

FINAL

Office of River Protection
Tri-Party Agreement
Monthly Summary Report
January 2013



Office of River Protection
Tri-Party Agreement Milestone Review
January 2013

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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
Fiscal Year 2012				
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
Fiscal Year 2013				
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
Fiscal Year 2014				
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. Ecology responded via 12-NWP-190 authorizing ORP to begin field work while Ecology completed their review of the Work Plan.

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. 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-045-59, 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.
- Verification and validation was completed for the laboratory analysis of direct push soil samples previously obtained in C farm
- Ground penetrating radar was performed in C farm near the C-200s to support direct push work.

- Ground penetrating radar was performed in U farm, TX farm, and south of SX farm to support interim measures investigation described in the M-045-20 work plan.

Significant Planned Actions in the Next Six Months:

- Revise the TY Interim Surface Barrier Monitoring Plan, per approved TPA Change Notice 2012-09.
- Provide the Sample Analysis Plan for 241-TX Farm for M-045-21.
- Initiate direct push field work south of SX farm under the M-045-20 work plan.
- Initiate direct push field work in TX farm under the M-045-20 work plan.
- Initiate electrical resistivity field work in U farm 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:

- Completed post-retrieval sampling, analysis and reporting of results for tank C-108 in support of the M-045-86 retrieval data report.
- 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 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	MARS-High Pressure Water	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-High Pressure Water	-
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	Mechanical Waste Conditioning	High Pressure Water
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-105, 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. A change package is being discussed with Ecology.

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. A change package is being discussed with Ecology.

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. A change package is being discussed with Ecology.

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. A change package is being discussed with Ecology.

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. A change package is being discussed with Ecology.

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. A change package is being discussed with Ecology.

M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record (AOR) for SSTs, Due: 4/30/2014, Status: To Be Missed. A change package is being discussed with Ecology.

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:

- Work has resumed in the areas of SST structural analysis, sidewall coring, analysis of rebar from C-107, and SST leak cause and location analysis.

Significant Planned Actions in the Next Six Months:

- Continue discussions with Ecology regarding “To Be Missed” target dates and interim milestone impacts.
- Complete analysis of rebar from C-107 and complete M-045-91D-T01.

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 December 1 – December 31, 2012:

Accomplishments:

- Completed RPP-PLAN-53917, Rev. 0, *Sampling and Analysis Plan for Tank 241-C-102 Stack Chemical Emissions During Retrieval.*
- Completed RPP-PLAN-53006, Rev. 2, *Tank 241-AW-106 Grab Sampling and Analysis Plan in Support of Evaporator Campaign for Fiscal year 2013.*
- Completed RPP-53641, Rev. 0, *Data Quality Objectives for SR/TRU Precipitation Process Phase I Tests.*

- Completed grab sampling of Tank 241-AW-106 on December 17, 2012 in support of the evaporator campaign for Fiscal Year 2013.
- Completed grab sampling of AY102A Leak Detector Pit on December 11, 2012 in support of the compatibility program.
- RPP-RPT-54701, Rev. 0, *Final Report for Tank 241-AY-102 Annulus*, was released on December 10, 2012.
- RPP-RPT-53842, Rev. 0, *Final Report for Tank 241-AN-101 Liquid Grab Samples Taken After the Completion of C-104 Hard Heel Retrieval in support of Corrosion Mitigation* was released on December 3, 2012.

Planned Action within the next Six Months:

- Tank Sampling
 - 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 January 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-AN-106
 - 241-AP-101
 - 241-AP-102
 - 241-AP-105
 - 241-AW-106
 - 241-AZ-102
 - 241-C-107
 - 241-C-104
 - 241-C-109
- Data Quality Objectives (DQO)
 - A DQO on a Solubility Model is due to be released in January 2013.

Issues:

None.

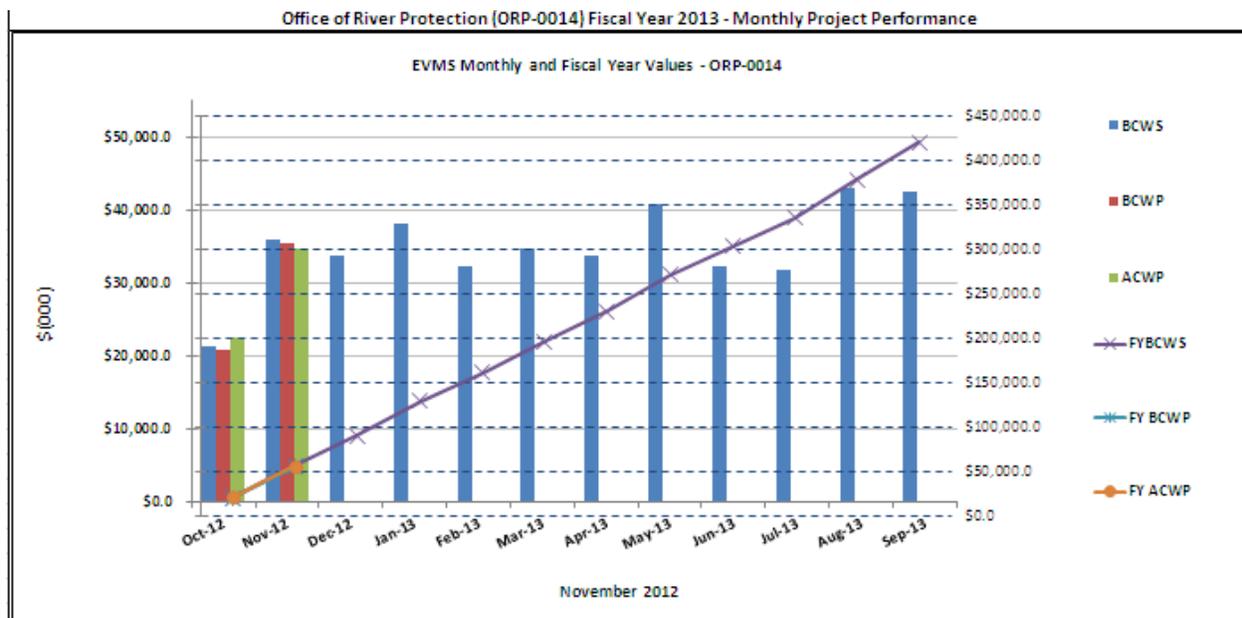
TANK OPERATIONS CONTRACT (TOC) OVERVIEW

Project Performance

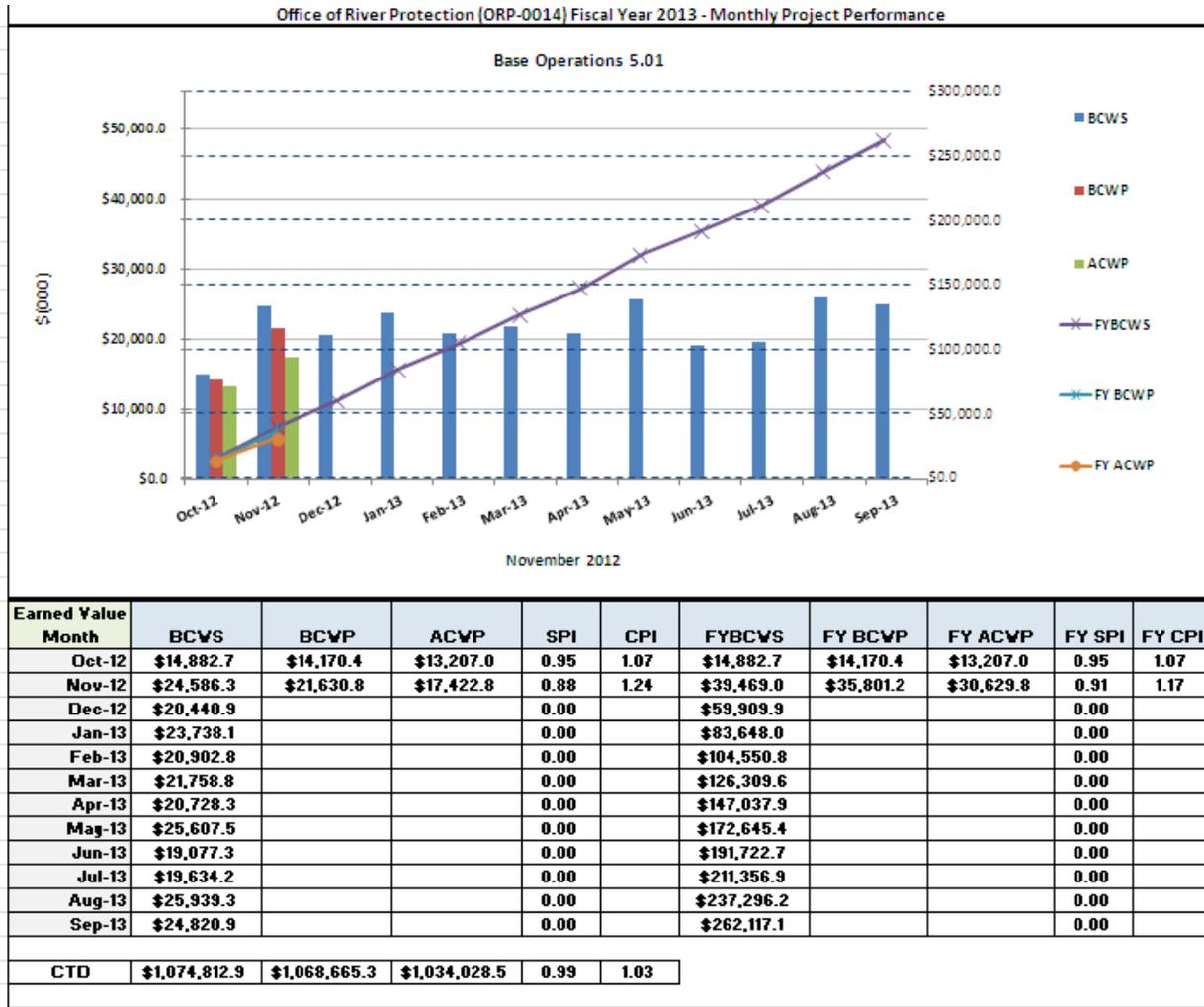
The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance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

As of November 30, 2012, Washington River Protection Solutions LLC (WRPS) worked 5,771,038 hours (599 days) without a Lost Time Workday Injury and 745,048 hours (79 days) without a Recordable case. There were no Days Away, Restricted, or Transferred (DART) or Recordable cases in November.

BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
35,319.2	34,775.1	(591.6)	544.1	0.98	1.02			
56,230.9	57,158.0	(1,030.4)	(927.1)	0.98	0.98	426,190.8	406,434.4	19,756.4
1,655,107.1	1,582,303.7	(6,254.3)	72,803.4	1.00	1.05	7,003,583.2	6,917,340.4	86,242.8



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FYBCWP	FYACWP	FY SPI	FY CPI
Oct-12	\$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-12	\$35,910.8	\$35,319.2	\$34,775.1	0.98	1.02	\$57,261.3	\$56,230.9	\$57,158.0	0.98	0.98
Dec-12	\$33,795.4			0.00		\$91,056.7			0.00	
Jan-13	\$38,179.6			0.00		\$129,236.3			0.00	
Feb-13	\$32,248.7			0.00		\$161,485.0			0.00	
Mar-13	\$34,599.7			0.00		\$196,084.7			0.00	
Apr-13	\$33,773.8			0.00		\$229,858.5			0.00	
May-13	\$40,892.1			0.00		\$270,750.6			0.00	
Jun-13	\$32,288.5			0.00		\$303,039.1			0.00	
Jul-13	\$31,800.4			0.00		\$334,839.5			0.00	
Aug-13	\$42,997.4			0.00		\$377,836.9			0.00	
Sep-13	\$42,434.3			0.00		\$420,271.2			0.00	
CTD	\$1,661,361.4	\$1,655,107.1	\$1,582,303.7	1.00	1.05					



Base Operations

Schedule Variance (\$2,955.5K):

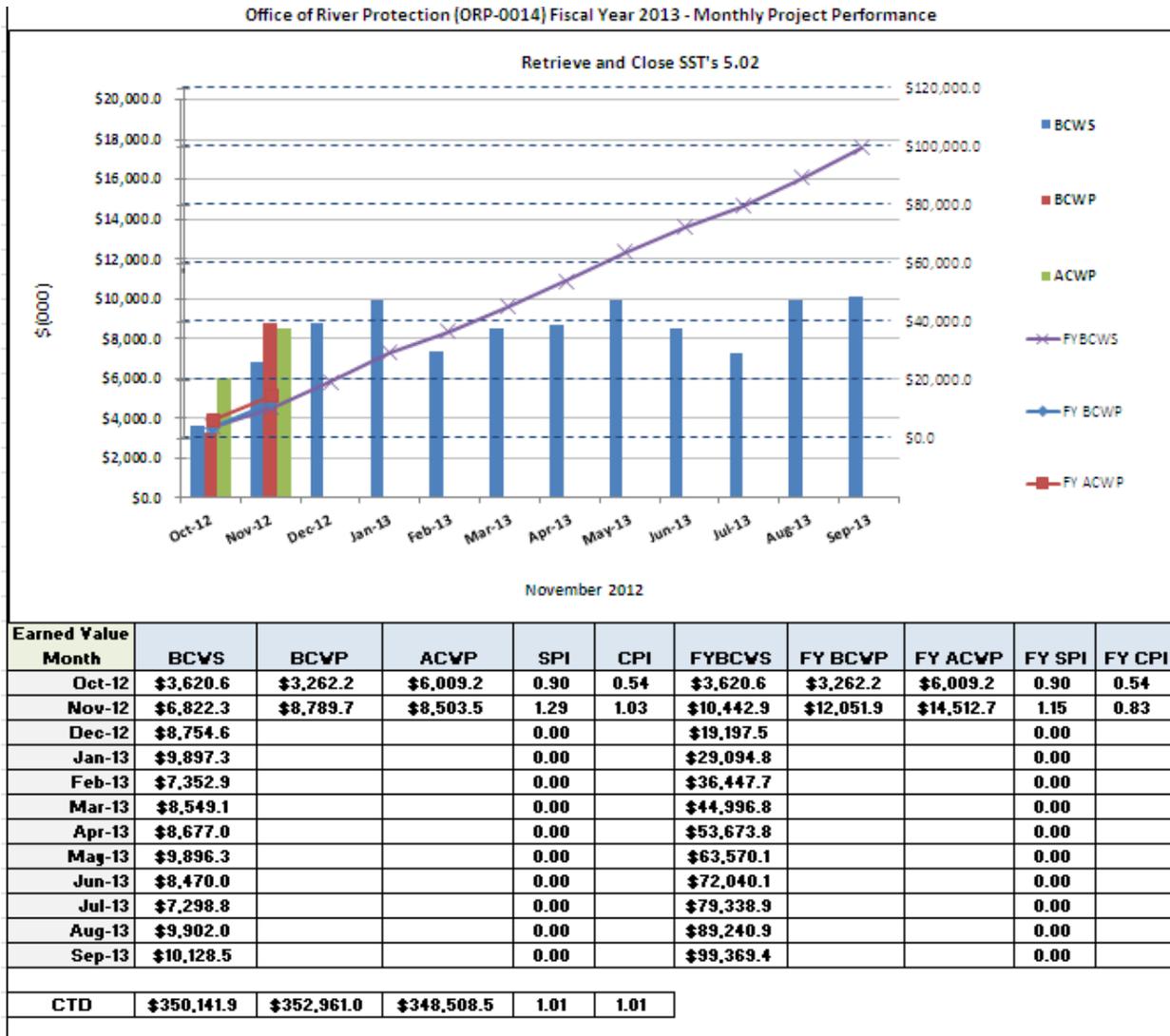
The unfavorable schedule variance is primarily due to:

- DST Infrastructure Upgrades, the CM unfavorable SV is due to delays to the release of the design media, delayed installation of enclosures, thermocouples, and electrical components in the DST pits.
- Additional ground scans required for underground electrical components to support excavation of risers necessary to the SY-102 annulus inspections.

Cost Variance \$1,500.0K:

The favorable cost variance is primarily due to:

- Central Engineering using less subcontract support.
- Base Ops Process & Control Systems using fewer resources for freeze protection and evaporator DSA activities.
- Base Operations Farms S/SX/SY/T/TX/TY/U due to fewer corrective maintenance activities performed during the month.
- Industrial Hygiene Program due to implementing the new sampling model reducing the number of samples required.



Retrieval and Close Single-Shell Tanks

Cost Variance \$1,967K:

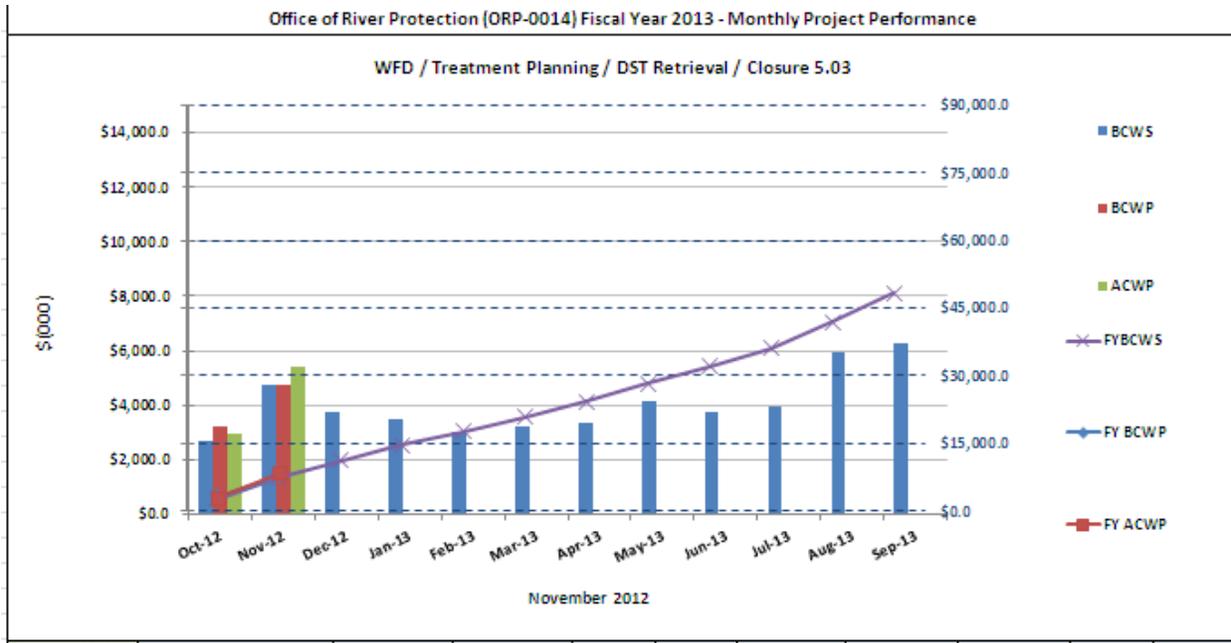
The favorable cost variance is primarily due to:

- DOE-ORP and Ecology conducting a workshop to select the hard heel retrieval strategy for C-112 Retrieval, which negated the need for sampling.
- C-Farm Retrieval Maintenance due to the schedule recovery of the AN-101 pump and waste decant.

Schedule Variance \$286K:

The favorable schedule variance is primarily due to:

- DOE-ORP and Ecology conducting a workshop to select the hard heel retrieval strategy for C-112 Retrieval, which negated the need for sampling.



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-12	\$2,710.6	\$3,212.7	\$2,921.1	1.19	1.10	\$2,710.6	\$3,212.7	\$2,921.1	1.19	1.10
Nov-12	\$4,729.6	\$4,729.6	\$5,435.7	1.00	0.87	\$7,440.2	\$7,942.3	\$8,356.8	1.07	0.95
Dec-12	\$3,764.2			0.00		\$11,204.4			0.00	
Jan-13	\$3,476.4			0.00		\$14,680.8			0.00	
Feb-13	\$2,991.4			0.00		\$17,672.2			0.00	
Mar-13	\$3,183.1			0.00		\$20,855.3			0.00	
Apr-13	\$3,354.2			0.00		\$24,209.5			0.00	
May-13	\$4,153.5			0.00		\$28,363.0			0.00	
Jun-13	\$3,727.7			0.00		\$32,090.7			0.00	
Jul-13	\$3,945.8			0.00		\$36,036.5			0.00	
Aug-13	\$5,937.2			0.00		\$41,973.7			0.00	
Sep-13	\$6,262.4			0.00		\$48,236.1			0.00	
CTD	\$220,877.0	\$217,991.9	\$186,184.3	0.99	1.17					

Waste Feed Delivery/Treatment/DST Retrieval Closure

Schedule Variance \$440K:

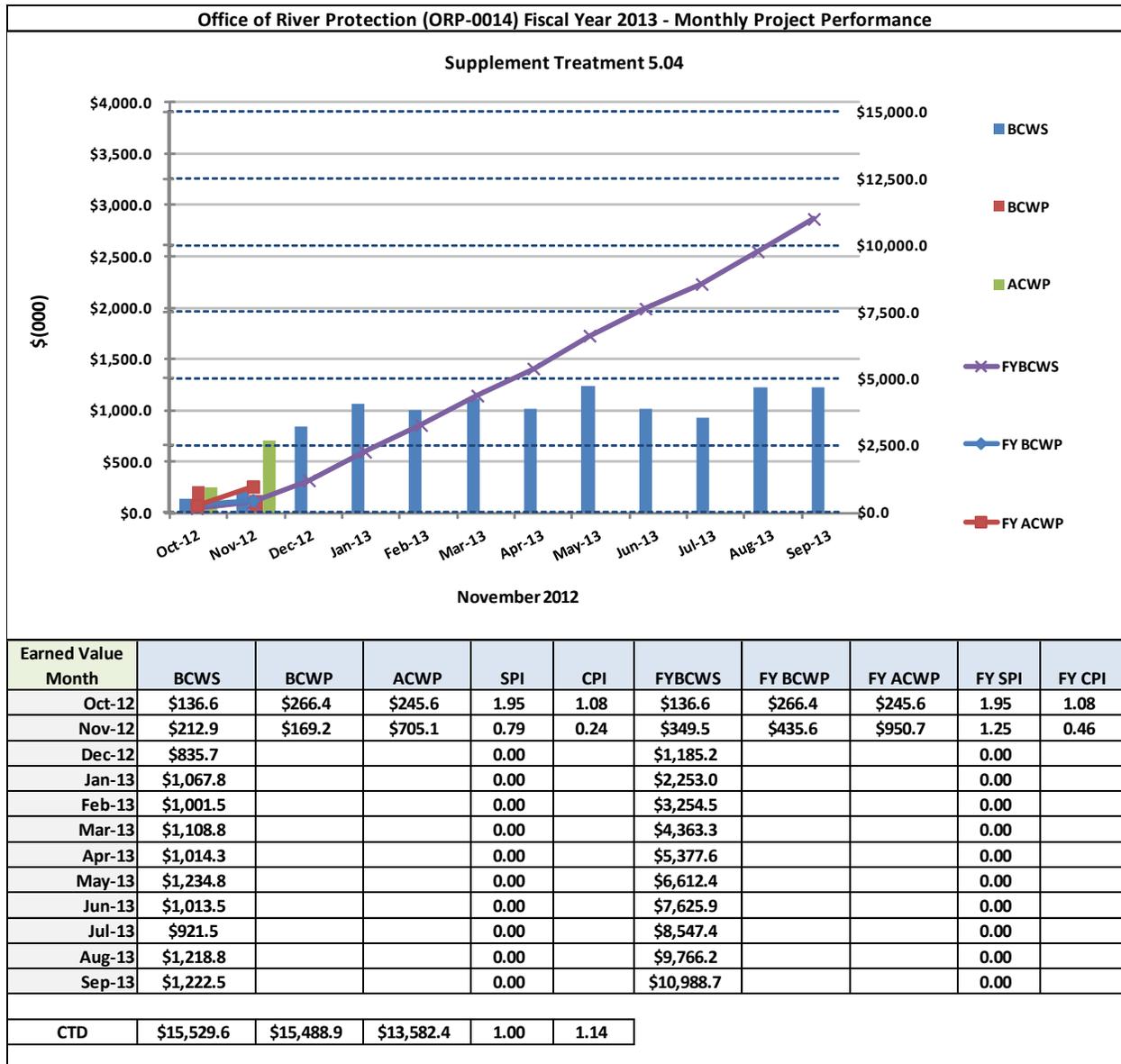
The favorable schedule variance is primarily due to:

- WFD System Performance schedule recovery in SSMD scaled performance testing.

Cost Variance (\$706.2K):

The unfavorable cost variance is primarily due to:

- WFD System Performance additional labor costs associated with the full scale transfer pump limits of performance testing and project support.



Supplemental Treatment

Schedule Variance \$43.6K:

- None

Cost Variance (\$535.9K):

- Immobilization – Maturation due to reduce scope that is pending deletion. C-112 Retrieval conducting a workshop with DOE-ORP and Ecology to select the hard heel retrieval strategy, which negated the need for sampling.

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

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

***SEE THE JANUARY 2013 ORP CONSENT DECREE 08-5085-FVS
MONTHLY SUMMARY REPORT FOR WTP FACILITY-SPECIFIC
INFORMATION**