

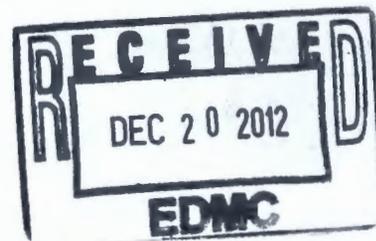
**FINAL**

Office of River Protection

Tri-Party Agreement

Monthly Summary Report

December 2012



Office of River Protection  
Tri-Party Agreement Milestone Review  
December 2012

<b>Page</b>	<b>Topic</b>	<b>Leads</b>
1	Administrative Items / Milestone Status	James Lynch / Dan McDonald / Jeff Lyon
2	Single-Shell Tank Corrective Action; M-45, -50, -60	Chris Kemp / Jeff Lyon
4	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, - Tank in Appendix H Status - Tank Retrievals with Individual Milestones	Chris Kemp / Jeff Lyon
5	Tank Waste Retrieval Work Plan Status	Chris Kemp / Jeff Lyon
6	Tank in Appendix H Status Tank Retrievals with Individual Milestones	Chris Kemp / Jeff Lyon
7	242-A Evaporator Status	Ron Koll / Jeff Lyon
8	SST Integrity Assurance; M-45-91	Jeremy Johnson/ Michelle Hendrickson
9	In Tank Characterization and Summary	Billie Mauss / Michael Barnes
11	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon
16	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald
17	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald
18	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald
19	WTP Overall TPA Summary and Milestone Status; M-62-01	Delmar Noyes / Dan McDonald

Milestone	Title	Due Date	Completion Date	Status
<b>Fiscal Year 2012</b>				
M-062-40B	Submit System Plan	10/31/2011	10/21/2011	Completed
M-062-49	Sub. Report to ECY Demonstrating WTP Design Meets Vit. Criteria	10/31/2011	10/27/2011	Completed
M-045-91B	DOE Submit a Sampling and Analysis Plan to Ecology	12/30/2011	9/20/2011	Completed
M-045-92F	Meet Yearly on Performance of Barrier	12/31/2011	11/30/2011	Completed
M-045-91G-T02	Provide AOR Final Doc. for SSTs on 750,000 Gallon Tanks	1/31/2012	11/18/2011	Completed
M-062-01X	Submit Semi-Annual Project Compliance Report	1/31/2012	1/27/2012	Completed
M-045-91D	Submit Analytical Test Plan for Cores Removed from C-107 Plug	3/31/2012	6/27/2011	Completed
M-045-91G-T06	Provide Report of the Visual Inspection of 12 SSTs M-045-91G-T05	3/31/2012	03/12/2012	Completed
M-045-92M	Barrier 2 Design/Monitoring Submittal to Ecology	6/30/2012	5/19/2011	Completed
M-047-06	Comp. Neg's of No More Than 2 Interim Milestones	6/30/2012	11/19/2012	Completed
M-062-01Y	Submit Semi-Annual Project Compliance Report	7/31/2012	7/27/2012	Completed
M-045-56H	Meet Yearly to Discuss Interim Measures	7/31/2012	6/21/2012	Completed
<b>Fiscal Year 2013</b>				
M-045-20	Submit Interim Measures Investigation Work Plan and TPA Chg Pckgs for M-045-22 Target Dates	12/31/2012	12/06/2012	Completed
M-090-11	Comp. Neg's No More Than 2 Canister Storage Fac. Const. Int. M/S	12/31/2012	11/19/2012	Completed
M-062-01Z	Submit Semi-Annual Project Compliance Report	1/31/2013		On Schedule
M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	1/31/2013		To Be Missed
M-045-21	Submit Sampling and Analysis Plan for 241-TX Tank Farm	3/31/2013		On Schedule
M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	5/31/2013		On Schedule
M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	5/31/2013	05/02/2012	Completed
M-045-91F-T02	Provide Report of Liner Failures for SSTs	7/31/2013		To Be Missed
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	7/31/2013		To Be Missed
M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	9/30/2013		On Schedule
M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	9/30/2013		To Be Missed

Milestone	Title	Due Date	Completion Date	Status
<b>Fiscal Year 2014</b>				
M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	10/31/2013		To Be Missed
M-062-40C	Select a Minimum of Three Scenario's for the System Plan	10/31/2013		On Schedule
M-045-91F	Provide Summary Conclusions Report on Leak Integrity	12/31/2013		To Be Missed
M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	04/30/2014		To Be Missed
M-045-56J	Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July)	07/31/2014		On Schedule
M-045-91B-T01	Provide Ecology report on the Concrete Core from TankA-106 or alt	09/30/2014		On Schedule
M-047-07	CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to Ecology	09/30/2014		On Schedule
M-090-13	CD-1 for Interim Hanford Storage Project and CR for CD-2 to ECY	09/30/2014		On Schedule

## WBS 5.2 Retrieve and Close Single Shell Tanks

**M-045-20, Submit Interim Measure Investigation Work Plan to Ecology, Due: 12/31/12, Status: Completed on 12/06/12.** ORP will submit to Ecology for review and approval an interim measures investigation work plan for to vadose zone characterization at 241-TX Farm and 241-U Farm, and soil desiccation/contaminant removal proof-of-principal test at 241-SX Farm. The work plan will also be submitted with a TPA Change Package to establish milestone due date for M-045-22 and target dates for submittal of three secondary documents, see M-045-22-T01, -T02, and -T03. Added per TPA change package M-45-12-04. ORP submitted this work plan and a draft TPA change package for dates for M-045-22 and its targets on 12/06/12 via letter 12-TF-0054.

**M-045-21, Submit for Review and Approval a Sampling and Analysis Plan to Ecology for Soil Samples for 241-TX Tank Farm Investigation, Due: 03/31/2013, Status: On Schedule.** Further description of this SAP will be provided in the Work Plan submitted under M-045-20. Added per TPA change package M-45-12-04.

**M-045-22, Review M-045-22-T03 Report and Determine Path Forward, Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule.** This ORP/Ecology decision point will determine whether to continue with soil desiccation/contaminant removal testing and other interim measures, and if remaining work in Milestone M-045-92 should be modified. Added per TPA change package M-45-12-04. ORP submitted a draft TPA change package for dates for M-045-22 and its targets on 12/06/12 via letter 12-TF-0054.

**M-045-22-T01, Submit Results of Vadose Zone Characterization of 241-TX to Ecology,** Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule.

**M-045-22-T02, Submit Results of Vadose Zone Characterization of 241-U to Ecology,** Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule.

**M-045-22-T03, Submit SX Soil Desiccation/Contaminate Removal Tech Results to Ecology,** Due: TBD based on M-045-20 TPA Change Package Submittal, Status: On Schedule.

**M-045-58, Submit to Ecology for Review and Approval as an Agreement primary document, a phase 2 CMS Master Work Plan,** Due: 12/31/2008 Status: Complete. The outstanding issues involved integration of RCRA and CERCLA requirements, and the definition of a schedule for future RFI/CMS Work Plan development and implementation. With the development of the RCRA/CERCLA Integration White Paper (under M-045-80), DOE believes that the path to soil corrective measures implementation involves a modification to the RCRA Permit for SST Closure, and a ROD to address the CERCLA requirements. In addition, modifications to milestone M-045-84 and M-045-85 have now been made to explicitly define the requirements for schedule development for future RFI/CMS Work Plans, RFI/CMSs and Corrective Measures Implementation Plans. Thus all outstanding issues for the M-045-58 deliverable have been addressed, and this milestone may be considered closed. Ecology and ORP signed a TPA PM Agreement to close-out this milestone on 12/20/12; any future updates will be tracked on the ORP Key Documents List.

**M-045-59, Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST WMAS (pending the CMS report, milestone M-45-58, and implementation of other interim corrective measures),** Due: TBD, Status: On Schedule

**M-045-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RFI/CMS Report for WMA C,** Due: 12/31/2014, Status: At Risk. Please see Issues.

**M-045-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Study Implementation Plan for WMA C,** Due: 06/30/2015, Status: At Risk. Please see Issues.

**M-045-92, DOE and Ecology will establish selection criteria for installation of additional interim barriers at additional WMAs (beyond the T-106 and TY barriers),** Due: 09/30/2017, Status: On Schedule. This milestone date has been modified according to M-45-12-04 and the decision to move forward with construction/design of additional barriers dependent on discussions per M-045-22.

**M-045-92N, Construct Barriers 1 and 2 in 241-SX Farm** Due: 10/31/15, Status: On Schedule. The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

**M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3** Due: 06/30/15, Status: On Schedule. The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

**Significant Past Accomplishments:**

- Provided the interim measures investigation Work Plan for M-045-20 and draft TPA change package for M-045-22 and its targets via ORP letter 12-TF-0054 on 12/06/12.
- Automated data collection system for T-Farm interim barrier monitoring continues gathering data.
- Automated data collection system for TY Interim Barrier monitoring continues gathering data.
- Results of evaluation of barrier monitoring data were documented and published.
- Verification and validation was completed for the laboratory analysis of direct push soil samples previously obtained in C farm

**Significant Planned Actions in the Next Six Months:**

- Revise the TY Interim Surface Barrier Monitoring Plan, once TPA change notice 2012-09 is approved.
- Provide the Sample Analysis Plan for 241-TX Farm for M-045-21.
- Initiate field work under the M-045-20 work plan.
- Perform direct push/electrical resistivity field work near the C-200 tanks per the WMA C Phase 2 RFI/CMS Work Plan.

## **SST Retrieval and Closure Program**

**M-045-82, Submit complete permit mod requests for Tiers 1, 2, & 3 of the SST, Due:** 9/30/2015 Status: At Risk. Please see Issues.

**M-045-84, Complete negotiations of TPA interim MS for closure of second WMA, Due:** 1/31/2017, Status: On Schedule

**M-045-83, Complete the closure of WMA C, Due:** 6/30/2019, Status: On Schedule

**M-045-85, Complete negotiations of TPA interim MS for closure of remaining WMAs, Due:** 1/31/2022, Status: On Schedule

**M-045-70, Complete waste retrieval from all remaining SSTs, Due:** 12/31/2040, Status: On Schedule

**M-045-00, Complete Closure of all Single Shell Tank Farms, Due:** 1/31/2043, Status: On Schedule

**M-045-86, Submit retrieval data report to Ecology for 19 tanks retrieved, Due:** TBD (12 months after retrieval certification), Status: On Schedule

**Significant Past Accomplishments:**

- See discussions above and related discussions in Consent Decree report.

**Significant Planned Activities in the Next Six Months:**

- See discussions above and related discussions in Consent Decree report.

**Issues:**

The WMA-C performance assessment is not funded currently in fiscal year 2013. ORP needs to restart the WMA-C performance assessment by March 31, 2013 or milestone M-45-82 will be missed, and will require that other existing data be utilized for M-45-61 and M-45-62 to keep the their existing milestone dates. ORP is working to identify funding to restart the WMA-C performance assessment on or before March 31, 2013.

**Tank Waste Retrieval Work Plan (TWRWP) Status**

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 7	Complete	MRS (per 10/7/10 agreement, to be Modified Sluicing)	High-Pressure Water with ERSS	-
C-102	RPP-22393, Rev. 6A	In Process	Modified Sluicing	High-Pressure Water with ERSS	-
C-104	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520, Rev. 7	Complete	MARS-V	High pressure water spray/M A RS platform	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-High Pressure	-
C-108	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Dissolution	-
C-110	RPP-33116, Rev. 2	In process	Modified Sluicing	None	-
C-111	RPP-37739, Rev. 1	In process	Modified Sluicing	None	-
C-112	RPP-22393, Rev. 6A	In process	Modified Sluicing	Chemical Dissolution	-

**Significant Accomplishments**

None.

**Significant Planned Activities in the Next 6 Months:**

Work with Ecology on updates to TWRWPs RPP-22393, RPP-33116, RPP-22520 and RPP-37739 for tanks C-110, C-111, and C-112.

**Issues:**

None.

## **Tank in Appendix H. Status - Single Shell Waste Retrieval Criteria**

### **Tank 241-C-106**

#### **Significant Past Accomplishments:**

None

#### **Significant Planned Activities in the Next Six Months:**

Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A Request for Additional Information (RAI) was received from the NRC in February 2009.

#### **Issues:**

It has been discussed with the NRC that much of the additional information requested is dependent upon development of C-Farm residual waste PA and, therefore, cannot be provided until the PA is published.

## **Tank Retrievals with Individual Milestones**

### **Tank 241-A-103**

**M-045-15, Completion of Tank A-103 SST Waste Retrieval, Due: 9/30/22 Status: On schedule.** Change package M-45-11-04 replaced tank S-102 with tank A-103 and changed to milestone completion date for M-045-15 to 09/30/2022.

**M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I, Due: 9/30/22, Status: On schedule.** Updated with tank A-103 and due date of 9/30/22 per M-45-11-04 Change Package.

**M-045-15D, Embedded Milestone, if appropriate, DOE will request an exception to waste retrieval criteria pursuant to Agreement Appendix H, Due: 9/30/22, Status: On Schedule.** Updated with A-103 tank and due date of 9/30/22 per M-45-11-04 Change Package.

#### **Significant Past Accomplishments:**

Change Package M-45-11-04 was signed by ORP and Ecology on 04/19/11.

#### **Significant Planned Activities in the Next Six Months and Issues:**

None

### **Tank 241-S-112**

**M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project, Due: TBD (in accordance with M-045-84 or M-045-85), Status: On Schedule**

**M-045-13E, Complete Negotiations for Interim Milestones for Closure of S-112, Due: TBD Status: On Schedule as part of M-045-84 or M-045-85.**

#### **Significant Past Accomplishments:**

Ecology letter of January 7, 2008, concurred with ORP that retrieval of Tank S-112 is complete.

#### **Significant Planned Activities in the Next Six Months or Issues:**

None

## 242-A Evaporator Status (previously reported under Milestone M-48, which has been closed out)

### 242-A Campaign strategy:

The 242-A Campaign Strategy for FY2010 through FY2015 depicted below has been updated based on ORP-11242, River Protection Project Plan, Revision 6, and ongoing schedule integration efforts.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY10	10-01	AW-106	AW-106	Campaigns 10-01/10-02 were performed back-to back starting in late August and completing in early October 2010. Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
FY10	10-02	AW-106	AW-106	
FY11	NA	NA	NA	No campaign conducted in FY11 due to ongoing 242-A and Tank Farm facility life extension and ARRA funded upgrades.
FY12	NA	NA	NA	No campaign conducted in FY12 due to ongoing 242-A and Tank Farm facility upgrades and revision to the 242-A Documented Safety Analysis (DSA).
FY13	13-01	AP-107	AP-107	Estimated start July 2013. May require two (2) passes to achieve waste volume reduction.
FY13	13-02-	AW-106	AW-106	Estimated start September 2013.
FY14	14-01	AN-106 AZ-102 AW-106	AP-107	Estimated start March 2014. Two (2) passes required.
FY15	15-01	AY-101 AZ-102	AP-107	Estimated start March 2015. Three (3) passes required.
FY15	15-02	AY-101	AP-107	Estimated start August 2015. Four (4) passes required.

## SST Integrity Assurance

**M-045-91F-T01, Provide to Ecology as a HFFACO secondary document a report evaluating the applicability to Hanford SSTs of the liquid leak rate assessments of sludge and salt-cake from the Savannah River Site, Due: 1/31/2013, Status: To Be Missed. TPA change package M-45-12-01, moving M-45-91F-T01 and G-T03 out one year was signed by ORP and Ecology on 01/23/12.**

**M-045-91D-T01, Provide Ecology a report containing the results and interpretation of testing, and analysis performed on the concrete dome samples obtained from the Tank C-107 plug, Due: 5/31/2013, Status: On schedule.**

**M-045-91F-T03, Provide to Ecology, as a HFFACO secondary document a report assessing the feasibility of testing for ionic conductivity between the inside and outside of SSTs, Due: 5/31/2013, Status: Complete 05/02/2012. (ORP letter 12-TF-0009)**

**M-045-91F-T02, Provide to Ecology as a HFFACO secondary document a report evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced Leak Detection, Monitoring, and Mitigation, Due: 7/31/2013, Status: To Be Missed.**

**M-045-91F-T04, provide to Ecology, as a HFFACO secondary document, a report on the 100-series single-shell tanks which have been or will be identified as having leaked in RPP-32681, Rev 0, Due: 7/31/2013, Status: To Be Missed.**

**M-045-91G-T03, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 1,000,000 gallon tanks (A, AX and SX Farms), Due: 9/30/2013, Status: To Be Missed. TPA change package M-45-12-01, moving M-45-91F-T01 and G-T03 out one year was signed by ORP and Ecology on 1/23/2012.**

**M-045-91E, Provide to Ecology a compilation of the Single-Shell Tank farms dome deflection surveys every two years, beginning 9/30/2013, Due: 9/30/2013, Status: On schedule.**

**M-045-91G-T04, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 55,000 gallon tanks (B, C, T and U Farms), Due: 10/31/2013, Status: To Be Missed.**

**M-045-91F, Provide to Ecology a report (Summary Conclusions Report on Leak Integrity) summarizing and evaluating the information submitted under M-045-91F-T01 through -T04, Due: 12/31/2013, Status: To Be Missed.**

**M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record (AOR) for SSTs, Due: 4/30/2014, Status: To Be Missed.**

**M-045-91B-T01, Provide Ecology a report containing the results and interpretation of testing, and analysis, performed on the concrete core obtained from Tank A- 106 or alternate tank, Due: 9/30/2014, Status: On schedule.**

**M-045-91H, Submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones based on information obtained from the actions in the preceding M-045-91 series milestones to date, Due: 7/31/2015, Status: On schedule.**

**M-045-91I, Provide to Ecology an IQRPE certification of SSTs structural integrity for the remainder of the mission, or for such time as the IQRPE believes he/she can reasonably certify, Due: 9/30/2018, Status: On schedule.**

**Significant Past Accomplishments:**

- None.

**Significant Planned Actions in the Next Six Months:**

- Continue discussions with Ecology regarding “To Be Missed” target dates and interim milestone impacts.

**Issues:**

- FY2012 and FY2013 funding constraints have impacted M-045-91 scheduled work. ORP is meeting with Ecology to discuss impacts on individual milestones and targets dates for FY2013 and beyond and working a path forward per the TPA Section 12.0 Change Process.

## **In Tank Characterization and Summary**

For the period from November 1 – November 30, 2012:

**Accomplishments:**

- Completed RPP-PLAN-53893, Rev. 0, *Fiscal year 2013 Tank 241-AN-106 Grab Sampling and Analysis Plan.*
- Completed RPP-PLAN-53916, Rev. 0, *Sampling and Analysis Plan for Tank 241-C-101 Stack Chemical Emissions During Retrieval.*
- Completed RPP-PLAN-54083, Rev. 0, *FY2013 Grab Sampling and Analysis Plan for the 241-AY-102A Tank Annulus Leak-Detection Pit.*
- Completed RPP-PLAN-53006, Rev. 1, *Tank 241-AW-106 Grab Sampling and Analysis Plan in Support of Evaporator Campaign for Fiscal year 2013.*
- Completed grab sampling of Tank AN-106 on November 7 in support of chemistry control in 2012. Nine samples were collected.
- RPP-RPT-53689, Rev. 0, *Final Report for Tank 241-C-109 Liquid Samples In Support of Hard Heel Dissolution for Fiscal Year 2012*, was released on November 5, 2012.
- RPP-RPT-53755, Rev. 0, *Final Report for Tank 241-AN-106 Post-Sluicing Grab Samples in Support of Corrosion Mitigation During Tank 241-C-107 Retrieval*, was released on November 12, 2012.

- RPP-RPT-54004, Rev. 0, *Final Report for Tank 241-SY-102 Samples in Support of the Waste Chemistry Control, Strategic Planning and Waste Compatibility Program,s* was released on November 19, 2012.

**Planned Action within the next Six Months:**

- Tank Sampling
  - Tank 241-AY-102A Annulus leak detection pit is scheduled for December 2012.
  - Tank 241-AW-106 grab sampling for the evaporator is currently scheduled for December 2012.
  - Tank 241-C-104 Off Riser Sampling System (ORSS) sampling for closure is currently scheduled for January 2013.
  - Tank 241-AY-102A Annulus leak detection pit is scheduled for January 2013.
  - Tank 241-SY-102 grab sampling for chemistry control is currently scheduled for January 2013.
  - Tank 241-AN-101 grab sampling for chemistry control is currently scheduled for March 2013.
  - Tank 241-C-109 ORSS sampling for closure is currently scheduled for March 2013.
  - Tank 241-AN-102 grab sampling for chemistry control is currently scheduled for April 2013.
- BBI Updates: The following tanks have been identified for updates in FY13 Quarter 1. The BBI updates will be released in January 2013.
 

▪ 241-AN-101	▪ 241-AW-106
▪ 241-AN-106	▪ 241-AZ-102
▪ 241-AP-101	▪ 241-C-107
▪ 241-AP-102	▪ 241-C-109
▪ 241-AP-105	▪ 241-C-109
- Data Quality Objectives (DQO)
  - A DQO for Phase 1 Testing of Tanks AN-102 and AN-107 Sr/TRU Precipitation Process is due to be released in December 2012.
  - A DQO on a Solubility Model is due to be released in January 2013.

**Issues:**

None.

## TANK OPERATIONS CONTRACT (TOC) OVERVIEW

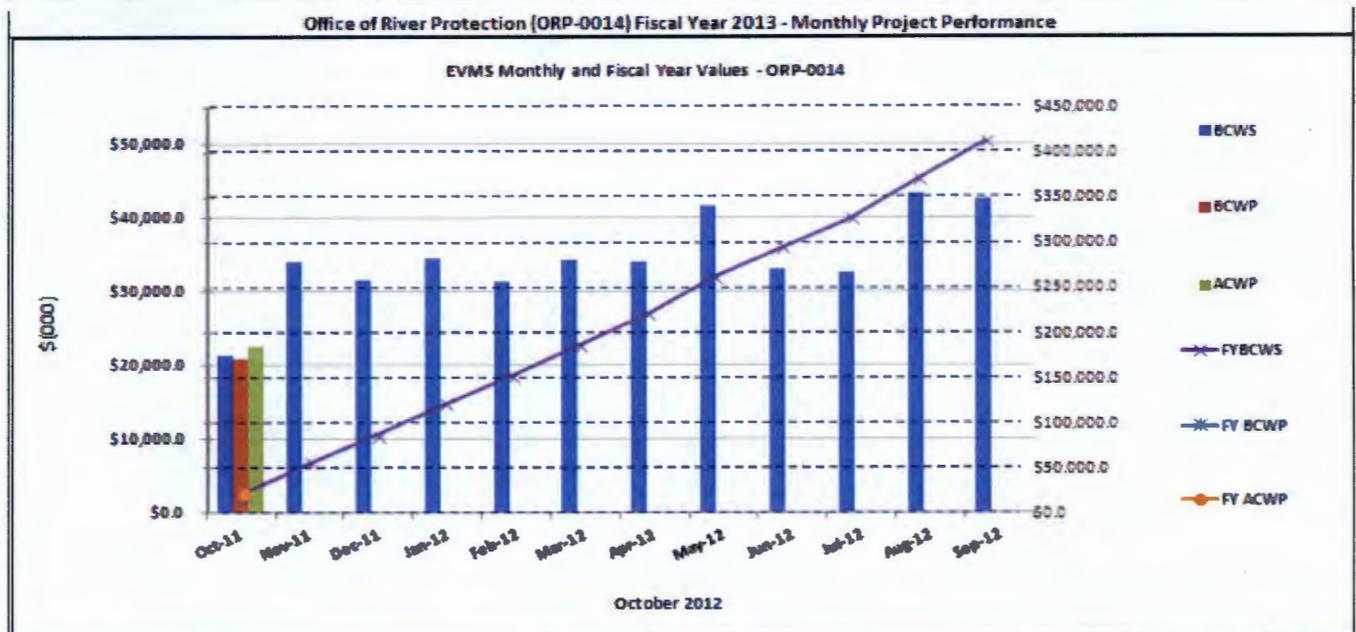
### Project Performance

The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing Tri-Party Agreement Milestones.

As of October 31, 2012, Washington River Protection Solutions LLC (WRPS) worked 5,483,032 hours (569 days) without a Lost Time Workday Injury and 457,042 hours (49 days) without a Recordable case. There were no Days Away, Restricted, or Transferred (DART) or Recordable cases in October.

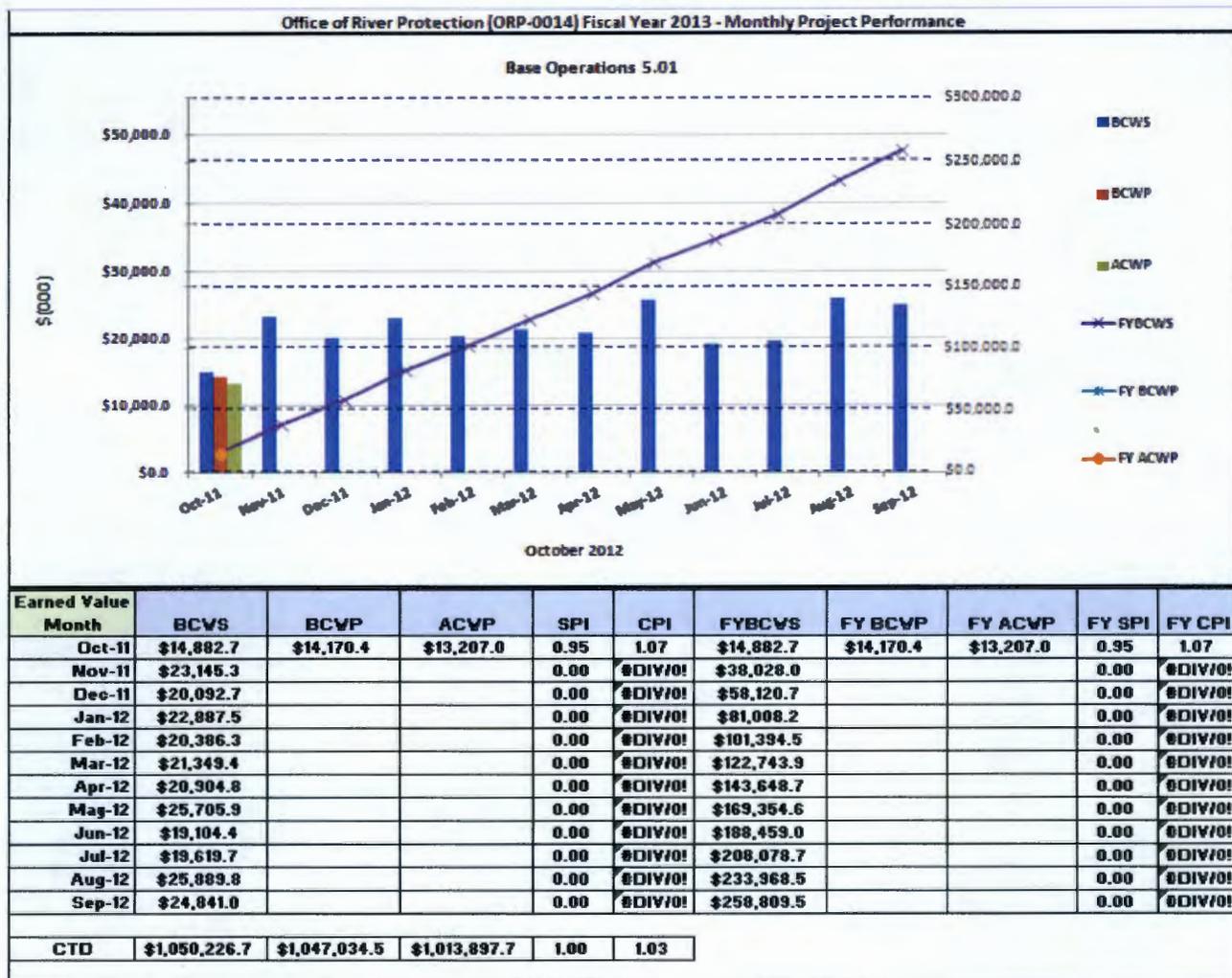
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	21,350.5	20,911.7	22,382.9	(438.8)	(1,471.2)	0.98	0.93			
FYTD	21,350.5	20,911.7	22,382.9	(438.8)	(1,471.2)	0.98	0.93	413,742.8	393,463.1	20,279.7
CTD	1,625,450.6	1,619,787.9	1,547,528.5	(5,662.7)	72,259.4	1.00	1.05	6,991,135.1	6,904,625.7	86,509.4

Red shaded cells indicates a SPI/CPI less than .90;  
 Green shaded cells indicate a SPI/CPI between .90 and .99; and  
 Blue shaded indicates a SPI/CPI greater than or equal to 1.0



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-11	\$21,350.5	\$20,911.7	\$22,382.9	0.98	0.93	\$21,350.5	\$20,911.7	\$22,382.9	0.98	0.93
Nov-11	\$34,076.0			0.00	#DIV/0!	\$55,426.5			0.00	#DIV/0!
Dec-11	\$31,570.9			0.00	#DIV/0!	\$86,997.4			0.00	#DIV/0!
Jan-12	\$34,406.8			0.00	#DIV/0!	\$121,404.2			0.00	#DIV/0!
Feb-12	\$31,368.0			0.00	#DIV/0!	\$152,772.2			0.00	#DIV/0!
Mar-12	\$34,220.0			0.00	#DIV/0!	\$186,992.2			0.00	#DIV/0!
Apr-12	\$34,063.9			0.00	#DIV/0!	\$221,056.1			0.00	#DIV/0!
May-12	\$41,538.9			0.00	#DIV/0!	\$262,595.0			0.00	#DIV/0!
Jun-12	\$33,011.8			0.00	#DIV/0!	\$295,606.8			0.00	#DIV/0!
Jul-12	\$32,421.1			0.00	#DIV/0!	\$328,027.9			0.00	#DIV/0!
Aug-12	\$43,192.1			0.00	#DIV/0!	\$371,220.0			0.00	#DIV/0!
Sep-12	\$42,522.8			0.00	#DIV/0!	\$413,742.8			0.00	#DIV/0!

CTD	\$1,625,450.6	\$1,619,787.9	\$1,547,528.5	1.00	1.05
-----	---------------	---------------	---------------	------	------



**Base Operations**

**Schedule Variance (\$993K):**

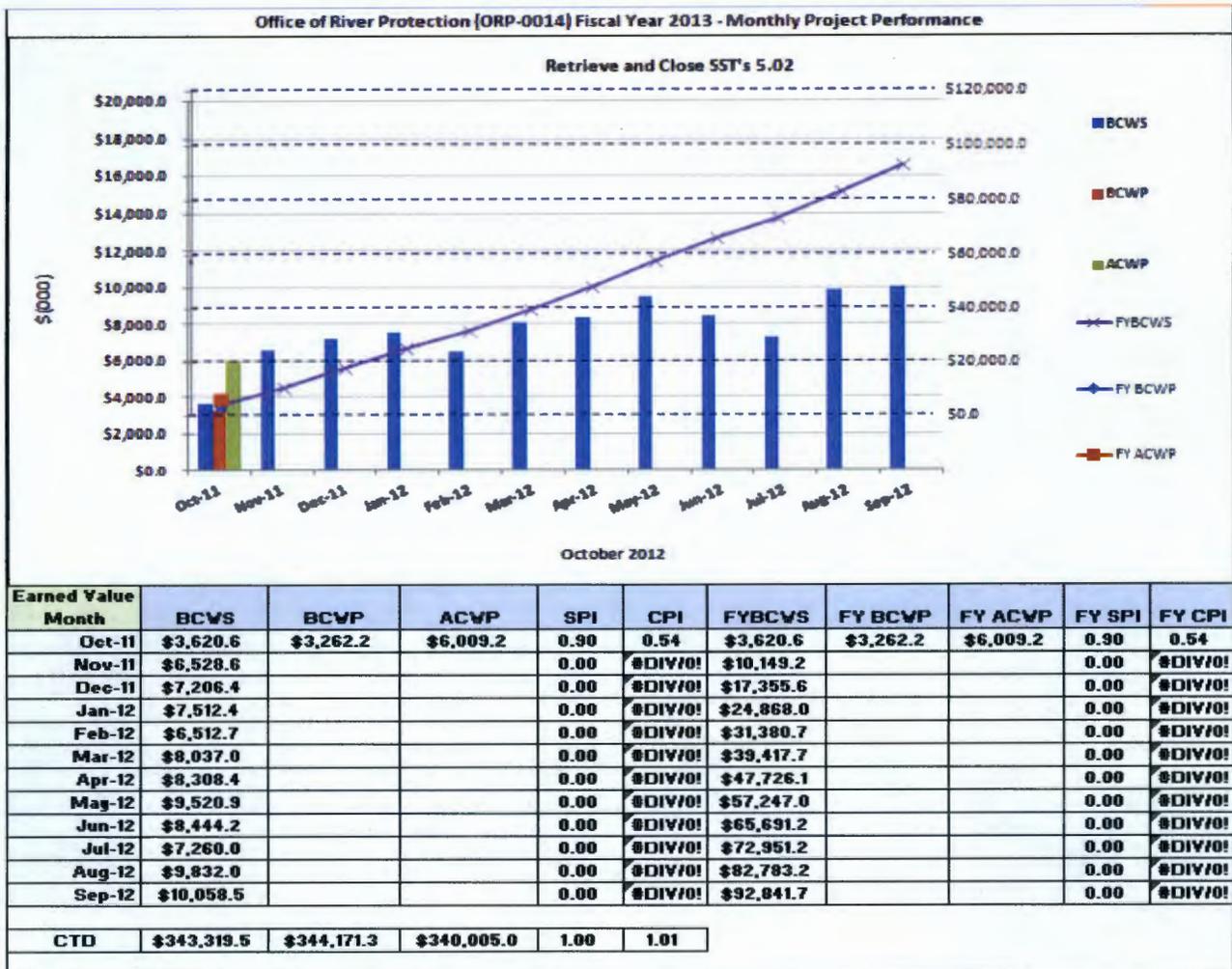
The unfavorable schedule variance is primarily due to:

- DST Infrastructure Upgrades, The CM unfavorable SV is primarily due to delayed installation of enclosures, thermocouples, and electrical components in the DST pits due to the need to further clarify the project scope with the system engineers and nuclear safety.
- 242-A Evaporator Operation and Maintenance, The CM unfavorable SV is due to delayed fabrication/modification of the 242-A Evaporator jumper, as resources were diverted to development of the higher priority 242-A documented safety analysis.

**Cost Variance (\$394K):**

The unfavorable cost variance is primarily due to:

- Base Operations Farms A/AX/AY/AZ, The CM unfavorable CV is due to the emergent workscope to identify the unknown substance within the annulus of DST AY-102. This work included contract support for development and testing of a mockup for the sampling techniques that would be utilized to gather the samples of the unknown substance. Additionally, video surveillances are being conducted twice a week to monitor any changes within the annulus.



**Single-Shell Tanks**

**Cost Variance (\$1.471K):**

The unfavorable cost variance is primarily due to:

- C-101 Retrieval. The CM unfavorable CV is due to: Under-accrual for the subcontractor that performed FY 2012 equipment removal and ventilation installation work; additional resources were required in design and engineering to implement the water hammer scope.

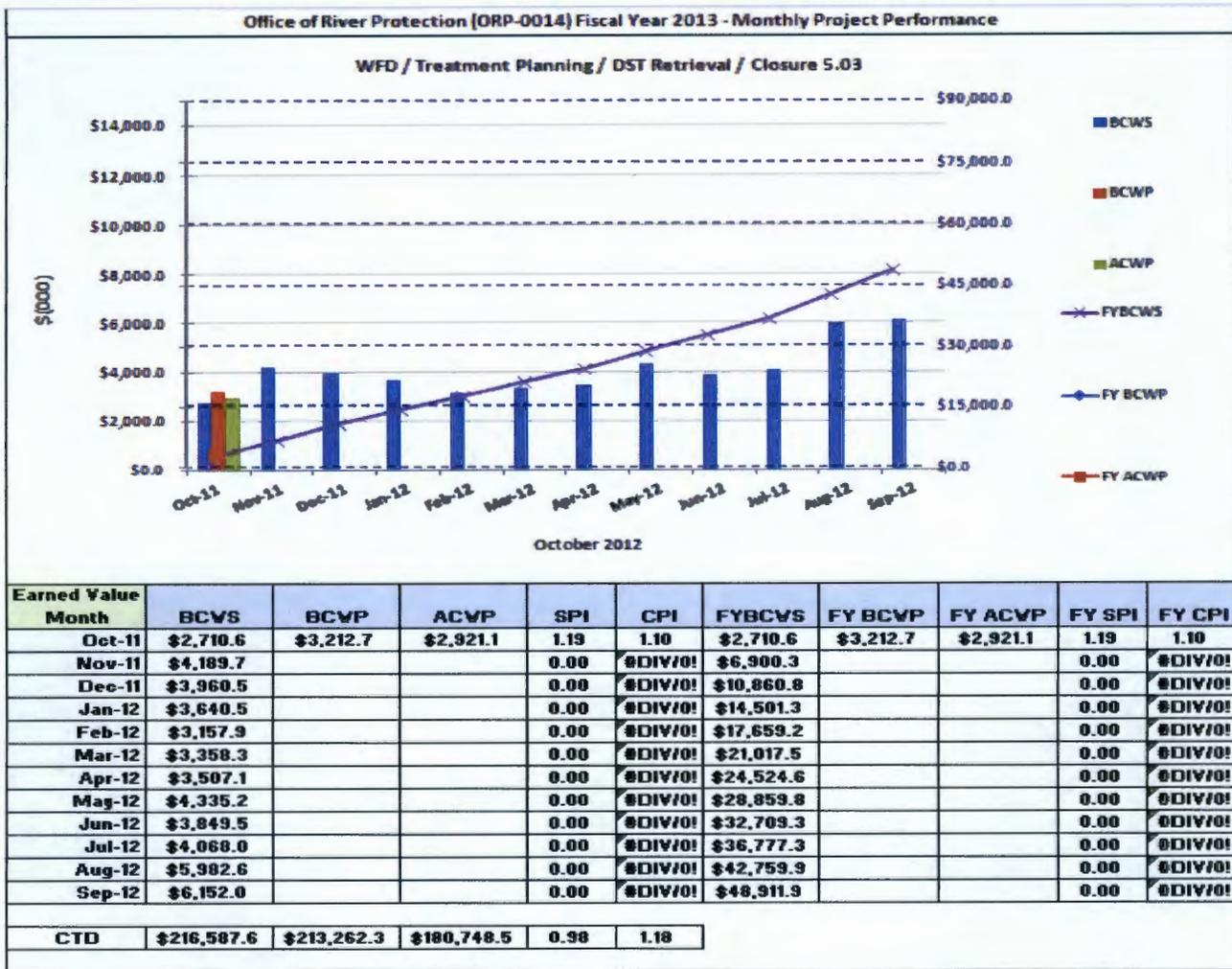
The unfavorable CV was partially offset by:

- C-111 Retrieval. The CM favorable CV is an anomaly due to the overhead costs and taxes of the two high-pressure Extended Reach Sluicing Systems that was paid the previous month.

**Schedule Variance (\$250K):**

The unfavorable schedule variance is primarily due to:

- C-107 Retrieval. The CM unfavorable SV is driven by suspension of hard heel retrieval operations until the AN-106 supernate pump is replaced in December. Pump replacement was required after discovery of a hydraulic leak.



**Waste Feed Delivery/Treatment/DST Retrieval Closure**

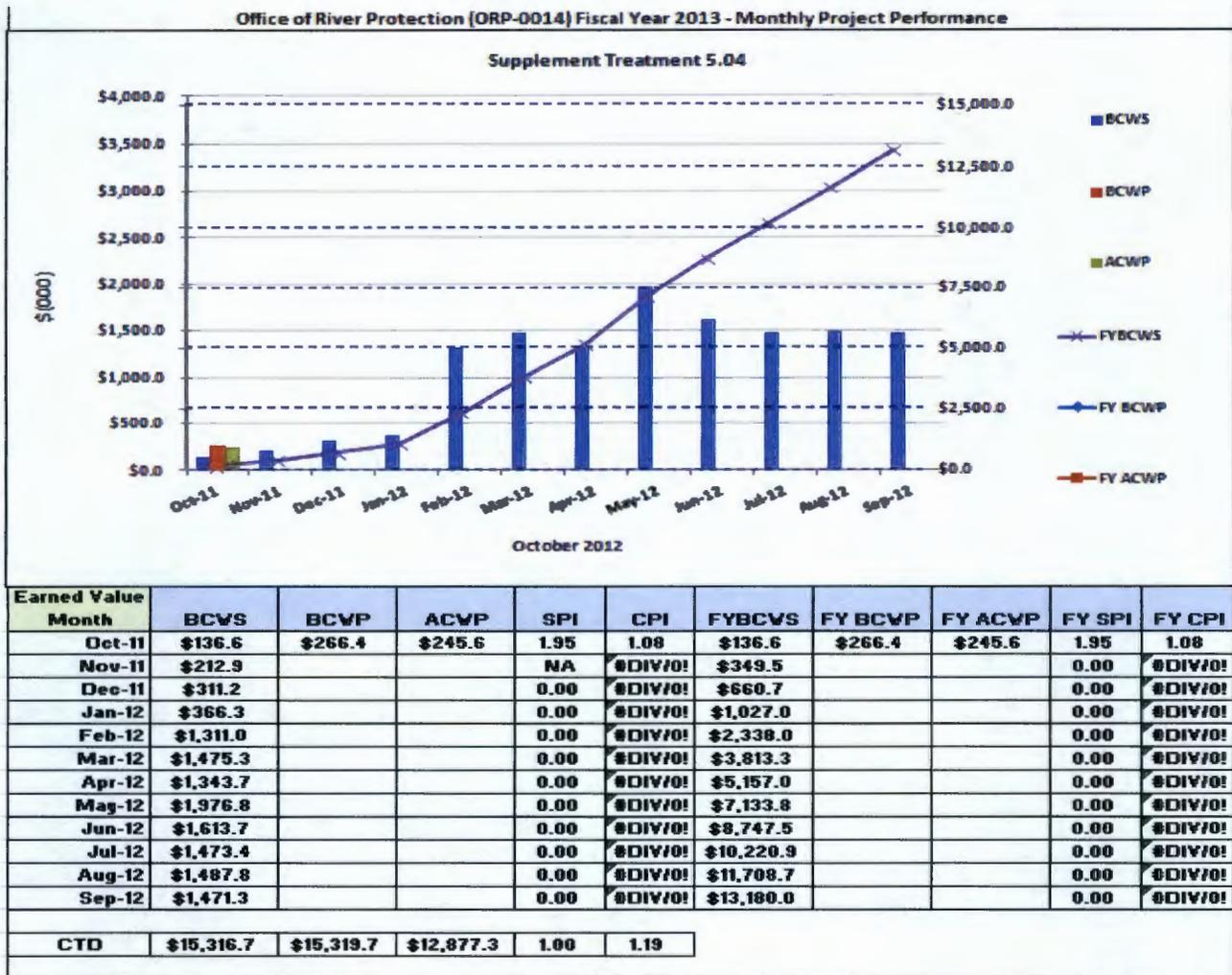
**Schedule Variance (\$180K):**

The unfavorable schedule variance is primarily due to:

- WFD [Waste Feed Delivery] Tank Mixing and Sampling, The CM unfavorable SV is due to slower progress in the small-scale demonstration, as this activity is being conducted in parallel with the scaled performance testing to support the DNFSB 2010-2, Pulse Jet Mixing at the Waste Treatment and Immobilization Plant, Implementation Plan.

The unfavorable SV was partially offset by:

- AY/AZ Ventilation System Upgrade, The CM favorable SV is due to schedule recovery of the ventilation system design. The design went through a revision that set the project back 5 months, but will ultimately allow early completion of the ventilation system upgrade. (317k)
- AY-102 Tech Maturation Mixing/Sampling Demonstration, The CM favorable SV is driven by schedule recovery of the AY-102 mixing demonstration design. The design was originally planned to complete in FY 2012, but was delayed due to implementing the safety-significant temperature and flammable gas monitoring. (233K)



*Supplemental Treatment*

- None

## Acquisition of New Facilities

**M-090-11, Complete the Negotiation of No More Than Two Canister Storage Facility Construction Interim Milestones, Due: 12/31/12, Status: Completed on 11/19/12.** TPA Change Control Form M-90-12-02, signed by ORP and Ecology on 11/19/12, created new interim milestone, M-090-13, to "Submit to Ecology, a Conceptual Design Report Package (Critical Decision-1) for the Interim Hanford Storage Project (storage of the first two years of Hanford Site Immobilized High-Level Waste from WTP operations) and a TPA Change Request (in accordance with TPA Action Plan Section 12.0) to submit to Ecology, a Preliminary Design Report package (Critical Decision-2)."

**M-090-13, Submit CD-1 for Interim Hanford Storage Project and TPA Change Request for CD-2 to Ecology, Due: 09/30/14, Status: On Schedule.**

**M-090-00, Acquire/modify facilities for storage of IHLW, Due: 12/31/2019, Status: On Schedule**

**M-047-06, Complete negotiation of no more than two interim milestones governing work necessary to support completion of M-047-00, Due: 06/30/12, Status: Completed on 11/19/12 (note this was initially Missed).** Change Control Form M-47- 12-02, that creates a new interim milestone, M-047-07, to "Submit to Ecology, a Conceptual Design Report package (Critical Decision-1) for the Secondary Liquid Waste Treatment Project and a TPA Change Request (in accordance with TPA Action Plan Section 12.0) to submit to Ecology, a Preliminary Design Report package (Critical Decision-2).

**M-047-07, Submit CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to Ecology, Due 09/30/14, Status: On Schedule.**

**M-047-00, Complete Work Necessary to provide facilities for management of secondary waste from the WTP, Due: 12/31/2022, Status: On Schedule**

### Significant Past Accomplishments:

On November 15, 2012, Ecology and ORP met and agreed on wording that met the requirements of both M-047-06 and M-090-11. On November 19, 2012, Ecology and ORP signed TPA Change Control Forms M-47-12-02 and M-90-12-02 establishing M-047-07 and M-090-13, respectively. ORP letter 12-ECD-0225 notified Ecology of completion of milestones M-047-06 and M-090-11.

### Significant Planned Actions in the Next Six Months:

None.

### Issues:

None.

## Supplemental Treatment and Part B Permit Applications

**M-062-40ZZ, Submit a one-time Tank Waste Supplemental Treatment Technologies report if a supplemental treatment technology is proposed other than a 2nd LAW, Due:**

10/31/2014, Status: On Schedule.

**M-062-45ZZ, Negotiate a one-time supplemental treatment selection, Due: 4/30/2015,**

Status: On schedule. Negotiations are not yet underway.

**M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due:**

4/30/2015, Status: On Schedule.

**M-062-31-T01, Complete final design and submit RCRA Part B permit mod request, Due:**

4/30/2016, Status: On schedule

**M-062-32-T01, Start construction of supplemental vitrification treatment facility and/or**

**WTP enhancements, Due: 4/30/2018, Status: On schedule**

**M-062-33-T01, Complete construction of supplemental vitrification treatment facility**

**and/or WTP enhancements, Due: 4/30/2021, Status: On schedule**

**M-062-45XX, No later than 12/31/2021, the DOE and Ecology shall complete negotiations**

**to establish a mechanism that will apply to resolve future disputes regarding the**  
**determinations in M-062-45, paragraphs 4 and 5, due: 12/31/2021, Status: On Schedule**

**M-062-34-T01, Complete hot commissioning of supplemental vitrification treatment facility**

**and/or WTP enhancements, Due: 12/30/2022, Status: On schedule**

**M-062-21, Annually, submit data that demonstrates operation of the WTP, Due: 2/28/2023,**

Status: On Schedule

**M-062-00, Complete Pretreatment Processing and Vitrification of HLW and LAW Tank**

**Wastes, Due: 12/31/2047, Status: On Schedule**

### Significant Past Accomplishments:

None

### Significant Planned Actions in the Next Six Months:

None

### Issues:

None

## System Plan

**M-062-40B, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2011, Status: Completed 10/24/2011 via DOE-ORP/ECY joint signature letter 11-TPD-087.**

**M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan, Due: 10/31/2013, Status: On Schedule**

**M-062-40D, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2014, Status: On Schedule**

**M-062-45-T01, Every six years, within six-months after last revision of the System Plan, negotiate tank waste retrieval sequencing, Due: 4/30/2015, Status: On Schedule**

### Significant Past Accomplishments:

DOE/ORP submitted the River Protection Project System Plan, Revision 6, with a joint Ecology signature to EPA on October 24, 2011.

During the May 2012 ORP/Ecology TPA Quarterly Meeting, it was stated that five proposed/draft scenarios/cases were submitted to Washington River Protection Solutions LLC (WRPS) for System Plan 6 Addendum (SP6A). No verbal or written direction has been provided to WRPS to begin simulation/modeling of the proposed/draft scenarios.

Since then, various circumstances have occurred, in which the five proposed/draft scenarios are no longer considered scenarios. No new scenarios have been proposed for SP6A. System Plan 7 is still on schedule to begin in the May-August 2013 time frame.

### Significant Planned Actions in the Next Six Months:

ORP and WRPS plan to meet with Ecology in January 2013 to discuss the issues with System Planning tools document, "External Technical Review for Evaluation of System Level Modeling and Simulation Tools in Support of Hanford Site Liquid Waste Process." Please see issues below.

### Issues:

In the October 23, 2012 TPA Project Managers meeting Dan Mc Donald, Ecology, informed ORP that system plan development for FY 14 could not move forward until ORP had read and responded to the comments in the headquarters document, "External Technical Review for Evaluation of System Level Modeling and Simulation Tools in Support of Hanford Site Liquid Waste Process." Ecology has asked for a meeting with ORP and WRPS as soon as they had read the document and are able to brief on where they think they are going with comment response development.

**WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) PROJECT**

<b>Number</b>	<b>Title</b>	<b>Due Date</b>	<b>Status</b>
M-062-01Z	Submit Semi-Annual TPA Project Compliance Report	01/31/2013	On Schedule

**\*SEE THE DECEMBER 2012 ORP CONSENT DECREE 08-5085-FVS  
MONTHLY SUMMARY REPORT FOR WTP FACILITY-SPECIFIC  
INFORMATION**