

FINAL

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



**Office of River Protection
Tri-Party Agreement Milestone Review
July 2013 (Monthly Summary Report/Project EVMS reflects May 2013 information)**

Page	Topic	Leads
1	Administrative Items / Milestone Status	James Lynch / Dan McDonald / Jeff Lyon
2	System Plan; M-62-40	DaBrisha Smith / Jeff Lyon / Dan McDonald
3	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald
4	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald
5	242-A Evaporator Status	Ron Koll / Jeff Lyon
6	SST Integrity Assurance; M-45-91	Jeremy Johnson/ Jim Alzheimer
7	In Tank Characterization and Summary	Billie Mauss / Michael Barnes
9	Tank Operations Contract (TOC) Overview	Kathy Higgins / Jeff Lyon
14	Single-Shell Tank Corrective Action; M-45, -50, -60	Chris Kemp / Jeff Lyon
15	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series	Chris Kemp / Jeff Lyon
17	Tank Waste Retrieval Work Plan Status	Chris Kemp / Jeff Lyon
18	Tank in TPA Appendix H Status Tank Retrievals with Individual Milestones	Chris Kemp / Jeff Lyon
CD	WTP Overall TPA Summary and Milestone Status, *see the June 2013 ORP Consent Decree 08-5085-FVS Monthly Summary Report for WTP facility-specific information	Delmar Noyes / Dan McDonald

Milestone	Title	Due Date	Completion Date	Status
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	01/31/2013	1/31/2013	Completed
M-045-21	Submit Sampling and Analysis Plan for 241-TX Tank Farm	03/31/2013	3/11/2013	Completed
M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	05/31/2013	5/21/2013	Completed
M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	05/31/2013	5/02/2012	Completed
M-045-56I	Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July)	07/31/2013	06/12/2013	Completed
M-062-01AA	Submit Semi-Annual TPA Project Compliance Report	07/31/2013		On Schedule
M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	09/30/2013		On Schedule
Fiscal Year 2014				
M-062-40C	Select a Minimum of Three Scenario's for the System Plan	10/31/2013		On Schedule
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
Fiscal Year 2015				
M-062-40D	Submit System Plan	10/31/2014		On Schedule
M-062-40ZZ	Submit One Time Tank Waste Supp Treatment Technologies Report	10/31/2014		On Schedule
M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	10/31/2014		On Schedule
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	12/26/2014		On Schedule
M-045-61	Phase 2 RCRA Facility Investigation/Corrective Measures Study	12/31/2014		To Be Missed
M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	01/30/2015		On Schedule
M-045-91F-T02	Provide Report of Liner Failures for SSTs	03/31/2015		On Schedule
M-062-45-T01	Comp. Neg's 6-Mo After Last Issuance of System Plan	04/30/2015		On Schedule
M-062-45-ZZ	Negotiate a One Time Supplemental Treatment Selection	04/30/2015		On Schedule

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2015 Continued				
M-062-45-ZZ-A	Convert M-062-31-T01 Thru M-062-34-T01 to Interim Milestones	04/30/2015		On Schedule
M-045-91F	Provide Summary Conclusions Report on Leak Integrity	06/30/2015		On Schedule
M-045-62	Phase 2 Corrective Measures Implementation Work Plan For WMA C	06/30/2015		To Be Missed
M-045-92O	Barrier 3 Design/Monitoring Approval From Ecology	06/30/2015		On Schedule
M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	07/28/2015		On Schedule
M-045-56K	Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July)	07/31/2015		On Schedule
M-045-91H	Submit Change Pkg (if necessary) to est. Additional Milestones	07/31/2015		On Schedule
M-045-82	Submit Comp. Permit Modification Request for Tiers 1,2,3	09/30/2015		To Be Missed

System Plan

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:

WRPS presented a demonstration of the System Planning model to Ecology and ORP on 06/25/2013. Demonstration included all components necessary to model a requested System Plan 7 scenario, as well as, a demonstration of the HTWOS model

Significant Planned Actions in the Next Six Months:

ORP and Ecology will jointly begin defining the System Plan 7 scenarios in the July-August 2013 time frame. A series of framing sessions, including Ecology, ORP and WRPS, have been scheduled for the months of July, August and September. The defined scenarios milestone (M-062-40C) is due on 10/31/2013.

Issues:

None.

Acquisition of New Facilities

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. Created by TPA Change Control Form M-90-12-02, signed by ORP and Ecology on 11/19/12, 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-090-00, Acquire/modify facilities for storage of IHLW, Due: 12/31/2019, Status: On Schedule

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. Created by TPA Change Control Form M-47-12-02, signed by ORP and Ecology on 11/19/12, 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-047-00, 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 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:

At the January 2013 TPA PMM meeting, ORP stated DOE and Ecology are currently in discussions to move out the due dates for M-062-40ZZ and M-062-45ZZ (current due dates 10/31/2014 and 4/30/2015, respectively).

ORP provided a draft change package for these milestones on February 12, 2013. Ecology provided comments on May 9, 2013. ORP is vetting these internally for response.

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.
FY10	10-02	AW-106	AW-106	Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
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	NA	NA	NA	No campaigns to be conducted in FY13 due to ongoing 242-A and Tank Farm facility upgrades and revision to the 242-A Documented Safety Analysis (DSA).
FY14	14-01	AP-107	AP-107	Estimated start late November 2013. Requires two (2) passes to achieve waste volume reduction.
FY14	14-02	AW-106	AP-107	Estimated start late February 2014.
FY14	14-03	AZ-102	AP-103	Estimated start June 2014.
FY15	15-01	AW-106	AP-103	Estimated start October 2014
FY15	15-02	AZ-102	AP-103	Estimated start March 2015

SST Integrity Assurance

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-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: 10/31/2014, Status: On schedule.

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: 12/26/2014, 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: 1/30/2015, Status: On schedule

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: 1/31/2015, Status: On schedule.

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: 3/31/2015, Status: On schedule.

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: 6/30/2015 Status: On schedule.

M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record (AOR) for SSTs, Due: 7/28/2015, 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:

- Change control form M-45-13-01 was signed by Ecology on June 27, 2013, approving changes to the SST Integrity Program.

Significant Planned Actions in the Next Six Months:

- Continue work for delivery of SST dome deflection surveys (M-045-91E).

Issues:

- None.

In Tank Characterization and Summary

For the period from June 1 – June 30, 2013:

Accomplishments:

- Completed RPP-PLAN-54751, Rev. 0, *Tank Sampling and Analysis Plan for Tank 241-C-112 Hard Heel Dissolution*.
- Completed RPP-PLAN-53639, Rev. 0, *Grab Sampling and Analysis Plan for Tank 241-AN-102 Chemical Adjustment Sampling*
- Completed RPP-RPT-46792, Rev. 04, *Derivation of Best-Basis Inventory for Tank 241-AW-102 as of April 1, 2013*.
- Completed RPP-RPT-48103, Rev. 1, *Derivation of Best-Basis Inventory for Tank 241-AP-107 as of April 1, 2013*.
- RPP-RPT-55185, Rev. 0, *Final Report for Tank 241-C-104 Waste Solid Samples in Support of Tank Closure*, was released on June 12, 2013.
- Completed grab sampling of tank 241-AY-101 on June 12, 2013 per RPP-PLAN-54804, Rev. 1, *Tank 241-AY-101 Grab Sampling and Analysis Plan*. 13 samples and a field blank were collected.
- Completed grab sampling of the 241-AY-102A Annulus Leak Detection Pit on June 25, 2013 per RPP-PLAN-54083, *FY2013 Grab Sampling and Analysis Plan for the 241-AY-102A Tank Annulus Leak Detection Pit*, Characterization Change Notice CCN-13-11. 3 samples were collected.
- Started grab sampling tank 241-AN-102 per RPP-PLAN-53639, Rev. 0, *Grab Sampling and Analysis Plan for Tank 241-AN-102 Chemical Adjustment Sampling*.

Planned Action within the next Six Months:

- Tank Sampling
 - Tank AZ-301 Catch Tank grab sampling for waste acceptance criteria is scheduled to be sampled in July, 2013.
 - Tank 241-C-112 grab sampling during hard heel dissolution is currently scheduled for August/September 2013.
 - Tank 241-C-107 ORSS sampling is currently scheduled for July/August 2013.
 - Tank 241-C-110 closure sampling using Fold Track Operations to push samples to a clam shell sampler is scheduled for October/November 2013.
 - Tank 241-AN-106 grab sampling for chemistry control is currently scheduled for September/October 2013.

- BBI Updates
 - The following tanks have been identified for updates in FY13 Quarter 3. The BBI updates will be released in July 2013 except for tanks 241-AN-101 and 241-C-101 that were released in May and AW-102 and AP-107 that were released in June.
 - 241-AN-102
 - 241-AN-106
 - 241-AW-103
 - 241-AW-106
 - 241-AY-101
 - 241-SY-102

- Data Quality Objectives (DQO)
 - A DQO on a Solubility Model is due to be released in July 2013.
 - A revision to the Tank Farms Waste Compatibility Program DQO is due to be released in July 2013.

Issues:

None.

TANK OPERATIONS CONTRACT (TOC) OVERVIEW

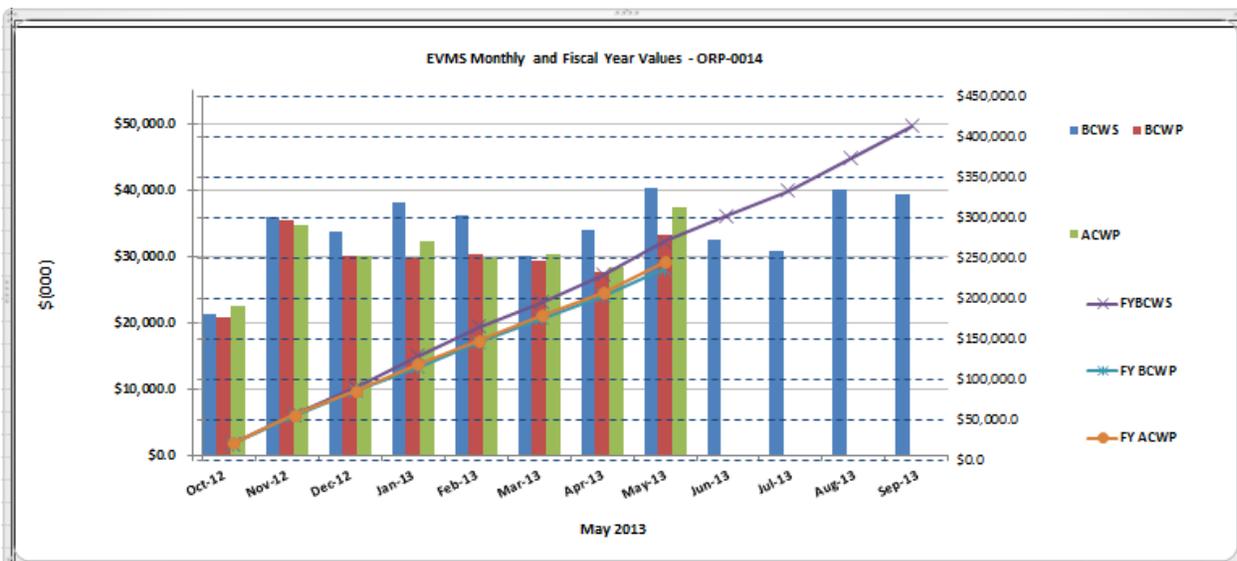
Project Performance

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.

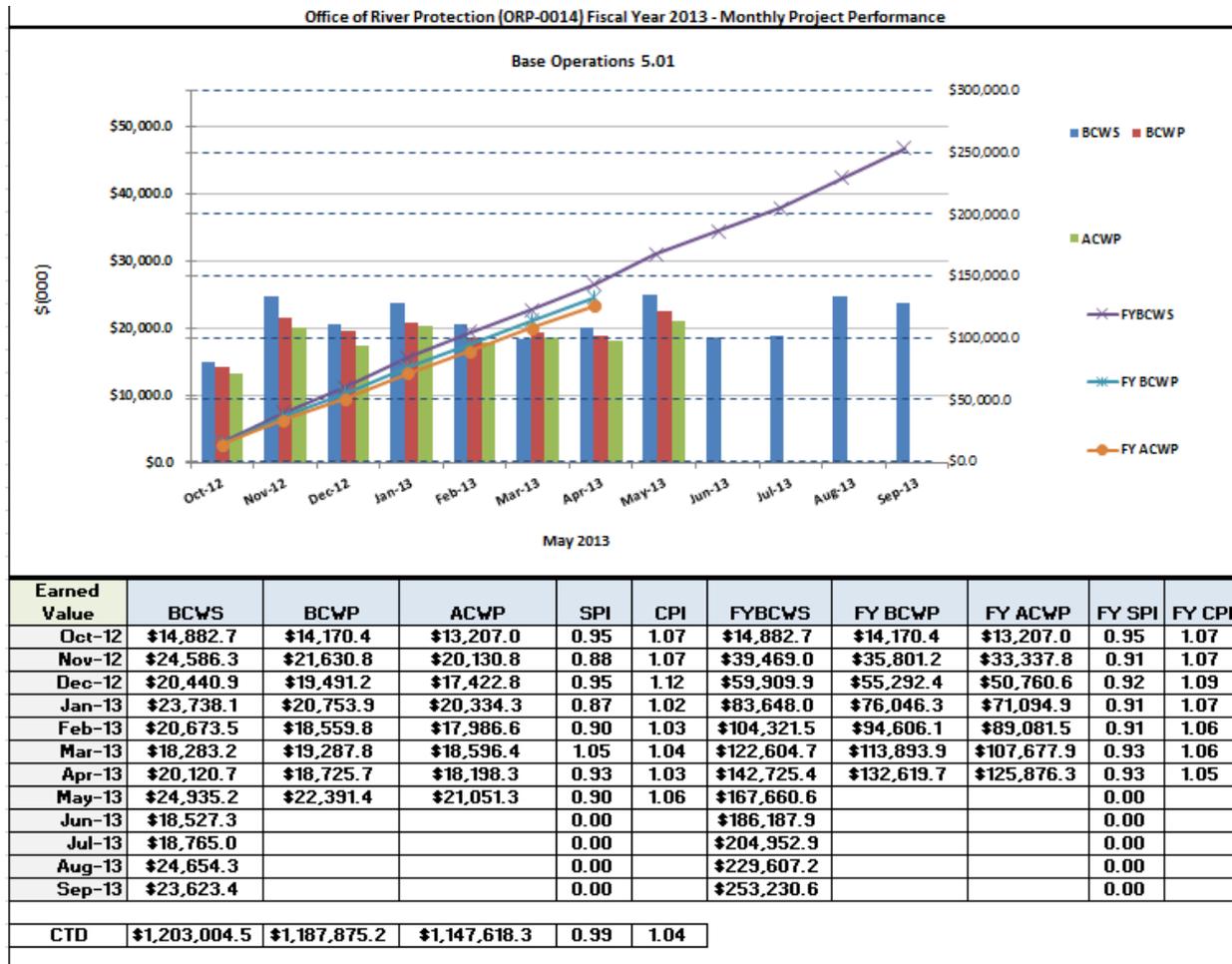
As of May, 2013, Washington River Protection Solutions LLC (WRPS) worked 441,842 hours (46 days) without a Lost Time Workday Injury and (46 days) without a recordable case.

	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	40,387.8	33,112.9	32,460.5	(7,274.9)	652.4	0.82	1.02			
FYTD	269,751.6	236,378.6	240,235.8	(33,373.0)	(3,857.2)	0.88	0.98	412,345.8	381,120.6	31,225.2
CTD	1,873,851.6	1,835,254.7	1,765,381.4	(38,596.9)	69,873.3	0.98	1.04	7,015,882.6	6,946,572.6	69,310.0

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	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	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	\$30,044.9	\$29,940.1	0.89	1.00	\$91,056.7	\$86,275.8	\$87,098.1	0.95	0.99
Jan-13	\$38,179.6	\$29,766.1	\$32,202.8	0.78	0.92	\$129,236.3	\$116,041.9	\$119,300.9	0.90	0.97
Feb-13	\$36,167.5	\$30,290.9	\$29,773.7	0.84	1.02	\$165,403.8	\$146,332.8	\$149,074.6	0.88	0.98
Mar-13	\$30,026.2	\$29,261.1	\$30,306.9	0.97	0.97	\$195,430.0	\$175,593.9	\$179,381.5	0.90	0.98
Apr-13	\$33,933.7	\$27,671.7	\$28,393.7	0.82	0.97	\$229,363.7	\$203,265.6	\$207,775.2	0.89	0.98
May-13	\$40,387.8	\$33,112.9	\$37,267.1	0.82	0.89	\$269,751.5	\$236,378.5	\$245,042.3	0.88	0.96
Jun-13	\$32,423.8			0.00		\$302,175.3			0.00	
Jul-13	\$30,773.6			0.00		\$332,948.9			0.00	
Aug-13	\$39,989.2			0.00		\$372,938.1			0.00	
Sep-13	\$39,407.6			0.00		\$412,345.7			0.00	
CTD	\$1,833,463.8	\$1,802,141.8	\$1,732,920.9	0.98	1.04					



Base Operations

Schedule Variance (\$2,544K)

The unfavorable schedule variance is due to delays in the following activities as a result of sequestration:

- SST Sidewall Coring Project
- SST Type IV Analysis of Record due to sequestration
- SST Benchmark Repairs sequestration
- SST Expert Panel

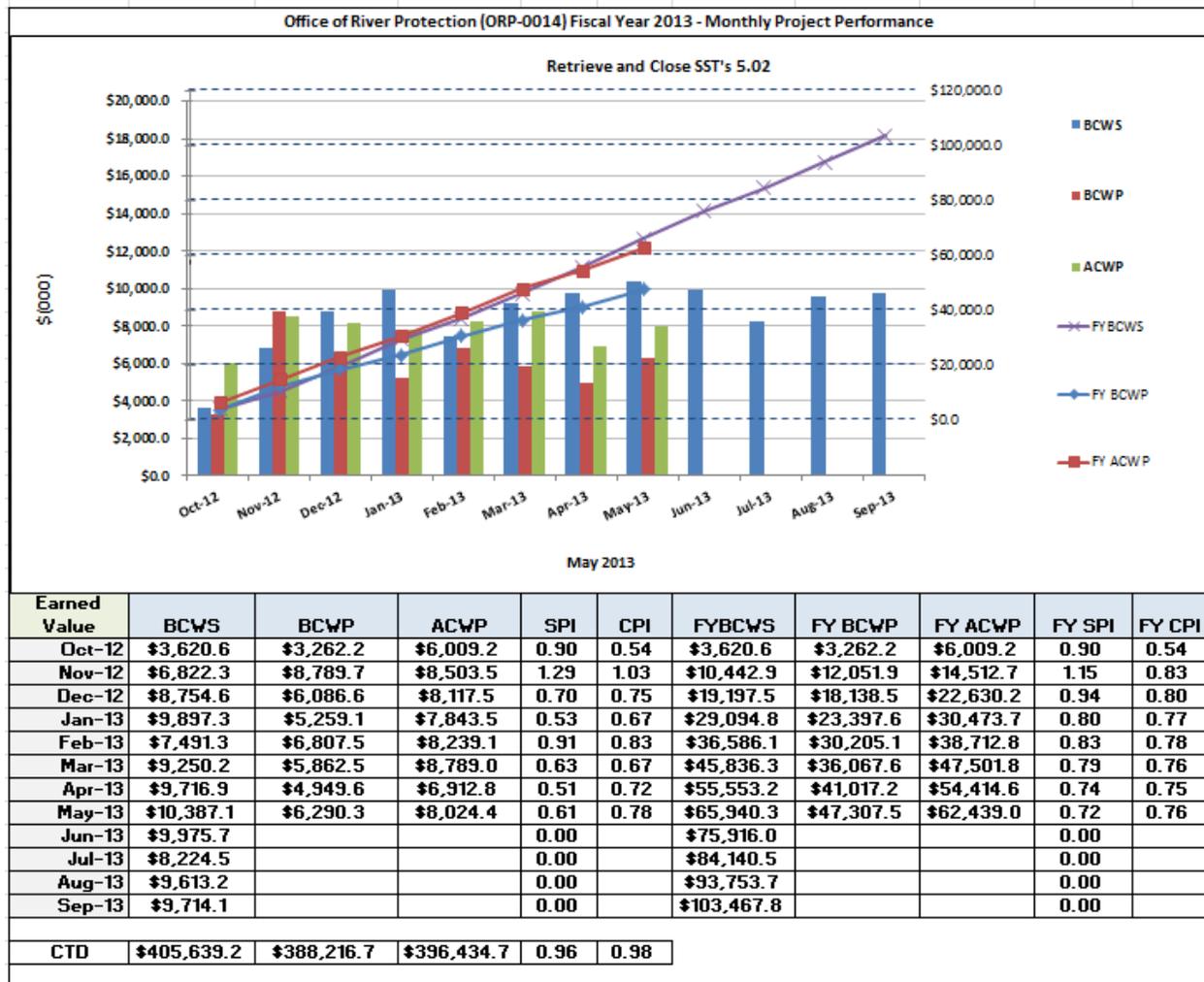
The unfavorable schedule variance is also due to delay in the following activities as a result of the funding limitations from continuing resolution and sequestration:

- DST Lighting Upgrades
- DST Technical Analysis and Project Definition
- Prepare Obsolete Core Sample Trucks for Disposal
- AW-02E Jumper/Funnel Replacement
- 242-A Evaporator PB-2 Skid Fabrication

Cost Variance \$1,340K:

The favorable cost variance is primarily due to:

- The Waste Management Account incurred fewer costs due to a slowdown in the field
- Disposal Long Lead Contaminated Equipment



Retrieval and Close Single-Shell Tanks

Schedule Variance (\$4,097K):

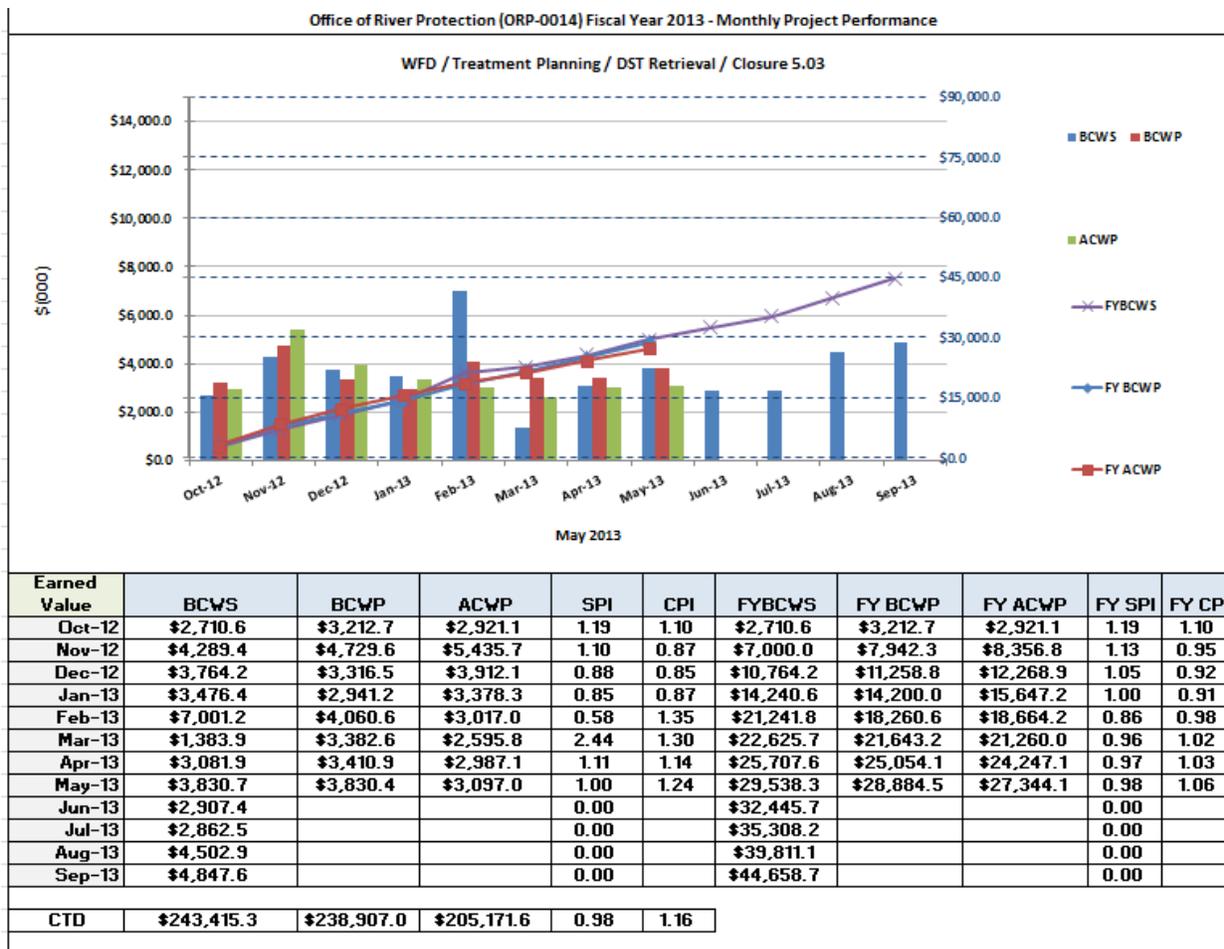
The unfavorable schedule variance is primarily due to:

- C-105 MARS-V installation activities due to the dome cut suspension, delay of the test plan, operations acceptance testing (OAT), and procurements put on hold due to sequestration.
- C-102 delays in starting waste retrieval because of revised approach to better utilize resource availability.
- C-104 early retrieval performance in fiscal year 2012.
- C-111 design of the Hard Heel Retrieval System due to DST Deep Bed sludge issues.
- C-110 5 month delay of hard heel operations due to sequestration.

Cost Variance (\$1,734K):

The unfavorable cost variance is primarily due to:

- C-107 unexpected labor costs for investigation of the AN-106 pump leak that occurred during hard heel retrieval.
- C-110 increased engineering needed to resolve issues with the hot water skid.
- Retrieval technology development having higher subcontracts costs to resolve MARS-V issues.



Waste Feed Delivery/Treatment/DST Retrieval Closure

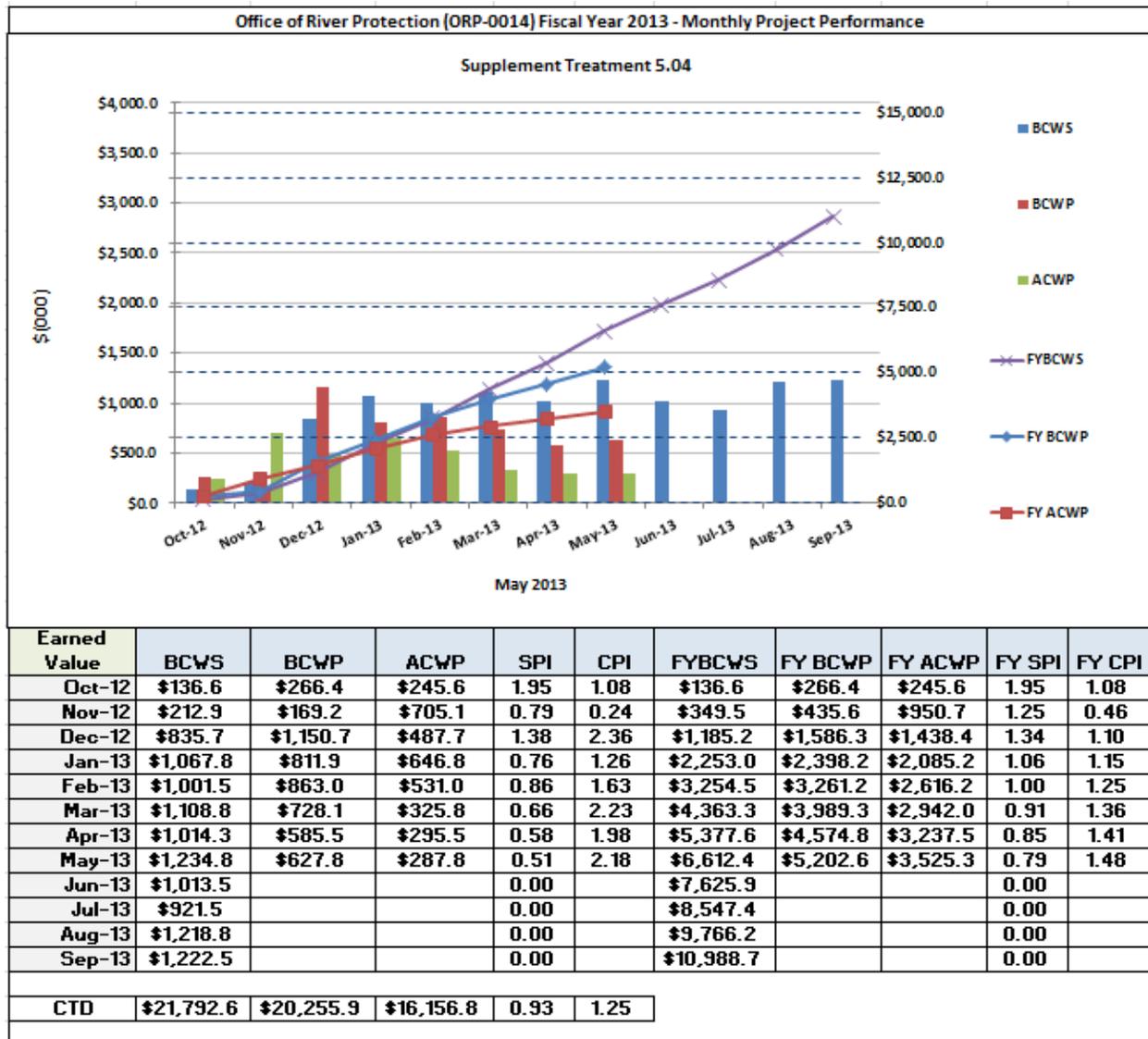
Schedule Variance \$27K:

- Nothing to report.

Cost Variance \$706K

The favorable cost variance is due to:

- RPP System Plan due to chemical engineering support being diverted to the direct feed HLW business case.
- WFD System Performance due to efficiencies within the optional scaled performance test. The remaining simulant from prior tests was utilized so less simulant was procured than planned.



Supplemental Treatment

Schedule Variance (\$606.9K):

- Immobilization - due to ramp down of the one-time report activities due to sequestration.

Cost Variance \$340K:

- Immobilization – primarily due to Tc removal and low temperature waste form maturation activities being performed by SRNL billing delays

WBS 5.2 Retrieve and Close Single Shell Tanks

M-045-22, Review M-045-22-T03 Report and Determine Path Forward, Due: 09/30/14 based on M-045-20 TPA Change Package M-45-12-05, 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. ORP submitted TPA change package M-45-12-05 adding dates for M-045-22 and its targets with the revised Work Plan via letter 13-TF-0014. Ecology approved the TPA change package on 04/01/13.

M-045-22-T01, Submit Results of Vadose Zone Characterization of 241-TX to Ecology, Due: 09/30/14 based on M-045-20 TPA Change Package M-45-12-05, Status: On Schedule.

M-045-22-T02, Submit Results of Vadose Zone Characterization of 241-U to Ecology, Due: 04/30/14 based on M-045-20 TPA Change Package M-45-12-05, Status: On Schedule.

M-045-22-T03, Submit SX Soil Desiccation/Contaminate Removal Tech Results to Ecology, Due: 07/31/14 based on M-045-20 TPA Change Package M-45-12-05, Status: On Schedule.

M-045-56I, Complete Implementation of Agreed to Interim Measures, Due: 07/31/13, Status: Completed 06/12/2013. The annual meeting was held on June 12, 2013; meeting notes have been entered into the TPA Administrative record.

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: To Be Missed. 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: To Be Missed. 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-045-920, 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:

- Automated data collection systems for T-Farm and TY Farm interim barrier monitoring continue gathering data.
- The summary report on T and TY barrier monitoring performed in 2012 was released.
- The test site was selected for the pore water extraction test south of SX farm under the M-045-20 work plan, and direct push work to place the extraction and monitoring wells is underway.
- Direct push of 4 boreholes near the C-200 tanks has been completed. The boreholes have been logged and decommissioned, and deep electrodes placed for resistivity evaluations.
- Data collection in U farm for electrical resistivity characterization was completed. Data analysis and reporting will occur in FY 2014.
- Direct push field work in TX farm was initiated under the M-045-20 work plan and M-045021 SAP.
- The annual M-045-56 meeting on Interim Measures was held and meeting minutes generated for review.

Significant Planned Actions in the Next Six Months:

- Complete direct push field work in TX farm under the M-045-20 work plan.
- Complete analysis and reporting of the electrical resistivity data collected in U farm under the M-045-20 work plan.
- Perform electrical resistivity field work near the C-200 tanks per the WMA C Phase 2 RFI/CMS Work Plan.
- Complete the field set up and equipment design for the SX farm pore water extraction proof of principle test under the M-045-20 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: To Be Missed. 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. The CD Retrieval Completion Certification for SST Tank C-104 was sent to Ecology on 03/21/13 via ORP letter 13-TF-0018.

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.
- Completed post-retrieval spectral gamma logging of drywells near C-108 in support of the M-045-86 retrieval data report.
- Completed post-retrieval sampling analysis and reporting of results for tank C-104 in support of the M-045-86 retrieval data report.
- Completed post-retrieval sampling of tank C-109 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:

- Develop a Retrieval Data Report for tank C-104.
- Continue analysis of the post-retrieval samples from tank C-109.
- Issue a Retrieval Data Report for C-108.
- See discussions above and related discussions in Consent Decree report.

Issues:

The WMA-C performance assessment (PA) was not funded at the beginning of fiscal year 2013. ORP has reported previously that the WMA-C PA would need to be funded by March 31, 2013 in order to maintain milestone schedule. Although funding of the WMA-C PA has been identified to begin work in FY2013, TPA Milestones M-045-61, M-045-62, and M-045-82 are still To Be Missed.

ORP began discussions with Ecology about a TPA project manager-level agreement to determine an alternative path forward for M-045-61 and M-045-62 on 03/14/13. ORP and Ecology have continued to meet (most recently on June 20, 2013) to develop a path forward for these milestones.

ORP and Ecology will meet separately to discuss TPA milestone M-045-82 for the Tier 1, 2, and 3 WMA C SST closure submittal. ORP and Ecology will discuss impacts to this work scope and the potential for a Tier 1 submittal.

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	Complete	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:

- Modification notice 2013-05 for TWRWP RPP-22393 was approved by ORP and Ecology allowing the High Resolution Resistivity system to be used for C-102 leak detection. Prior to the modification, weekly moisture logging was required when not in active retrieval because of high interstitial liquid levels. The change now allows the TOC to do 30 days of HRR monitoring once per quarter rather than weekly moisture logging.

Significant Planned Activities in the Next 6 Months:

- Work with Ecology on update to TWRWP RPP-37739 for C-111.

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.