-	-

PROGRAM MANAGEMENT AND SUPPORT - ERC

TPA Third Quarter Review

COST PERFORMANCE (\$'s In 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
-ACWP	1,703	2,402	2,015	2,368	1,952	2,041	2,139	2,326	2,145	-	-	-	-
BCWP	1,668	2,617	1,957	2,556	2,241	2,088	2,085	2,518	2,147	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	1,703	4,105	6,120	8,488	10,440	12,481	14,620	16,946	19,091	-	-	-	-
BCWP	1,668	4,284	6,241	8,797	11,038	13,126	15,212	17,729	19,876	-	-	-	-
CV	(36)	179	121	309	598	645	592	784	785	-	-	-	-
CPI	1.02	0.96	0.98	0.96	0.95	0.95	0.96	0.96	0.96	-	-	-	-
EAC (Cumulative)	1,703	4,105	6,120	8,488	10,440	12,481	14,620	16,946	19,091	21,353	23,916	27,519	27,796
Yr End Budget Var	(86)	120	195	115	2	57	371	865	914	-	-	-	278

Facility Stabilization Project Reducing Risks

B Plant Deactivation Project

Milestone
TPA-M-82

IAMIT Meeting August 24, 1999
Tri-Party Agreement Milestone
Status Report

Ecology Project Manager - S Mohan
DOE RL Program Manager - DT Evans
FDH Environmental Sponsor - AM Hopkins

Facility Stabilization Project Reducing Costs

Facility Stabilization Project Reducing Risks

Program Manager's Assessment

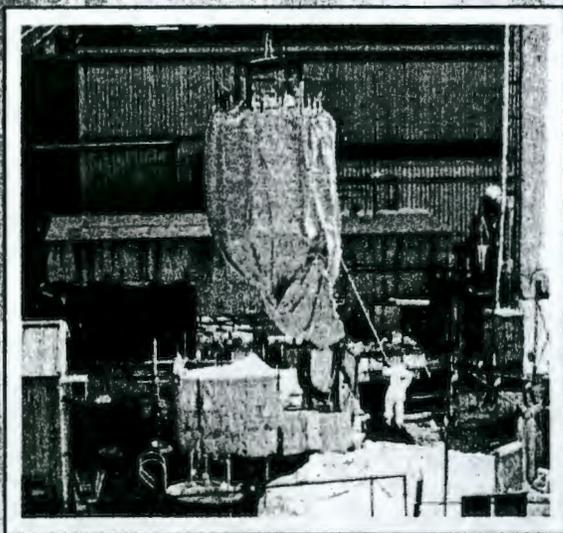
Since last quarterly review

Environmental - Excellent

Activities are progressing well to turn over the deactivated B Plant to BHI and complete the associated TPA milestone in advance of the milestone date.

Cost - Excellent

The B Plant Project delivered the deactivation of B Plant four years ahead of the original planning with approximately \$100 million in cost avoidance/savings. The B Plant Surveillance & Maintenance costs are being reduced from approximately \$20 million per year in 1995 to approximately \$0.8M in FY00.



Safety - Excellent

The safety track record on the B Plant Deactivation Project continues to be excellent during the quarterly surveillance and maintenance activities.

Schedule - Very Good

Delay in preparation of the Authorization Basis and a related issue due to a USQ remain the critical items that must be resolved prior to transfer to BHI. Documentation required by section 8 of the TPA has been prepared and is being reviewed by Ecology. DOE anticipates meeting the TPA milestone.

Facility Stabilization Project Reducing Costs

Facility Stabilization Project Reducing Risks

Major Accomplishments

in last three months

Revised Part A is being certified by the contractors and DOE before being sent to Ecology.

Informal comments on the Pre-Closure Work Plan have been resolved with Ecology and comments are being incorporated.

Informal comments from Ecology on the Surveillance & Maintenance Plan are being resolved by BHI.

95% of the Punch List items have been completed.



Karl McDaniel, HVAC Cog engineer, surveys completed Project W-059.

Facility Stabilization Project Reducing Costs

Facility Stabilization Project Reducing Risks

Planned Accomplishments

Next Six Months

M-82-00

Ecology to review and approve final documentation for completing the milestone.

- Revised Part A permit.
- Pre-Closure Work Plan.
- Surveillance and Maintenance Plan.

Complete Punch List items; Turn facility over to BHI.

Facility Stabilization Project Reducing Costs

Facility Stabilization Project Reducing Risks

Baseline Performance

FYTD Cost and Schedule Variance for FY '99

BCWS	BCWP	ACWP	SV	CV
2,677.4	2,568.1	2,716.0	- 109.3	-147.9

FYTD Schedule Variance

The schedule variance is because the SAR has not been approved and the punch list has not been completed. It is expected that the SAR will be approved and the punch list will be completed by the end of the fiscal year.

FYTD Cost Variance

The cost variance is the result of the Low Level Liquid Waste Project exceeding the budget.

Facility Stabilization Project Reducing Risks

Issues

TPA Milestone M-82-00 may not be completed on schedule September 1999

- Comments on the environmental documentation, S&M Plan and the Pre-Closure Work Plan have not fully been agreed upon by Ecology and DOE.
- PHMC has no control over the S&M Plan; this is a BHI document.

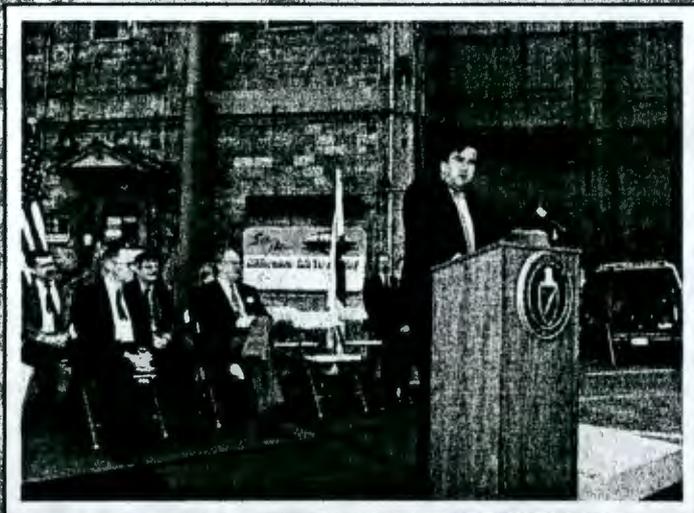
Facility Stabilization Project Reducing Costs

Facility Stabilization Project Reducing Risks

Project Summary

Excellent

The B Plant Project is a major success story demonstrating what can be achieved when DOE, Contractors and Regulators work together in a partnering relationship to achieve "Breakthrough" projects on accelerated schedules with multi-million dollar cost avoidance.



Facility Stabilization Project Reducing Costs

Facility Stabilization Project Reducing Risks

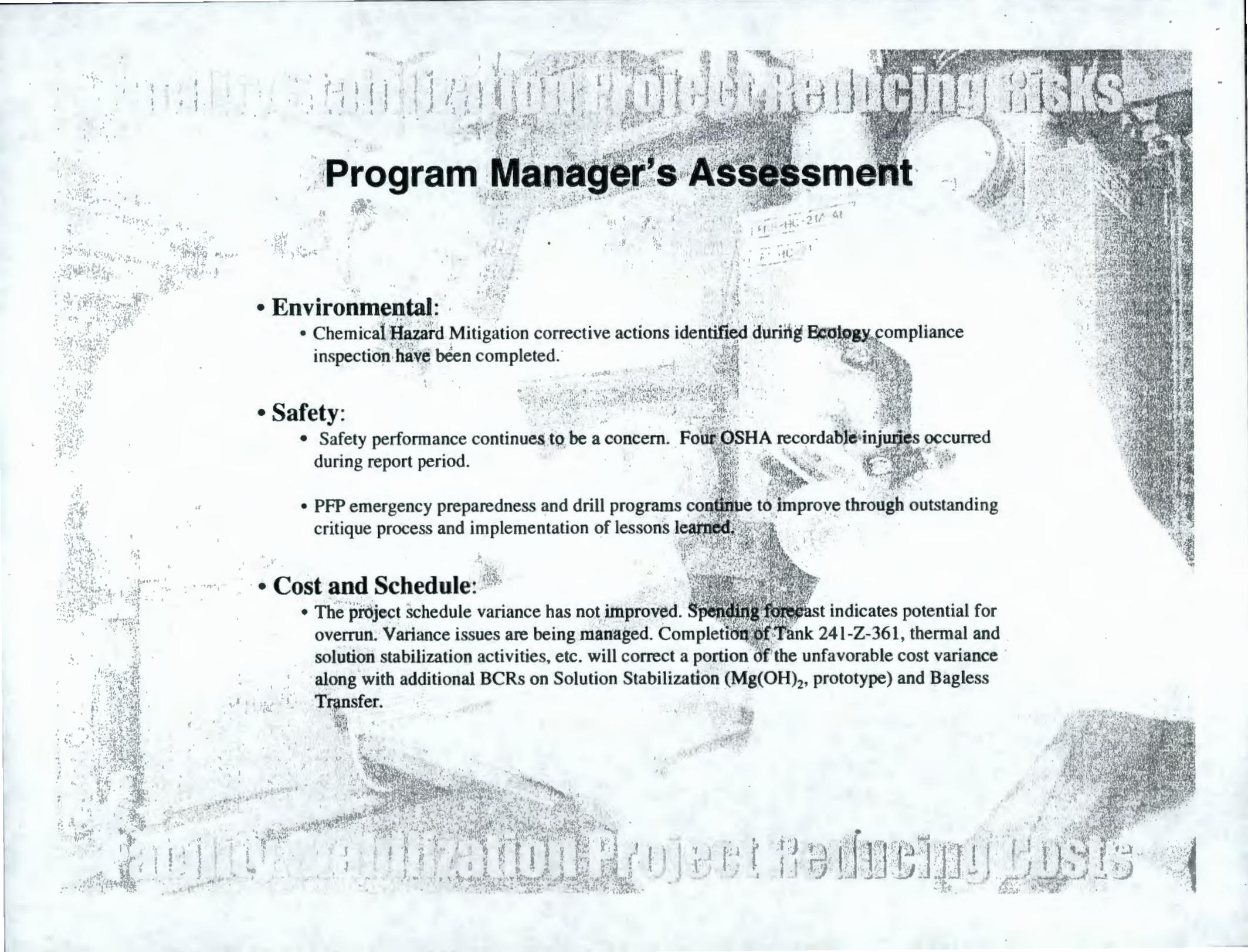
Plutonium Finishing Plant Stabilization Project

Milestone
TPA-M-83

IAMI Meeting August 24, 1999
Tri-Party Agreement Milestone
Status Report

Ecology Project Manager - S Mohan
DOE-RL Program Manager - WD Seaborg
FDH Environmental Sponsor - AM Hopkins

Facility Stabilization Project Reducing Costs



Program Manager's Assessment

- **Environmental:**

- Chemical Hazard Mitigation corrective actions identified during Ecology compliance inspection have been completed.

- **Safety:**

- Safety performance continues to be a concern. Four OSHA recordable injuries occurred during report period.
- PFP emergency preparedness and drill programs continue to improve through outstanding critique process and implementation of lessons learned.

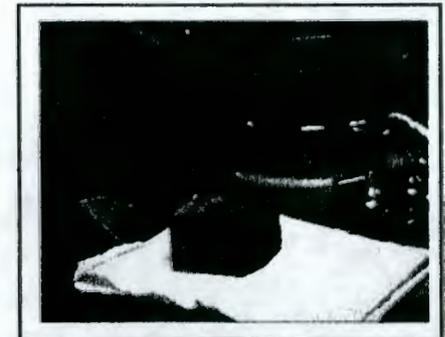
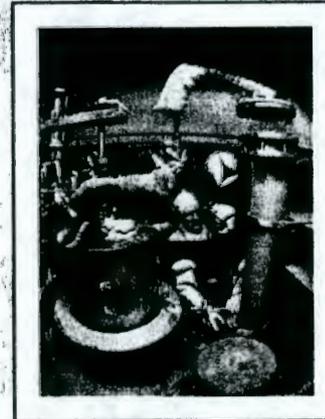
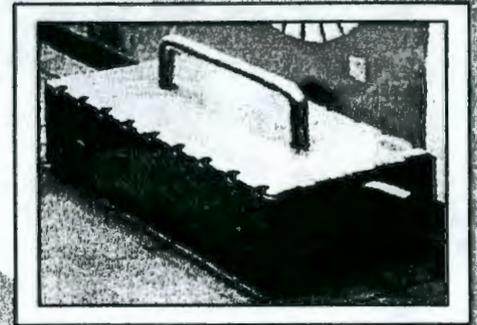
- **Cost and Schedule:**

- The project schedule variance has not improved. Spending forecast indicates potential for overrun. Variance issues are being managed. Completion of Tank 241-Z-361, thermal and solution stabilization activities, etc. will correct a portion of the unfavorable cost variance along with additional BCRs on Solution Stabilization ($Mg(OH)_2$, prototype) and Bagless Transfer.

Major Accomplishments

Stabilization

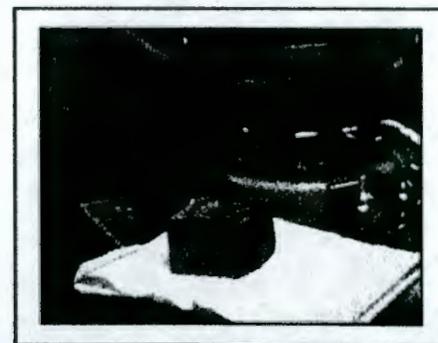
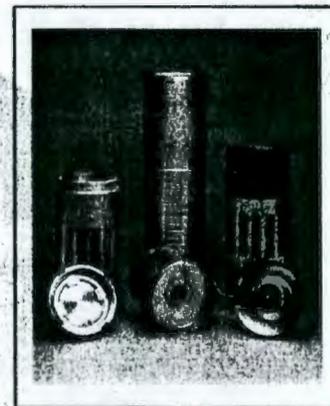
- Completed the Activity Based Startup review for the Prototype Vertical Denitration Calciner on July 2, 1999.
- Completed an internal startup review and began opening and repackaging suspect items.
- U.S. Department of Energy (DOE), Richland Operations Office (RL) reviewed and approved the metals opening Hazards Evaluation and concurred that the associated Unreviewed Safety Question (USQ) should be closed. In a letter dated August 13, 1999, they directed that the USQ PFP-97-05 be cancelled and the associated plant operating restrictions be removed.
- Approvals were received by DOE-RL on Monday, August 2, 1999, for the Final Safety Analysis Report (FSAR), Rev 1, and the Environmental Impact Statement (EIS) Supplement Analysis which will allow an increased charge size for thermal Stabilization.
- PFP started processing sludge feed material on July 15, 1999.



WASTE STABILIZATION PROJECT Reducing RISKS

Major Accomplishments (cont'd)

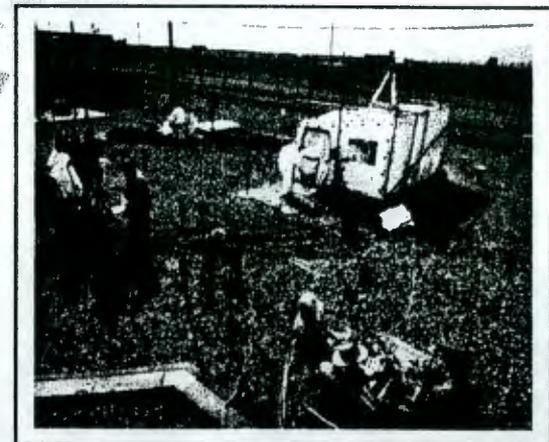
- Submitted the Conceptual Design Document for design, installation and startup of the PFP Packaging and Stabilization system (Project W-460). This documentation will be utilized to support validation of this project.
- Continued PNNL and PFP lab testing to support improved processing technologies for the stabilization of Pu polycubes using existing equipment at PFP.
- Through various testing in the PFP labs, have stabilized small quantities of Pu polycubes, and Pu solutions using the new process intended for full-scale solutions stabilization (Magnesium Hydroxide precipitation).
- Completed preparations (including packaging) to ship PFP HEU materials to Oak Ridge, Tennessee.

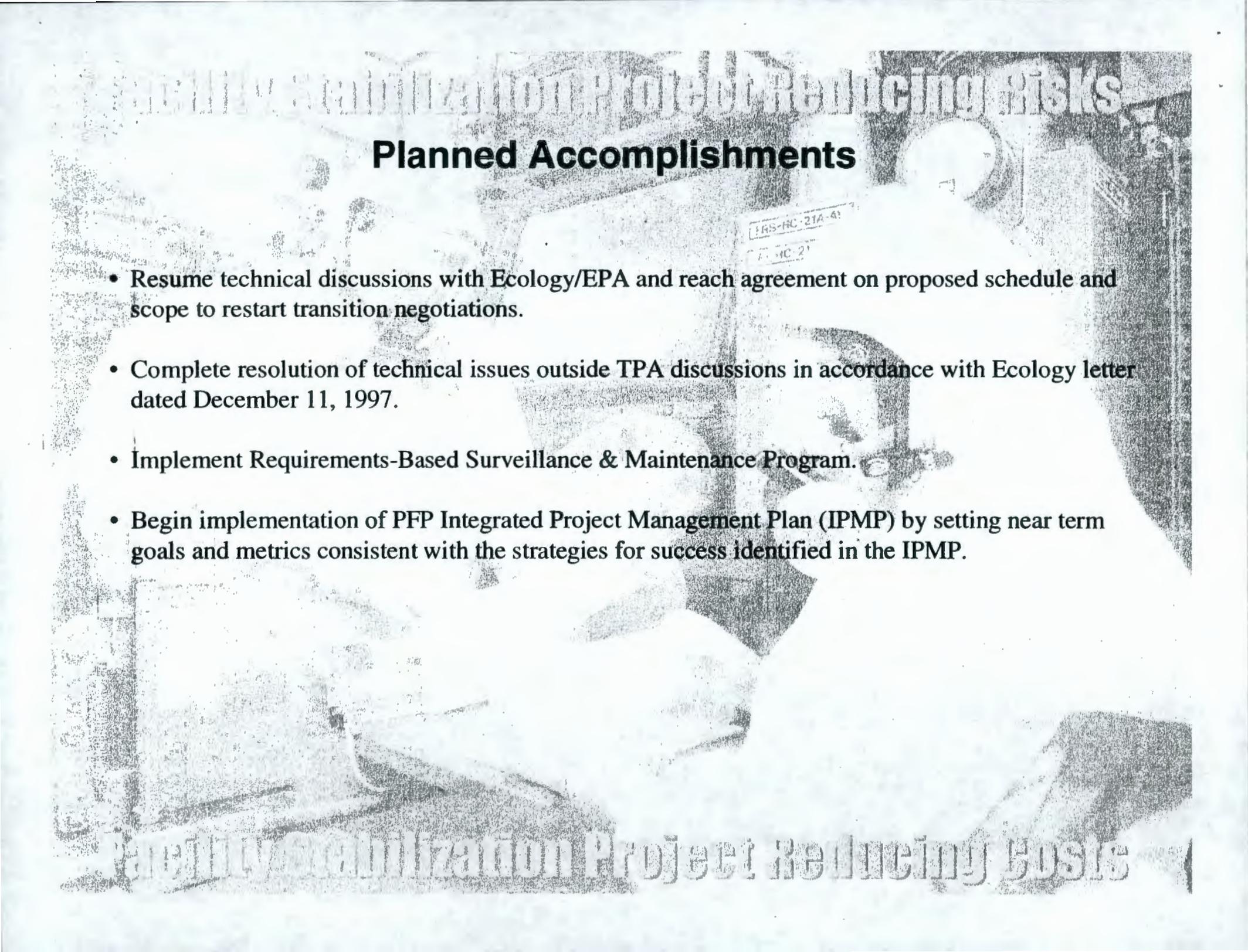


Major Accomplishments (cont'd)

Tank 241-Z-361

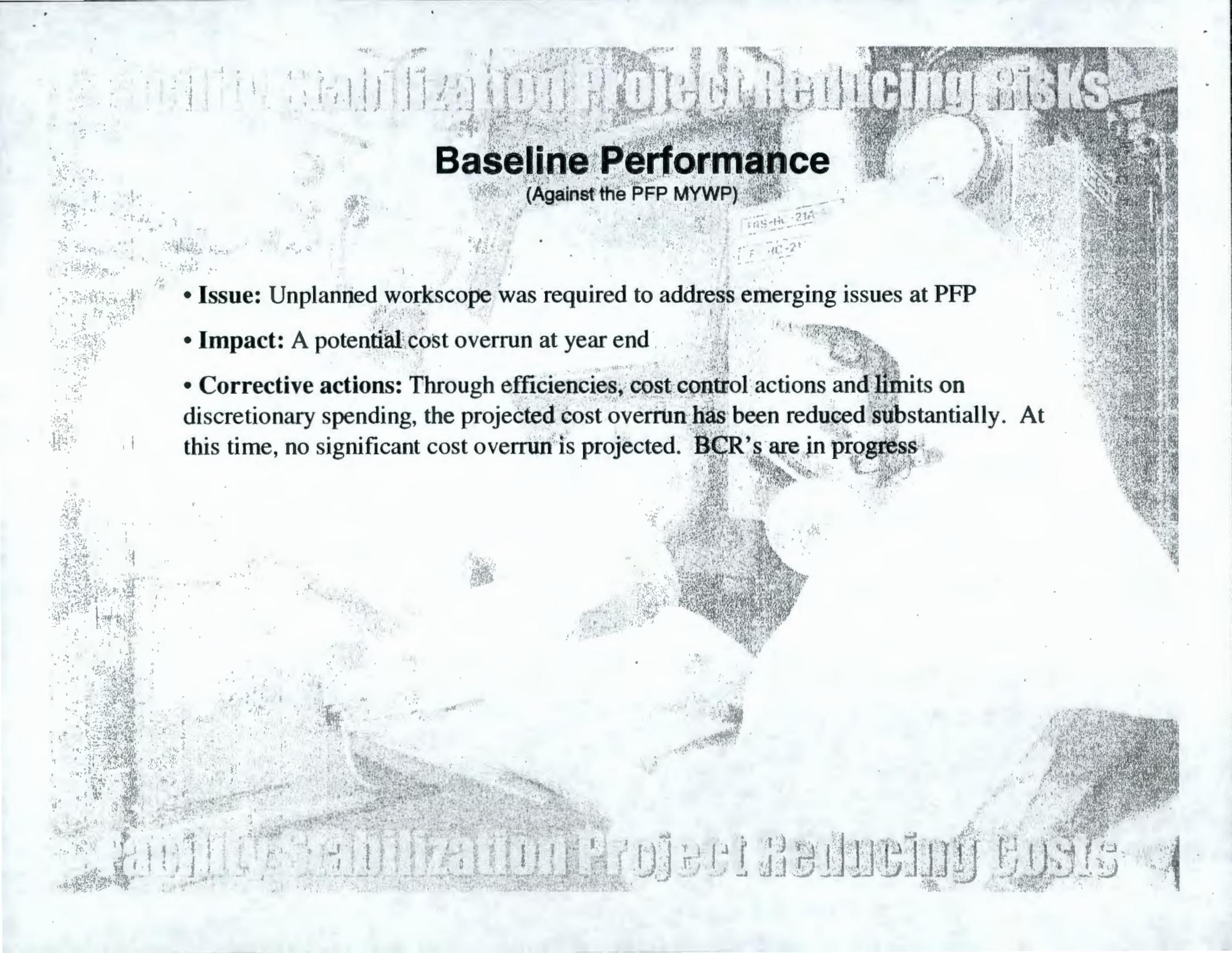
- Resolved comments and received approval for the Tank Sampling and Analysis Plan (TSAP) on August 3, 1999. This provides the regulatory authorization for obtaining the core samples in the tank.
- Issued the Justification for Continued Operation, Rev 2 on June 3, 1999 to provide Safety Basis/Authorization Basis for taking core samples.
- Completed the investigation of the "as found" pipes and determined that they were intact drywells.
- Completed installation of the piers and the bridge required to allow the sampling truck access to the tank.





Planned Accomplishments

- Resume technical discussions with Ecology/EPA and reach agreement on proposed schedule and scope to restart transition negotiations.
- Complete resolution of technical issues outside TPA discussions in accordance with Ecology letter dated December 11, 1997.
- Implement Requirements-Based Surveillance & Maintenance Program.
- Begin implementation of PFP Integrated Project Management Plan (IPMP) by setting near term goals and metrics consistent with the strategies for success identified in the IPMP.



Baseline Performance

(Against the PFP MYWP)

- **Issue:** Unplanned workscope was required to address emerging issues at PFP
- **Impact:** A potential cost overrun at year end
- **Corrective actions:** Through efficiencies, cost control actions and limits on discretionary spending, the projected cost overrun has been reduced substantially. At this time, no significant cost overrun is projected. BCR's are in progress

Issues

Issue: Scope of the PFP transition negotiations is not clearly defined.

- **Impact** - Negotiations remain suspended until issue resolved.
- **Status/Corrective Actions** - The Integrated Project Management Plan (IPMP) has been submitted to DOE-RL. Copies have been presented to Ecology.

Issue: Schedule of necessary and planned PFP transition work not clearly defined.

- **Impact** - Cannot proceed with negotiations until issue resolved.
- **Status/Corrective Actions** - The IPMP submitted to DOE-RL includes an integrated, resource loaded, life cycle schedule. Detailed project specific schedules are in progress.

Issue: Timely and definitive waste/material designations and management of wastes and materials accordingly.

- **Impact** - Manner of resolution will affect the scope of the negotiations.
- **Status/Corrective Actions** - IPMP identifies schedule for conducting stabilization and facility transition activities and documents the preferred pathways for stabilizing and dispositioning plutonium-bearing materials currently in storage at PFP. Discussions with DOE-HQ regarding these dispositions are being finalized.

Facility Stabilization Project Reducing Risks

300 Area Stabilization Project

Milestone
TPA-M-89

IAMIT Meeting August 24, 1999
Tri-Party Agreement Milestone
Status Report

Ecology Project Manager - AB Stone
DOE RI Program Manager - DW Templeton
FDH Environmental Sponsor - AM Hopkins

Facility Stabilization Project Reducing Costs

Active Milestone Overview

Milestone M-89-00 Interim Milestones and Target Dates

Milestone	Description	Target Date	Status
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.	10/31/05*	In progress
M-89-02	Complete removal of 324 Building REC B-Cell MW and equipment.	11/30/00	In progress

*Pending approval of Hanford Federal Facility Agreement and Consent Order Change Control Form, Change Number M-89-99-01, dated July 26, 1999. The Focus Sheet to support public involvement was issued by RL. The 45 day public comment period ended June 10, 1999. The revised Change Request, M-89-99-01, was transmitted to ECOLOGY and EPA on August 6, 1999, along with the public comment response documentation.

Program Manager's Assessment

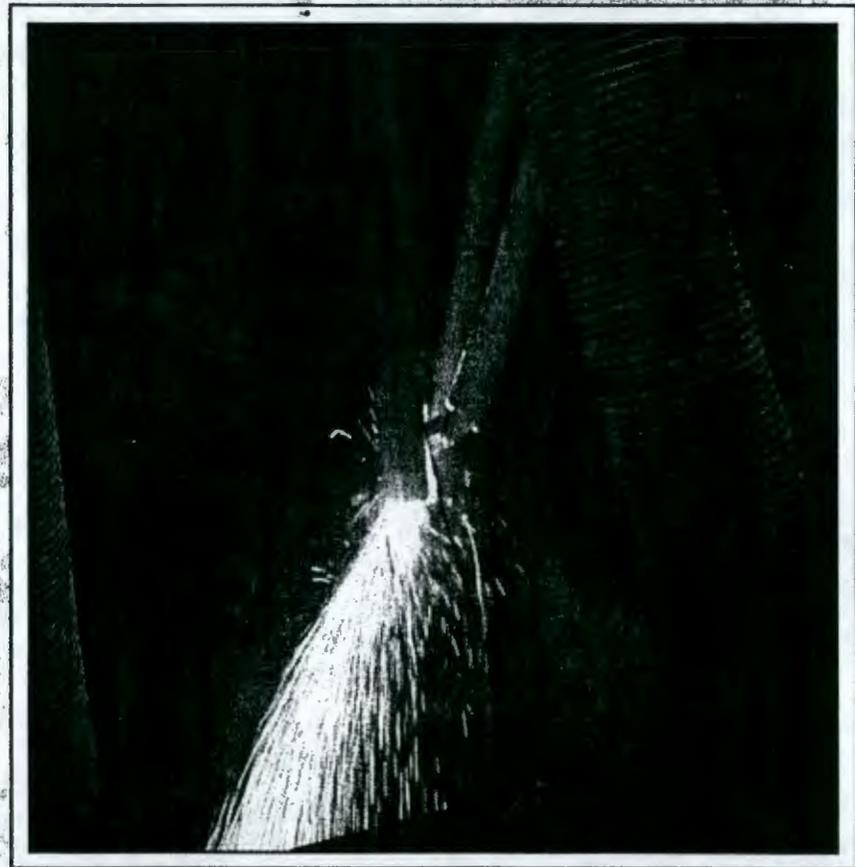
Since last quarterly review

Environmental - *Excellent*

All activities related to completion of the M-89 milestone have been conducted in compliance with environmental regulations. No adverse impacts to the environment have occurred.

Safety - *Excellent*

All activities related to completion of the M-89 milestones have been conducted safely during the most recent quarter. Cutting operations, crane repairs, and airlock entries have all been conducted safely.



Program Manager's Assessment

Since last quarterly review

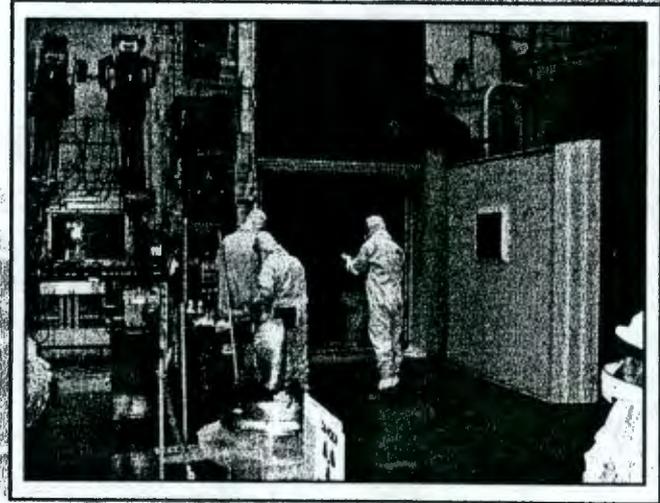
Cost - Marginal

Baseline Change Request (BCR) BCR FSP-99-017 was approved on May 25, 1999. The authorized activities are to prepare for bulk Remote Handled-Transuranic (RH-TRU) storage capability in the CWC, added additional sampling analyses, prepare 3 additional engineering studies, and defer grout container shipments into FY 2000.

The B-Cell Cost Variance (\$1,589 K) is primarily attributable to:

- Repair of B-Cell Cranes
- Delays associated with waste characterization/shipping
- Delays in completing the 1A Rack Size Reduction.
- Increased Liquid Waste Handling System Design Costs.

Removal of 2A Rack from the wall in order to start size reduction concurrent with A-Cell clean-out is unlikely, which will increase this cost variance by the end of the Fiscal Year (FY). A significant cost saving will be realized if 2A Rack sampling is not required. A decision regarding the need for sampling is scheduled for mid-September.



Program Manager's Assessment

Since last quarterly review

Schedule -Marginal

BCR FSP-99-017 added work scope to initiate preparation of RH-TRU storage capability in the Central Waste Complex (CWC), update the Special Case Waste Study, complete a Waste Management Strategy, add additional 1A Rack and 2A Rack sampling, and prepare for interim storage of Grout Containers in the 324 Building C-Cell. The BCR delays shipment of TRU and Low Level Waste, and delays transfer of fuel from B-Cell to A-Cell. The revised schedule supports completion of the M-89-02 milestone, but eliminates all contingency and does not provide for crane down-time.

Unresolved issues with the TRU/LLW classification of grout containers continues to be a major B-Cell issue. BCR FSP-99-017 assumed resolution of this issue by July 1, 1999 in order to support Milestone M-89-02; resolution is now expected in September 1999. Shipment of all grout containers has been suspended pending resolution of TRU/LLW characterization issues. Inability to ship grout containers is causing space limitations in B-Cell.

Continued focus is being provided by the Crane Team that was assigned early in this reporting period. B-Cell cranes were inoperable from June 1, 1999 to July 26, 1999. No progress towards completion of the M-89 milestone was made during this period. With completion of the repair to the 3-Ton Crane cable reel on July 26, 1999, B-Cell had two operable cranes for the first time since October 1996. The 10 ton crane experienced a motor failure on August 10, and repairs are being planned. Minor issues with trail cable tension are being resolved. Maintenance trouble-shooting training by the crane vendor was initiated in July.

Significant Accomplishments

in last three months

M-89-00

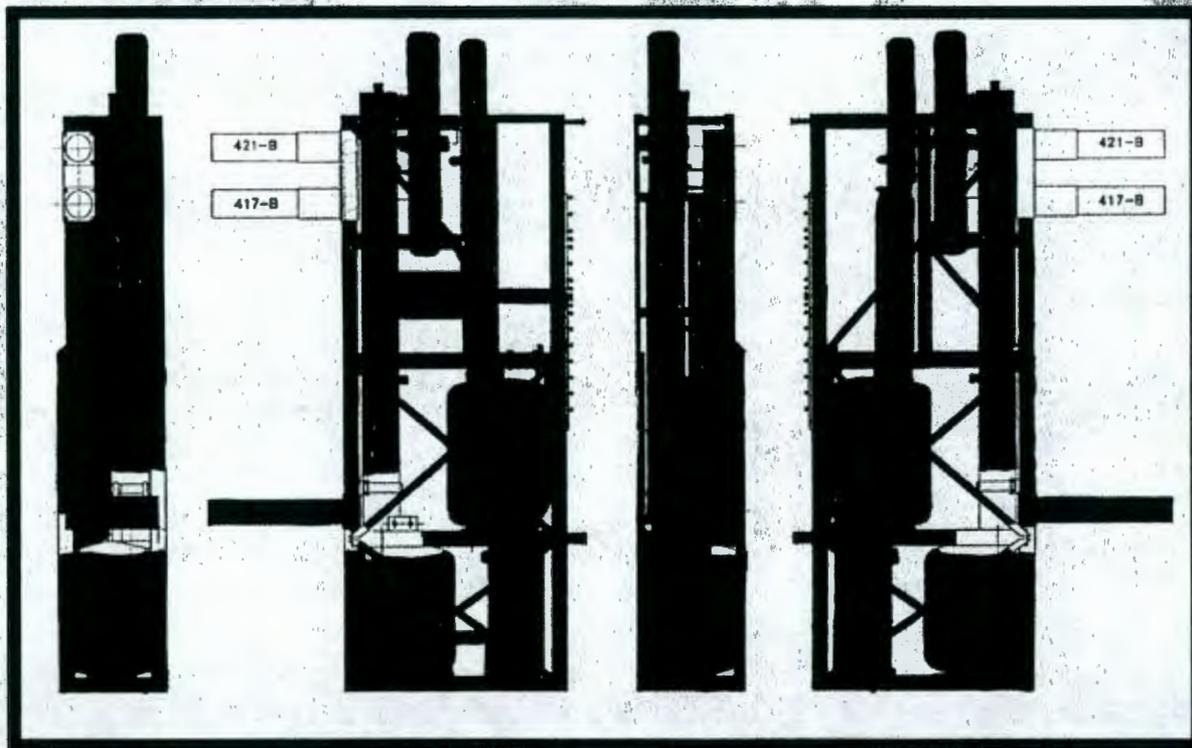
- A proposed due date for completion of closure activities has been established as October 31, 2005, replacing the TBE date status for Major Milestone M-89-00. A revised Milestone Change Sheet (M-89-99-01), dated July 26, 1999, was submitted to ECOLOGY and EPA on August 6, 1999.

M-89-02

- BCR FSP-99-017, approved by RL on May 25, 1999, recognizes the need for a modified approach to management of the waste generated by B-Cell size reduction activities.
- The cable reels for the 3-ton and 10-ton cranes were replaced. These reels have stronger springs that allow the cranes to move without the trail cables binding. The cranes were released to operations July 26, 1999, after two months downtime for repair.
- 1A Rack Size Reduction activities did not progress during June and July due to inoperable B-Cell cranes. Clamshelling of 1A pieces has resumed. 1A Rack Size Reduction is expected to be completed by September 30, 1999. The status shown on the attached figure represents no change since the May 1999 Presentation.
- The REC Decontamination Engineering Trade Study was completed on July 8, 1999. The B-Cell Dispersible material removal Engineering Trade Study was completed. Both provide the technical path forward for FY 2000 and FY 2001 activities.
- A Deployment Plan for the ASTD Proposal for "Deploying a Robot Work Platform for Large Hot Cell Deactivation" has been approved. Requests for Information were issued in February and July 1999. A Draft Request for Proposals (RFP) has been prepared. The RFP is scheduled for issue on September 7, 1999. Deployment is currently scheduled for September 2000.

1A Rack Size Reduction

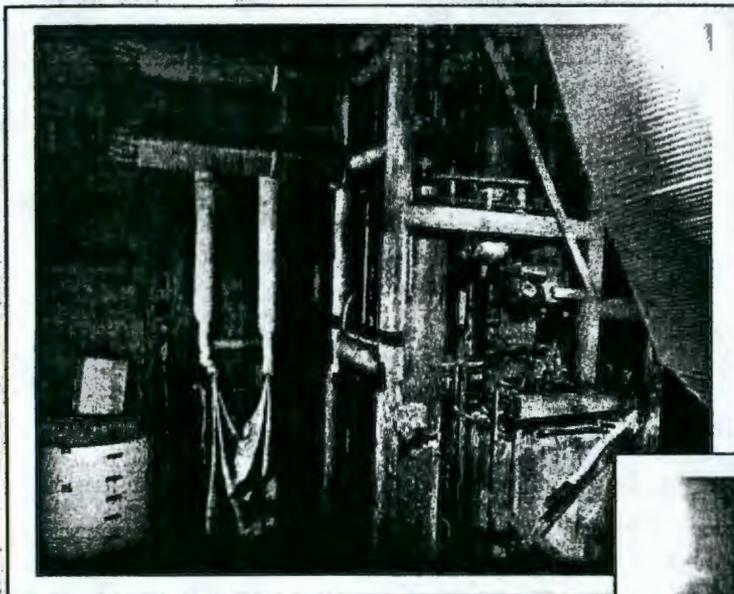
(Shaded Areas Indicate Items Removed Between November 17, 1998 and May 17, 1999)



Status as of August 10, 1999

Facility Stabilization Project Reducing Risks

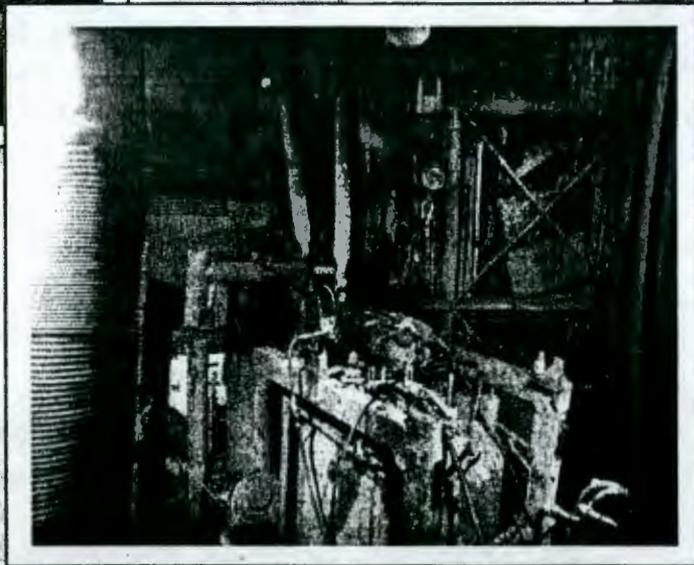
1A Rack Early Photo



E-115 Condenser



TK-113 in 1A Rack;
2A Rack in background



Facility Stabilization Project Reducing Costs

Significant Planned Actions

Next Three Months

M-89-02

- 1A Rack size reduction will be completed. The associated B-Cell waste will be placed in grout containers and moved to C-Cell or A-Cell for interim storage.
- Preparations for shipment of the grout containers to the 200 Area Burial Grounds will be completed. Note: grout container shipment is pending resolution of the TRU/LLW grout container designation issue.
- Resolution of TRU/LLW characterization/sample methodologies will be completed.
- Design and fabrication of equipment to enable transfer of Spent Nuclear Fuel equipment from the B-Cell to the A-Cell will be completed.
- Clean-out of A-Cell will be completed.
- Repair of the 30-ton crane will be completed.
- Update of the Special Case Waste Study will be completed.
- The Robotics ASTD Proposal Request for Proposals (RFP) will be issued, and the Project Management Plan (PMP) will be drafted.
 - Integration of the ASTD Robotics Deployment will be included in the FY2000 MYWP.
 - The 324/327 Buildings Stabilization/Deactivation Project PMP will be updated during the first Quarter of FY 2000.



Baseline Performance

FY 1999 Schedule Variance -

Summary Variance Analysis -The B-Cell project continues to lag behind schedule. New sample results and characterization method changes will most likely classify some of the current and future B-Cell dunnage material as RH-TRU. Handling capability for this volume and category of waste has been agreed to by FDH, WMH, and BWHC. Delays in finalizing the sample results and characterization methodology have hindered progress.

Inconsistent crane operations have also contributed to delays in B-Cell size reduction activities. Continued focus is being provided by the Crane Team. Maintenance trouble-shooting "simulator" training by the crane vendor was initiated in July.

FY 1999 Cost Variance

Summary Variance Analysis -. Following approval of BCR-FSP-99-017, costs for work completed to date will be within required reporting limits. Costs are tracking closely with the work being performed. BCR FSP-99-017 was approve RL on May 25, 1999. Delay of work scope into FY2000 will increase costs in FY2000 by an estimated \$1.8 M.

The B-Cell cost variance is attributable to delays associated with additional costs for sample analyses, waste characterization/shipping and delays, and increased maintenance/overtime associated with crane downtime.

Issues

Issue: Unresolved issues with the TRU/LLW classification of grout containers continues to be a major B-Cell project issue. Shipment of all grout containers has been suspended pending resolution of TRU/LLW characterization issues. Inability to ship grout containers is causing space limitations in B-Cell. BCR FSP-99-017 assumed resolution of this issue by July 1, 1999 in order to support Milestone M-89-02; Resolution is now expected in September 1999.

- **Impact** Legacy grout containers in B-Cell cannot be shipped to 200 Area Burial Grounds until waste designation is confirmed. Newly generated grout containers cannot be shipped at this time due to questions regarding the TRU/LLW classification. Intensive shipping will be required through the winter season.
- **Corrective Action -**
 - Solution to the TRU/LLW characterization issues are continuing to be being pursued. Schedules are becoming very tight for grout container shipment to support FY 1999 work scope and Tri-Party Agreement M-89-02.
 - All sampling analyses and supporting documentation completed in FY 1999 to resume waste shipments.
 - Plans are proceeding to use C-Cell or A-Cell as an interim storage location for grout containers in order to free space in B-Cell to allow rack size reduction.
 - Alternate shipping/storage options are being explored that would allow for shipment/storage of TRU/LLW materials. RH-TRU storage capacity is being installed in the 200 West CWC to allow RH-TRU to be shipped out of the 324 Building.

Facility Stabilization Project Reducing Risks

Issues

Issue: Progress towards completion of the M-89-02 milestone continues to lag behind schedule.

- **Impact** - If not recovered, could delay completion of Phase I Closure Activities.
- **Status/Corrective Actions** -
 - TRU/LLW characterization issue is scheduled for resolution in September 1999.
 - Storage capacity for RH-TRU is being installed.
 - A dedicated Crane Team continues to seek means of improving crane operations.
 - Enhanced troubleshooting "simulator" training by the crane vendor was initiated in July.

Issue: Progress towards completing M-89-02 and subsequent phases of the Closure Plan require continued funding to support those activities.

- **Impact** - Lack of sufficient funding places outyear Closure Plan schedule in jeopardy.
- **Status/Corrective Actions** -
 - FY2000 funding for TP-08 324 Closure Plan is identified above the line as presently proposed.
 - FY2001 funding will continue to receive RL management support as FY2001 budgets are finalized.

Facility Stabilization Project Reducing Costs

Facility Stabilization Project Reducing Risks

Project Summary

- BCR 99-FSP-017 has been approved and implemented. BCR 99-FSP-017 recognizes increased work scope due to radiological waste characterization methodology changes and sample analyses uncertainties.
- Significant delays in TRU/LLW Characterization activities and inoperable cranes have occurred since approval of BCR FSP-99-017.
- Evaluation of recovery options to meet the M-89-02 milestone are underway.
- Modification to the 324/327 Stabilization/Deactivation Project PMP will be completed in the first quarter of FY 2000 to add the changes to the PMP baseline.

Facility Stabilization Project Reducing Costs

Facility Stabilization Project Reducing Risks

300-Area Stabilization Project

Milestone
TRAM-92

IAMIT Meeting August 24, 1999
Tri-Party Agreement Milestone
Status Report

Ecology Program Manager
DOE-RL Program Manager - 1
FDH Environmental Sponsor

Att. 5

Facility Stabilization Project Reducing Risks

Facility Stabilization Project Reducing Risks

Milestone M-92-00 Interim Milestones and Target Dates

Milestone	Description	Target Date	Status
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	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.	12/31/09	On schedule
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).	6/30/03	On schedule
MX-92-06T	Complete commercial disposition and/or the acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal/disposition of all Hanford Site UU.	12/31/00	In progress
M-92-09	Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal of Hanford Site sodium.	TBD, pending FFTF Mission decision	On hold
M-92-10	Submit Hanford Site Sodium Project Management Plan (PMP) to Ecology pursuant to Agreement Action Plan Section 11.5.	10/31/98	On hold
MX-92-11-T01	Complete disposition options for all Hanford non-radioactive sodium.	3/31/02	In progress
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).	9/30/06	On schedule
M-92-13	Submit 300 Area SCW PMP to Ecology pursuant to Agreement Action Plan, Section 11.5.	9/30/00	On schedule
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.	9/30/02	Ahead of schedule
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.	9/30/04	Ahead of schedule
M-92-16	Complete removal and transfer and initiate storage of Phase III 300 Area SCW and materials.	9/30/06	Ahead of schedule

Facility Stabilization Project Reducing Costs

Facility Stabilization Project Reducing Risks

Program Manager's 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 - Excellent

Key Milestone M-92 activities are being completed within budget.

Facility Stabilization Project Reducing Costs

FACILITY STABILIZATION PROJECT REDUCING RISKS

Program Manager's Assessment

Since last quarterly review

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. Documentation of the 300 Area Curie Inventory is being finalized. Review comments are being discussed with PNNL, FDH, and BWHC.
- Sodium Disposition items (M-92-09 and -10) are on-hold pending a decision regarding future missions at the FFTF.
- About 5900 pounds of drummed sodium was shipped from the site for recycle.
- Uranium disposition discussions between Oak Ridge and Hanford are continuing. The current discussions would ship 90-100% of the Hanford Uranium inventory to Oak Ridge. At this time, no significant technical issues have been identified for 50 to 60% by weight of the material. Unresolved technical issues with shipping enriched N-Reactor fuel are still being worked. (MX-92-06T)
- Based on its evaluation of BNFL's optimization study, the Office of River Protection (ORP) directed BNFL to include the capability to process the Cs/Sr capsules in its Phase 1 facilities design on June 30, 1999. If ORP exercises the option to process the Cs/Sr capsules in Phase 1, the 10-year acceleration in close out of WESF will result in a >\$100M savings.

FACILITY STABILIZATION PROJECT REDUCING COSTS

FACILITY STABILIZATION PROJECT REDUCING RISKS

Significant Accomplishments

in last three months

- M-92-05** BNFL issued an optimization study that includes recommendations regarding the processing of Cs/Sr capsules.
- MX-92-11-T-01** About 5900 pounds of sodium in barrels was shipped to recycle. Resumed cleaning sodium residuals from drained sodium tanks.
- M-92-12** Continued administrative activities to allow reopening of the No.2 PUREX tunnel and finalize the path forward for the 324 and 327 Facilities' Special Case Waste destined for the tunnel. Storage of portions of the SCW at the 200 West Area Central Waste Complex is being evaluated.
- M-92-13** Continued progress towards issuance of the SCW integrated PMP. PMP in review process. Planned for issue during September 1999, one year ahead of the milestone date.
- M-92-14** Ahead of schedule. Prepared draft closure documentation. Milestone will be documented as complete following finalization of the 300 Area Radionuclide List.

FACILITY STABILIZATION PROJECT REDUCING COSTS

Facility Stabilization Project Reducing Risks

Significant Planned Actions

Next Three Months

M-92-00

- Issue the M-92 Memorandum of Agreement.

M-92-05

- The ORP has completed preparation of a draft Supplemental Record of Decision to the TWRS Environmental Impact Statement that adds disposition of the Cs/Sr capsules to the TWRS tank waste treatment and disposal mission. The Supplemental ROD will be issued for public review and comment, following completion of internal reviews.

MX-92-06T

- Continue discussions regarding transfer of 90-100% of the Hanford Uranium inventory to Oak Ridge.
- Uranium disposition team developing pathway options.

MX-92-11-T01

- Continue cleaning of sodium residuals from 221-T sodium tanks in the 337 High Bay

M-92-12

- Issue a revision to the Special Case Waste Study to document storage of portions of the 300 Area SCW at the 200 West Area Central Waste Complex.

Facility Stabilization Project Reducing Costs

Facility Stabilization Project Reducing Risks

Significant Planned Actions

Next Three Months

M-92-13*

- Finalize 300 Area Special-Case Waste Inventory.
- Issue the 300 Area Special Case Waste PMP.
- Evaluate (and revise if applicable) impacts of implementing DOE Order 435.1.

M-92-14*

- Issue closure documentation following issuance of the 300 Area Radionuclide List.

M-92 -15 and 16*

- Continue to package legacy waste buckets within the 327 Building hot cells and ship the waste buckets to storage in the 200 Waste Area to meet program commitments.

* Present funding uncertainties as reflected in the PPL for FY 2000 planning will not adversely affect the completion of these TPA milestones. If funding shortfalls continue into FY 2002, then impacts to future milestones could be in jeopardy.

Facility Stabilization Project Reducing Costs

Facility Sanitization Project Reducing Risks

Issues

M-92-09,10

Issues

Remains on hold pending disposition of Hanford Federal Facility Agreement and consent order change control form, change number M-92-98-01. The change form requests that these milestones be held "in abeyance" pending a decision on the future mission of the FFTF.

Impact

Schedule commitments for M-92-09 and -10 have not been met.

Facility Stabilization Project Reducing Costs

Project Summary

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

To date:

- M-92, all activities required to date have been completed ahead or on schedule. All future milestones are ahead or on schedule. Exceptions: M-92-09 and M-92-10 are on-hold, pending an FFTF Mission Decision.
- M-92-14, -16: 23 Legacy waste drums have been loaded in FY 1999. 17 waste drums have been shipped from the 327 Building.
- M-92-13, On schedule.
- M-92-14, -15, and -16, Ahead of schedule.

