

***Office of River Protection
Tri-Party Agreement/Consent Decree Quarterly Milestone
Review Meeting Minutes***

June 8, 2023

Meeting held virtually, via MS TEAMS

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**OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT
DECREE QUARTERLY MILESTONE REVIEW MEETING MINUTES
June 8, 2023**


CONCURRENCE SIGNATURES

SIGNATURES:


In accordance with the Tri-Party Agreement Section 4.2, Interagency Management Integration Team, any agreements, and commitments resulting from the meeting will be prepared and signed by all parties as soon as possible after the meeting. The undersigned indicate by their signatures that these meeting minutes reflect the actual discussion during this meeting. Signatures denote concurrence with the agreements and commitments resulting from this meeting and do not imply agreement with statements made during this meeting. Attachments to these meeting minutes are provided for informational purposes only.

Approval: **Delmar L. Noyes** Digitally signed by Delmar L. Noyes
Date: 2023.06.26 08:28:16 -07'00'

D.L. Noyes, DOE-ORP IAMIT Representative

Approval: David Bowen, Program Manager  Digitally signed by Howell, Theresa (ECY)
Date: 2023.06.29 06:13:55 -07'00'

D.B. Bowen, Ecology IAMIT Representative

Approval:  Digitally signed by DAVID EINAN
Date: 2023.06.29 08:20:08 -07'00'

D.R. Einan, EPA IAMIT Representative

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TERMS

BBI	Best-basis inventory
BOF	Balance of Facilities
CD	Consent Decree
CD-1	critical decision
CERCLA	<i>Comprehensive Environmental Response, Compensation and Liability Act</i>
DFLAW	direct feed low-activity waste
DOE	U. S. Department of Energy
DSA	Documented Safety Analysis
DST	double-shell tank
Ecology	Washington State Department of Ecology
EIS	Environmental Impact Statement
EMF	Effluent Management Facility
EPA	U.S. Environmental Protection Agency
ERSS	Extended Reach Sluicer System
ETF	Effluent Treatment Facility
EVMS	earned value management system
FY	fiscal year
HIHTLs,	Hose-in-Hose Transfer Lines
IAMIT	Inter-agency Management Integration Team
IMUST	Inactive Miscellaneous Underground Storage Tanks
IQRPE	Independent Qualified Registered Professional Engineer
LAW	Low-activity waste
LBL	LAW Facility, Balance of Facilities and Lab
LERF	Liquid Effluent Retention Facility
MUST	Miscellaneous Underground Storage Tank
ORP	U. S. Department of Energy, Office of River Protection
PA	Performance Assessment
PMM	project manager meeting
PT	Pretreatment
RAD	Radiation absorbed dose
RCRA	<i>Resource Conservation and Recovery Act</i>
SST	single-shell tank
TPA	Tri-Party Agreement
TSCR	tank-side cesium removal
TWRWP	tank waste retrieval work plan
UT	Ultrasonic Test
WIR	Waste Incidental to Reprocessing
WMA-A/X	Waste Management Area A/AX
WMA-C	Waste Management Area C
WRPS	Washington River Protection Solutions LLC
WTP	Waste Treatment and Immobilization Plant

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1.0 ADMINISTRATIVE ITEMS/MILESTONE STATUS/ACTIONS

Upcoming Meetings

The next U.S. Department of Energy-Office of River Protection (ORP) Tri-Party Agreement (TPA) Quarterly Milestone Review Meeting is scheduled for September 12, 2023. The next ORP TPA Project Managers Meeting is scheduled for July 13, 2023.

Recent Items Entered Into the Hanford Administrative Record

*The Office of River Protection Tri-Party Agreement and Consent Decree monthly reports for the period of April 1 – April 30, 2023, were entered into the Hanford Administrative Record (AR) on May 30, 2023. *See also, “Items Entered into the Hanford Administrative Record” attached to these meeting minutes. The approved meeting minutes from the May 11, 2023 ORP TPA/CD Project Managers Meeting were added to the Hanford AR on June 6, 2023.*

*See also, the “Key Documents List” attached to these meeting minutes for other related documents recently submitted to the Hanford Administrative Record.

Tri-Party Agreement Milestones Status

ORP stated all TPA milestones reported on were either Complete, On Schedule, In Abeyance, At Risk, To Be Missed or In Dispute Resolution (for details on specific milestones, see pages 1-2 of the April 2023 ORP TPA Monthly Report).

ORP noted that Milestone M-062-51 (“Achieve Substantial Completion of LERF/ETF Construction Upgrades Necessary for LAW Hot Commissioning”, due 04/15/23) was completed on schedule.

ORP reported that Milestone M-062-53 (“Effluent Management Facility Cold Commissioning”, due 08/15/2023) was completed on 05/03/23 (which is outside the current reporting period for this report).

Emergent Issues (Past 3 Months):

1. At the 02/09/23 ORP TPA PMM, ORP reported, per RPP-9937, an intrusion at Tank 241-S-107, and formally sent notification on the intrusion the week of 02/06/23. ORP provided an update, stating that a response plan had been developed. Meetings have been held with Ecology, and Ecology agreed this item could be removed from the “Emergent Issues”.

Actions:

Action No. 1 (TF-21-02-01): ORP reported it was ready to begin discussions with Ecology on the timing and content of the Tribal briefings. This closed the action. However, a new action was created for Ecology and ORP to discuss the proposed content of the briefings prior to setting a time for the briefings. *This action was closed.*

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Action No. 2 (TF-21-07-04): ORP reported receiving draft permit conditions from Ecology in the RCRA Permit Rev. 9 workshops that pertain to the DST Leak Response Plan, but the action will still remain open. *This action remains open.*

Action No. 3 (TF-23-04-01): The TSCR briefing is scheduled for 06/13/23. *This action was closed.*

Action No. 4 (TF-23-05-01): At the 05/11/23 TPA Project Managers Meeting (PMM), Ecology requested a briefing on the Sampling and Analysis Plans for grab samples and other samples conducted on Double Shell Tanks, with particular emphasis on tanks 241-SY-101 and 241-AN-104. ORP reported it was still preparing the briefing for Ecology. *This action remains open.*

Action No. 5 (TF-23-05-02): At the 05/11/23 PMM, Ecology requested a brief overview at the 06/08/23 Quarterly, and subsequent PMMs, on ORP's plan to address and subsequent progress on new requirements stemming from the May 10, 2023 settlement of Heart of America Northwest's appeal of the Agreed Order between DOE-ORP and Ecology. After discussion, the Parties agreed to close this action but create a new action. The new actions calls for the Parties to discuss how and when to include Heart of America in discussions and briefings; responding to stakeholder comments; and the timing of System Plan 10 and how that timing affects satisfying the terms of the settlement. Ecology requested the discussion take place before the next ORP PMM (07/13/23). *This action was closed.*

Key Documents List:

The Key Documents List (*Items Recently Submitted to the Hanford Administrative Record and Status of Current TPA Change Notices*) was presented and is attached to these meeting minutes. There were no comments.

2.0 AGREED ORDER ACTIONS

*Note: On August 25, 2022, the State of Washington Department of Ecology Administrative Order, Agreed Order Docket No. 21304, Agreed Order Between Ecology and DOE, regarding Single-Shell Tanks (SSTs) 241-B-109 and 241-T-111 was signed.

- ORP reported that Agreed Order Actions, A-022-01 ("Submit SST System Leak Response Plan"), A-022-02, ("Submit results of intrusion investigation and, if applicable, Intrusion Response Work Plan") and A-022-04 ("Submit active ventilation practicability evaluation and determination"), all due 08/25/23, were on schedule. ORP reported there was a meeting held on 06/07/23 where ORP briefed Ecology on the draft Leak Response Plan (AO-022-01).

3.0 222-S LABORATORY

*Note: The 222-S Laboratory is reported at length on a bi-monthly basis. On alternate months, the 222-S Laboratory information is condensed and summarized. This month was the condensed report.

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Significant Past Accomplishments

- None reported.

Significant Planned Activities

- Receive and analyze core samples from Tank AN-104 and Tank-Side Cesium Removal effectiveness grab sample from Tank 241-AP-106. ORP provided an update to note that the analysis on the Tank 241-AN-104 core samples was underway.
- Replace windows on 11A2 and 11A3 hot cells. An additional window replacement on 11A4 is scheduled for later in fiscal year 2023.

Issues/Other Items

- None reported.

4.0 SYSTEM PLAN

Significant Past Accomplishments

- None reported.

Significant Planned Actions in the Next Six Months

- Perform modeling and analysis of selected scenarios and develop the System Plan, Rev. 10 in support of Milestone M-062-40J. ORP reported meetings with Ecology on the System Plan 10 scenarios continue, with the final meeting scheduled the week of June 12, 2023.
- Conduct a review of the draft System Plan document, incorporate comments, and finalize the document. Draft sections of the document have been shared with Ecology for initial comments prior to the formal comment on the final document, sometime in late summer or early fall 2023.

Issues/Other Items

- None reported.

5.0 ACQUISITION OF NEW FACILITIES

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Nothing reported.

Issues/Other Items

- Nothing reported.

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**6.0 SUPPLEMENTAL TREATMENT AND RCRA PART B PERMIT
APPLICATIONS**

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Nothing reported.

Issues/Other Items

- Milestone M-062-21 is still identified as “At Risk,” although the due date was extended for one year to 09/31/24, via TPA Change Control Form M-62-23-04 (signed 05/26/23). The extension will allow DOE and Ecology to continue discussions in the “Holistic Negotiations” that might affect this milestone. Operational data for the WTP, as described for the milestone, will not be available to support accurate mission forecasting. ORP expects incremental extensions for the due date of this milestone as it continues to be discussed in the Holistic Negotiations. The same “At Risk” status also applies to Milestone M-062-21A, which is the first annual iteration of the milestone.

7.0 LOW ACTIVITY WASTE PRETREATMENT SYSTEM

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Complete and issue the Analysis of Alternatives (AoA) for the Low Activity Waste Pretreatment (LAWP) Capability.
- Continue conceptual design for the LAWP capability based on selected alternative.

Issues/Other Items

- Nothing reported.

8.0 TANK SIDE CESIUM REMOVAL SYSTEM (TSCR)

Significant Past Accomplishments

- Nothing Reported.

Significant Planned Actions in the Next Six Months

- Complete the first TSCR processing campaign. ORP reported TSCR is currently in maintenance mode and ORP is working towards resolving issues observed during the operation of the first processing campaign. ORP is planning to restart Batch 3 in mid-June 2023. ORP also reported it will brief Ecology on June 13, 2023 to go over the

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lessons-learned during the first processing campaign and to give details on the upcoming schedule for resuming processing.

Issues/Other Items

- None reported.

9.0 TEST BED INITIATIVE DEMONSTRATION

Significant Past Accomplishments

- ORP began informal review sessions with Ecology on the draft Research, Development, and Demonstration permit application package. ORP provided an update to note that the review sessions were now complete and responses to Ecology’s initial comments have been incorporated into to the permit application. ORP expects to submit the formal application on June 8 or 9, 2023.

Significant Planned Actions in the Next Six Months

- Nothing reported.

Issues/Other Items

- Nothing reported.

10.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Complete repairs and fitness-for-use evaluation related to a freeze event at the 242-A Evaporator. ORP reported the repairs are to valves and are scheduled for completion on June 26, 2023.

Issues/Other Items

- Nothing reported.

**11.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT
TREATMENT FACILITY**

Significant Past Accomplishments

Operations

- None reported.

Projects

- None reported.

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Significant Planned Actions in the Next Six Months

Operations

- Prepare facilities for Fiscal Year 2023 processing campaigns. ORP added that LERF/ETF is currently in outage mode and working towards completing all the infrastructure upgrades necessary to support the next processing campaign and DFLAW operation.

Projects

- None reported.

LERF Volumes

- See pg. 25 of the April 2023 TPA Monthly Report.

Issues/Other Items

- Nothing reported.

12.0 TANK SYSTEM UPDATE

12.1 Double-Shell Tank Integrity

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Nothing reported.

Ultrasonic Testing Report Status

- Nothing reported.

Issues/Other Items

- Nothing reported.

12.2 Single-Shell Tank Integrity

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Release RPP-RPT-63488, Structural Assessment of Concrete Damage in the Hanford SX Tank Farm Single-Shell Tanks, Rev. 0. ORP provided an update to note that the report was released and had concluded that the spalling observed in the SX Tank Farm tanks does not impact the ability to safely store waste.
- Complete SST visual inspection at Tanks 241-A-106, 241-BY-106, 241-BX-101, 241-

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BX-110, 241-BX-111, 241-C-101, 241-C-110, 241-SX-111, and 241-SX-112. ORP noted that the 241-SX-111 visual inspection was completed and minor additional spalling in the tank was observed.

RPP-9937, Single-Shell Tank System Leak Detection and Monitoring Functions and Requirements Document, Rev. 5 Updates

Baseline Change Authorizations Implemented

- Three interstitial-liquid level SST Baseline Change Authorizations were implemented due to waste redistribution after pumping (Tanks 241-BY-105, 241-TX-112, and 241-TX-116).

Specification Limit Exceedance

- Two Miscellaneous Underground Storage Tanks exceeded their lower specification limits (Tanks 241-A-350 and 241-EW-151) due to A Tank Farm exhaustor operation and completion of pumping operations, respectively.
- One interstitial-liquid level exceeded its upper specification limit (Tank 241-BY-103) due to a known intrusion.

Issues/Other Items

- Nothing reported.

13.0 IN-TANK CHARACTERIZATION AND SUMMARY

13.1 Reports Completed or Released

- See page 32 of the April 2023 TPA Monthly Report for details.

13.2 Tank Sampling

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Nothing reported.

Issues/Other Items

- Nothing reported.

13.3 Best-Basis Inventory Updates

Significant Past Accomplishments

- Nothing reported.

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Significant Planned Actions in the Next Six Months

- Nothing reported.

Issues/Other Items

- Nothing reported.

14.0 SINGLE-SHELL TANK CLOSURE PROGRAM

Significant Past Accomplishments

- Completed mobilization for construction of the U Tank Farm interim surface barrier on April 4, 2023, in support of Milestone M-045-92AB. ORP provided an update, noting that subgrade work began 05/01/23. The start of asphalt installation is scheduled to begin on 07/23/23, with barrier completion targeted for 09/13/23.
- Submitted to Ecology the following SST System closure plans for the Hanford Site Hazardous Waste Facility Permit via letter 22-ECD-001344, dated April 10, 2023:
 - RPP-RPT-58858, Tier 1 Closure Plan Single-Shell Tank System, Rev. 3
 - RPP-RPT-59389, Tier 2 Resource Conservation and Recovery Act (RCRA) Closure Action Plan for Waste Management Area C, Rev. 1
 - RPP-RPT-59390, Tier 3 Resource Conservation and Recovery Act (RCRA) Component Closure Activity Plan for 241-C-200 Series Tanks, Rev. 3
 - RPP-PLAN-63246, Tier 3 Resource Conservation and Recovery Act (RCRA) Component Closure Activity Plan for the 241-C-107 through 241-C-112 Tanks, Rev. 2
 - RPP-PLAN-63990, Tier 3 Resource Conservation and Recovery Act (RCRA) Component Closure Activity Plan for the 241-C-101 through 241-C-106 Tanks, Rev. 1.
- Submitted to Ecology RPP-RPT-61684, Maintenance and Performance Monitoring Plan for the Interim Surface Barriers Program, Rev. 3B, via letter 23-TF-001637, dated April 27, 2023. RPP-RPT-61684 was updated in response to Ecology comments provided via letter 23-NWP-038, dated March 31, 2023. There were no further comments received from Ecology and the document is now considered final.

Significant Planned Activities in the Next Six Months

- Meet with Ecology to fulfill Milestone M-045-56S. The annual meeting has been scheduled for June 28, 2023.
- Respond to Ecology's comments on RPP-PLAN-64857, Phase 2 RCRA Facility Investigation/Corrective Measures Study Work Plan for Waste Management Area A-AX, Rev. 0, provided via letter 22-NWP-187, dated December 30, 2022. DOE requested an extension to provide responses to Ecology's comments and to provide a plan for updating the document by July 31, 2023, via letter 23-TF-001336, dated April 27, 2023. RPP-PLAN-64857, Rev. 0, was submitted to Ecology via letter 22-TF-002530, dated August 31, 2022, to complete Milestone M-045-98 ("Submit to Ecology as a Primary Document

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a RFI/CMS work plan for WMA A-AX, including an implementation schedule in accordance with TPA Action Plan Section 11.6.”).

Issues/Other Items

- Nothing reported.

15.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Significant Past Accomplishments

- Refer to the Consent Decree portion of these meeting minutes (Section 2.0, pg. 10).

Significant Planned Activities in the Next Six Months

- Refer to the Consent Decree portion of these meeting minutes (Section 2.0, pg. 10).

Issues

- ORP reported that TPA Milestone M-045-15 was being held In Abeyance (Reference IAMIT Determination Number 2023-006, which temporarily suspended this milestone through May 31, 2023, which continued its status of “In Abeyance”). DOE previously reported TPA Milestone M-045-15 as "At-Risk" during the July 2021 TPA PMM. This milestone deals with an assumed primary discussion topic in the “Holistic Negotiations.” The outcome of the ongoing Holistic Negotiations between DOE, Ecology, and EPA may inform the path forward for addressing this milestone.

16.0 TANK OPERATIONS PROJECT SCHEDULE AND COST VARIANCE PERFORMANCE

*Note: reporting is one month behind the rest of the data in this report.

Base Operations:

The March 2023 variances below do not impact TPA milestones.

- ORP reported a favorable schedule variance of \$717,900.
- ORP reported a favorable cost variance of \$291,600.

Waste Feed Delivery/Treatment:

The March 2023 variances below do not impact TPA milestones.

- ORP reported an unfavorable schedule variance of \$2,545,300.
- ORP reported an unfavorable cost variance of \$438,200.

Treat Waste:

The March 2023 variances below do not impact TPA milestones.

- ORP reported an unfavorable schedule variance of \$588,542.
- ORP reported a favorable cost variance of \$73,241, which is below reportable thresholds.

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1.0 CONSENT DECREE MILESTONES/ADMINISTRATIVE ACTIONS

Consent Decree Milestones Status

ORP reported Consent Decree (CD) milestones as Complete, On Schedule, At Risk, or Under Analysis (see pages 1-2 of the ORP April 2023 Consent Decree Monthly Report).

Consent Decree Issues and Action Items

For reference, see attached “ORP/Ecology TPA and CD Agreements”.

Emergent Issues:

There are no current issues.

Actions:

Action No. 1 (WTP-22-12-01): ORP is still working on scheduling a briefing for Ecology on the status of and progress to date on the LAW Melter Off-Gas System. ORP said it preferred waiting at least two weeks before providing the briefing to allow the project to focus on melter restart. Ecology accepted this and said the briefing could occur when the timing allows. *This action remains open.*

2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

*Note: cost and schedule data is one month behind the rest of the monthly reporting.

Project Schedule and Cost Variance Performance

- ORP reported a favorable schedule variance of \$1.18 million.
- ORP reported a favorable cost variance of \$2.38 million.

Significant Accomplishments during the Prior Month

- None reported.

On-Going Activities

- Continued Tank 241-AX-101 retrieval operations. Total waste volume retrieved was reported at 40% (as of 06/08/23).

Significant Planned Activities in the Next Month

- Complete new riser installation mockup and equipment testing to support future Tank 241-A-106 new riser installation. ORP added that formal mockup activities will continue throughout June 2023 to ensure the workforce is prepared to make additional improvements.

Issues/Other Items

- Ecology asked when retrieval operations will begin on Tank 241-A-101. ORP forecasted startup in late June 2024.

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3.0 TANK WASTE RETRIEVAL WORK PLAN STATUS

Significant Accomplishments during the Prior Month

- Nothing reported.

Significant Planned Activities in the Next Month

- Transmit the A-101 Tank Waste Retrieval Work Plan Revision 1 to Ecology. ORP provided an update to note that the report was transmitted, and Ecology approval was received.

Issues/Other Items

- Nothing reported.

4.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

Project Schedule and Cost Variance Performance

ORP reported an unfavorable schedule variance of approximately \$4.0M, primarily due to:

- LBL facilities and services continued to report an unfavorable schedule variance due to impacts from challenges encountered during execution of pre-Melter 1 heatup testing and plant preparation activities. Other contributing factors were emergent work related to melter joule heater power supply system testing and repairs; emergent work related to LAW Facility offgas system issues; and prioritization of emergent corrective maintenance field work and deferral of non-critical preventative maintenance.
- ORP also noted a major contributing factor to the variance was simply work being scheduled that was not conducted when it was initially planned. ORP also anticipates getting variances favorably adjusted as the project begins melter heatup.

ORP reported a net unfavorable cost variance of (\$16.2M) primarily due to:

- LBL facility services continued to report an unfavorable CV due to impacts from challenges encountered during execution of pre-Melter 1 heatup testing and plant preparation activities. Other contributing factors were delays due to challenges encountered during LAW Facility offgas system; higher demand for corrective maintenance scope; and increased demand for work package planning, corrective maintenance, and craft personnel support to address current system issues.

Issues/Other Items

- Ecology asked if ORP can recover schedule time with current and future delays. ORP replied that it is in the commissioning phase and delays are expected, but there is no way to recover schedule. The project is focused on making sure all systems are functioning correctly and will have to accept any delays during the commissioning process.

5.0 PRETREATMENT FACILITY

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Project Schedule and Cost Variance Performance

- Nothing reported.

Significant Accomplishments during the Prior Month

- Nothing reported.

Ongoing Activities:

- Nothing reported.

Significant Planned Activities in the Next Month

- Nothing reported.

Issues/Other Items

- Nothing reported.

6.0 HIGH-LEVEL WASTE FACILITY

Project Schedule and Cost Variance Performance

- Nothing reported.

Significant Accomplishments during the Prior Month

- Nothing reported.

Ongoing Activities:

- ORP is continuing to implement key activities, including updating the project's functional and design requirements, implementing DFLAW Lessons Learned, developing key design and project management processes, planning for updates of codes and standards (including incorporating DOE Nuclear Safety Standard 1189), and establishment of the project control strategy for re-baseline of the HLW Facility.
- ORP continued to advance HLW Facility design and hazard analyses for key mechanical and process systems.

Significant Planned Activities in the Next Month

- Issue a Request for Proposal to Bechtel National, Inc., for the HLW Facility design completion period. ORP stated it would be sending the draft proposal to DOE Headquarters for approval in the next week (June 11, 2023). ORP has set a design-completion date of 2027.

Issues/Other Items

- ORP reported that project construction has been limited while design work continues, implementing a lesson-learned from the DFLAW project, though construction continues on building enclosure as well as some crane rails and shield doors. Current construction

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staff level is 235. ORP is also looking at expanding the boundaries of the HLW Facility to support construction. Constructing additional support roads is also being considered.

- ORP reported contractor staffing levels working on the HLW Facility design had gone up from 160 last year to a current level of 250.
- ORP is considering an electrical-powered steam plant, rather than diesel-powered. Preliminary design work has begun.
- Ecology asked if ORP expects an approval from DOE Headquarters on the preliminary Request for Proposal for the redesign of the HLW Facility. ORP anticipated approval from Headquarters, though some minor changes are expected.

7.0 LOW-ACTIVITY WASTE FACILITY

Project Schedule and Cost Variance Performance

- Nothing reported.

Significant Accomplishments during the Prior Month

- Completed modifications to the Melter 1 power supply cooling system. Some leaks and debris (sand) were found in the system. The leaks were repaired, and the system was chemically flushed.
- Reinstalled Melter 1 power supply drivers to support upcoming system testing.
- Completed flushing of the caustic scrubber and gasket installation to support high-flow testing of the melter offgas system.

On-Going Activities

- Continue commissioning activities for the LAW Facility auto-sampling system.
- Continue commissioning activities for the LAW Facility glass former reagent system.

Significant Planned Activities in the Next Month

- Complete testing of the joule heater power supply system for Melter 1.
- Complete testing of the melter offgas system.

Issues/Other Items

- ORP forecasted resuming heatup of Melter 1 during the week of June 12, 2023.

8.0 BALANCE OF FACILITIES

Project Schedule and Cost Variance Performance

- Nothing reported.

Significant Accomplishments during the Prior Month

- ORP conducted a series of evaluations to investigate performance improvement options for the LAW and BOF glass former reagent system. As part of this effort, a value engineering study was performed, and a new direction emerged that features building a

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warehouse-type of facility that will house two or three glass-former silos. This facility, separate from BOF, will allow better control of material shipped to the Low Activity Waste Facility.

On-going Activities:

- ORP continues to refine the direct-delivery-by-truck method for delivering glass former agent to the LAW Facility.
- ORP continued design modification efforts to resolve on-going issues with Glass Former Facility performance.
- ORP continued system operations to support LAW Melter 1 heatup and tuning.

Significant Planned Activities in the Next Month

- None reported.

Issues/Other Items

- ORP offered Ecology a briefing on design changes and the evolution of Balance of Facilities from its initial design intended to support HLW, PT and LAW. Ecology accepted the offer and ORP will work with Ecology on scheduling.

9.0 ANALYTICAL LABORATORY

Project Schedule and Cost Variance Performance

- Nothing reported.

Significant Accomplishments during the Prior Month

- Nothing reported.

Ongoing Activities:

- ORP continued design modifications to the LAB ventilation systems to support laboratory instrumentation requirements.

Significant Planned Activities in the Next Month

- Nothing reported.

Issues/Other Items

- ORP reported that the vendor working to balance the airflow/ventilation system in the lab (the C3 System) has been working closely with ORP for the last two weeks to the point where the Lab can now begin fume hood certification. ORP reported fume hood certification began this week (June 5, 2023).



THE HANFORD SITE

Office of River Protection Monthly and Quarterly Tri-Party Agreement Milestone Review

Monthly Reporting Period

April 1 – 30, 2023

June 8, 2023

Agenda

- Safety Culture Share
- Tank Farms Quarterly TPA Review (8:30 am – 10:15 am)
 - Past Agreements/Actions/Emergent Issues
 - Key Documents
 - Agreed Order Action Items
 - Consent Decree
 - Tri-Party Agreement
 - Questions?
- WTP (10:15 am – 11:00am)

Note: This quarterly meeting also meets the requirements for the monthly TPA review per section 4.1 of the TPA.

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – June 2023 Meeting

Agreements:

1. Per an Ecology standing request (4/21/2016), ORP agrees to include any written directives given by DOE to the contractors for work required by the CD in future quarterly CD Reports (see CD Section IV-C-1-e).
2. The ORP and Ecology PMs have developed, signed, and entered an outline for the CD Tank Completion Certification into the TPA Administrative Record. A briefing to senior management will occur if any follow-on actions arise.

Ecology and ORP have agreed to move the TPA/CD PMM meeting to the second Thursday of the month starting in December 2019. The TPA and CD monthly reports distribution will occur by the end of each month via link to the Admin Record. Ecology requested at the December 2019 meeting that this form be included with the email that includes the links to the monthly reports. This will be the format for report distribution and monthly meetings going forward.

Emergent Issues (Past 3 months):

1. February 9, 2023: Per RPP-9937, ORP reported an intrusion at Tank 241-S-107, and formally sent notification on the intrusion the week of February 6, 2023. ORP is working on a response plan. During the Quarterly Tri-Party Agreement meeting on March 9, 2023 ORP provided an update and reported that a response plan had been developed and a meeting with ECY had been scheduled for March 15, 2023. Parties are working together to determine a new meeting date due to a schedule conflict.

Action Items: (Updated information in blue)

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	TF-21-02-01 11 Feb 2021	Ecology requested a ‘dry run’ meeting for Informational meeting with Tribes regarding the upcoming SST/WMA-C closure RCRA permitting Actions. ORP to provide a target date for a proposed public informational workshop briefing on permitting activities	DOE is in agreement and will plan to conduct a briefing covering the general overall closure process and Appendix I PA for WMA-C. The audience for the briefing will be, Tribes, Oregon, HAB, Public. Timing will be approximately 1 month before the public comment period begins for the permitting action.	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – June 2023 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		<p>associated with WMA-C closure, which will take place prior to formal public comment. ORP will also identify a date for a proposed dry-run of this meeting. Note: ORP will have a better estimate on that date after discussions with it's the DOE / Ecology Permitting group</p>	<p>It will be clarified for all participants that any comments should be submitted as part of the permitting action.</p> <p>DOE will present on the following:</p> <p>Overview of TPA closure process</p> <p>Results of Appendix I PA</p> <p>Summary of 435.1 PA</p> <p>Summary of RCRA CA</p> <p>Summary of Past Leaks</p> <p>Summary of Baseline Risk Assessment</p> <p>Ecology will present on the following:</p> <p>Closure Plans</p> <p>5/13/21: ORP to forward e-mails to Ecology for review about dry run concerns.</p> <p>7/8/21: ORP stated it was waiting for a proposed date for the public meeting before scheduling the dry run.</p> <p>8/12/21: ORP noted it was still working to address Ecology comments on the Baseline Risk Assessment, and until those comments are addressed, it cannot commit to a meeting date.</p>		

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – June 2023 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			<p>9/9/21: ORP stated it had received comments from Ecology on its initial responses to Ecology’s comments on the Baseline Risk Assessment, which it is responding to. The document is not final.</p> <p>10/14/21: ORP reported receiving Ecology letter 21-NWP-174, dated October 6th, 2021, which submitted Ecology’s comments on RPP-RPT-58329 (Risk Assessment for Contaminated Soils, Vadose Zone, Sediments for Waste Management Area C). ORP suggested it would be better to resolve the comments on Rev. 3A of the Baseline Risk Assessment prior to engaging Tribes and stakeholders.</p> <p>01/13/22: No update in status.</p> <p>02/10/22: ORP and Ecology agree a dry-run and briefing to the public are still in order, however, the Parties agreed that those should take place after the WMA-C Baseline Risk Assessment and RCRA Permit Modification drafts are issued.</p> <p>03/10/22: ORP (P. Schroder) agreed to identify a tentative date for holding a dry-run of the briefing for the Tribes.</p> <p>04/14/22: ORP is still working to identify a tentative date for holding the dry-run.</p>		

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – June 2023 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			<p>05/12/22: ORP reported that discussions continue between the parties on resolving Ecology’s comments.</p> <p>06/09/22: There was no change in status, however, ORP anticipated the dry-run would be held about a month prior to the briefing to the Tribes (which has yet to be scheduled).</p> <p>July 2022 – January 2023 PM meetings: There was no change in status.</p> <p>02/09/23: ORP reported it is near completion on the draft closure plan, and after some discussions between DOE and Ecology Legal representatives, ORP has drafted a cover letter for transmittal.</p> <p>03/09/23: ORP reported discussions between Ecology Legal and DOE Legal on the cover letter content are complete and the draft letter is working through the review and approval process.</p> <p>04/13- 05/11/23: ORP reported there was no change in status.</p>		
2	TF-21-07-04 20 July 2021	Tracking of Ecology’s Comments on the DOE-ORP DST Leak Response Plan (RPP-PLAN-64245, REV. 0)	<p>Parties have agreed to meet. ORP to provide meeting times to ECY.</p> <p>11/18/21: Ecology has not received a response on proposed meeting times.</p>	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – June 2023 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		Reference: 21-NWP-109 (07/19/21)	<p>12/9/21: Ecology noted a meeting was scheduled for 12/20/21, after which, the action could be closed.</p> <p>01/13/22: The parties have met, but an additional meeting is needed prior to closing this action.</p> <p>02/10/22: Meeting is scheduled for 02/14/22.</p> <p>03/10/22: No change in status. Ecology requested a follow-up meeting.</p> <p>04/14/22: Ecology and ORP have met to discuss, and a Review Comment Record (RCR) has been established and is being worked on by ORP.</p> <p>05/12/22: ORP reported that discussions continue between the parties on resolving Ecology’s comments.</p> <p>June/July 2022 Meetings: There was no change in status.</p> <p>08/11/22: Ecology has offered ORP a number of dates/options in August for scheduling the next round of discussions.</p> <p>09/08/22: Ecology reported not receiving a response from ORP on proposed August</p>		

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – June 2023 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			<p>meeting dates and would send September dates to ORP.</p> <p>10/13/22: ORP reported a meeting was held in August with Ecology where it was agreed that comments on the DST Leak Response Plan were being addressed in the RCRA Permit Rev. 9 discussions, and as such, ORP proposed closing this action. Ecology’s Project Manager was not present, so no decision was made on closing the action.</p> <p>11/10/22: Ecology’s Project Manager was not present, so no decision was made on closing the action.</p> <p>12/08/22: ORP will discuss closing this action with Ecology’s Project Manager.</p> <p>01/12/23: Ecology’s Project Manager was not present to make a decision, so the action will be carried until the next PMM.</p> <p>02/09/23 – 03/09/23: Ecology is continuing discussions on a proposed path forward.</p> <p>04/13- 05/11/23: <i>There was no change in status.</i></p>		
3	TF-23-04-01 13 Apr. 2023	Ecology requested a briefing/update on the progress of TSCR, with an emphasis on the response to	Ecology said the requested briefing did not have to be more than 2-3 slides and said the briefing could be done over Microsoft TEAMS.	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – June 2023 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		the leaking ion-exchange column encountered during the first TSCR run.	05/11/23 – ORP is finalizing the briefing.		
4	TF-23-05-01 11 May 2023	Ecology requested a briefing on the Sampling and Analysis Plans for grab samples and other samples conducted on Double Shell Tanks, with particular emphasis on tanks 241-SY-101 and 241-AN-104.		ORP	Open
5	TF-23-05-02 11 May 2023	Ecology requested a brief overview at the 06/08/23 PMM (Quarterly), and subsequent PMMs, on ORP’s plan to address and progress on new requirements stemming from the May 10, 2023 settlement of Heart of America Northwest’s appeal of the Agreed Order between DOE-ORP and Ecology: <i>1. System Plan 10 Evaluation Include Practicability of Deploying Technologies for</i>		ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – June 2023 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		<i>Selective Removal of Liquid Fraction 2. Hold Third-Party Technical Review One-Day Workshop with PNNL</i>			

WTP ACTIONS

1	WTP-22-12-01 12 Dec. 2022	ORP will hold a briefing for Ecology on the status of and progress to date on the LAW Melter Off-Gas System	ORP will hold a briefing for Ecology on the status of and progress to date on the LAW Melter Off-Gas System.	ORP (J. Young)	Open
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Documents Submitted to the Administrative Record (AR)

Milestone	Primary, Secondary, or Other	Requesting Agency	Request Date	Document Number	Revision	Title	Comment	PMM Request Date
NA	Other	ECY	May 2023	WRPS-2301901	0	Contract No. DE-AC27-08RV14800 – Washington River Protection Solutions LLC Transmittal of the 2,000-Gallon Test Bed Initiative Demonstration, Research, Development and Demonstration Permit Application	Supporting the TBI Permit Application	8-Jun-23
M-023-23	Primary	ECY/DOE	May 2023	RPP-9937	5	Single-Shell Tank System Leak Detection and Monitoring Functions and Requirements	Updated revision	8-Jun-23
M-042-10	Primary	ECY/DOE	May 2023	RPP-12711	7F	TEMPORARY WASTE TRANSFER LINE MANAGEMENT PROGRAM PLAN	Updated revision	8-Jun-23
NA	Other /Secondary	ECY/DOE	May 2023	RPP-6711	10	Evaluation of Hose-in-Hose Transfer Line Service Life	Reference	8-Jun-23

TPA Change Notices

Milestone	CN No.	Document Number	Revision	Document Title	Description of Change	Comment	CN Document Date	DOE CN Signature Date	ECY CN Signature Date
NA									

DOE-ORP Agreed Order (AO) Requirements

Reference: Docket No. 21304, Agreed Order Between Ecology and the DOE,
Single-Shell Tanks (SSTs) 241-B-109 and 241-T-111 (AR-21249)

Number	Due Date	Status	Requirement	Reference	DOE Assistant Manager	Remarks
A-022-01	8/25/2023	On Schedule	Submit SST System Leak Response Plan	AO V.A.1.i	Noyes, Delmar L	Meeting scheduled for June 7 to brief ECY on the draft SST LRP.
A-022-02	8/25/2023	On Schedule	Submit results of intrusion investigation and, if applicable, Intrusion Response Work Plan	AO V.B.1.ii	Noyes, Delmar L	WRPS is drafting the intrusion work plan.
A-022-03	TBD (Pursuant to approved Intrusion Response Work Plan schedule)		If applicable, implement Intrusion Response Work Plan and submit final report on effectiveness of intrusion response actions	AO V.B.2	Noyes, Delmar L	
A-022-04	8/25/2023	On Schedule	Submit active ventilation practicability evaluation and determination	AO V.C.1.iv	Noyes, Delmar L	Practicability evaluation is in development.
A-022-05	TBD (Within 90 days of Ecology's approval of the active ventilation practicability evaluation and determination)		If applicable, submit Active Ventilation Work Plan	AO V.C.1.v	Noyes, Delmar L	
A-022-06	TBD (Pursuant to approved Active Ventilation Work Plan schedule)		If applicable, install and begin operation of active ventilation system on B-109	AO V.C.2.iii	Noyes, Delmar L	
A-022-07	8/31/2025		Submit interim barrier design for T-Farm	AO V.D.1.i	Noyes, Delmar L	
A-022-08	8/31/2026		Submit interim barrier design for B-Farm	AO V.D.1.ii	Noyes, Delmar L	
A-022-09	09/30/2028*		Complete construction of interim barrier at T-Farm *The barrier design should be approved by Ecology, by November 30, 2025. Ecology will authorize construction upon approval of the final design. A day-for-day slip in completing construction of the barrier will be given for each day construction is not authorized following 3 months after submittal.	AO V.D.2.i	Noyes, Delmar L	
A-022-10	09/30/2028*		Complete construction of interim barrier at B-Farm *The barrier design should be approved by Ecology, by November 30, 2026. Ecology will authorize construction upon approval of the final design. A day-for-day schedule extension for completing construction of the barrier will be given for each day construction is not authorized following 3 months after submittal.	AO V.D.2.ii	Noyes, Delmar L	
A-022-11	08/31/2024*		Complete System Plan 10 milestone negotiations *A day-for-day slip in completing these milestone negotiations will be given for each day that the deadline for submission of System Plan 10 under HFFCO Milestone M-062-40 is extended by mutual agreement of the parties.	AO V.E.2.i	Noyes, Delmar L	Preliminary draft sections of SP10 report provided for ECY review on May 18, 2023. Scenario 5 results were briefed to ECY on May 16, 2023.
A-022-12	8/25/2024		Submit Leak Detection and Monitoring Technology Evaluation	AO V.F.1.ii	Noyes, Delmar L	
A-022-13	TBD (Within 90 days of Ecology's approval of the Leak Detection and Monitoring Technology Evaluation)		If applicable, submit Leak Detection and Monitoring Technology Work Plan	AO V.F.2.ii	Noyes, Delmar L	
A-022-14	TBD (Pursuant to approved Leak Detection and Monitoring Technology Work Plan schedule)		If applicable, implement Leak Detection and Monitoring Technology Work Plan	AO V.F.2.iii	Noyes, Delmar L	

NOTES:

- On August 25, 2022, the State of Washington Department of Ecology Administrative Order, Agreed Order Docket No. 21304, Agreed Order Between Ecology and the DOE, regarding Single-Shell Tanks (SSTs) 241-B-109 and 241-T-111 was signed and received (reference AR-21249).
- On September 26, 2022, the Heart of America Northwest appealed the Agreed Order between Ecology and DOE, Docket No. 21304, regarding the response to the ongoing release of mixed radioactive hazardous waste from the leaking single-shell tanks at the Hanford Nuclear Reservation, reference the Case No. P22-073 (reference AR-21769).
- On May 10, 2023, the PCHB issued Settlement Agreement PCHB No. 22-073 from the Heart of America Northwest appeal of the Agreed Order between Ecology and DOE (reference AR-24519).

**Office of River Protection
TPA/CD Quarterly Milestone Review Meeting
June 8, 2023**

ATTENDEES

Wahed Abdul, DOE-ORP
Jason Young, DOE-ORP
Richard Valle, DOE-ORP
Chantal Martin, DOE-ORP
Jeff Cheadle, DOE-ORP
Jim Greene, DOE-ORP
Larry Romine, DOE-ORP
Paul Hernandez, DOE-ORP
Erik Nelson, DOE-ORP
Shane Sarafin, DOE-ORP
Craig Whiteley, DOE-ORP
Bryan Trimmerger, DOE-ORP
Robert Chase, DOE-ORP
Robin Varljen, DOE-RL
Maria Lopez, WRPS
Holly Bowers, WRPS
Michael Turner, HMIS
Stephanie Brasher, HMIS

Eric Van Mason, HLMI
David Bowen, Ecology
Ambika Chakravartty, Ecology
Debra Alexander, Ecology
Doug D'Hondt, Ecology
Theresa Howell, Ecology
Jay Decker, Ecology
Dan McDonald, Ecology
Ed Holbrook, Ecology
Jeff Marusich, Ecology
Jim Alzheimer, Ecology
Dave DiSimone, Ecology
Jeff Lyon, Ecology
Kyle Rucker, Ecology
Beth Rochette, Ecology
Jennifer Linville, Ecology
Shelley Cimon, State of Oregon