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

Approval: Jane Hedges by [illegible] Date: 8/26/09

J. Hedges
~~Ecology~~ IAMIT Representative

Approval: [illegible] Date: 8/27/09

R. A. Holten
DOE IAMIT Representative, Chairperson

Approval: [illegible] Date: 8/20/09

C. E. Cameron
EPA IAMIT Representative

Minutes Prepared by: T. W. Noland Date: 8/24/09

T.W. Noland
Fluor Federal Services.

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

*Attendee

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

PFP Closure Project - TPA Milestone M-083-00

RL reported that to date, 29 gloveboxes and hoods have been removed from the PFP facility. A total of ten Hanford Un-irradiated Fuel Packages (HUFP) have been received on site, and nine have been loaded in preparation for shipment to the Savannah River site. There are three remaining HUFPs awaiting data package approval, and one was released yesterday (7/15/09). RL noted that the decontamination of PFP gloveboxes to low level waste eliminates the need to send it to WIPP, thereby saving space in the repository. It also accelerates removal of the waste offsite.

The Plutonium Reclamation Facility (PRF) has four galleries with 26 sections in each gallery. Nineteen of 26 sections in one of the galleries have been cleaned out.

There is a slight negative schedule performance, mainly due to concerns associated with the chemical process to decontaminate the hoods and gloveboxes. The concerns have since been resolved.

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

RL provided a status on the LDR annual summary report, and the planned actions for the next three months.

TPA Quarterly Milestone Review M-91 Series

Ecology inquired about the status of shipping TRU waste that is being repackaged into a WIPP-compliant form. RL stated that the goal is to achieve approximately 5,000 packages of WIPP-compliant TRU waste, and there are currently about 2,000 packages. The shipping schedule is unknown at this time, but a tentative date is 2012.
Ecology inquired about the new mobile hot cell that will be used to retrieve caisson waste, and whether it is being considered for use at 618-10 and 11 burial grounds. RL responded that the mobile hot cell is geared towards the caissons, but it is being considered for other applications, including 618-10 and 11.

Ecology inquired about upcoming negotiations on a new M-91 milestone series. RL indicated the intent is to start negotiations in late August, early September 2009.

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

Significant Accomplishments

Ecology inquired about RL's proposed integrated project schedule for 200-PO-1 and 200-BP-5, and the resolution of EPA and Ecology's comments. CHPRC responded that comments should be resolved once the planning of the treatability test plan (relative to the feasibility study) is completed and the process for combining the documents is determined.

On page seven of the handout, under 100-HR-3, a correction was noted that the draft RI/FS work plan addendum for the DH Decision Unit was submitted to Ecology for review, not EPA review.

RL reported on a slight event that occurred during removal action for the 200 North Remediation. Two or three small pieces of concrete were propelled 125 feet horizontally from an uploader. All personnel were wearing appropriate safety equipment, and no one was hit. A critique of the event was held, and the exclusion zone was moved to 125 feet.

RL-30 and RL-40 Cost and Schedule Performance

RL reported that there were no significant cost or schedule variances to note. Removal action field work is scheduled to commence under ARRA funding for the remaining 140 acres in the B/C A control area (August 2009) and the first 11 sites of the 184 sites in MG-1 (7/27/09).

Planned Activities - Next Six Months

Other facilities D&D - EPA stated that the Central Plateau Facility TPA milestone negotiations are to be concluded by December 2009.

100-DR-4

Ecology referred to the last bullet on page 17 of the handout, noting that the scope of the proposed plan needs clarification, and the ROD that will be amended needs to be identified.

200-UW-1

EPA noted that the U-12 DQO workshops have been completed. The Tri-Parties agreed that finalizing the sampling analysis plan (SAP) would be the next step for planned activities in the next six months. Ecology stated that during discussions for 200-PW-1, 3 and 6, RL referenced a 200-UW-1 document. Due to the informal comment/response process, none of the 200-UW-1 documents have been entered into the Administrative Record. RL took an action to determine the status of the documents.

Issues

The new Modutank has been constructed, which will resolve the issue of lack of purgewater storage. Once the action memorandum is signed, the Modutank will become operational.

EPA requested that the handouts for the TPA quarterly meetings be distributed at least a week in advance of the meetings. RL took an action to resolve the issue.

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

RL reported that in the last three months, the new fire detection system at FFTF has been activated, and there will be no fire protection system. The lights have been turned off, and all personnel associated with FFTF have been removed from the site. The remaining 4,500 gallons of liquid radioactive waste in MASF is scheduled to be shipped out by the end of July 2009. FFTF has been placed in a long-term surveillance and maintenance mode, and RL and Ecology have agreed that FFTF will no longer be required to report during the TPA quarterly milestone review meetings.

Tri-Party Agreement

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

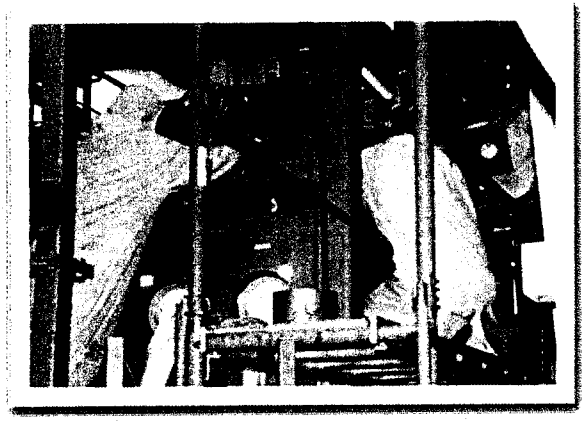
Agenda
Central Plateau/FFTF Milestone Review Meeting
Chairman: Rich Holten

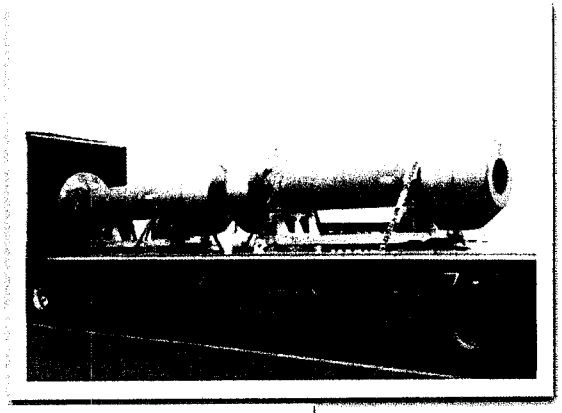
9:00 a.m.	M-83-00	PFP Transition
9:10 a.m.	M-26-01	Land Disposal Restrictions Report
9:20 a.m.	M-91-00	Acquisition of Facilities to TSD TRU/TRUM and LLMW
9:30 a.m.	M-15-00	RI/FS Process Completion
	M-16-00	Complete Remedial Actions
	M-24-00	Groundwater Well Installation
10:00 a.m.	M-81-00	Fast Flux Test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

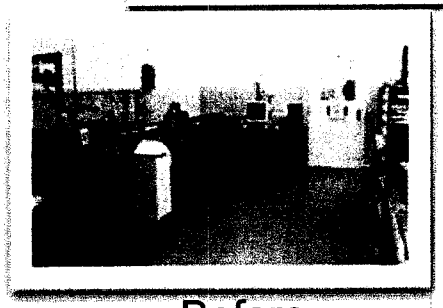
Tri-Party Agreement Major Milestone Management Review
July 16, 2009

Name	Organization	Mail Stop	Phone
Terry Noland	FGG		376-6574
Kathy Knox	Knox Court Reporting		946-5535
ROB PIPPO	CHPRC		373-3235
JOHN MONSE	DOE-RL		376-0057
Ron Skinnarland	Ecology		372-7924
John Price	Ecology		372-7921
Michael Collins	DOE		376-6536
Jim Rasmussen	YAHSGS		376-0304
SHELLEY CIMON	ODOE		963-0853
Rich Holten	DOE-RL		946-0574
Dale Black	CHPRC		376-0740
Doug Chapin	DOE-RL		373-9396
Bruce Ford	CHPRC		373-3801
CURT WALKER	CHPRC		373-2218
[illegible]	[illegible]		[illegible]
DIB GOSWAMI	ECY		372-7902
RON MORRISON	YAH		376-2994
Rick Bond	ECY		372-7885
Jeff Ayres	ECY		372-7881
Cheryl Whalen	ECY		372-7972
Rod Lobos	EPA		376-3249

PFP Closure Project
TPA Milestone M-083







Before

After

July 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 06/31/09)

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

- Six Hanford Un-irradiated Fuel Package (HUFP) have been loaded
- A total of ten HUFPs have been received and the remaining three are fabricated and awaiting data package approval
- Continued Plutonium Reclamation Facility (PRF) west side gallery glovebox clean out with 19 of 26 sections completed
- Reactivation of PRF canyon crane is under way
- Continued Hoods/gloveboxes decontamination and removal from 234-5Z, Analytical Laboratory
- PFP filter rooms with aging filters have been removed from service

Planned Activities

- Decontamination of PFP gloveboxes to low level
- Continued Plutonium Reclamation Facility (PRF) gallery glovebox clean out
- Activate PRF canyon crane
- Design and procure PRF pencil tank lay down, tank cutting, and transport equipment
- Continue removal of hoods in Analytical Lab
- Continue PFP de-inventory activities
- Continue Min-Safe maintenance Activities

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

	Fiscal Year to Date				
	BCWS	BCWP	ACWP	SV$	CV$
RL-0011 - Nuclear Material Stabilization & Disposal (PFP)	63.7	62.4	56.1	(1.2)	6.3

(Numbers are rounded to the nearest $0.1M)

FYTD Schedule Performance: (-$1.2M/-1.9%)

- Unfavorable schedule variance is associated with RadPRO chemical decontamination suspension to resolve potential issues associated with the waste products generated by the RadPRO process. In addition, a change in the CHPRC approach to the prerequisites for working in potential Beryllium areas, coupled with D&D inexperience, prevented the 230C crew from accessing their work area in April.

FYTD Cost Performance: (+$6.3M/+10.2%)

- 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, and under-running instrument calibration contracts. In addition, delays in the acquisition of planned personnel and heavy equipment contributed to this variance.

Issues

Regulatory Issues:

- None

Non-Regulatory Issues:

- None

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

Tri-Party Agreement

Michelle Mandis, 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)
July 16, 2009

- Tri-Party Agreement milestone M-26-01 requires annual submittal of the Hanford Site Land Disposal Restrictions (LDR) Report by April 30

- 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)
July 16, 2009

- The CY 2008 LDR Draft Summary Report was delivered to Ecology on April 29, 2009

- Comments were received from Ecology June 15, 2009

- Project Managers agreed to extend the comment period 30 days to provide additional time for comment resolution (see Meeting Minutes June 25, 2009 PMM Meeting)

- Completed and approved LDR assessments and reports for:
  - 231-Z
  - 241-Z-361
  - 200 Area North/Railcar Staging Area
  - Tank Farm 90-day storage pads
  - Tank Farm waste shipping

Tri-Party Agreement

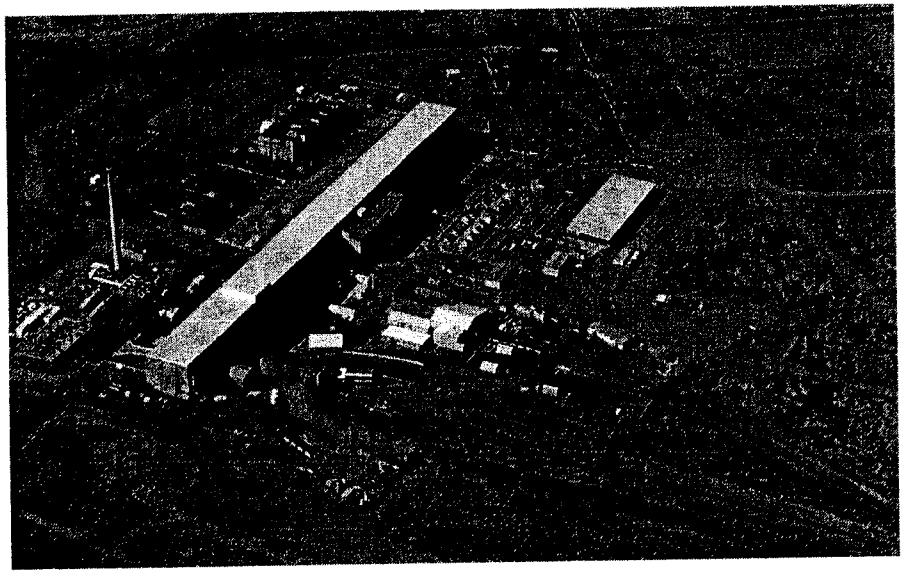
Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
July 16, 2009

Actions Planned for Next Three Months

- Complete comment resolution of CY 2008 LDR Summary Report
- Continue the monthly PMMs
- Continue working on LDR assessments and reports for:
  - 241-CX (assessment complete)
  - IMUSTs not associated with buildings
  - 224-B
  - 242-B/BL
  - 270-W

Department of Energy – Richland Operations Office

Tri-Party Agreement Quarterly Milestone Review M-91 Series



July 16, 2009

Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

TPA Quarterly Milestone Review
M-91 Series

Significant Accomplishments of the Last Three Months

- Submitted annual revision to the M-91-03 Project Management Plan

- Treated 110 m^3 of M-91-42 MLLW
  - Total volume treated – 7,418 m^3
  - Total volume shipped – 7,885 m^3 (101 m^3 in the quarter)
  - Shipped first TSCA-MLLW to Permafix East

- Treated 175 m^3 of M-91-43 MLLW
  - Total volume treated – 505 m^3
  - Total volume shipped – 649 m^3 (47 m^3 in the quarter)
  - Made first rail shipment to Permafix Northwest

TPA Quarterly Milestone Review
M-91 Series

Significant Accomplishments of the Last Three Months

- 223 drums (46 m^3) of M-91-42 TRU waste repackaged into a WIPP-compliant form
  - Certified waiting shipment to WIPP – 484 m^3
  - In WIPP-compliant form – 293 m^3
  - Ready for shipment to Idaho – 187 m^3
  - Certified AREVA drums to meet June 2009 compliance agreement

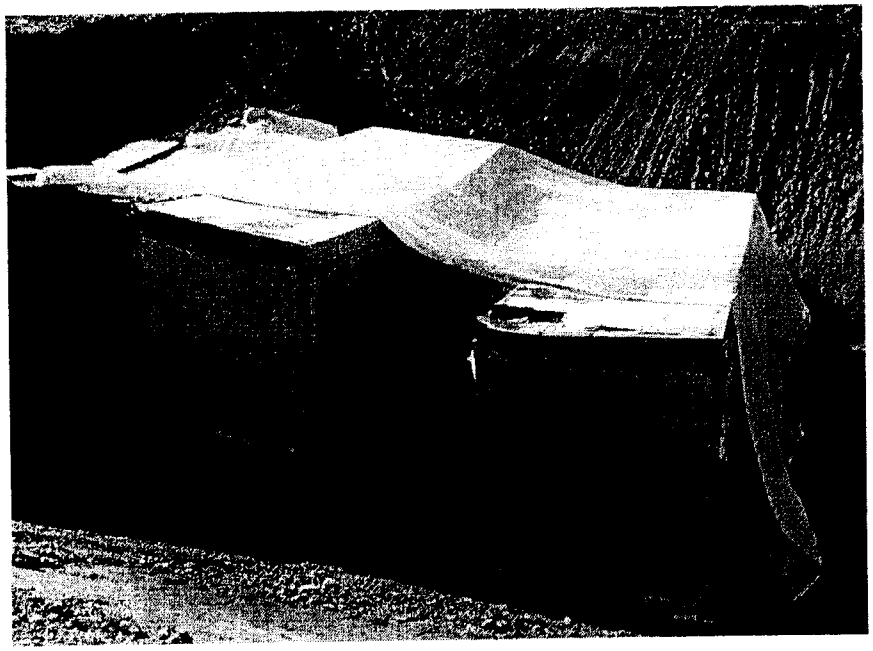
TPA Quarterly Milestone Review
M-91 Series

Significant Accomplishments of the Last Three Months

- Retrieved 2 m^3 of M-91-40 RSW
  - Total volume retrieved – 10,064 m^3
  - Volume removed from trenches but not shipped to a TSD – 176 m^3
  - Continue working towards Next Generation Retrieval to reduce handling and retrieve contents of degraded waste packages
  - Initiated excavation of 218-W-4B, Trench 11

- TPA Change Package M-91-08-05 public comment period ended 05/15/09. Comments are being addressed.

TPA Quarterly Milestone Review
M-91 Series

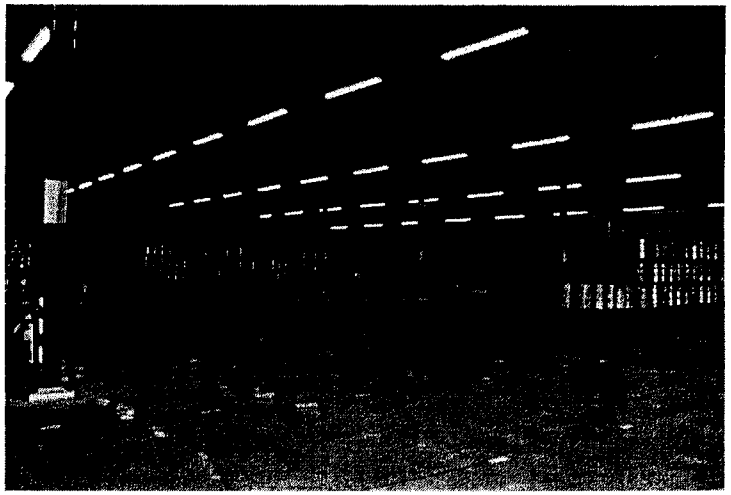


218-W-3A, Trench 17
Boxes 1 & 2

213-W-3A, Trench 17
Boxes 81-80-79

TPA Quarterly Milestone Review
M-91 Series

Shipment of Legacy Waste to Permafix Northwest



TPA Quarterly Milestone Review
M-91 Series

FISCAL YEAR 2009 TO DATE (06/09) 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	5,527.5	5,509.3	4,872.6	(18.2)	636.7
Waste Receiving and Packaging Facility	5,224.0	5,224.0	6,266.5	0.0	(1042.4)
T Plant	8,965.7	8,948.1	8,546.4	(17.5)	401.7
MLLW Treatment	8,612.2	11,601.6	10,052.1	2,989.4	1548.8
TRU Retrieval	10,364.8	8,020.1	10,502.1	(2,344.7)	(2,482.1)
TRU Repackaging	5,337.9	5,770.2	4,851.2	432.2	918.9
TRU Disposition	403.3	439.7	207.1	36.4	232.5
Project Management	14,851.8	14,851.8	14,336.5	0.0	515.3

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. The negative schedule variance for retrieval is due to weather, degraded containers causing extra planning and effort to remove, and contamination.

- FYTD Cost Variance: The positive schedule variance for MLLW treatment is an artifact of funds committed but not costed until the treated waste is returned. The negative cost variance for retrieval is due to weather, degraded containers causing extra planning and effort to remove, and contamination.

TPA Quarterly Milestone Review
M-91 Series

Actions Planned for Next Six Months

- Start planned FY 2010 shipments of M-91-42 MLLW
- Continue treating M-91-42 and M-91-43 MLLW
- Continue repackaging M-91-42 TRU waste into a certifiable form
- Certify North Load Out Pit Sludge (first K Basin TRU waste to be accepted for disposal at WIPP)
- Implement Central Characterization Project (visual examination, non-destructive assay, head space gas sampling) for Standard Waste Boxes

TPA Quarterly Milestone Review
M-91 Series

Actions Planned for Next Six Months

- Remediate degraded boxes 80 and 82 in Burial Ground 218-W-3A, Trench 17
- Complete retrieval of drums for 218-W-4B, Trench TV7
- Award contracts for mobile decontamination unit and box venting equipment
- Continue planning for Next Generation Retrieval
- Perform Value Engineering session for Mobile Hot Cell to retrieve caisson waste

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
Third Quarter FY09
July 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.	On Schedule
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.	Milestone deleted per Change Number M-15-09-01; approved 06/08/2009
M-015-38B	11/30/10	Submit 200-CW-1 Revised FS and PP.	TPA Tentative Agreement date 09/30/2011; achievable with June 2009 proposed baseline
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.	In Dispute: extended to 07/31/2009
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	9/30/10	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	**COMPLETE**
M-015-54	1/31/10	Submit report on Reactive Testing (Uranium)	On Schedule
M-015-63	9/30/09	Submit CERCLA RI/FS Work Plan for the 100-FR-1/100-FR-2, 100-FR-3, 100-IU-2 and 100-IU-6 Operable Units for groundwater and soil.	On Schedule
M-015-67	9/30/09	Submit CERCLA RI/FS Work Plan for the 100-BC-1, 100-BC-02, and 100-BC-5 Operable Units for groundwater and soil.	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

- Tri-Party Agreement Change Control Form M-15-09-01 was approved June 8, 2009, deleting Interim Milestone M-015-25-C, "Submit a Remedial Investigation Phase II Report for the 200-PO-1 Groundwater Operable Unit."
- Prepare integrated project schedule for 200-BP-5 and 200-PO-1, resulting in a single groundwater feasibility study, proposed plan, and ROD for 200 East Area. Separate remedial investigation reports will be issued for 200-BP-5 and 200-PO-1. **Note:** EPA and Ecology commented on the scheduled proposed by DOE and have not heard back on resolution of comments as of 7/14/09.

200-BP-5

- Prepare integrated project schedule for 200-BP-5 and 200-PO-1, resulting in a single groundwater feasibility study, proposed plan, and ROD for 200 East Area. Separate remedial investigation reports will be issued for 200-BP-5 and 200-PO-1. **Note:** EPA and Ecology commented on the scheduled proposed by DOE and have not heard back on resolution of comments as of 7/14/09.

100-HR-3

- Issued the 100-Area RI/FS Work Plan, Draft A for regulatory review.
- Issued Addendum I to the 100-Area RI/FS Work Plan, 100-D/H Decision Unit, Draft A for regulatory review.
- Issued the 100-Area Focused Feasibility Study and Proposed Plan for In-Situ Remediation, Draft A for regulatory review.

Significant Accomplishments

200-BC-1

- Issued the electrical resistivity characterization data and soil concentrations report.
- Initiated preparation of the Draft B feasibility study and proposed plan incorporating the results of the treatability test report.
- Submitted the decisional draft treatability test report.

200-UP-1

- Issued the 200-UP-1 and 200-ZP-1 Operable Units Pump and Treat System Annual Report for Fiscal Year 2008, Rev. 0, DOE/RL-2008-77.
- Prepared integrated project schedule for 200-UP-1, which results in the addition of 200-UP-1 to the 200-ZP-1 ROD via a ROD amendment. Includes revising the 200-ZP-1 proposed plan and amending the 200-ZP-1 ROD to add 200-UP-1.

200-ZP-1

- Issued Rev. 0 Remedial Design/Remedial Action Work Plan to DOE-RL to meet TPA schedule.
- Rev. 0 annual pump-and-treat performance report was issued.
- Extensive aquifer testing in new extraction EW-1 (C7017) was completed.
- Completed 30% design review for the 200-West Area Groundwater Treatment Facility.
- Depth-discrete groundwater samples were collected during drilling of new extraction wells.

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

200-PW-1,3,6

- Two new SVE units are currently in Operational Testing using an Operational Testing Procedure (OTP).

200-MG-1/2

- 200-MG-1 and 200-MG-2 EE/CA documents were finalized and issued for public review and comment. The 30-day public comment period on the 200-MG-2 EE/CA ended on June 27, 2009. The review period on the 200-MG-1 EE/CA ends on July 17, 2009

200-UW-1

- The Workshop to define DQOs for the 216-U-12 Crib was held in May.
- Additional funding to accelerate the well drilling for the supplemental characterization is expected.

200-MW-1

- DOE and EPA are in dispute and the dispute has been extended to July 31, 2009.

200-SC-1

- Completed data validation on sample results for the grab samples analyzed by PNNL.
- Completed the DQA for the supplemental characterization data.

Significant Accomplishments
Other Items of Interest

100-KR-4

- Completed work required to meet proposed TPA milestone P-016-111A, "Expand current pump and treat syste at 100-KR-4 Operable Unit to be operational and functional at a total 900 gpm" by May 31, 2009. The milestone was met on May 20, 2009, 11 days early.
- In accordance with signed TPA-CH-273 and -280, initiated construction on the KX/KR4 pump-and-treat systems Phase 2 realignment, which will increase system flows and efficiencies and address concerns about the spread of tritium in the 100-KR-4 operable unit.
- Initiated Phase 3 remedial system optimization study.
- Submitted Draft A, Volume 1 and Addendum 2 (100-K Decision Unit) RI/FS Work Plan for EPA review.
- Submitted revised KW RDR/RAWP, describing the 100-gpm expansion of the KW pump-and-treat facility, for EPA review.
- Issued pump-and-treat system summary report for calendar year 2008.

100-HR-3

- Completed modeling and well field design for enhanced P&T system for 100-HR-3 OU to met 2012 river protection target milestone, and developed an additional four optimized well field designs addressing the 2020 target milestone.
- Design of additional 600 gpm P&T system for D Area is 80% complete.
- Submitted the Draft RI/FS Work Plan addendum for the DH Decision Unit for EPA review, meeting draft TPA milestone M-015-69.
- Initiated design of additional 100 gpm P&T capacity at HR-3.

Significant Accomplishments
Other Items of Interest

U-Zone Remediation

- **221-U Disposition**
  - Facility being relamped and crane reactivated.
  - Sampling of D-10 tank in U Plant's cell 30 commenced.
- **U-Ancillary Facilities**
  - Removal actions in accordance with Removal Action Work Plan, DOE/RL-2004-83, Rev. 1, underway.
  - Demolished and dispositioned 13 of 14 tanks in 211-U/UA by July 13.

200 North Remediation

- **212-N, - P, and – R Facilities/Structures**
  - Action memorandum (AM), SAP, and RAWP were approved.
  - Preparation for removal action underway.
- **200-CW-3 Waste Sites**
  - Field mobilization and setup for work was completed.
  - Field work (sampling) of 8 of 9 waste sites completed by July 10.

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

RL-30 - Soil & Water Rem-Grndwtr/Vadose	BCWS	BCWP	ACWP	SV	CV	BAC
030.01 - Integration and Assessments	9,342.6	9,106.0	8,386.3	(236.6)	719.7	13,544.3
030.03 - Drilling	5,168.6	5,493.9	5,081.3	325.3	412.6	7,565.0
030.04 - Project Management	6,913.3	6,913.3	7,776.7	0.0	(863.4)	9,646.5
030.05 - Integrated Field Work	5,425.7	5,109.1	4,740.1	(316.6)	369.0	8,352.8
030.06 - GW Monitoring and Perf Asmts	9,899.9	9,621.3	9,748.0	(278.6)	(126.7)	13,754.7
030.10 - 100-BC-5 Operable Unit	308.5	316.2	263.2	7.7	53.0	430.2
030.11 - 100-KR-4 Operable Unit	8,944.2	9,455.7	8,962.5	511.5	493.2	11,856.1
030.12 - 100-NR-2 Operable Unit	1,737.2	1,451.6	1,307.6	(285.6)	144.0	3,408.6
030.13 - 100-HR-3 Operable Unit	5,419.4	5,067.4	4,321.2	(352.0)	746.2	8,087.0
030.14 - 100-FR-3 Operable Unit	292.6	275.1	182.7	(17.5)	92.4	374.6
030.20 - 200-BP-5 Operable Unit	383.1	452.5	440.5	69.4	12.0	605.9
030.21 - 200-PO-1 Operable Unit	809.4	770.7	759.3	(38.7)	11.4	1,128.1
030.22 - 200-UP-1 Operable Unit	426.0	461.3	268.1	35.3	193.2	769.3
030.23 - 200-ZP-1 Operable Unit	7,388.0	7,121.8	6,917.4	(266.2)	204.4	14,630.3
030.24 - 200-PW-1 Operable Unit	1,033.8	1,182.3	931.0	148.5	251.3	1,477.8
030.30 - 300-FF-5 Operable Unit	1,345.0	1,164.0	1,515.6	(181.0)	(351.6)	1,743.8
030.31 - PBS RL-30 Reg Dec/Closure	4,197.5	4,057.9	3,579.7	(139.6)	478.2	5,076.7
030.32 - Deep Vadose Zone Treatability	2,194.8	1,871.1	1,403.3	(323.7)	467.8	2,928.5
030.90 - Usage Based Services Dist	1,998.5	1,998.5	2,521.1	0.0	(522.6)	2,924.0
030.99 - PBS RL-30 UBS, G-n-A, DD	12,552.3	12,552.3	12,561.6	0.0	(9.3)	17,616.0
GW Total	**85,780.4**	**84,442.0**	**81,667.2**	**(1,338.4)**	**2,774.8**	**125,920.2**

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

030.13 - 100-HR-3 Operable Unit	0.0	0.0	4.5	0.0	(4.5)	0.0
030.23 - 200-ZP-1 Operable Unit	183.5	139.5	39.0	(44.0)	100.5	5,900.8
030.31 - PBS RL-30 Reg Dec/Closure	217.2	143.7	68.5	(73.5)	75.2	1,326.8
030.98 - Ramp-up and Transition	1,606.2	1,606.2	853.6	0.0	752.6	3,776.0
030.99 - PBS RL-30 UBS, G-n-A, DD	873.3	873.3	206.1	0.0	667.2	2,760.0
RL-30 VGW Total	**3,572.4**	**2,973.7**	**1,282.2**	**(598.7)**	**1,691.5**	**17,087.7**

RL-30 Schedule
Performance Variances and Explanations

BASE SCHEDULE VARIANCES – No Base schedule variances to report on this quarter – all RL-30 CCL accounts are within threshold for reporting on schedule variances.

Subproject	FYTD SV $	Causal Factors
Nothing to report for the third quarter		

BASE COST VARIANCES

Subproject	FYTD SV $	Causal Factors
030.04 – Project Management	**($863.4)**	Due to in-going unbudgeted and unfunded contract transition costs. It has been decided that BCWS will be added to this account but no additional funds will be allocated.

RL-30 Schedule
Performance Variances and Explanations

ARRA SCHEDULE VARIANCES – No ARRA schedule variances to report on this quarter – all RL-30 CCL accounts are within threshold for reporting on schedule variances.

Subproject	FYTD SV $	Causal Factors
Nothing to report for the third quarter		

ARRACOST VARIANCES

Subproject	FYTD SV $	Causal Factors
030.98 – Ramp-up & Transition	**$752.6**	Uncertainties existed regarding the timing of the ARRA Ramp-up activities (Training, IRM, Proposal/Relocation, Facility Services, Construction Complex, etc.) therefore, the FY09 budget was straight lined beginning in April. These activities are slowly ramping up thereby cost creating variances in April, May, and June. Facility Services Trailer activities are well underway in June with IRM and Construction activities to follow. Training and relocation expenses will also increase as hiring ramp-up continues. Current spend forecast projections remain on budget.

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 Base Funding	21.7	20.3	26.5	-0.5	-0.5	32.8
RL-0040 BOS D&D ARRA Funding	26.5	26.1	8.2	-1.4	12.1	64.7
RL-0040 BOS D&D TOTAL	48.2	46.4	34.7	-1.9	11.7	97.5

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
ARRA Funded Scope		
Significant Schedule Variance		
040.02.02.04 - Facilities - 200-E Ponds Zone	-0.3	Demolition of Buildings 212-N, P, & R delayed due to a delay of approval of regulatory documents and identification of unknown water and solids hazards.
040.02.18.04 - U Ancillary Demolition	-1.1	Delays have resulted from utility isolations and limited availability of workers trained for crane and rigging to support asbestos removal.
Significant Cost Variance		
40.01.21.01 - CP Program management	0.4	Variance is within reporting thresholds
40.01.26.01 - Misc Facilities Hazard Reduction	1.3	Delays in hiring for WIF and Cold & Dark, along with efficiencies gained by integration with west area seven industrial buildings
40.01.26.02 - Misc Waste Sites Hazard Reduction	0.6	Efficient use of resources and costs delayed for analytical services.
040.01.29.01 - Procure D&D Equipment	1.9	Successfully negotiated lower prices; costs for 2 water trucks and 4 shuttle trucks incorrectly applied to Base.
040.02.02.04 - Facilities - 200-E Ponds Zone	0.6	Preliminary demolition activities were completed more efficiently, with limited resources.
040.02.18.01 - Remediation Def - U Plant Zone	0.2	Variance is within reporting thresholds
040.02.18.02 - Canyon - U Plant Zone	1.8	Planned staffing of Project Management staff and mobilization have been slower than planned, resulting in lower costs; assigned staff have worked efficiently and over time to perform required scope.
040.02.18.04 - U Ancillary Demolition	0.8	Some costs charged to Base during initial transition to ARRA funding. Costs will be transferred.
040.02.29.03 - O Zone Waste Sites	0.4	Variance is within reporting thresholds
040.90.02.01 - Assessments, UBS Services to PRC	0.5	Level loaded activity; contracts still being setup with MSC. Some costs going into Base will require transfer.
040.98.01 - WBS 040 Ramp-up/Transition	3.2	Staff hiring has not proceeding as quickly as aggressively planned.
040.99.01 - PBS RL-40 UBS, G-n-A, and Direct Distributables	1.5	Ramp up costs (hiring actions, training, relocation, IRM costs, temporary duty pay, etc) that were level loaded in the 180 day plan or "000" allocations that are level of Effort and require enhanced time-phasing.

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

Subproject	FYTD Variance	Causal Factor
Base Funded Scope		
Significant Schedule Variance		
040.02.17.04 - 200 West Area 7 Industrial Buildings	-0.2	Variance is within reporting thresholds
040.02.18.02 - Canyon - U Plant Zone	-0.3	Variance is within reporting thresholds
Significant Cost Variance		
40.01.26.01 - Misc Facilities Hazard Reduction	0.3	Delays in hiring for WIF and Cold & Dark, along with efficiencies gained by integration with west area seven industrial buildings
40.01.26.02 - Misc Waste Sites Hazard Reduction	-0.3	Variance is within reporting thresholds
040.01.29.01 - Procure D&D Equipment	-0.9	Costs for 2 water trucks and 4 shuttle trucks incorrectly applied to Base. These costs will be transferred.
040.02.17.04 - 200 West Area 7 Industrial Buildings	1.1	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
040.02.18.02 - Canyon - U Plant Zone	0.9	Initial sampling of the Cell 30 tank was accomplished with less specialized equipment than was originally planned.
040.02.18.04 - U Ancillary Demolition	-0.6	Some costs charged to Base during initial transition to ARRA funding. Costs will be transferred.
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	-0.8	Collecting costs for ARRA work while unique subcontracts for MSC support of ARRA work are established. Costs will be transferred.
040.99.01 - PBS RL-40 UBS, G-n-A, and Direct Distributables	-0.3	Variance is within reporting thresholds

Planned Activities
Next 6 Months

U-Zone Remediation

- **U-Ancillary Facilities**
  - Demolition work underway with completion expected in Spring 2010.
  - Complete demolition of 14 tanks.
  - Continue with demolition activities for 224-U, 224-UA, and 203-UX.

200 North Remediation

- **212-N, - P, and – R Facilities/Structures**
  - Demolition of structures expected to be complete in September 2009.
- **200-CW-3 Waste Sites**
  - Sampling activities well underway with project completion expected in September 2009.

Other Facilities D&D

- Conclude or extend Central Plateau Facility TPA milestone negotiations.

Planned Activities

Next 6 Months

100-HR-3

- Issue Rev. 0 RI/FS Work Plan Addendum for regulator approval.
- 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.
- Complete design of new 600 gpm 100-D Area Expansion P&T facility.
- Complete design of expansion to HR-3 P&T facility.
- Initiate construction of road crossings, buildings, piping and electrical for DX and HR-3 expansion projects.

100-KR-4

- Complete operational testing of the expanded KW pump-and-treat facility.
- Complete operational testing of the KX pump-and-treat system, including Phase 1 realignment system modifications.
- Drill four to five new wells to support Phase 2 realignment of the KX and KR4 pump-and-treat systems, and complete construction of Phase 2 realignment system modifications.
- Complete KR4 Phase 3 remedial process optimization technical memorandum.
- Issue Rev. 0 K Decision U nit RI/FS Work Plan Addendum.
- Submit supplemental Interim Action Monitoring Plan specific to the 100-KR-4 operable unit interim action for RL and EPA review and approval.
- Revise in-situ remediation FFS/PP to reflect regulator comments and support amendment of the HR3/KR4 interim action ROD.

Planned Activities
Next 6 Months

100-NR-2

- Perform Jet Injection Treatability Test.
- Continue Total Petroleum Hydrocarbons investigation.
- Continue Apatite Barrier performance monitoring.
- Transmit RI/FS Work Plan Addendum to DOE.

300-FF-5

- Issue Draft A of the 300 Area Decision Unit RI/FS Work Plan Addendum for regulator review.
- Initiate 300 Area Treatability Test Plan for Uranium.

100-FR-3

- Issue Draft A of the 100-F/IU-2/IU-6 Decision Unit RI/FS Work Plan Addendum for regulator review.

100-BC-5

- Issue Draft A of the 100 BC Decision Unit RI/FS Work Plan Addendum for regulator review.
- Install 4 advance RI/FS wells

Planned Activities
Next 6 Months

200-BP-5

- Complete the draft 200-BP-5 Conceptual Transport Model Report for the WMA B/BX/BY and surrounding areas.
- 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.
- Drilling will start in September 2009 on the first of three wells (K well).
- Develop DQOs for B/BX/BY treatability test plan.

200-PO-1

- Complete sampling of 28 supplemental characterization wells.
- Continue preparation of combined RI Report.

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.

Planned Activities
Next 6 Months

200-UP-1

- Submit for regulator review Revision 3 to the 200-UP-1 RD/RA Work Plan. The RD/RA Work Plan is being revised to implement the approved Explanation of Significant Difference (ESD) and to include a preliminary design for a pump and treat system to address the Tc-99 plumes at WMA S-SX.
- Initiate design activities for an interim action pump and treat system for the Tc-99 plumes at WMA S-SX.
- Continue preparation of the combined RI/FS Report. Initiate revision of the 200-ZP-1 Proposed Plan to add 200-UP-1
- 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-ZP-1

- Continued operation of the interim pump-and-treat system.
- Continue collecting and analyzing depth-discrete groundwater samples during the drilling of the next set of groundwater extraction/injection wells.
- Complete 60% design of the final 200-West Area Groundwater Treatment Facility.
- Procure materials to tie new extraction well EW-1 (C7017) to the interim pump-and-treat system.
- Replace heater/chiller unit in the interim pump-and-treat system.
- Continue working on RCRA/CERCLA/AEA Integrated Monitoring Plan.

Planned Activities
Next 6 Months

200-MG-1/2

- Issue Action Memorandum documents for 200-MG-1 and 200-MG-2.
- Issue RAWP and SAP for 11 200-MG-1 sites.
- Initiate removal action field activities for 11 200-MG-1 sites.

200-SW-2

- Initiate non-intrusive remedial investigation (i.e., surface geophysics and passive organic vapor sampling) field activities.

200-IS-1

- Issue the 241-CX Tank System Closure Plan

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

- Prepare Rev. 0 FS, incorporating regulator comments received on the Draft B FS.
- Prepare Draft B PP, to reflect ongoing discussions on Central Plateau Clean-up Strategy.
- Continue operating two active soil vapor extraction systems and one passive system.

Planned Activities
Next 6 Months

200-MW-1

- Issue the 200-MW-1 combined RI/FS report to DOE for submittal to EPA.

200-CW-5

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

200-UW-1

- Replan the project to complete supplemental characterization field work before preparation of the ROD.

200-UR-1

- Initiate activities to characterize the Gable Mountain Pond pipeline (200-E-127).

200-SW-1

- Submit closure plans to Ecology for the Nonradioactive Dangerous Waste Landfill (NRDWL) and the Solid Waste Landfill (SWL).

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

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

DOE-RL FFTF Project – Al Farabee
Washington State Department of Ecology – Rick Bond
U.S. Environmental Protection Agency – Dennis Faulk

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	Completed May 14, 2009 (Due June 30, 2010)
M-81-00A	Complete FFTF Facility Transition and Initiate the Surveillance and Maintenance Phase	Completed June 01, 2009 (Due February 28, 2011)
M-81-00A-T05	Complete Auxiliary Plant Systems Shutdown	Completed April 28, 2009 (Due February 28, 2011)

DOE-RL FFTF Program Manager Assessment of Contractor Performance

- The Tri-Party Agreement Milestone M-081-15, "*Submit the FFTF Surveillance and Maintenance Plan*," was completed on May 14, 2009, thirteen months ahead of the due date of June 30, 2010.

- The Tri-Party Agreement Milestone M-081-00A, "*Complete FFTF Transition and Initiate the FFTF Surveillance and Maintenance Phase*," was completed on June 01, 2009, twenty-one months ahead of the due date of February 28, 2011.

- The Tri-Party Agreement Target date, M-081-00A-T05, "*Complete Auxiliary Plant Systems Deactivation*," was completed on April 28, 2009, twenty-two months ahead of the due date February 28, 2011.

Significant Accomplishments (Last 3 Months)

- **Auxiliary Systems Deactivation**
  - Completed deactivation of Building 4713B (FFTF Maintenance Shop)
  - Cut and capped water supply to Building 4710 (FFTF Office Building)
- **Buildings/Structures**
  - Transferred "ownership" of Building 437 [Maintenance and Storage Facility (MASF) to the K-Basins Closure Project]
  - Transferred "ownership" of the FFTF and support buildings/structures to the Central Plateau S&M group
- **Surveillance and Maintenance**
  - Completed approved S&M plan
  - Began FFTF facility in long term, low cost S&M mode (does not include MASF)

Significant Accomplishments (Last 3 Months, Continued)

- **Waste Shipments/Recycling**
  - Completed shipment of the short segmented maintenance cask and two roll off "cans" for disposal to the Environmental Restoration and Disposal Facility (ERDF)
  - Completed shipment of depleted uranium for disposal to Burial Ground 218-W-5
  - Completed shipment of tritium exit signs, oxygen monitor heads, and smoke detectors to recyclers

Significant Planned Actions (Next 6 Months)

- **Waste Shipments**
  - Complete the disposition of remaining FFTF deactivation waste, including liquid radioactive waste in MASF

BUDGET/COST STATUS

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

(As of May 31, 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	$ 8,169	$ 8,801	$ 8,982	$ 632	$ -181

<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 associated with processing waste.

Project Issues/Risks

- None identified at this time

Summary

- The FFTF now placed in a long term, low cost S&M mode (does not include MASF)
- Project costs and schedule are being maintained
- Per the April 16, 2009, Central Plateau/FFTF TPA quarterly milestone review meeting, it was understood between AMCP (Matt McCormick) and Ecology (Jane Hedges) that once FFTF was under S&M, it would no longer be part of a TPA quarterly milestone review. The FFTF status would be reported annually to the regulators after the annual surveillance is done (i.e., FFTF TPA PMM).