

Final

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



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

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CD = Consent Decree 08-5085-FVS

Administrative Items/Milestone Status
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Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2015				
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	6/17/15	Completed
M-045-56K	Ecology and DOE Agree, at a Minimum, to Meet Yearly (By July)	07/31/2015	7/15/15	Completed
M-045-91H	Submit Change Pkg (if necessary) to est. Additional Milestones	07/31/2015	3/15/15	Completed
M-062-01AE	Submit Semi-Annual Compliance Report	7/31/2015	7/29/15	Completed
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

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2016				
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

AOR = Analyses of Record.

CD-1/-2 = critical decision-1/-2

CR = change request.

DOE = U.S. Department of Energy.

Ecology = Washington State Department of Ecology.

RCRA = Resource Conservation and Recovery Act.

SST = single-shell tank.

TPA = Tri-Party Agreement.

WMA-C = Waste Management Area C.

System Plan

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: In Dispute.

Significant Past Accomplishments:

- 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.
- 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.
- 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 met with Ecology at the Tank Farms TPA and CD monthly status meeting on February 25, 2015.
15. ORP transmitted Letter 15-WSC-0027, ORP's response to Ecology's Letter 15-NWP-004 to Ecology on June 2, 2015. ORP letter provided clarification and several attachments of additional information requested in Ecology's January 14, 2015 letter.

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	Campaign and flush activities completed on June 21, 2015.
FY 2015	EC-02	AZ-102	AP-103	Completed 7/21/15.
FY 2015	EC-03	AZ-102	AP-103	Estimated to begin September 2015.
FY 2016	EC-04	AW-106	AP-103	Estimated to begin February/March 2016 .

FY = fiscal year.

N/A = not applicable.

Significant Planned Actions in the Next 6 Months:

The EC-02 campaign began 7/10/15 and completed 7/21/15. Waste Volume Reduction was 384,000 including all flush activities. Upon completion of the EC-02 campaign, Steam system SIS upgrades are planned to begin.

Issues:

None

Double-Shell Tank System Update

Ultrasonic Testing Inspection

- Ultrasonic testing for tank AN-103 is complete and inspection of the annulus floor has indicated thinning. The report is drafted and going through the approval process.
- Ultrasonic inspection operations are ongoing for tank AN-104. Initial scans have indicated some thinning along the annulus floor. To further evaluate the condition, additional scanning of the annulus floor is currently being performed and the UT work is being completed by ITIVS of South Carolina.

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-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: Complete. Report transmitted to Ecology on June 17, 2015 under ORP letter 15-TF-0059.

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:

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.

Significant Planned Actions in the Next 6 Months:

Begin planning for the SST Integrity Assessment by an IQRPE (M-045-91I).

Issues:

None

In Tank Characterization and Summary

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

Accomplishments:

- Completed RPP-RPT-52516, *Derivation of Best-Basis Inventory for Tank 241-C-112 as of March 3, 2015*, Rev 3.
- Completed RPP-RPT-48745, *Derivation of Best-Basis Inventory for Tank 241-C-107 as of March 1, 2015*, Rev 9.
- Completed RPP-PLAN-55529, *Grab Sampling and Analysis plan for the 241-AY-102A Leak Detection Pit*, Rev 3.
- Completed RPP-RPT-58692, *Tank 241-C-112 Residual Waste Inventory Estimates for Component Closure Risk Assessment*, Rev 1, was released July 27, 2015.
- Completed RPP-RPT-58514, *Tank 241-C-107 Residual Waste Inventory Estimates for Component Closure Risk Assessment*, Rev 1, was released July 27, 2015.
- Performed 241-SY-103 core sampling July 14 through July 27, 2015. Eleven samples were received at the lab.

Planned Action within the Next 6 Months:

Tank sampling:

- Tank 241-AY-102 Leak-Detection Pit grab sampling is planned for August 2015.
- Tank 241-SY-103 Riser 19 core sampling is planned for August 2015.
- Tank 241-AP-105 grab sampling is planned for September 2015.

- Tank 241-C-105 in-process grab sampling is planned for September 2015.

Best-Basis Inventory (BBI) updates:

BBI updates for the following tanks were completed in July:

- 241-C-107
- 241-C-112

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

- 241-AN-106
- 241-AN-107
- 241-AP-107
- 241-AW-102
- 241-AX-101
- 241-C-101
- 241-SX-102

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.
- 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.
- HNF-SD-WM-DQO-001, *Data Quality Objectives for the Tank Farms Waste Compatibility Program*, Rev 21, is in-process to simplify quality control parameters.
- RPP-8532, *Double-Shell Tanks Chemistry Control Data Quality Objectives*, Rev 15, is in-process to identify additional analyses for corrosion mitigation and to simplify quality control parameters.

Issues:

None.

Tank Operations Contract Overview

Project Performance

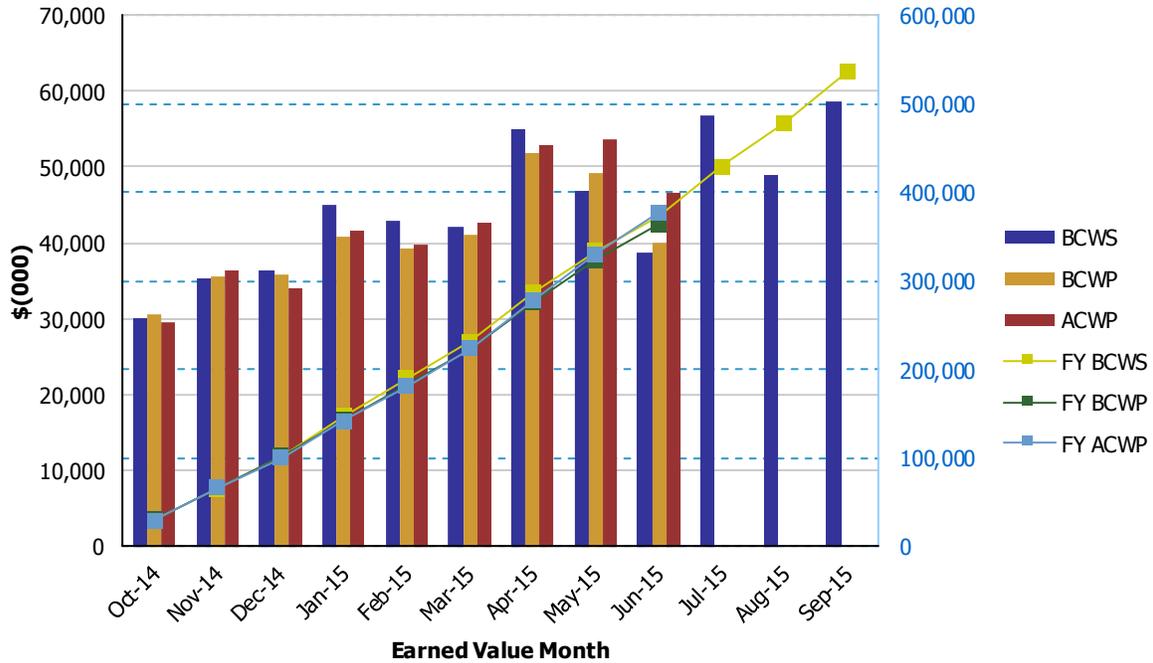
The earned value performance reporting reflects the format, work breakdown structure reporting levels, and variance thresholds as agreed to with the tank operations contractor for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing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

As of June 30, 2015, Washington River Protection Solutions LLC, the Tank Operations Contractor, has worked 253 days without a lost time workday injury and 110 days since the last recordable case. There was no Days Away, Restricted, Dart cases and no recordable cases in the month of May.

June-15										
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	38,744	40,149	46,503	1,405	(6,354)	1.04	0.86			
FYTD	372,420	364,154	376,926	(8,266)	(12,772)	0.98	0.97	549,484.0		
CTD	2,716,326	2,682,634	2,677,872	(33,692)	4,762	0.99	1.00	3,573,080.0	3,535,500.0	37,580.0

Tank Farms ORP-0014

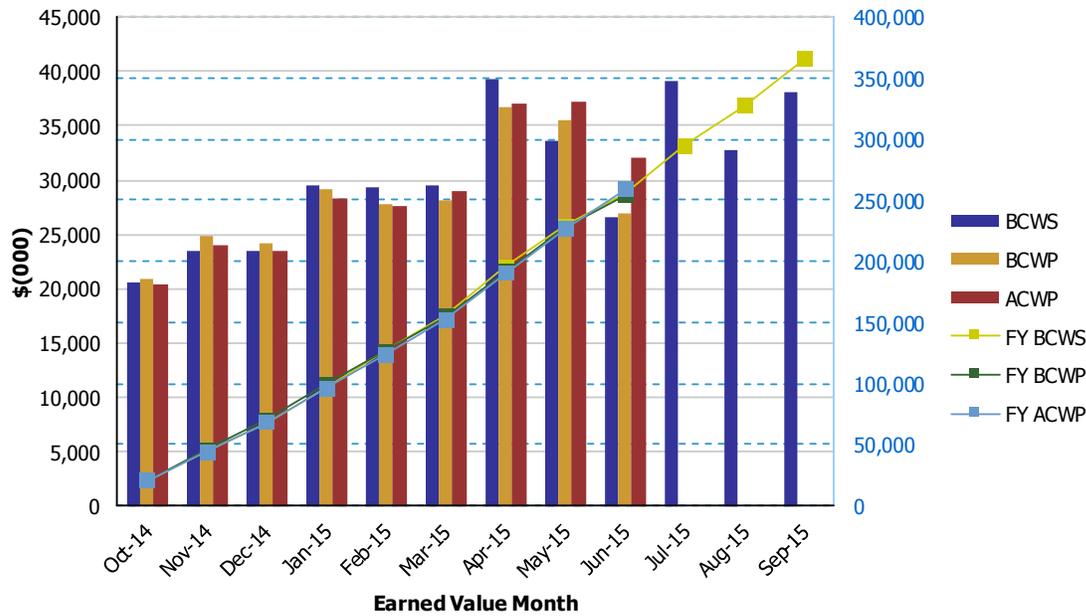
EVMS Monthly and Fiscal Year Values



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	\$46,888	\$49,161	\$53,532	1.05	0.92	\$333,676	\$324,004	\$330,422	0.97	0.98
Jun 2015	\$38,744	\$40,149	\$46,503	1.04	0.86	\$372,420	\$364,153	\$376,925	0.98	0.97
Jul 2015	\$56,899					\$429,319				
Aug 2015	\$48,837					\$478,156				
Sep 2015	\$58,619					\$536,775				
CTD	\$2,716,326	\$2,682,634	\$2,677,872	0.99	1.00					

**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	\$33,584	\$35,557	\$37,250	1.06	0.95	\$228,687	\$227,109	\$226,979	0.99	1.00
Jun 2015	\$26,594	\$26,830	\$32,081	1.01	0.84	\$255,281	\$253,939	\$259,060	0.99	1.02
Jul 2015	\$39,031					\$294,312				
Aug 2015	\$32,790					\$327,102				
Sep 2015	\$38,151					\$365,253				

CTD	\$1,792,708	\$1,779,783	\$1,766,744	0.99	1.01
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Base Operations and Tank Farm Projects

The current month favorable schedule variance (SV) of \$235K is due to the following:

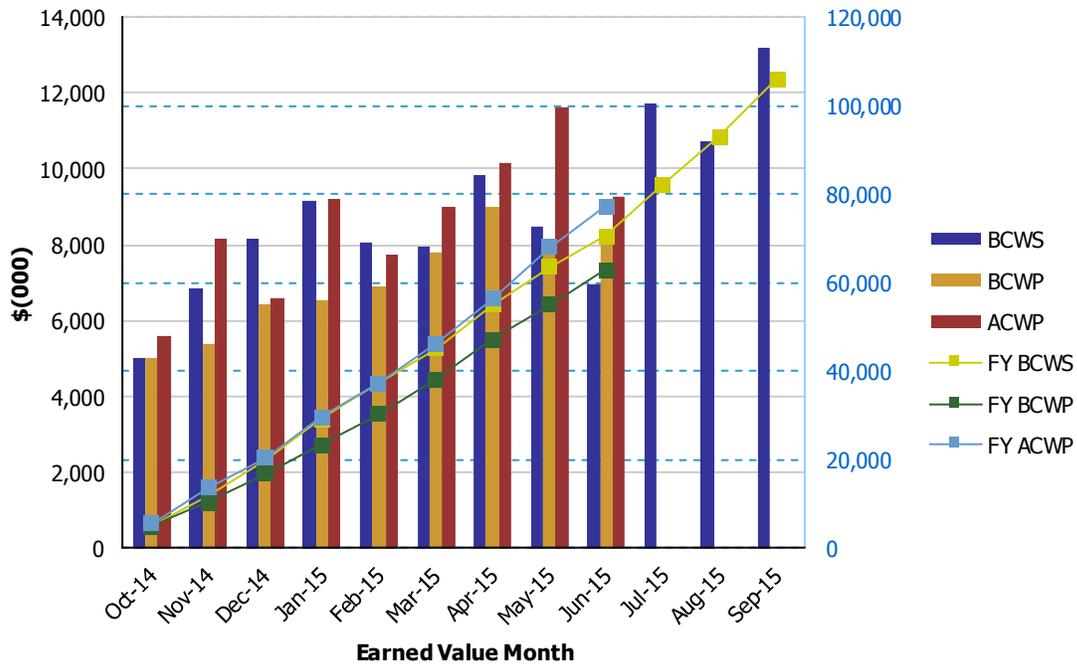
- Schedule recovery of AN-103 Integrity Ultrasonic Testing
- Early completion of the ETF heat exchanger
- Completion of SECDs and further development of the AY-102 WRS Design Integration/Authorization Basis (AB) Amendment

The current month unfavorable cost variance (CV) of (\$5,251K) is due to the following:

- Cost increases due to vapor requirements, increased equipment costs, labor needs 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	\$8,475	\$7,830	\$11,613	0.92	0.67	\$63,554	\$54,954	\$68,079	0.86	0.81
Jun 2015	\$6,981	\$8,021	\$9,247	1.15	0.87	\$70,535	\$62,975	\$77,326	0.89	0.81
Jul 2015	\$11,715					\$82,250				
Aug 2015	\$10,714					\$92,964				
Sep 2015	\$13,179					\$106,143				

CTD	\$576,033	\$558,393	\$586,669	0.97	0.95
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Retrieve and Close Single Shell Tanks

The current month unfavorable cost variance (CV) of (\$1,226k) is due to:

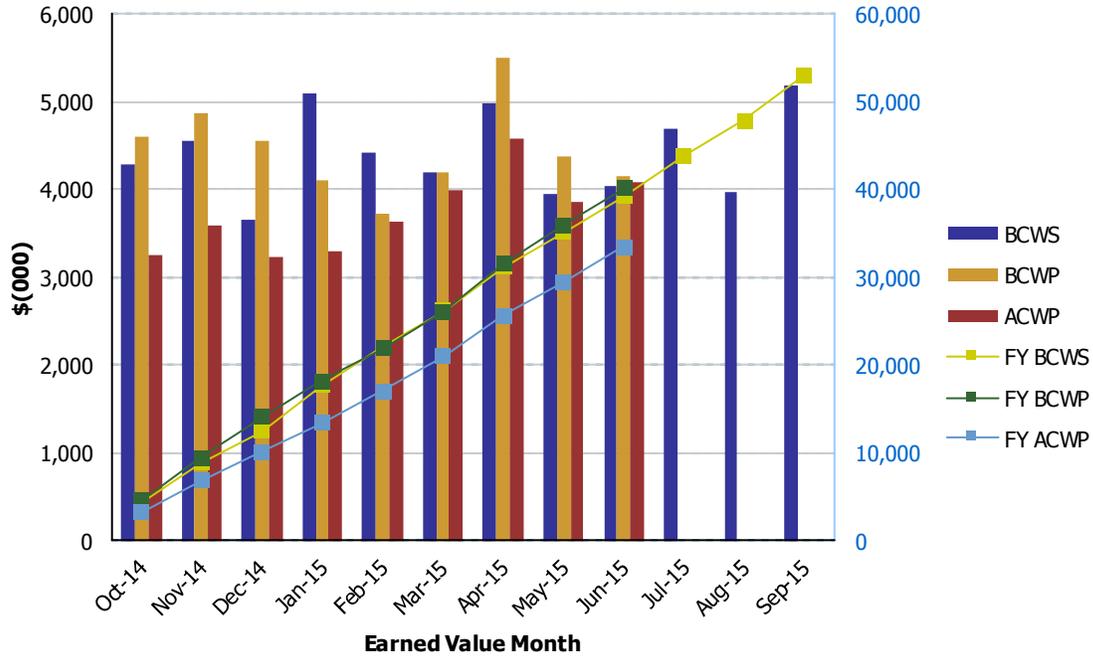
- Limited amount of waste retrieved was retrieved from Tank 241-C-105 during June due to work a stoppage related to a potential hose cage temperature issue (AN-06 Red Arrow). The project team was required to carry the full retrieval crew during this work stoppage.
- Increased/Additional subcontractor utilization related to field activities for the Exhauster Installation, Tower/Stack Extension & Platform Installation located within A/AX Farm due to SCBA requirements.

The current month favorable schedule variance (SV) of \$1,041k is due to:

- Schedule acceleration for the removal of 10 Hose in Hose Transfer Lines (HIHTL) from C-Farm.
- Retrieval operation continued at Tank 241-C-105. An estimate 19k gallons of waste has been retrieved since the last reporting period.

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	\$3,946	\$4,372	\$3,849	1.11	1.14	\$35,112	\$35,961	\$29,440	1.02	1.22
Jun 2015	\$4,043	\$4,154	\$4,082	1.03	1.02	\$39,155	\$40,115	\$33,522	1.02	1.20
Jul 2015	\$4,695					\$43,850				
Aug 2015	\$3,968					\$47,818				
Sep 2015	\$5,179					\$52,997				
CTD	\$315,724	\$312,679	\$293,867	0.99	1.06					

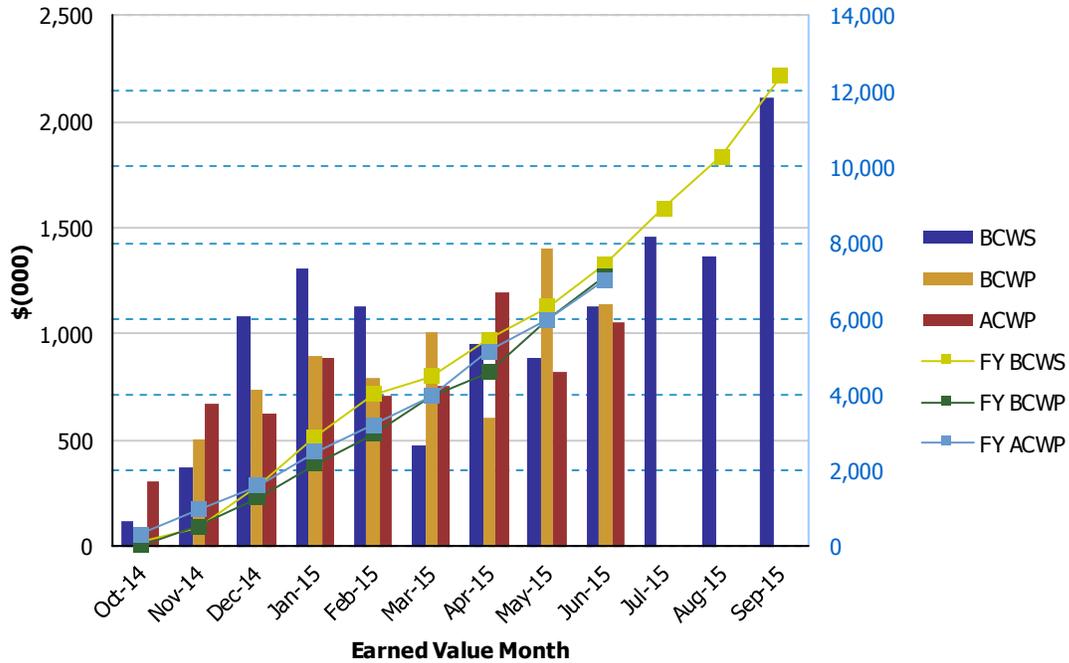
Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure

The current month favorable schedule variance (SV) of \$110K is within the reporting threshold.

The current month favorable cost variance (CV) of \$72K is within the reporting threshold.

**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	\$884	\$1,403	\$818	1.59	1.72	\$6,324	\$5,980	\$5,966	0.95	1.00
Jun 2015	\$1,127	\$1,144	\$1,057	1.02	1.08	\$7,451	\$7,124	\$7,023	0.96	1.01
Jul 2015	\$1,458					\$8,909				
Aug 2015	\$1,367					\$10,276				
Sep 2015	\$2,111					\$12,387				
CTD	\$11,751	\$11,669	\$11,420	0.99	1.02					

Treat Waste

The current month favorable schedule variance (SV) of \$17K is within the reporting threshold.

The current month favorable cost variance (CV) of \$87K is within the reporting threshold.

Work Breakdown Structure 5.2 Retrieve and Close Single-Shell Tanks

M-045-56K, Complete Implementation of Agreed to Interim Measures, Due: July 31, 2015, Status: Complete. Annual meeting was held July 15, 2015

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-045-61A, 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 WMA-C, 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: In Dispute. 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: In Dispute. 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: In Dispute. 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.

- Completed the annual interim barrier monitoring report for data collected in 2014, RPP-ENV-58420.

Significant Planned Actions in the Next 6 Months:

- Continue data collection for T Farm and TY Farm interim surface barrier monitoring.

Issues:

- 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. Dispute is at the project manager level and has been extended to August 16, 2015.

Single Shell Tanks 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: To be missed. Please see issues.

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 Surface Geophysical Exploration (SGE) Level 1 Work Package (A-Farm).
- Completed Draft Residual Volume for C-102, initiated development of the Request to Forgo 3rd Technology.
- Continued Retrieval Operation at C-105 (suspended on 6/18 due to AN-106 Red Arrow).
- Accelerated Quarterly Cord Outage due to An-106 Red Arrow (outage separated into two phases).
- Received C-111 Modified Long Arm ERSS.
- Completed AN-106 Failed Slurry Distributor Disposal Activities.
- Completed AX Farm Tank Retrieval System and DST #1 Receiver Tank Design (preliminary design).
- Completed AX Farm Ventilation Design Verification (ECN/Redline Incorporation).
- Completed A/AX Personnel Office/Bathroom Facility Upgrades Design and Demolition of Existing Trailers Design.
- Completed Glass Waste Forms Data Package for Workshop #3.
- Completed ETF Grout Data Package, Solid Secondary Waste Data Package, and TOC Equipment Waste Data Package for Workshop #4.

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.
- Develop RDRs for tank C-101.
- Complete the RDR for tank C-112.

Issues:

- ORP and Ecology continue to meet to develop an integrated path forward that addresses all the deliverables associated with Milestone M-045-82. ORP submitted change control form M-45-15-03 to Ecology via letter 15-TF-0065 on June 30, 2015.
- Delays in obtaining the post-retrieval samples from tanks C-112 and C-101 may result in delayed completion of the RDRs.
- The HFFACO Appendix I Performance Assessment will not be completed for submittal to ECY until October 2016, along with the submittal of the Phase 2 Corrective Measures Study and revision 0 update to the RFI Report for WMA-C due on December 31, 2016. Currently the review cycle for both the Closure Plans by ECY and the review of the Waste Incidental to Reprocessing decision by DOE do not allow adequate time for completion and to be able to perform field activities necessary to complete by June 30, 2019.

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.