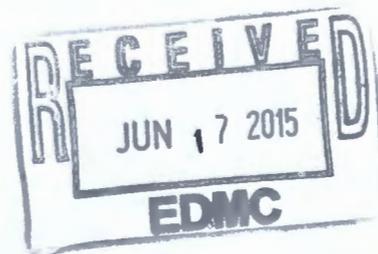




**FINAL**

**Office of River Protection  
Tri-Party Agreement  
Monthly Summary Report  
June 2015**



**Office of River Protection  
Tri-Party Agreement Milestone Review  
June 2015 (Monthly Summary Report/Project Earned Value Management System reflects  
April 2015 information)**

Page	Topic	Leads
1	Administrative Items/Milestone Status	Bryan Trimberger/Dan McDonald/Jeff Lyon
2	System Plan; M-062-40	DaBrisha Smith/Jeff Lyon/Dan McDonald
3	Acquisition of New Facilities; M-090-00 and M-047-00	Janet Diediker/Jeff Lyon/Dan McDonald
4	Supplemental Treatment and Part B Permit Applications; M-062-00, M-062-21, M-062-30, and M-062-45	Steve Pfaff/Jeff Lyon/Dan McDonald
5	242-A Evaporator Status	Richard Valle/Paul Hernandez/Jeff Lyon
6	Double-Shell Tank System Update	Jeremy Johnson/Jeff Lyon
6	Single-Shell Tank Integrity Assurance; M-045-91	Jeremy Johnson/ Jim Alzheimer
7	In Tank Characterization and Summary	Billie Mauss/Michael Barnes
9	Tank Operations Contract Overview	ORP TPA PMs/Jeff Lyon
16	Single-Shell Tank Corrective Action; M-045-22, M-045-50 series, M-045-60 series, and M-045-92	Chris Kemp/Jeff Lyon
18	Single-Shell Retrieval and Closure Program Tri-Party Agreement (TPA) Milestones Status; M-045-00 series	Chris Kemp/Jeff Lyon
20	Tank Waste Retrieval Work Plan Status	Chris Kemp/Jeff Lyon
21	Tank in TPA Appendix H, Status Tank Retrievals with Individual Milestones	Chris Kemp/Jeff Lyon
CD	Waste Treatment and Immobilization Plant (WTP) Overall TPA Summary and Milestone Status; see the U.S. Department of Energy, Office of River Protection Consent Decree 08-5085-FVS Monthly Summary Report for WTP Facility-specific information	Delmar Noyes/Dan McDonald

CD = Consent Decree 08-5085-FVS

Milestone	Title	Due Date	Completion Date	Status
<b>Fiscal Year 2015</b>				
M-062-40D	Submit System Plan	10/31/2014	10/31/2014	Completed
M-062-40ZZ	Submit One Time Tank Waste Supp Treatment Technologies Report	10/31/2014	Deleted on 08/12/2014	Deleted
M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	10/31/2014	07/07/2014	Completed
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	12/26/2014	11/14/14	Completed
M-045-61	Phase 2 RCRA Facility Investigation	12/31/2014	12/23/2014	Completed
M-045-86H	Submit Retrieval Data Report to Ecology for C-110	01/29/2015	08/06/2014	Completed
M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	01/30/2015	12/3/2014	Completed
M-045-91B-T01	Provide Ecology report on the Concrete Core from Tank A-106 or alt	01/31/2015	12/3/2014	Completed
M-062-01AD	Submit Semi-Annual Compliance Report	1/31/2015	1/29/2015	Completed
M-045-91F-T02	Provide Report of Liner Failures for SSTs	03/31/2015	3/16/2015	Completed
M-062-45-T01	Comp. Neg's 6-Mo After Last Issuance of System Plan	04/30/2015		In Dispute
M-062-45-ZZ	Negotiate a One Time Supplemental Treatment Selection	04/30/2015		In Dispute
M-062-45-ZZ-A	Convert M-062-31-T01 Thru M-062-34-T01 to Interim Milestones	04/30/2015		In Dispute
M-045-91F	Provide Summary Conclusions Report on Leak Integrity	06/30/2015	4/29/15	Completed
M-045-62	Phase 2 Corrective Measures Implementation Work Plan For WMA-C	TBD		On Schedule
M-045-92O	Barrier 3 Design/Monitoring Approval From Ecology	06/30/2015		In Dispute
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-062-01AE	Submit Semi-Annual Compliance Report	7/31/2015		On Schedule
M-045-82	Submit Comp. Permit Modification Request for Tiers 1,2,3	09/30/2015		To Be Missed
M-045-91E1	Provide SST Farms Dome Deflection Surveys Every Two Years	9/30/2015		On Schedule
<b>Fiscal Year 2016</b>				
M-045-92N	Construct Barriers 1 and 2 in 241-SX Farm	10/31/2015		In Dispute
M-062-01AF	Submit Semi-Annual Project Compliance Report	1/31/2016		On Schedule
M-047-07	CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to ECY	3/31/2016		On Schedule
M-090-13	CD-1 for Interim Hanford Storage Project and CR for CD-2 to ECY	3/31/2016		On Schedule
M-062-31-T01	Comp. Final Design & Submit RCRA Part B Permit Mod Request for Enhanced WTP & Supplemental Treatment	4/30/2016		On Schedule
M-045-92Q	Submit Barrier 4 Design/Monitoring Plan	6/30/2016		In Dispute
M-062-01AG	Submit Semi-Annual Project Compliance Report	7/31/2016		On Schedule
M-045-56L	Ecology And DOE A Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July)	7/31/2016		On Schedule

Milestone	Title	Due Date	Completion Date	Status
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AOR =	Analyses of Record.	RCRA =	Resource Conservation and Recovery Act.	
CD-1/-2 =	critical decision-1/-2	SST =	single-shell tank.	
CR =	change request.	TPA =	Tri-Party Agreement.	
DOE =	U.S. Department of Energy.	WMA-C =	Waste Management Area C.	
Ecology =	Washington State Department of Ecology.			

### System Plan

**M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan,**  
Due: December 15, 2013, Status: Completed on December 12, 2013.

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

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

#### Significant Past Accomplishments:

1. On October 24, 2013, Washington State Department of Ecology (Ecology) and U.S. Department of Energy (DOE), Office of River Protection (ORP) signed the Tri-Party Agreement (TPA) Change Control Form M-62-13-02, moving out the due date for this embedded milestone from October 31, 2013 to December 15, 2013, for selection of three, or more, scenarios to be modeled in the System Plan.
2. Ecology has defined five scenarios to be analyzed in System Plan 7. Washington River Protection Solutions LLC (WRPS) has included a description of each scenario in the Selected Scenarios for the River Protection Project System Plan, Rev. 7 document released to ORP on December 4, 2013. See joint ORP and Ecology letter 13-TPD-0070, dated December 12, 2013, for completion and description of M-062-40C scenarios.
3. Detailed assumption review was completed, and has been approved by Ecology.
4. On February 11, 2014, DOE-ORP transmitted a letter (14-TPD-0003) to Washington River Protection Solutions LLC in response to letter (WRPS-1400313) to approve the use of Ecology's Appendix B, "Key Assumptions and Success Criteria," for the ORP 11242, River Protection Project System Plan, Rev. 7.
5. On February 13, 2014 Washington State Department of Ecology presented the five selected scenarios to the Hanford Advisory Board Tank Waste Committee.
6. Ecology, DOE-ORP and WRPS reviewed and provided comments for sections 1 and 2 of the System Plan 7 during the week of February 17, 2014.
7. Ecology, DOE-ORP and WRPS reviewed and provided comments for section 3 of the System Plan 7 during the week of March 21, 2014.
8. Ecology, DOE-ORP and WRPS reviewed and provided comments for Appendix C of the System Plan 7 during the week of April 1, 2014.
9. During the week of April 28, 2014, WRPS and DOE-ORP facilitated meetings for Ecology to define detail spending assumptions for Case 5.
10. On July 29, 2014, WRPS Case authors presented the results of the five cases to Ecology and DOE-ORP.
11. System Plan 7 was reviewed, all comments resolved and incorporated into the document.

12. On October 31, 2014, ORP transmitted System Plan 7 to Ecology.
13. ORP received Ecology's January 14, 2015 transmitted letter 15-NWP-004, regarding the Department of Ecology review of *River Protection System Plan*, ORP-11242, Revision 7.
14. DOE-ORP meet with Ecology at the Tank Farms informal TPA and CD monthly status meeting on February 25, 2015.

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

None

**Issues:**

None.

**Acquisition of New Facilities**

**M-090-13, Submit Critical Decision-1 for Interim Hanford Storage Project and TPA Change Request for CD-2 to Ecology, Due: March 31, 2016, Status: On Schedule.** Created by TPA Change Control Form M-90-12-02, signed by ORP and Ecology on November 19, 2012, 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 Immobilized High-Level Waste (IHLW), Due: December 31, 2019, Status: On schedule.**

**M-047-07, Submit CD-1 for Secondary Liquid Waste Treatment and Change Request (CR) for CD-2 to Ecology, Due: March 31, 2016, Status: On Schedule.** Created by TPA Change Control Form M-47-12-02, signed by ORP and Ecology on November 19, 2012, 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 Waste Treatment and Immobilization Plant (WTP), Due: December 31, 2022, Status: On schedule.**

**Significant Past Accomplishments:**

ORP and Ecology signed TPA Change Packages M-47-14-01 and M-90-14-01 on July 14, 2014 moving the due date for M-047-07 and M-090-13 to March 31, 2016.

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

None.

**Issues:**

None.

## Supplemental Treatment and Part B Permit Applications

**M-062-45ZZ (designation for M-062-45 item #3), Negotiate a one-time supplemental treatment selection, Due: April 30, 2015, Status: In dispute.**

**M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due: April 30, 2015, Status: In dispute.**

**M-062-31-T01, Complete final design and submit Resource Conservation and Recovery Act Part B permit modification request, Due: April 30, 2016, Status: On schedule.**

**M-062-32-T01, Start construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: April 30, 2018, Status: On schedule.**

**M-062-33-T01, Complete construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: April 30, 2021, Status: On schedule.**

**M-062-45XX, No later than December 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: December 31, 2021, Status: On schedule.**

**M-062-34-T01, Complete hot commissioning of supplemental vitrification treatment facility and/or WTP enhancements, Due: December 30, 2022, Status: On schedule.**

**M-062-21, Annually submit data that demonstrates operation of the WTP, Due: February 28, 2023, Status: On schedule.**

**M-062-00, Complete Pretreatment Processing and Vitrification of High-Level Waste and LAW Tank Wastes, Due: December 31, 2047, Status: On schedule.**

### Significant Past Accomplishments:

\*Per ORP letter 14-TF-0052, signed by ORP on May 6, 2014 and provided to Ecology on May 7, 2014, ORP documented the ORP/Ecology discussions for the One-Time Hanford Tank Waste Supplemental Treatment Technologies Report and that ORP does not intend to submit this report. ORP received Ecology's response letter, 14-NWP-110, on May 29, 2014. ORP Letter 14-TF-0088, dated and delivered to Ecology on July 31, 2014, submitted a signed TPA Change Package to delete the requirement of the One-Time Hanford Tank Waste Supplemental Treatment Technologies Report from TPA Milestone M-062-40. Ecology signed TPA Change Package M-62-14-01 deleting M-062-40ZZ on August 12, 2014.

**Significant Planned Actions in the Next 6 Months: None.**

**Issues:** On 01/30/15, ORP provided Ecology Change Control Form M-62-14-02, which proposed adding language under TPA Milestone M-062-45 to defer negotiations required under M-062-45. Ecology did not respond with the 14 day review period that ended February 13, 2015 which is deemed disapproval in accordance with the TPA. In letter 15-TF-0014, dated 02/20/15,

ORP initiated dispute resolution. Ecology provided a justification for their disapproval on March 12, 2015 via letter 15-NWP-036. Ecology and ORP signed an extension of the dispute resolution period at the TPA project manager level until August 15, 2015.

## 242-A Evaporator Status

(previously reported under Milestone M-48, which has been closed out)

### 242-A Evaporator Status:

The 242-A campaign strategy for fiscal year (FY) 2010 through FY 2015 depicted in the following table has been updated based on ORP-11242, *River Protection Project Plan* and ongoing schedule integration efforts.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY 2010	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.
FY 2010	10-02	AW-106	AW-106	
FY 2011	N/A	N/A	N/A	No campaign conducted in FY 2011 due to ongoing 242-A and tank farm facility life extension and American Recovery and Reinvestment Act funded upgrades.
FY 2012	N/A	N/A	N/A	No campaign conducted in FY 2012 due to ongoing 242-A and tank farm facility upgrades and revision to the 242-A Documented Safety Analysis.
FY 2013	N/A	N/A	N/A	No campaigns to be conducted in FY 2013 due to ongoing 242 A and tank farm facility upgrades and revision to the 242-A Documented Safety Analysis.
FY 2014	13-01	AP-107	AP-107	Campaign started September 9, 2014. Campaign completed on October 9, 2014.
FY 2015	EC-01	AP-103 AP-104	AP-107	Estimated to complete in June 2015.
FY 2015	EC-02	AZ-102	AP-103	Estimated to begin July 2015.
FY 2015	EC-03	AZ-102	AP-103	Estimated to begin September 2015.
FY 2015	EC-04	AW-106	AP-103	Estimated to begin October/November 2015.

FY = fiscal year.

N/A = not applicable.

### Significant Planned Actions in the Next 6 Months:

Resumption of EC-01 are set to being following completion of repairs to the feed valve, tentatively in mid-June. The evaporator vessel will be filled with water for the initial boil up. Once boiling is achieved and required pre-start activities are complete, waste flow from tank AW-102 may be initiated. When a SpG of

1.41 is achieved, slurry flow to AP-107 may be started. Waste Volume Reduction (WVR) is expected to be on the order of 400 kgal; however, a minimum of 300 kgal will be targeted.

**Issues:**

Campaign delays due to unforeseen technical/mechanical malfunctions.

## Double-Shell Tank System Update

### Ultrasonic Testing Inspection

- Ultrasonic testing for tank AN-103 is ongoing and inspection of the annulus floor has indicated thinning. Inspection of the primary tank sidewall has initiated and the UT work is being completed by ITIVS out of South Carolina.
- Ultrasonic testing for tank AN-104 is planned to be performed by the end of the FY.

### Visual Inspection

- Continuing bi-weekly inspections of AY-102 waste accumulation sites.
- Continuing bi-monthly comprehensive inspection of AY-102 annulus.
- Annulus visual inspections are completed in tanks AP-102, AP-103, AP-104, AP-105, AP-106, AP-108 AW-101, AW-102, and AW-104. This completes the FY 2015 annulus inspections for the DSTs.

## Single-Shell Tank Integrity Assurance

**M-045-91F-T04, Provide to Ecology, as a Hanford Federal Facility Agreement and Consent Order secondary document, a report on the 100-series SSTs, which have been or will be identified as having leaked in RPP-32681, Rev. 0, Due: December 26, 2014, Status: Complete. RPP-RPT-54909, Hanford Single-Shell Tanks Leak Causes, Locations, and Rates: Summary Report was transmitted to Ecology on 11/14/2014 under letter 14-TF-1024.**

**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: January 30, 2015, Status: Complete. RPP-RPT-49993, Single-Shell Tank Integrity Project Analysis of Record Hanford Type I Single-Shell Tank Thermal and Operating Loads and Seismic Analysis was transmitted to Ecology on 12/03/2014 under letter 14-TF-0128**

**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 an alternate tank, Due: January 31, 2015, Status: Complete. RPP-RPT-58254, Concrete Core Testing Report for the Single-Shell Tank 241-A-106 Sidewall Coring Project was transmitted to Ecology on 12/03/2014 under letter WRPS-140473214-TF-0127.**

**M-045-91F-T02, Provide to Ecology as a Hanford Federal Facility Agreement and Consent Order 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: March 31, 2015, Status: Complete. RPP-RPT-55804, Common Factors Relating to Liner Failures in Single-Shell Tanks, was transmitted from ORP to Ecology on 03/16/2015 under letter 15-TF-0005.**

**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 M-045-91F-T04, Due: June 30, 2015 Status: Complete. Report transmitted to Ecology on April 29, 2015 under ORP letter 15-TF-0043**

**M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record for SSTs, Due: July 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 of milestones to date, Due: July 31, 2015, Status: Complete 3/25/2015.**

**M-045-91I, Provide to Ecology an Independent, Qualified, Registered Professional Engineer (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: September 30, 2018, Status: On schedule.**

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

In support of M-045-91G, SST AOR Summary Report, was issued and prepared for public release.

Completion of M-045-91H. The work completed to date under M-045-91F and M-045-91G does not necessitate the creation of any additional milestones. In accordance with a 3/25/15 meeting with Ecology, ORP considers M-045-91H complete and does not intend to submit a change package for the creation of any additional milestones for SST Integrity.

In support of M-045-91F was met on April 29, 2015 with ORP letter 15-TF-0043.

#### **Significant Planned Actions in the Next 6 Months:**

Issue and transmit the SST AOR Summary report to meet M-045-91G.

#### **Issues:**

### **In Tank Characterization and Summary**

For the period from May 1 through May 31, 2015:

**Accomplishments:**

- Completed RPP-RPT-45764, *Derivation of Best-Basis Inventory for Tank 241-AN-102 as of April 1, 2015*, Rev 5.
- Completed RPP-RPT-44049, *Derivation of Best-Basis Inventory for Tank 241-AZ-102*, Rev 7.
- Completed RPP-RPT-58547, *Derivation of Best-Basis Inventory for Tank 241-T-111 as of March 10, 2015*, Rev 0.
- Completed RPP-PLAN-60281, *Tank 241-AP-105 Grab Sampling and Analysis Plan*, Rev 0.
- Completed RPP-PLAN-60248, *Tank 241-AZ-102 Grab Sampling and Analysis Plan in Support of 242-A Evaporator Campaign EC-03*, Rev 0.
- Performed sampling of 242-A Evaporator slurry to 241-AP-107 on May 7, 2015. Two samples were received at the lab.
- Performed 241-AP-101 grab sampling May 12, 2015 and May 14, 2015. Ten samples were received at the lab.

**Planned Action within the Next 6 Months:*****Tank sampling:***

- Tank 241-C-105 in-process grab sampling is planned for June 2015.
- Tank 241-AY-101 grab sampling is planned for June 2015.
- Tank 241-AP-103 grab sampling is planned for June 2015.
- Tank 241-SY-103 core sampling is planned for June 2015.
- Tank 241-AP-105 grab sampling is planned for July 2015.
- Tank 241-AP-107 grab sampling is planned for September 2015.
- Tank 241-C-111 HHR grab sampling is planned for September 2015.
- Tank 241-AW-102 grab sampling is tentatively planned for November 2015.
- Tank 241-AN-101 grab sampling at 241-C-111 HRR 100% is planned for November 2015.

***Best-Basis Inventory (BBI) updates:***

BBI updates for the following tanks were completed in May:

- 241-AN-102
- 241-AZ-102
- 241-T-111

BBI updates for the following tanks currently are planned to be completed in June:

- 241-AN-107
- 241-BX-111
- 241-SX-102
- 241-AX-101
- 241-C-112

***Data Quality Objectives (DQO):***

- RPP-44057, *Data Quality Objectives to Support Strategic Planning*, Rev 2, is in-process to clarify DQO applicability and obtain data used to update the BBIs.
- Update of RPP-SPEC-33590, *Data Quality Objectives for Evaluation of Stack Chemical Emissions*, Rev 2, is in-process to incorporate updated requirements for evaluation of stack chemical emissions after AY/AZ tank farm ventilation upgrades.

**Issues:**

None.

## TANK OPERATIONS CONTRACT OVERVIEW

***Project Performance***

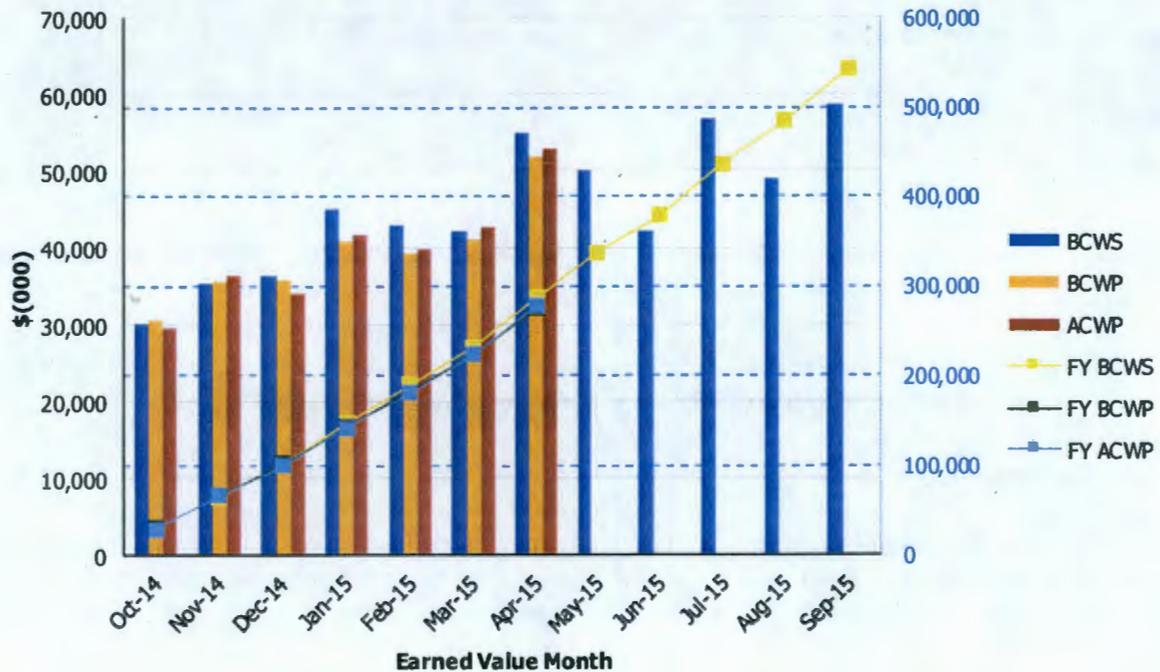
The earned value performance reporting reflects the format, work breakdown structure reporting levels, and variance thresholds as agreed to with the tank operations contractor for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing TPA milestones.

Through April 30, 2015, Washington River Protection Solutions LLC (WRPS) worked 2,554,707 hours (192 days) without a Lost Time Workday Injury and 708,396 hours (49 days) since the last Recordable case. There was one recordable cases in March, and no Days Away, Restricted, or Transferred (DART) cases.

April-15										
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	54,958.0	51,747.0	52,922.0	(3,211.0)	(1,175.0)	0.94	0.98			
FYTD	286,788.0	274,843.0	276,891.0	(11,945.0)	(2,048.0)	0.96	0.99	543,280.0		
CTD	2,630,634.0	2,593,323.0	2,577,837.0	(37,311.0)	15,486.0	0.99	1.01	3,387,130.0	3,340,509.4	46,620.6

**Tank Farms ORP-0014**

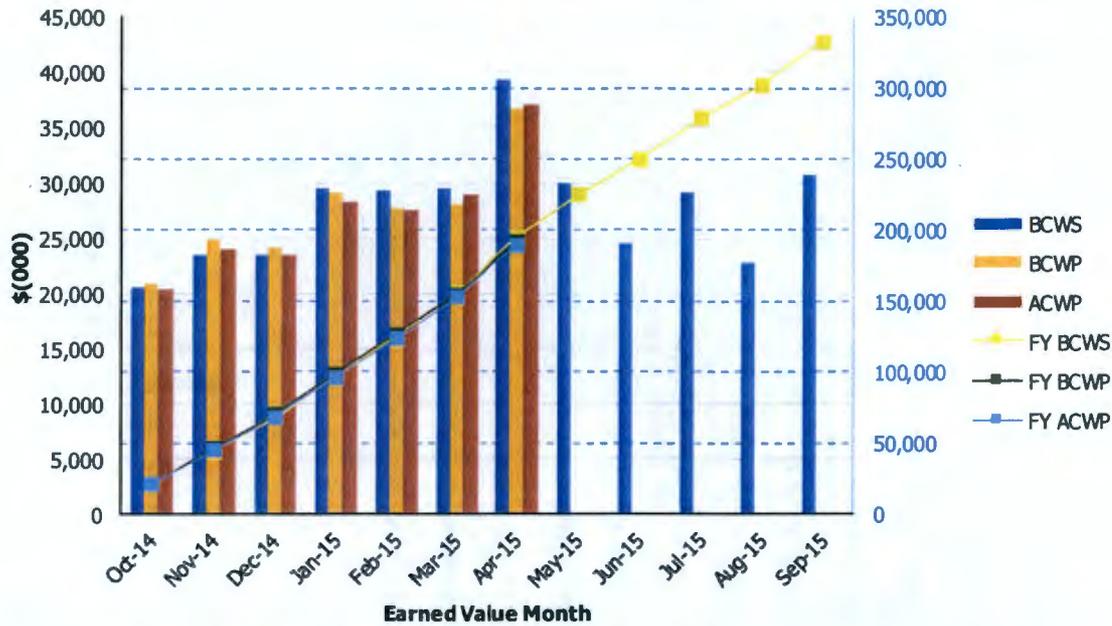
EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2014	\$30,052	\$30,480	\$29,607	1.01	1.03	\$30,052	\$30,480	\$29,607	1.01	1.03
Nov 2014	\$35,246	\$35,697	\$36,417	1.01	0.98	\$65,298	\$66,178	\$66,024	1.01	1.00
Dec 2014	\$36,377	\$35,858	\$33,978	0.99	1.06	\$101,675	\$102,036	\$100,002	1.00	1.02
Jan 2015	\$45,083	\$40,697	\$41,603	0.90	0.98	\$146,757	\$142,733	\$141,605	0.97	1.01
Feb 2015	\$42,913	\$39,189	\$39,643	0.91	0.99	\$189,671	\$181,922	\$181,248	0.96	1.00
Mar 2015	\$42,159	\$41,174	\$42,721	0.98	0.96	\$231,830	\$223,096	\$223,968	0.96	1.00
Apr 2015	\$54,958	\$51,747	\$52,922	0.94	0.98	\$286,788	\$274,843	\$276,890	0.96	0.99
May 2015	\$49,882					\$336,670				
Jun 2015	\$42,253					\$378,923				
Jul 2015	\$56,899					\$435,822				
Aug 2015	\$48,837					\$484,659				
Sep 2015	\$58,619					\$543,278				
<b>CTD</b>	<b>\$2,630,693</b>	<b>\$2,593,323</b>	<b>\$2,577,837</b>	<b>0.99</b>	<b>1.01</b>					

**Tank Farms ORP-0014  
Base Operations 5.01**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2014	\$20,627	\$20,833	\$20,428	1.01	1.02	\$20,627	\$20,833	\$20,428	1.01	1.02
Nov 2014	\$23,471	\$24,930	\$23,988	1.06	1.04	\$44,098	\$45,762	\$44,417	1.04	1.03
Dec 2014	\$23,467	\$24,105	\$23,547	1.03	1.02	\$67,565	\$69,867	\$67,964	1.03	1.03
Jan 2015	\$29,511	\$29,162	\$28,218	0.99	1.03	\$97,075	\$99,029	\$96,181	1.02	1.03
Feb 2015	\$29,299	\$27,739	\$27,582	0.95	1.01	\$126,375	\$126,768	\$123,764	1.00	0.98
Mar 2015	\$29,525	\$28,162	\$28,967	0.95	0.97	\$155,900	\$154,929	\$152,731	0.99	0.99
Apr 2015	\$39,203	\$36,623	\$36,998	0.93	0.99	\$195,103	\$191,552	\$189,729	0.98	0.99
May 2015	\$30,043					\$225,146				
Jun 2015	\$24,437					\$249,582				
Jul 2015	\$29,176					\$278,759				
Aug 2015	\$22,875					\$301,634				
Sep 2015	\$30,751					\$332,385				
CTD	\$1,732,531	\$1,717,395	\$1,697,413	0.99	1.01					

**Base Operations and Tank Farm Projects**

The current month unfavorable schedule variance (SV) of **(\$2,579K)** is due to the following:

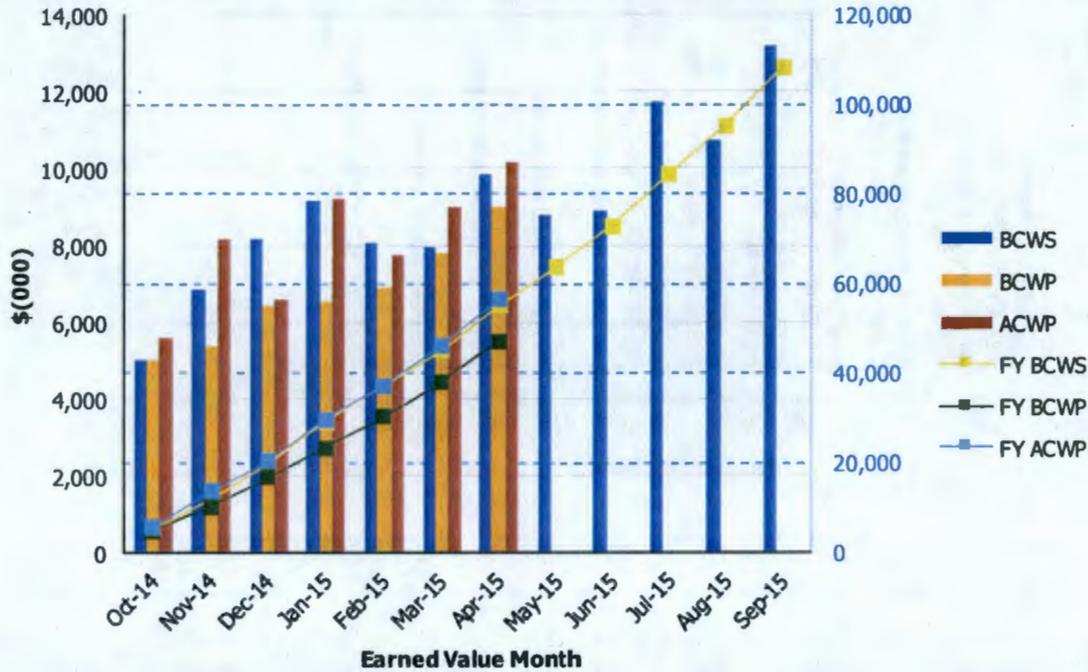
- SY Farm Exhauster Refurbishment and Installation was delayed due to priorities given to AP Exhauster to support AY-102 Retrieval.
- Delays with the 242-A Evaporator Campaign due to a failed ammonia analyzer.
- Loss of critical resource to perform Ultrasonic Testing at AN Farm.

The current month unfavorable cost variance (CV) of **(\$375K)** is due to the following:

- Cost increases due to vapor requirements, increased equipment costs and increase in training requirements.

**Tank Farms ORP-0014  
Retrieve and Close SST's 5.02**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2014	\$5,024	\$5,011	\$5,609	1.00	0.89	\$5,024	\$5,011	\$5,609	1.00	0.89
Nov 2014	\$6,852	\$5,392	\$8,174	0.79	0.66	\$11,876	\$10,403	\$13,783	0.88	0.75
Dec 2014	\$8,171	\$6,453	\$6,612	0.79	0.98	\$20,047	\$16,856	\$20,395	0.84	0.83
Jan 2015	\$9,167	\$6,524	\$9,195	0.71	0.71	\$29,215	\$23,380	\$29,589	0.80	0.79
Feb 2015	\$8,075	\$6,924	\$7,719	0.86	0.90	\$37,290	\$30,304	\$37,309	0.81	0.81
Mar 2015	\$7,971	\$7,801	\$9,009	0.98	0.87	\$45,261	\$38,105	\$46,318	0.84	0.82
Apr 2015	\$9,818	\$9,019	\$10,148	0.92	0.89	\$55,079	\$47,124	\$56,466	0.86	0.83
May 2015	\$8,781					\$63,860				
Jun 2015	\$8,899					\$72,759				
Jul 2015	\$11,715					\$84,474				
Aug 2015	\$10,714					\$95,188				
Sep 2015	\$13,179					\$108,367				

CTD \$560,578 \$542,541 \$565,809 0.97 0.96

The current month unfavorable cost variance (CV) of (\$1,129k) is due to:

- Limited amount of waste retrieved from C-102 due to the material makeup/characterization (sand like consistency) of the remaining volume. In addition,

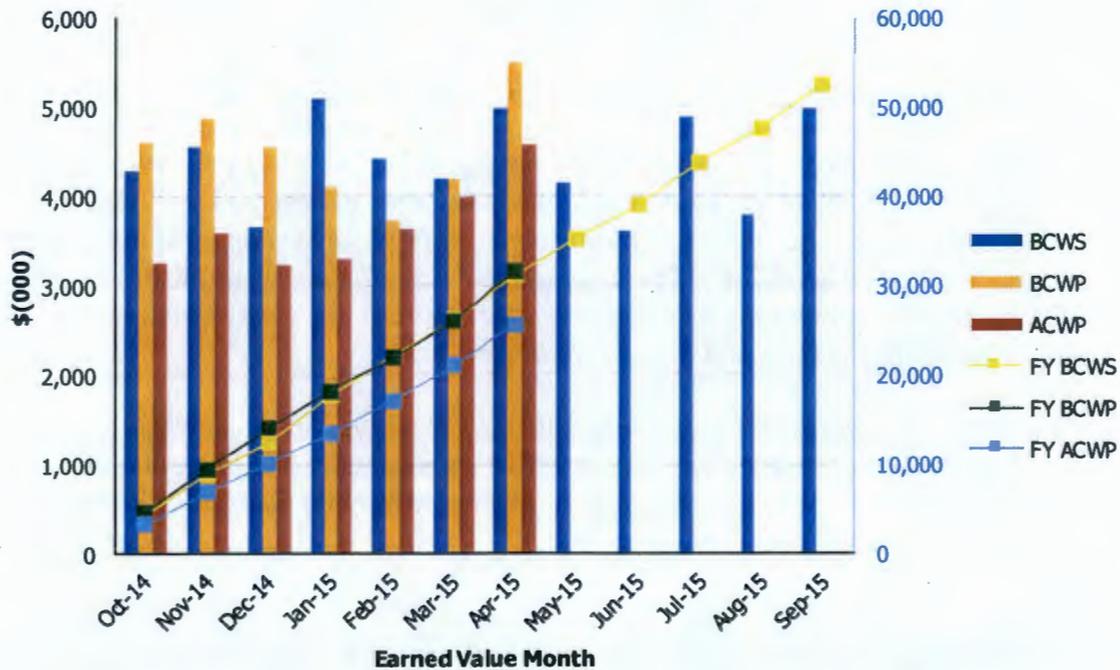
retrieval operations were halted in mid-April due to a leak within sluicer box #1. The project spent additional time and effort attempting to locate the leak source.

The current month unfavorable schedule variance (SV) of (\$799k) is due to:

- Limited amount of waste retrieved from C-102 due to the material makeup/characterization (sand like consistency) of the remaining volume.

**Tank Farms ORP-0014**  
**Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure 5.03**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2014	\$4,277	\$4,605	\$3,261	1.08	1.41	\$4,277	\$4,605	\$3,261	1.08	1.41
Nov 2014	\$4,549	\$4,876	\$3,585	1.07	1.36	\$8,826	\$9,480	\$6,846	1.07	1.38
Dec 2014	\$3,652	\$4,559	\$3,229	1.25	1.41	\$12,478	\$14,040	\$10,075	1.13	1.39
Jan 2015	\$5,101	\$4,113	\$3,308	0.81	1.24	\$17,579	\$18,152	\$13,383	1.03	1.36
Feb 2015	\$4,413	\$3,734	\$3,636	0.85	1.03	\$21,992	\$21,887	\$17,019	1.00	1.29
Mar 2015	\$4,185	\$4,206	\$3,988	1.00	1.05	\$26,177	\$26,092	\$21,007	1.00	1.24
Apr 2015	\$4,989	\$5,497	\$4,584	1.10	1.20	\$31,166	\$31,589	\$25,591	1.01	1.23
May 2015	\$4,145					\$35,311				
Jun 2015	\$3,615					\$38,926				
Jul 2015	\$4,882					\$43,807				
Aug 2015	\$3,792					\$47,599				
Sep 2015	\$4,991					\$52,589				
CTD	\$307,735	\$304,153	\$285,936	0.99	1.06					

***Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure***

The current month favorable schedule variance (SV) of \$508K is due to:

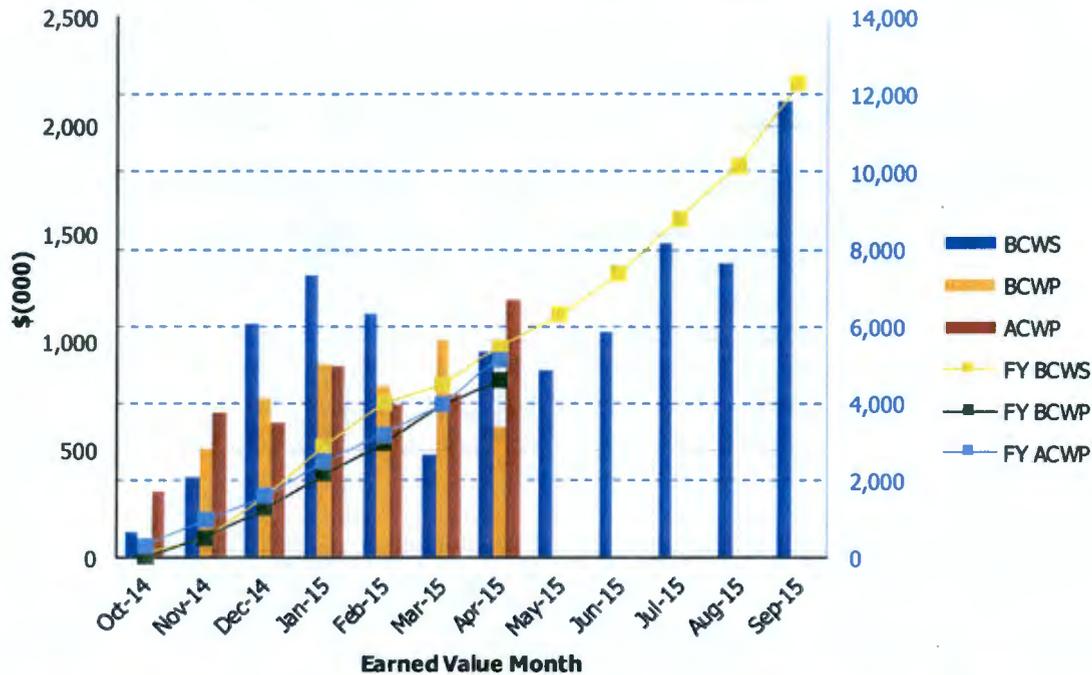
- IDF Glass Testing – recovering work scope which was previously behind schedule: Long-Term Performance Testing of New Glass Composition Regions and Annual Report, Comprehensive Report on Glass Parameters for PA Modeling, and Measure Kds for Key Contaminants in Simulant Glass Leachate.
- One System Nuclear Safety & Engineering Program Integration – performing activities ahead of schedule: Engineering and Operational Software, A6 and A8 Transformer, and Ignition Source interfacing.

The current month favorable cost variance (CV) of \$913K is due to:

- One System Nuclear Safety & Engineering Program Integration – efficiencies realized by utilizing experienced Nuclear Safety contract engineering rather than planned internal labor.
- Pre-conceptual Projects - work scope being performed by internal resources, although subcontract resources were originally planned. New data was obtained from the CH-TRU project which resulted in a more efficient analysis of the RH-TRU project risks and issues. The planned RH-TRU engineering study was not necessary as sufficient technical data was obtained from this analysis to prepare a white paper in support of the Strategic Initiatives Analysis Plan (SIAP). The utilization of subcontract support with historical SIAP experience resulted in more efficient performance of the SIAP development, scenario selection, analysis, and organization activities.
- WTP Interface Management – fewer internal labor resources have been required to accomplish the work scope by utilizing experienced personnel with historical knowledge of the work scope. Additionally, the level of staffing within the Secondary Waste account was less than planned.

**Tank Farms ORP-0014  
Treat Waste 5.5**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2014	\$124	\$32	\$308	0.26	0.10	\$124	\$32	\$308	0.26	0.10
Nov 2014	\$374	\$500	\$674	1.34	0.74	\$498	\$532	\$982	1.07	0.54
Dec 2014	\$1,087	\$741	\$628	0.68	1.18	\$1,585	\$1,273	\$1,610	0.80	0.79
Jan 2015	\$1,304	\$899	\$883	0.69	1.02	\$2,889	\$2,172	\$2,493	0.75	0.87
Feb 2015	\$1,126	\$792	\$707	0.70	1.12	\$4,015	\$2,964	\$3,200	0.74	0.93
Mar 2015	\$478	\$1,006	\$754	2.11	1.33	\$4,492	\$3,970	\$3,954	0.88	1.00
Apr 2015	\$948	\$607	\$1,194	0.64	0.51	\$5,440	\$4,577	\$5,148	0.84	0.89
May 2015	\$869					\$6,309				
Jun 2015	\$1,043					\$7,352				
Jul 2015	\$1,458					\$8,810				
Aug 2015	\$1,367					\$10,177				
Sep 2015	\$2,111					\$12,288				
CTD	\$9,740	\$9,122	\$9,544	0.94	0.96					

**Treat Waste**

The current month unfavorable schedule variance (SV) of (\$342K) is due to:

- LAWPS Conceptual Design - April's month end performance not being updated. April's performance will be corrected during May's reporting period.

The current month unfavorable cost variance (CV) of (\$587K) is due to:

- LAWPS Conceptual Design - April's month end performance not being updated. April's performance will be corrected during May's reporting period.

### **Work Breakdown Structure 5.2 Retrieve and Close Single-Shell Tanks**

**M-045-22, Review M-045-22-T03 Report and Determine Path Forward**, Due: September 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. Ecology and ORP agreed at the September 25, 2014 TPA Project Managers' meeting that this milestone was closed, though M-045-92 remains open.

**M-045-22-T01, Submit Results of Vadose Zone Characterization of 241-TX to Ecology**, Due: September 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. ORP submitted this deliverable to ECY on September 17, 2014, via letter 14-TF-0100.

**M-045-22-T02, Submit Results of Vadose Zone Characterization of 241-U to Ecology**, Due: April 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. ORP submitted this deliverable to ECY on February 20, 2014, via letter 14-TF-0015.

**M-045-22-T03, Submit SX Soil Desiccation/Contaminate Removal Tech Results to Ecology**, Due: July 31, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. ORP submitted this deliverable to ECY on May 15, 2014, via letter 14-TF-0054.

**M-045-56J, Complete Implementation of Agreed to Interim Measures**, Due: July 31, 2014, Status: Complete. The M-045-56 annual meeting was held on July 22, 2014 and meeting minutes have been entered into the Administrative Record.

**M-045-56K, Complete Implementation of Agreed to Interim Measures**, Due: July 31, 2015, 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 Waste Management Areas (WMA) (pending the Corrective Measures Study report, Milestone M-45-58, and implementation of other interim corrective measures)**, Due: To be determined, Status: On schedule.

**M-045-61, Submit to Ecology in accordance with the HFFACO Secondary document review process a Phase 2 RCRA Facility Investigation (RFI) Report Draft A for WMA Area C (WMA-C)**, Due: December 31, 2014, Status: Complete. The Phase 2 RCRA Facility Investigation Report Draft A for WMA-C, RPP-RPT-58339, was transmitted to Ecology on December 23, 2014, via letter 14-TF-0131. This milestone was modified by HFFACO change package M-45-14-03, signed October 1, 2014.

**M-045-61A, Submit to Ecology for review and approval as an Agreement primary document, document review process, a Phase 2 Corrective Measures Study, and revision 0 update to the RFI Report for WMA-C), Due:** December 31, 2016, Status: On Schedule. The Phase 2 RCRA Facility Investigation Report Draft A for WMAC, RPP-RPT-58339, was transmitted to Ecology on December 23, 2014, via letter 14-TF-0131. This milestone was created by HFFACO change package M-45-14-03, signed October 1, 2014.

**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:** Six (6) months after the approval of the CMS submitted under milestone M-045-61A Status: TPA Change Control form M-45-15-02 approved on April 14, 2015.

**M-045-92, Complete Installation of Four (4) Additional Interim Barriers** (see interim milestones below), Due: October 31, 2017, Status: TBD. TPA Change Control form M-45-15-01 submitted via letter 15-TF-0027 on March 31, 2015. Change was not approved and dispute resolution process was initiated via letter 15-TF-0042 on April 20, 2015. Dispute is at the project manager level and has been extended to August 16, 2015.

**M-045-92N, Construct Barriers 1 and 2 in 241-SX Farm, Due:** October 31, 2015, Status: TBD. TPA Change Control form M-45-15-01 submitted via letter 15-TF-0027 on March 31, 2015. Change was not approved and dispute resolution process was initiated via letter 15-TF-0042 on April 20, 2015. Dispute is at the project manager level and has been extended to August 16, 2015.

**M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3, Due:** June 30, 2015, Status: TBD. TPA Change Control form M-45-15-01 submitted via letter 15-TF-0027 on March 31, 2015. Change was not approved and dispute resolution process was initiated via letter 15-TF-0042 on April 20, 2015. Dispute is at the project manager level and has been extended to August 16, 2015.

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

- Automated data collection systems for T Farm and TY Farm interim barrier monitoring continue gathering data
- Documentation of the WMA-C Phase 2 Resource Conservation and Recovery Act Facility Investigation Report was completed, and RPP-RPT-58339 was transmitted to Ecology on December 23, 2014, completing M-045-61.

#### **Significant Planned Actions in the Next 6 Months:**

- Provide the annual interim barrier monitoring report for information collected in 2014.

#### **Issues:**

- Change control form M-45-15-02 was submitted by ORP via letter 15-TF-0018 to Ecology and was approved on April 14, 2014. The change control form revises the M-045-62 Milestone date for submittal of the Corrective Measures Implementation Plan to

six months after the Corrective Measures Study (CMS) is approved by Ecology. Milestone M-045-62 currently requires submittal of a Corrective Measure Implementation Plan prior to submittal of the CMS. This sequencing is incorrect allows information from the CMS to be used for the development of the Corrective Measures Implementation Plan. Dispute is at the project manager level and has been extended to August 16, 2015.

- Change control form M-45-15-01 was submitted by ORP via letter 15-TF-0027 to Ecology for approval. The change control form proposed modifying the due dates for construction of Barriers 1 and 2 and design and construction of Barriers 3 and 4. Construction of SX Barriers 1 and 2 has been delayed because ORP was required to shift resources to other higher priority, higher risk work scope, including among other things, safety concerns. In addition, Ecology and ORP have yet to agree upon the locations for Barriers 3 and 4. It is proposed that Ecology and ORP discuss Barrier 3 and 4 locations during the M-045-56 Milestone annual interim measure meetings held by the end of July 2015. The change control form was not approved, and the dispute resolution process was initiated via letter 15-TF-0042 on April 20, 2015.

### **SST Retrieval and Closure Program**

**M-045-82, Submit complete permit mod requests for Tiers 1, 2, and 3 of the SST, Due:** September 30, 2015, Status: To be missed. Please see issues.

**M-045-84, Complete negotiations of TPA interim milestones for closure of second WMA,** Due: January 31, 2017, Status: On schedule.

**M-045-83, Complete the closure of WMA-C, Due:** June 30, 2019, Status: On schedule.

**M-045-85, Complete negotiations of TPA interim milestones for closure of remaining WMAs, Due:** January 31, 2022, Status: On schedule.

**M-045-70, Complete waste retrieval from all remaining SSTs, Due:** December 31, 2040, Status: On schedule.

**M-045-00, Complete closure of all SST farms, Due:** January 31, 2043, Status: On schedule.

**M-045-86, Submit retrieval data report to Ecology for 19 tanks retrieved, Due:** To be determined (12 months after retrieval certification), Status: At risk.

- M-045-86C: Retrieval Data Report for C-104 was due March 21, 2014. Completed on February 18, 2014 with letter 14-TF-0013
- M-045-86F: Retrieval Data Report for C-108 was due May 1, 2014. Completed on November 27, 2013 with letter 13-TF-0120
- M-045-86G: Retrieval Data Report for C-109 was due June 4, 2014. Completed on March 13, 2014 with letter 14-TF-0020

- M-045-86H: Retrieval Data Report for C-110 was due January 29, 2015. Completed on August 6, 2014 with letter 14-TF-0086.

**Significant Past Accomplishments:**

- Completed post-retrieval logging of the drywells near C-107, C-112 and C-101 to support the retrieval data reports (RDRs)
- Completed the post-retrieval sample analysis and reporting for tank C-107, in support of the Retrieval Data Report. Completed post-retrieval sampling of C-112 in support of the RDR.
- Completed post-retrieval sampling of C-112 in support of the RDR.
- Complete post-retrieval sampling of C-101 in support of the RDR.
- See discussions above and related discussions in Consent Decree report.

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

- Complete scoping meetings for a performance assessment for WMA A/AX.
- Complete the RDR for tank C-107.
- Perform sample analysis and reporting on post-retrieval samples from tanks C-112 and C-101.
- Develop RDRs for tanks C-112 and C-101.

**Issues:**

ORP and Ecology continue to meet to develop an integrated path forward that addresses all the deliverables associated with Milestone M-045-82. Delays in obtaining the post-retrieval samples from tanks C-112 and C-101 may result in delayed completion of the RDRs.

### Tank Waste Retrieval Work Plan Status

Tank	TWRWP	Expected Revisions	First Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 8	Complete	Modified Sluicing with ERSS	High-Pressure Water deployed with the ERSS	-
C-102	RPP-22393, Rev. 7	Complete	Modified Sluicing with ERSS	High-Pressure Water deployed with the ERSS	-
C-104	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0018	-
C-105	RPP-22520, Rev. 8	Complete	MARS-V	MARS-V-High Pressure Water Spray	-
C-107	RPP-22393, Rev. 7	Complete	MARS-S	MARS-S -High Pressure Water Spray	Water Dissolution
C-108	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0025	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0037	-
C-110	RPP-33116, Rev. 3	Complete	Modified Sluicing	Mechanical Waste Conditioning with an In-Tank Vehicle	High Pressure Water
C-111	RPP-37739, Rev. 2	Complete	Modified Sluicing	High pressure water using the ERSS	Chemical Dissolution Process with ERSS
C-112	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process	-

ERSS = Extended Reach Sluicing System.  
MARS = Mobile Arm Retrieval System.  
S = sluicing.  
TWRWP = Tank Waste Retrieval Work Plan.  
V = vacuum.

#### Significant Accomplishments:

None.

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

Draft AX Farm TWRWPs.

#### 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 6 Months:**

Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A request for additional information 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 Performance Assessment (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: September 30, 2022, Status: On schedule. Change Package M-45-11-04 replaced Tank S-102 with Tank A-103 and changed the milestone completion date for M-045-15 to September 30, 2022.

**M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I**, Due: September 30, 2022, Status: On schedule. Updated with Tank A-103 and due date of September 30, 2022, per Change Package M-45-11-04.

**M-045-15D, Embedded Milestone, if appropriate, DOE will request an exception to waste retrieval criteria pursuant to Agreement Appendix H**, Due: September 30, 2022, Status: On schedule. Updated with Tank A-103 and due date of September 30, 2022, per Change Package M-45-11-04.

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

Change Package M-45-11-04 was signed by ORP and Ecology on April 19, 2011.

**No significant planned activities in the next 6 months and no issues for Tank 241-A-103.**

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

**M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project**, Due: To be determined (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: To be determined, 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.

**No significant planned activities in the next 6 months and no issues for Tank 241-S-112.**