0081677

Central Plateau/FFTF
Tri-Party Agreement Milestone Review
Meeting Minutes
April 16, 2009

Approval: _____ Date: 5/21/09
J. Hedges
Ecology IAMIT Representative

Approval: _____ Date: 5/22/09
M.S. McCormick
DOE IAMIT Representative, Chairperson

Approval: _____ Date: 5/21/09
D. A. Faulk
EPA IAMIT Representative

Minutes Prepared by:
_____ Date: 5/27/09
T.W. Noland
Fluor Federal Services.

Arnold, L.D.	FH	Laija, E.*	EPA
Ballinger, K.S.	RL	Lilligren, S	NPT
Black, D.G.*	CHPRC	Louie, C.S.*	RL
Bond, R.*	Ecology	Mandis, M.L.	Ecology
Bohnee, G.	NPT	Mattlin, E.M.*	RL
Buelow, L.C.*	EPA	McCormick, M.S.*	RL
Cameron, C.E.*	EPA	McKarns, A.C.	RL
Campbell, R.R.*	EPA	Miskho, A.G.	CHPRC
Chapin, D.H.*	RL	Morrison, R.D.*	YAH
Charboneau, B.L.	RL	Niles, K.	OOE
Cimon, S.*	ODE	Noland, T.W.*	FH
Collins, M.S.*	RL	Piippo, R.E.*	CHPRC
Crocker, M.A.*	CHPRC	Price, J.*	Ecology
Einan, D.R.	EPA	Rasmussen, J.*	YAH
Farabee, O.A.	RL	Riggsbee, W.	Yakama
Faulk, D.A.*	EPA	Romine, L.D.*	RL
Fletcher, T.W.	RL	Russell, R.W.*	ORP
Ford, B.H.	CHPRC	Skinnarland, E.R.*	Ecology
Foss, D. L.*	CHPRC	Singleton, D.G.	Ecology
Franco, J.R.	RL	Thompson, S.A.	FH
Gadbois, L.E.	EPA	Tripplett, M.B.	PNNL
Goswami, D.*	Ecology	Voogd, M.J.	RL
Harris, S.	CTUIR	Walker, C.B.*	CHPRC
Hedges, J.*	Ecology	Weil, S.R.	DOE
Henry, D.	OOE	Whalen, C.L.*	Ecology
Holten, R.A.	RL	Williams, J.D.*	CHPRC
Jaraysi, M.N.	CHPRC	Wollam, C.D.	FH
Jim, R.	Yakama	Administrative Record	
Jones, M.E.	Ecology		
Knox, K.E.*		*Attendee	

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Central Plateau/FFTF
Tri-Party Agreement Milestone Review
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April 16, 2009

PFP Closure Project - TPA Milestone M-083-00

RL reported that the Tri-Parties have signed off on Milestone M-083-23, which was to complete negotiations as needed for revising PFP milestones consistent with final action memo for decommissioning PFP (due March 31, 2009). It was agreed that the PFP milestones did not need to be negotiated, and the current milestones in place are sufficient to address closure of PFP. Milestone M-083-41 has been deleted from the M-083 series, and the work for 216-Z-9 has been transferred to the operable units.

The first Hanford Un-irradiated Fuel Package (HUFP) shipping container has been received on site. The next four HUFPs are scheduled to be shipped to the Hanford Site by the end of April 2009. Removal of combustible material is ongoing; 22 ERDF rolloff boxes have been shipped from the plant. All of the back out plans on the vital safety systems for the facilities have been completed, i.e., shutting off power and ventilation, etc.

With the receipt of the Recovery Act funding, the teams are being increased from nine to nineteen teams, with seven to fifteen members on a team.

EPA requested that arrangements be made for two of their staff to tour PFP.

TPA Milestone M-26-01 - Land Disposal Restrictions Report

RL reported the summary report (M-026-01S) is complete as planned to be submitted by April 30, 2009 milestone due date.

TPA Quarterly Milestone Review M-91 Series

TPA Change Package M-91-08-05 is in a 45-day public comment period, which was extended to May 15, 2009.

RL reported that in the last three months, 197 drums of M-91-42 TRU waste was repackaged into a WIPP-compliant form. Ecology noted that the current proposal is no shipping for five years, and asked if the plan is being altered due to receipt of Recovery Act funding. RL stated that it is possible that shipping could occur in the 2012 -2013 time frame, but there are no definitive plans to ship earlier than 2014. RL also noted that shipping is dependent on the availability of shipping trucks, which are controlled by WIPP. Ecology asked about the impact on storage with the accumulating repackaged drums. RL responded that there is adequate storage space for TRU retrieval. RL also noted that the next scheduled outage for WIPP is winter of 2009-2010, and there may be trucks available to ship the TRU waste that's ready for shipment to Idaho.

Soil and Groundwater Remediation Project Milestone Review - M-15-00, M-16-00, M-24-00

RL referred to the M-15-00 and M-15-00C milestones that are at risk due to FY09 funding, and stated that based on the agreement in principle with EPA and Ecology, the at-risk milestones will be renegotiated by the end of calendar year 2009. EPA and Ecology noted that a "seventh" Record of Decision (ROD) [Note: in addition to the six final RODs proposed for the River Corridor] has been proposed by RL that would cover some of the at-risk milestones. RL acknowledged the proposed seventh ROD, but stated that the milestones must be reflected as at-risk until they are renegotiated and the process is redefined to maintain the milestones. It was agreed to revise the footnote at the bottom of page 2 of the handout to reflect the milestones will be renegotiated by a certain date. Ecology requested that M-015-17A (200-UP-1) not be indicated to be at risk and RL agreed to make this change.

M-024-00, Well Drilling Commitments

RL stated that the issue with M-024-60 is the lack of purgewater storage, but the 60 wells to be installed this year will not be impacted.

RL took an action to ensure that the data quality objectives (DQO) meetings related to well drilling be rescheduled so this effort will move forward.

Significant Accomplishments

Regarding 200 North Remediation, it was noted that the 212-N, -P and -R action memorandum, SAP and RAWP were not yet formally transmitted to EPA. EPA stated that they had provided comments and will need to see the redline strikeout to verify comment incorporation prior to signing the final documents.

Planned Activities - Next Six Months

100-NR-2 - EPA asked if RL still plans to drill 170 wells. RL responded that 170 wells is still in the plan, but it will likely not happen in the next six months. RL is working on the project management baseline and determining where funding from the Recovery Act will be directed.

Issues

RL stated that a meeting is scheduled this afternoon to discuss the lack of purgewater storage. A path forward is being identified.

Fast Flux Test Facility Transition - TPA M-81 and M-92 Milestone Review

RL reported that it is ahead of schedule for meeting all the milestones, and on schedule to go to long-term surveillance and maintenance (S&M) mode by August 31, 2009. RL proposed and

Ecology agreed that once FFTF goes to S&M mode, that a quarterly milestone review would not be required. It was agreed to provide a status following the once-a-year surveillance of the facility at the Project Managers meeting. It was noted that the Ecology is the lead agency for FFTF and the Ecology project manager should be indicated as Rick Bond.

Tri-Party Agreement Major Milestone Management Review
April 16, 2009

Name	Organization	Mail Stop	Phone
Terry Noland	FGG		376-6574
Rick Bond	Ecology		372-7885
Ron Skinnarland	Ecology		372-7924
Matt McCormick	DOE		373-9971
Rich Campbell	EPA		404-562-8611
DENNIS Faulk	EPA		~~376-5466~~
Laura Barlow	EPA		376-5466
Emily Laija	EPA		376-4910
Craig Cameron	EPA		376-8665
Tom Fletcher	DOE-RL		376-4426
Larry Romine	DOE-RL		376-4747
Catherine Louie	DOE-RL		376-6834
Doug Chapin	DOE-RL		373-9396
Shirley Cimon	ODOE		(541) 963-0805
Michael Collins	DOE-RL		376-6536
Jim Rasmussen	YAKSGS		376-0304
Jane Hedges	ECY		372-7905
Cheryl Wilson	Ecology		372-7972

Tri-Party Agreement Major Milestone Management Review
April 16, 2009

Name	Organization	Mail Stop	Phone
ROB BILPRO	CHPRC		373-3285
Dale Black	CHPRC		373-0740
Woody Russell	DOE-ORP		373-5227
RON MORRISON	YAHSGS		376-2991
MARK CROCKER	CHPRC		438 6000
CURT WALKER	CHPRC		438-7144
Rod Lobos	EPA		376-3249
[illegible]	[illegible]		[illegible]
DL Foss	CHPRC		438-2705
John Price	Ecology		372-7921
Dib Goswami	Ecology		372-7902

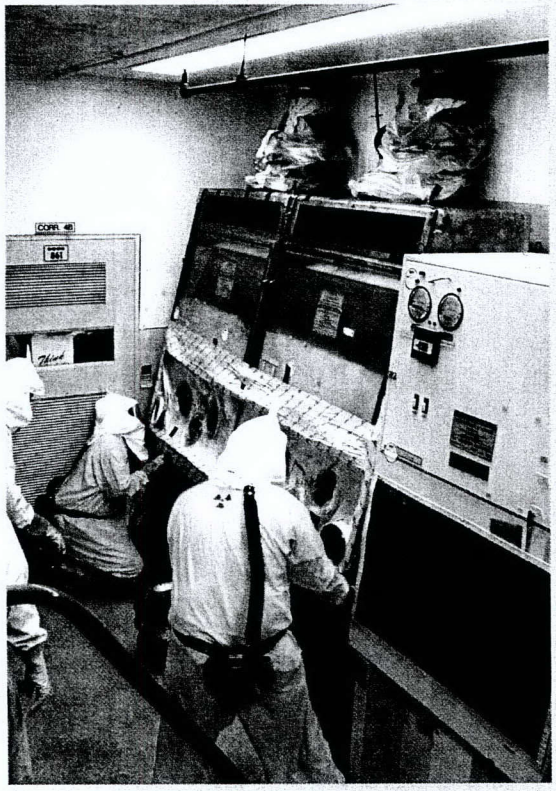
Tri-Party Agreement

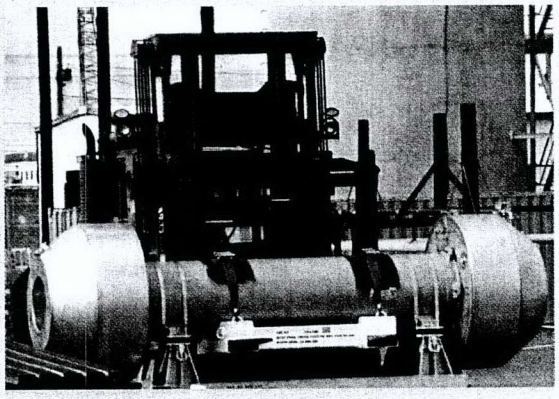
Thursday, April 16, 2009
Ecology Offices, Conference Room 3A/B
3100 Port of Benton Way
Richland, Washington

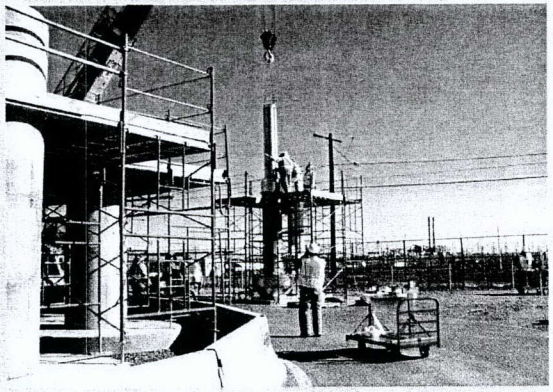
Agenda
Central Plateau/FFTF Milestone Review Meeting
Chairman: Matt McCormick

9:00 a.m.	M-83-00	PFP Transition
9:10 a.m.	M-26-01	Land Disposal Restrictions Report
9:20 a.m.	M-91-00	Acquisition of Facilities to TSD TRU/TRUM and LLMW
9:30 a.m.	M-15-00	RI/FS Process Completion
	M-16-00	Complete Remedial Actions
	M-24-00	Groundwater Well Installation
10:00 a.m.	M-81-00	Fast Flux Test Facility Transition
	M-92-00	Facilities for Sodium and Special Case Waste
10:15 a.m.	Adjourn Milestone Review	

PFP Closure Project
TPA Milestone M-083







April 2009
Tri-Party Agreement Milestone
Status Report

Ecology Project Manager – R. Bond
DOE-RL Project Director – E. Mattlin
PFP Closure Project Manager – M. Crocker
CHPRC Environmental – C. Walker

M-83 Status for Interim Milestones
(as of 03/31/09)

TPA No.	TPA Commitment Date	Milestone Title	Status
M-083-32	9/30/11	COMPLETE CLOSURE OF THE PFP 241-Z TSD UNIT	***Complete***
M-083-42	9/30/11	COMPLETE TRANSITION AND DISMANTLEMENT OF THE 241-Z WASTE TREATMENT FACILITY	***Complete***
M-083-43	9/30/13	COMPLETE TRANSITION OF THE 242-Z WASTE TREATMENT FACILITY AND 236-Z PRF	***On Schedule***
M-083-44	9/30/15	COMPLETE TRANSITION OF THE 234-5-Z (PFP), 243-Z LLW Treatment, 291-Z and Z-1 Stack	***On Schedule***

Accomplishments

- First Hanford Un-irradiated Fuel Package (HUFP) shipping mockup activities were conducted at PFP in which an empty Core Component Container (CCC) was successfully loaded into the HUFP
- HUFP units 2, 3, 4 and 5 are fabricated and are awaiting data package approval prior to shipment
- Completed Plutonium Reclamation Facility (PRF) Column Glovebox clean out and initiated work on west side gallery glovebox. Preparation for reactivation of PRF canyon crane is underway
- 15 hoods/gloveboxes have been removed from 234-5Z, Analytical Laboratory (Room 134, 135, 142, 153)
- The new D&D team to support activities in 234-5Z completed classroom training
- Replaced 128 filters in room 310 which services the glovebox ventilation

Planned Activities

- **Decontamination of gloveboxes to low level**
  - Hands-on field qualifications of new D&D team to support activities in 234-5Z
- **Continue removal of hoods in Analytical Lab**
- **Continue PFP de-inventory activities**
- **Continue Min-Safe maintenance Activities**
  - Remove from service general area filter rooms with aging filters

Schedule / Cost Performance
Fiscal Year to Date Status (through March)

	Fiscal Year to Date				
	BCWS	BCWP	ACWP	SV$	CV$
RL-0011 - Nuclear Material Stabilization & Disposal (PFP)	46.4	46.1	41.5	(.3)	4.5
(Numbers are rounded to the nearest $0.1M)					

FYTD Schedule Performance: (-$0.3M/-0.7%)

- Within threshold

FYTD Cost Performance: (+$4.5M/+9.9%)

- Fiscal year to date favorable cost variance is associated with reduced resource requirements for maintenance and safe compliance of the Plutonium Finishing Plant and D&D activities, under-running instrument calibration contracts.

Issues

Regulatory Issues:

- **None**

Non-Regulatory Issues:

- Justification for Continued Operation addressing HEPA filter strength assumption in Safety Analysis was approved.

Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
Quarterly Presentation
April 16, 2009

Tri-Party Agreement

Deborah Singleton, Ecology Lead
Michael Collins, RL Project Lead
Ronald Koll, ORP Project Lead

Tri-Party Agreement

Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
April 16, 2009

- Tri-Party Agreement milestone M-26-01 requires annual submittal of the Hanford Site Land Disposal Restrictions (LDR) Report

- TPA change request M-26-06-01 approved December 14, 2006 established summary reports as the deliverable with the full LDR report submitted every 5 years.

Tri-Party Agreement

Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
April 16, 2009

- CY 2008 LDR Summary is on schedule to be submitted to Ecology by April 30, 2009.
  - Data collection is complete.
  - Draft summary reviewed by RL and ORP, comments incorporated.

- LDR Assessments and Reports for 231-Z and 241-Z-361 are complete. Plans are to approve them at the next PMM

Tri-Party Agreement

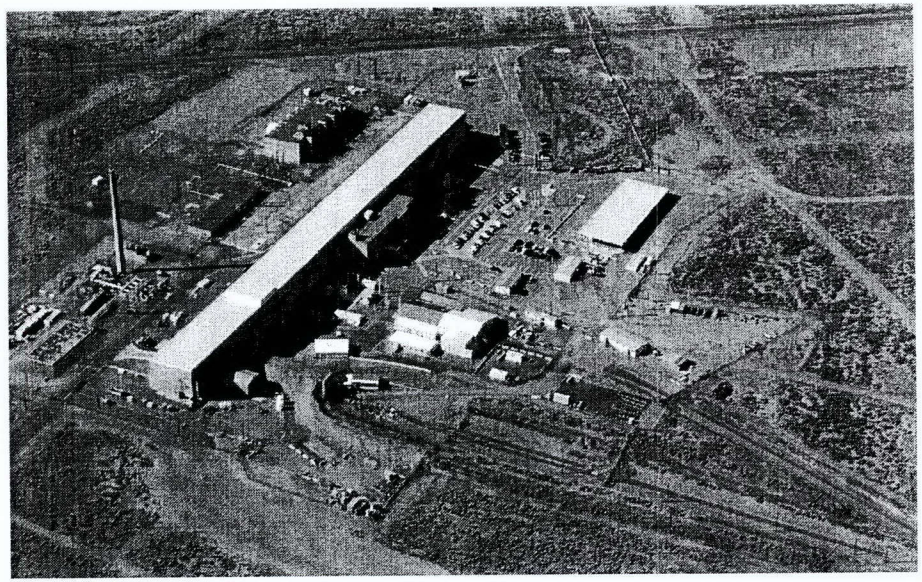
Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
April 16, 2009

Actions Planned for Next Three Months

- Continue the monthly PMMs, as needed
- Continue working on storage assessments of Potential Mixed Waste
- Submit CY 2008 LDR Summary Report by April 30, 2009

Department of Energy – Richland Operations Office

Tri-Party Agreement Quarterly Milestone Review M-91 Series



April 16, 2009

EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

TPA Quarterly Milestone Review
M-91 Series

See status tables for the following: Milestone descriptions, Performance Information, Accomplishments

Significant Accomplishments of the Last Three Months:

- TPA Change Package M-91-08-05 is under tentative agreement and started a 45-day public comment period
- Treated 78 m^3 of M-91-42 MLLW
  - Total volume treated – 7,308 m^3
  - Total volume shipped – 7,784 m^3 (320 m^3 in the quarter)
- Shipped 174 m^3 of M-91-43 MLLW
  - Total volume treated – 330 m^3
  - Total volume shipped – 602 m^3

TPA Quarterly Milestone Review
M-91 Series

See status tables for the following: Milestone descriptions, Performance Information, Accomplishments

Significant Accomplishments of the Last Three Months:

- 197 drums of M-91-42 TRU waste repackaged into a WIPP-compliant form
  - 477 m^3 certified awaiting shipment to WIPP
  - 255 m^3 total in WIPP-compliant form
  - 187 m^3 ready for shipment to Idaho

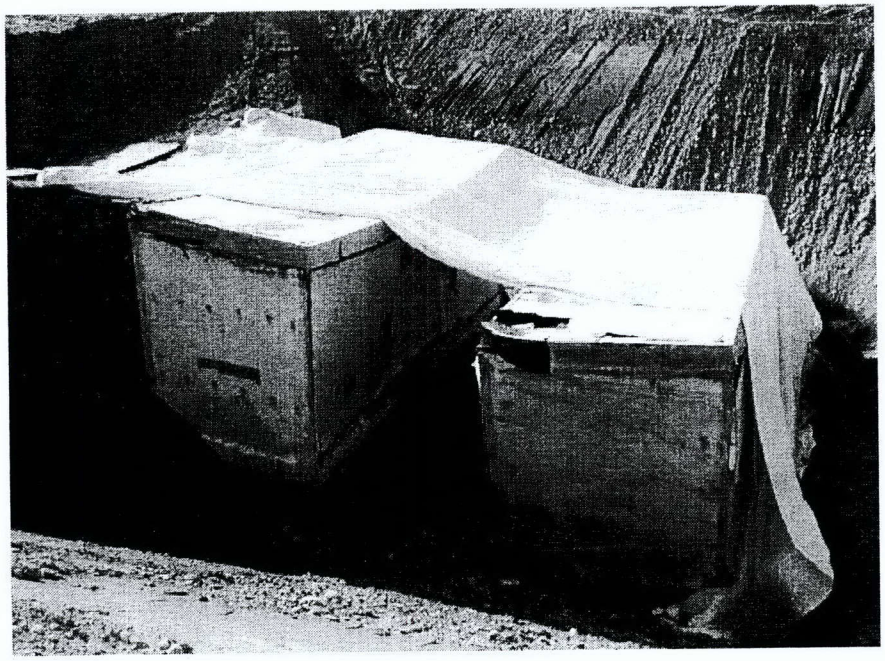
TPA Quarterly Milestone Review
M-91 Series

See status tables for the following: Milestone descriptions, Performance Information, Accomplishments

Significant Accomplishments of the Last Three Months:

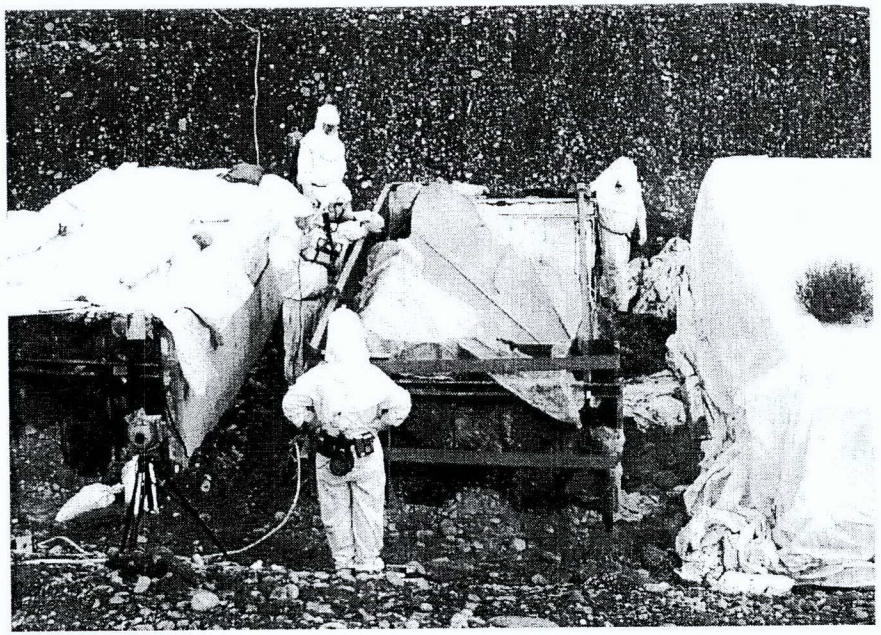
- Retrieved 78 m^3 of M-91-40 RSW
  - Total volume retrieved – 10,062 m^3
  - Completed value engineering workshop to define the approach for the next generation retrieval project
  - Completed designation of RSW per M-91-40, Item 3 by 12/31/08

TPA Quarterly Milestone Review
M-91 Series



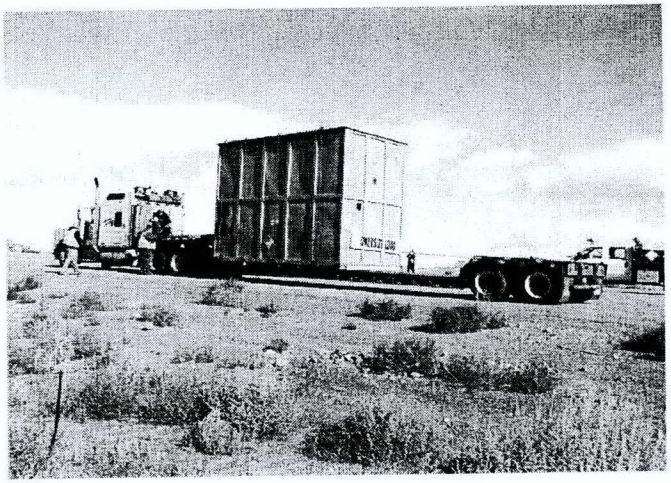
3A T17 Boxes 2 & 1 (West End)

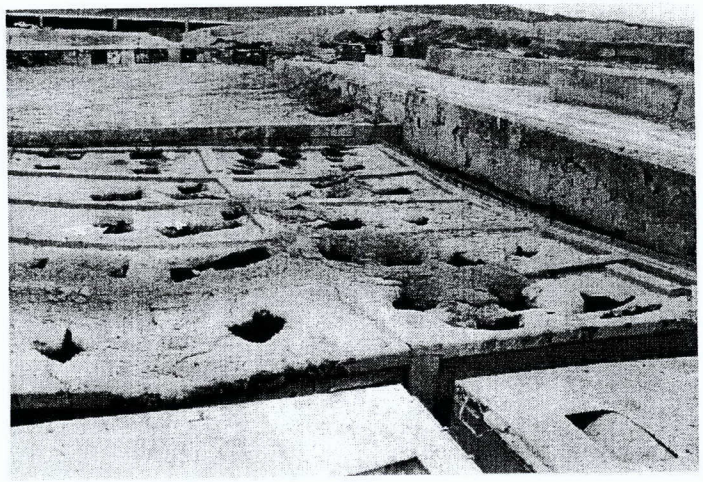
3A T17 Boxes 81-80-79



TPA Quarterly Milestone Review
M-91 Series

M-91-43 MLLW
66 m^3 box treated and disposed at ES-Clive





TPA Quarterly Milestone Review
M-91 Series

FISCAL YEAR 2009 TO DATE (03/09) PERFORMANCE MEASUREMENT

Dollars in Thousands

Title	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance	Cost Variance
Central Waste Complex	3,758.1	3,751.4	3,199.4	(6.7)	552.3
Waste Receiving and Packaging Facility	3,734.3	3,734.3	4,178.5	0.0	(444.1)
T Plant	5,826.4	5,815.0	5,487.9	(11.4)	327.1
MLLW Treatment	3,833.4	6,094.5	5,750.5	2,261.2	344.0
TRU Retrieval	4,561.9	5,003.4	5,988.3	441.5	(984.9)
TRU Repackaging	3,826.7	3,808.1	3,540.7	(18.6)	267.5
Project Management	10,446.7	10,446.7	10,377.8	0.0	68.9

TPA Quarterly Milestone Review
M-91 Series

Variance Analysis

- FYTD Schedule Variance: The positive schedule variance for MLLW treatment is due to the early return of M-91-42 waste from offsite treaters and earlier than planned shipments to offsite treaters.
- FYTD Cost Variance: The negative cost variance for waste retrieval is partly due to more degraded containers being discovered resulting in extra planning and effort.

TPA Quarterly Milestone Review
M-91 Series

Actions Planned for Next Six Months (1 of 2)

- Ship first TSCA-MLLW shipment to Permafix East for treatment
- Treatment of an additional 99 m^3 of MLLW-07 in April at ES-Clive
- Complete first rail shipment of MLLW to Permafix Northwest
- Certify Areva TRU waste to met June compliance agreement and North Load Out Pit (first K-Basin TRU waste to be accepted for disposal at WIPP)
- Implement Central Characterization Project (VE/NDA/HSGS) for Standard Waste Boxes

TPA Quarterly Milestone Review
M-91 Series

Actions Planned for Next Six Months (2 of 2)

- Remediate degraded boxes 80 and 82 in Burial Ground 218-W-3A, Trench 17
- Initiate 218-W-4B , Trench 11 excavation
- Award contracts for mobile decontamination unit and box venting equipment
- Continue planning for implementation of Next Generation Retrieval Project
- Submit annual update of M-91-03 PMP by 06/30/09

SOIL AND GROUNDWATER REMEDIATION PROJECT MILESTONE REVIEW

M-015-00, M-016-00, M-024-00

Tri-Party Agreement

U.S. Department of Energy
U.S. Environmental Protection Agency
State of Washington, Department of Ecology
Second Quarter FY09
April 16, 2009

Milestone Status

TPA Number	Commitment Date	Milestone Title	Status
M-015-00 and M-015-00C – Complete all 200 Area Non-Tank Farm Operable Unit Site Investigations under approved Work Plan schedules through submittal of Feasibility Study Reports and a Recommended Remedy(ies)			
M-015-17A	11/30/10	Submit 200-UP-1 RI/FS and PP.	At risk*
M-015-21A	10/31/10	Submit 200-BP-5 FS and PP.	At risk*
M-015-25C	12/30/09	Submit 200-PO-1 RI Phase II Report.	Draft TPA Change Package prepared to delete milestone
M-015-38B	9/30/10	Submit 200-CW-1 Revised FS and PP.	At risk*
M-015-40E	12/31/10	Submit 200-SC-1 FS and PP.	At risk*
M-015-42D	12/31/11	Submit 200-TW-1 and 200-PW-5 Revised FS and PP.	At risk*
M-015-42E	12/31/11	Submit 200-TW-2 Revised FS and Revised Recommended Remedies.	At risk*
M-015-43D	12/31/10	Submit 200-PW-2 and 200-PW-4 FS and Revised Recommended Remedies.	At risk*
M-015-44B	9/30/09	Submit 200-MW-1 FS and PP.	On Schedule
M-015-46B	12/31/11	Submit 200-LW-1 and 200-LW-2 FS and Recommended Remedy.	At risk*
M-015-49A-TO1		Submit 200-MG-1 Draft Action Memo	On Schedule

*EPA reserves judgment on this due to the improved budget outlook

Milestone Status

TPA Number	Commitment Date	Milestone Title	Status
M-015-00 and M-015-00C – Complete all 200 Area Non-Tank Farm Operable Unit Site Investigations under approved Work Plan schedules through submittal of Feasibility Study Reports and a Recommended Remedy(ies) (cont.)			
M-015-49B-TO1		Submit 200-MG-2 Draft Action Memo	On Schedule
M-015-51	4/30/10	Submit 200-BC-1 Revised FS and PP for BC Cribs and Trenches.	On Schedule
M-015-53	6/30/09	Begin Field Test for desiccation (BC-1) for Tc-99	On Schedule
M-015-54	1/31/10	Submit report on Reactive Testing (Uranium)	On Schedule
M-016-00 – Complete all Interim Response Actions for the 100 Areas			
M-016-14A	5/31/07	Complete Construction of Permeable Barrier for 100-NR-2.	**COMPLETE**
M-016-14B	12/31/09	Submit Draft CERCLA Proposed Plan for 100-NR-1/100-NR-2.	On Schedule
M-024-00 – Well drilling commitments			
M-024-59	12/31/08	DOE Shall Install a Cumulative of 30 Wells by 12/31/08.	**COMPLETE**
M-024-60	12/31/09	DOE Shall Install a Cumulative of 60 Wells by 12/31/09.	On Schedule
M-024-61	12/31/10	DOE Shall Install a Cumulative of 90 Wells by 12/31/10.	On Schedule

Significant Accomplishments
RI/FS Work Plans

200-PO-1 OU

- A TPA document change notice was approved by Ecology on January 15, 2009 to prepare a combined RI/FS Report in lieu of a RI Phase II Report and remove the RI Phase II tasks from the Work Plan schedule. The streamlined approach will use the 200-PO-1 OU RFI/CMS Rev.1 (1997) and the RI/FS Work Plan Characterization Phase I results as the basis for the combined RI/FS Report.
- Page changes to the RI/FS Work Plan were submitted as required within 30 days of the approved change notice.
- A draft combined RI/FS Report annotated outline has been completed.

200-LW-1/2

- Issued the borehole summary report for the C6911 direct push installed near the 216-B-6 Reverse Well.

Significant Accomplishments

200-UP-1

- A TPA document change notice was approved by Ecology on January 15, 2009 to accelerate preparation of a combined RI/FS Report. Associated page changes to the RI/FS Work Plan were submitted as required within 30 days of the approved change notice.
- Completed an Explanation of Significant Differences (ESD) for the Interim Action Record of Decision for the operable unit. The ESD reduces the cleanup value for treatment of extracted groundwater from 48 ppb to 30 ppb for total uranium, replaces the requirement to pump existing and any new extraction wells in accordance with an approved Remedial Design/Remedial Action work plan, adds the requirement to sample and purge (minimum of 1000 gallons) well 299-W23-19 (S-SX) on a quarterly basis, and updates the Institutional Control requirements.

200-ZP-1

- Submitted the 200-West Area 200-ZP-1 Pump and Treat Remedial Design/Remedial Action Work Plan, Draft A, to EPA for review and comment.
- Groundwater modeling was completed for initial phase of the 200-West Area Treatment System design.
- Documentation was completed to support aquifer testing in final extraction wells.
- The site for the 200-West Area Treatment Facility was selected and approved.
- The Functional Design Criteria document for the 200-West Area Treatment Facility was completed.

Significant Accomplishments
M-15-00 and M-15-00C

200-ZP-1 (cont.)

- Depth-discrete groundwater samples were collected during drilling of new extraction wells.
- Issued a new SAP supporting the installation of the T-6, T-7, and T-8 wells in the vicinity of the T Tank Farm.

200-PW-1,3,6

- Two new SVE units were received and became operational on April 1, 2009, and are currently in Operational Testing using an Operational Testing Procedure (OTP).

200-MG-1/2

- Ecology completed their review of the 200-MG-1 EE/CA and transmitted comments to DOE.
- EPA expects the Action Memos to be completed within 6 months.

Significant Accomplishments
Other Items of Interest

100-KR-4

- Completed acceptance testing of the new KX pump-and-treat facility and initiated operational testing.
- Drilled 2 new injection wells at KW Area, completed construction of the 100-gpm treatment capacity expansion of the KW reactor pump-and-treat facility, and began acceptance testing precursor actions (e.g., loading resin into new treatment train).
- In accordance with TPA-CN-250, initiated construction of Phase 1 realignment of the KX pump-and-treat system to connect three monitoring wells for extraction.
- Initiated design for the Phase 2 realignment of the KX and KR4 pump-and-treat systems to increase system flows and efficiencies and to address concerns about the spread of tritium in the 100-KR-4 operable unit.
- Submitted the decisional draft RI/FS Work Plan addendum for the K Decision Unit for RL review.

100-HR-3

- Completed modeling and wellfield design for enhanced P&T system for 100-HR-3 OU to met 2012 river protection target milestone.
- Initiated design of additional 600 gpm P&T system for D Area.

Significant Accomplishments
Other Items of Interest

U-Zone Remediation

- **221-U Disposition**
  - 221-U Remedial Design/Remedial Action Work Plan (RD/RAWP) was approved.
  - Facility being relamped and crane reactivated.
  - TPA Change Request was prepared, proposing an update the Sampling and Analysis Plan (SAP)

- **U-Ancillary Facilities**
  - RAWP (Rev.1) was finalized.
  - Decontamination and decommissioning (D&D) operations, including asbestos removal, utility isolation, characterization sampling, and demolition prep work was begun.

200 North Remediation

- **212-N, - P, and – R Facilities/Structures**
  - Action memorandum (AM), SAP, and RAWP were formally transmitted to the regulators for review and approval.

- **200-CW-3 Waste Sites**
  - Field mobilization and setup for work was begun.
  - Field work (sampling) was begun.
  - TPA Change Request updating the RD/RAWP was submitted to the regulators.

RL-30 Groundwater/Vadose Zone
FYTD Cost/Schedule Status
($ in thousands)

RL-30 - Soil & Water Rem-Grndwtr/Vadose	BCWS	BCWP	ACWP	SV	CV	BAC
030.01 - Integration and Assessments	5,770.9	5,660.7	5,598.8	(110.2)	61.9	12,149.4
030.03 - Drilling	3,042.2	2,717.8	2,541.0	(324.3)	176.8	10,395.4
030.04 - Project Management	4,633.0	4,633.0	5,310.9	0.0	(677.9)	8,539.0
030.05 - Integrated Field Work	3,269.3	3,088.0	3,047.8	(181.2)	40.2	7,044.6
030.06 - GW Monitoring and Perf Asmts	6,349.7	5,994.6	5,211.4	(355.1)	783.3	15,103.5
030.10 - 100-BC-5 Operable Unit	242.1	152.4	148.7	(89.6)	3.7	380.5
030.11 - 100-KR-4 Operable Unit	5,489.5	5,369.4	4,991.5	(120.2)	377.8	11,393.3
030.12 - 100-NR-2 Operable Unit	822.2	802.0	740.0	(20.2)	62.0	1,966.7
030.13 - 100-HR-3 Operable Unit	3,323.7	2,846.5	2,313.2	(477.2)	533.3	6,141.4
030.14 - 100-FR-3 Operable Unit	227.0	135.1	92.3	(91.9)	42.8	367.4
030.20 - 200-BP-5 Operable Unit	233.2	423.3	401.8	190.2	21.5	498.5
030.21 - 200-PO-1 Operable Unit	514.0	512.4	410.4	(1.6)	102.0	1,158.6
030.22 - 200-UP-1 Operable Unit	127.1	226.5	136.0	99.3	90.4	668.2
030.23 - 200-ZP-1 Operable Unit	3,548.2	3,574.7	3,533.1	26.6	41.7	11,383.3
030.24 - 200-PW-1 Operable Unit	623.0	791.2	537.2	168.2	254.0	1,467.6
030.30 - 300-FF-5 Operable Unit	849.2	644.5	890.6	(204.7)	(246.1)	1,622.3
030.31 - PBS RL-30 Reg Dec/Closure	2,789.8	2,569.2	2,381.0	(220.6)	188.2	5,103.1
030.32 - Deep Vadose Zone Treatability	1,120.0	632.3	540.1	(487.7)	92.2	2,876.2
030.90 - Usage Based Services Dist	1,222.0	1,222.0	3,860.4	0.0	(2,638.3)	2,571.7
030.99 - PBS RL-30 UBS, G-n-A, DD	7,658.9	7,658.9	7,457.8	0.0	201.1	16,373.0
GW Total	**51,855.2**	**49,654.8**	**50,144.2**	**(2,200.4)**	**(489.3)**	**117,203.6**

RL-30 Schedule
Performance Variances and Explanations

The current FYTD variances below are based on the FY 2009 Interim Performance Management Baseline. The development of the revised FY 2009 Performance Management Baseline is in its final stages and will be used in future reporting.

Subproject	FYTD SV $	Causal Factors
030.03 – Drilling	**($324.3)**	Delays in well drilling field work are anticipated to be recovered by yearend.
030.06 – GW Monitoring & Performance Assessments	**($355.1)**	Delays are a result of new strategy that is being developed for Modutanks. Options are being evaluated and will be submitted for public comments to determine applicable path forward.
030.13 - 100-HR-3 Operable Unit	**($477.2)**	Delays in Remedial Design/Remedial Action work plan which was dependent on the completion of modeling. A strategy to recover this variance has been developed and will be implemented.
030.31 - PBS RL-30 Regulatory Decisions and Closure Integration	**($220.6)**	Delays in: B/C Cribs awarding contracts to address DOE comments and completing data verification/validation; 200 MW-1 Feasibility Study/Data Quality Objective summary report; and late start of field work in Burial Grounds Sampling and Analysis due to resource prioritization. Resources are now in place and schedule recovery is expected
030.32 - Deep Vadose Zone Treatability Tests	**($487.7)**	Contracts for permeameter fabrication, PNL Uranium Design Analysis, and PNL design analysis and lab tests are behind due to resource prioritization. Current schedule delays are not expected to impact schedule completion dates.

RL-30 Cost
Performance Variances and Explanations

Subproject	FYTD CV $	Causal Factors
030.06 - GW Monitoring and Performance Assessments	**$783.3**	WSCF laboratory services cost has been accumulating in the 30.90 WBS/CCL account rather than here as planned. A cost correction is being processed that will move the cost to this account resulting in a cost variance that will be within thresholds.
030.90 – Usage Based Services Distribution	**($2,638.3)**	User Based Services for WSCF sample analysis and Motor Carrier Services were budgeted at the direct activity level, but have been charged at the 30.90 WBS/CCL level. This dichotomy is being addressed via cost correction and contract release modification.

RL-40 Deactivation & Decommissioning Project
FYTD Cost/Schedule Status
($ in millions)

Fiscal year-to-Date	FYTD BCWS	FYTD BCWP	FYTD ACWP	FYTD Schedule Variance $	FYTD Cost Variance $	BAC
RL-0040 BOS D&D	19.6	20.8	17.1	1.2	3.7	50.8

Numbers are rounded to the nearest $0.1M

RL-40 Deactivation and Decommissioning Cost and Schedule Performance Variances and Explanations

Subproject	FYTD Variance	Causal Factor
Significant Schedule Variance		
040.01.29.01 - Procure D&D Equipment	1.6	Early delivery of equipment
040.02.17.04 - 200 West Area 7 Industrial Buildings	(0.1)	Variance is within reporting thresholds
040.02.18.02 - Canyon - U Plant Zone	(0.1)	Variance is within reporting thresholds
040.02.18.04 - U Ancillary Demolition	(0.2)	Variance is within reporting thresholds
Significant Cost Variance		
40.01.21.01 - CP Program management	(0.2)	Expansion in the scope beyond original plans
40.01.26.01 - Misc Facilities Hazard Reduction	0.7	Delays in hiring for asbestos abatement support and 212-N, P, & R, along with efficiencies gained by integration with west area seven industrial buildings
040.01.29.01 - Procure D&D Equipment	0.4	Successfully negotiated lower prices
040.02.17.04 - 200 West Area 7 Industrial Buildings	1.0	Efficiencies and less then planned costs for asbestos abatement, crane and rigging, and equipment
040.02.18.01 - Remediation Def - U Plant Zone	0.4	Contracted facilitator not needed during AIP negotiations
040.02.18.04 - U Ancillary Demolition	0.3	Delayed delivery of procurements for retrieval system
040.03.01.01 - Min-Safe for Facilities & Waste Sites	0.5	Efficiencies in staff utilization
040.90.02.01 - Assessments, UBS Services to PRC	0.4	Level loaded activity; higher usage as year continues

Planned Activities
Next 6 Months

U-Zone Remediation

- **U-Ancillary Facilities**
  - Demolition work expected to begin in summer 2009

200 North Remediation

- **212-N, - P, and – R Facilities/Structures**
  - Obtain regulatory approval of regulatory documents (i.e., AM, SAP, and RAWP) supporting demolition work.
  - Begin D&D work.
- **200-CW-3 Waste Sites**
  - Field mobilization and setup for work was begun.
  - Begin sampling and remediation of waste sites in accordance with SAP and RD/RAWP.

Other Facilities D&D

- Conclude or extend Central Plateau Facility TPA milestone negotiations.

Planned Activities
Next 6 Months

100-HR-3

- Deliver Draft A RI/FS Work Plan for regulator review.
- Complete Remedial Process Optimization Technical Memoranda for D/H Areas.
- Initiate drilling of 49 new RPO wells in D/H Areas.
- Complete resin tests at DR-5 and determine which process/resin is best for DX and other P&T systems.
- Achieve 60% design of new 600 gpm 100-D Area Expansion P&T facility.

100-KR-4

- Complete acceptance testing and operational testing of the 100-gpm expansion of the KW reactor pump-and-treat facility.
- Complete operational testing of the KX pump-and-treat system.
- Complete acceptance testing and operational testing of the Phase 1 realignment of the KX and KR4 pump-and-treat systems.
- Drill four to five new wells to support Phase 2 realignment of the KX and KR4 pump-and-treat systems, and initiate Phase 2 realignment construction.
- Screen technologies and develop alternatives for further remedial process optimization.
- Issue Draft A of the K Decision Unit RI/FS Work Plan for regulator review.
- Prepare supplemental Interim Action Monitoring Plan specific to the 100-KR-4 operable unit interim action.

Planned Activities
Next 6 Months

100-NR-2

- Start gallery test (upper vadose zone treatment test).
- Complete Total Petroleum Hydrocarbons well/investigation.
- Pursue modification of Apatite Barrier performance monitoring (change from bi-monthly to quarterly).

300-FF-5

- Complete Decisional Draft of the 300 Area RI/FS Work Plan.
- Initiate 300 Area Treatability Test Plan for Uranium.

100-FR-3

- Transmit RI/FS Work Plan to DOE.

200-BP-5

- Issue 200-BP-5 RI/FS Work Plan (DOE/RL-2007-18 Rev. 1).
- Complete and load into HEIS PNNL analytical results for five new wells, 299-E33-205, 299-E33-340 through 299-E33-342, and 699-52-55B.
- Dispose of drilling waste from BX Tank Farm well 299-E33-205.
- Drilling will start in August 2009 on the first of three wells (K well).

Planned Activities
Next 6 Months

200-PO-1

- Complete sampling of 28 supplemental characterization wells.
- Continue preparation of combined RI/FS Report and Proposed Plan.

200-UP-1

- Revise the existing 200-UP-1 RD/RA work plan, including schedule and a milestone change package, for implementing the interim ROD for 200-UP-1 Groundwater OU as modified by this ESD, and submit to Ecology for approval within 180 days of the issuance of the ESD (August 30, 2009)
- Incorporate 200-UP-1 Groundwater OU institutional control requirements into the Site-Wide Institutional Control Plan within 180 days (August 30, 2009) of issuance of the ESD

200-BC-1

- Issue a report on the correlation between electrical resistivity characterization data and soil contaminant concentrations
- Preparation of a Draft A treatability test report.
- Initiate preparation of a Draft B FS incorporating the results of the treatability test report.

Planned Activities
Next 6 Months

200-UW-1

- Complete the U-12, supplemental Deep Vadose Zone characterization DQO workshops.
- DOE will respond to Ecology, EPA, and USGS comments on the RAGs document and its underlying STOMP modeling.

200-ZP-1

- Issue latest annual summary report for the ZP-1 pump-and-treat system.
- Finalize RD/RA Work Plan for the final ZP-1 treatment system and submit a milestone change package with the RD/RA work plan (as required by the TPA).
- Complete 60% design of the final 200-West Area Treatment Facility.

Planned Activities

Next 6 Months

200-PW-1,-PW-3, -PW-6

- Prepare Rev. 0 FS and PP, incorporating regulator comments received on the Draft B FS.

200-SC-1

- Perform data validation on the sample results for the grab samples analyzed by PNNL.
- Complete the Data Quality Assessment for the supplemental characterization data.

200-MW-1

- Complete RI Report for the supplemental investigations at the 216-A-2, 216-A-4, 216-A-21 Cribs and the 200-E-102 Trench.
- Initiate internal review of the Feasibility Study and Proposed Plan and then develop draft A of the DOE review.
- Finalize and publish the RI Report for 200-MW-1.

Issues

- Work on Multi-Increment Sampling will proceed. This item is funded and the issue will be closed.
- Lack of purgewater storage continues to be a potential impact to drilling operations.

U.S. Department of Energy (DOE)
Richland Operations Office (RL)
Assistant Manager for Central Plateau
PBS - 42: Fast Flux Test Facility (FFTF) Project
Tri-Party Agreement
M-81 and M-92 Deactivation Milestones

April 16, 2009
Central Plateau/FFTF Project
Tri-Party Agreement Milestones Review Meeting

DOE-RL FFTF Project – Al Farabee
Washington State Department of Ecology – Jane Hedges
U.S. Environmental Protection Agency – Rod Lobos

FFTF Project Tri-Party Agreement
Remaining M-81 and M-92 Deactivation Milestones
(Listed Chronologically by Due Date)

Milestone	Milestone Title	Due Date
M-92-09	Establish Milestones and/or Target Dates if Needed for Acquisition of New Facilities, Modifications of Existing Facilities, and/or Modification of Planned Facilities Necessary for Storage, Treatment/Processing, and Disposal of Hanford Site Sodium (	September 30, 2018
M-81-15	Submit FFTF Surveillance and Maintenance Plan **(Status: On Schedule)**	June 30, 2010
M-81-00A	Complete FFTF Facility Transition and Initiate the Surveillance and Maintenance Phase **(Status: On Schedule)**	February 28, 2011
M-81-00A-T05	Complete Auxiliary Plant Systems Shutdown **(Status: On Schedule)**	February 28, 2011

DOE-RL FFTF Program Manager Assessment of Contractor Performance

- Focus continues on maintaining the plant in a safe and compliant manner, and completing deactivation activities to support placing FFTF in long term Surveillance and Maintenance (S&M) by August 31, 2009.
- Systems deactivation continues on plant systems not required to support S&M.
- Project costs and schedule continue to be maintained in control.

Significant Accomplishments (Last 3 Months)

- **Auxiliary Systems Deactivation**
  - Completed draining of glycol from the In-Containment Chilled Water System.
  - Completed removal and off site disposition of last remaining polychlorinated biphenyl (PCB) transformer (X-14).
  - Completed installation of S&M electrical power to Building 481 (Water Pump House)
  - Completed acceptance testing and return to service of the upgrades of Fire Alarm Control Panels C-1352, C-1354, and C-1355 for increased maintainability during S&M.
  - Completed deactivation of electrical, fire protection, and water systems to Building 4713D (Interim Maintenance and Storage Facility).
  - Completed deactivation of the remaining water line to the 481A Pumphouse.
  - Completed deactivation of the last of three remaining water lines to the plant.

Significant Accomplishments (Last 3 Months, Continued)

- **Waste Shipments**
  - Completed shipment of the last two remaining Disposable Solid Waste Casks to the Environmental Restoration and Disposal Facility (ERDF).
  - Completed shipment of a roll off "can" and the Interim Examination and Maintenance Cell adaptor plates (~46,000 pounds) to ERDF.
  - Completed shipment of the three remaining long boxes and two containers of miscellaneous waste to ERDF.
  - Completed shipment of the DSWC floor valve to ERDF.
  - Completed shipment of three shield blocks (i.e., closure plugs, 9,000 pounds each and containing asbestos) to the Arlington, Oregon, waste management landfill.

Significant Planned Actions (Next 6 Months)

- **FFTF Building Closures**
  - Continue clearing 53 buildings/structures of personnel, hazardous materials, and combustibles (~ 85 per cent of tasks have been completed).
- **Waste Shipments**
  - Ship the Short Segmented Maintenance Cask to ERDF.
  - Ship FFTF depleted uranium to Burial Ground 218-W-5.
- **400 Area State Waste Discharge Permit ST-4501**
  - Permit renewal application formally submitted to Ecology for processing.
- **S&M**
  - Complete approved S&M plan.
  - Begin facility in long term, low cost S&M mode.

BUDGET/COST STATUS

Fiscal Year (FY) 2009 to date Status (~$000)

(As of February 28, 2009)

Description	Baseline Cost of Work Scheduled (BCWS)	Baseline Cost of Work Performed (BCWP)	Actual Cost of Work Performed (ACWP)	Schedule Variance (SV)	Cost Variance (CV)
FFTF	$ 5,766	$ 6,083	$ 6,291	$ 317	$ -207

<u>Variance Analysis</u>:

SV is positive, primarily due to completion of prior year workscope at Idaho for the processing of the FFTF sodium-bonded fuel that was shipped in FY 2008.

CV is negative, primarily due to higher than anticipated costs for waste disposal to ERDF and for craft support, especially iron workers and crews, to excavate water isolations.

Project Issues/Risks

- None identified at this time.

Summary

- FFTF deactivation continues to support the August 2009 project milestone to place the facility in a long term low cost S&M mode.
- Project costs and schedule are being maintained.