

***Office of River Protection
Tri-Party Agreement/Consent Decree
Monthly Project Managers Meeting Minutes***

October 12, 2023


Meeting held virtually, via MS TEAMS

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OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS' MEETING

CONCURRENCE SIGNATURES

In accordance with the Tri-Party Agreement Section 4.1, Project Manager Role or 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.

 Digitally signed by Paul A. Schroder
Date: 2023.11.02 12:48:19 -07'00'

Paul Schroder, Project Manager
DOE-ORP

 Digitally signed by JASON YOUNG
Date: 2023.11.06 08:43:55 -08'00'

Jason Young, Project Manager
DOE-ORP

 Digitally signed by WAHED ABDUL
Date: 2023.11.02 14:29:22 -07'00'

Wahed Abdul, Project Manager
DOE-ORP

 Digitally signed by Lyon, Jeffery (ECY)
Date: 2023.11.06 10:09:06 -08'00'

Jeff Lyon, Project Manager
Washington State Department of Ecology

 Digitally signed by McDonald, Dan (ECY)
Date: 2023.11.07 09:59:49 -08'00'

Dan McDonald, Project Manager
Washington State Department of Ecology

 Digitally signed by Chakravartty, Ambika (ECY)
Date: 2023.11.07 11:42:27 -08'00'

Ambika Chakravartty, Project Manager
Washington State Department of Ecology

 Digitally signed by Alexander, Debra (ECY)
Date: 2023.11.13 22:10:19 -08'00'

Debra Alexander, Project Manager
Washington State Department of Ecology

**OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT
DECREE MONTHLY PROJECT MANAGERS' MEETING**

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

OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS MEETING

1.0 ADMINISTRATIVE ITEMS/MILESTONE STATUS/ACTIONS

Upcoming Meetings

The next U.S. Department of Energy-Office of River Protection (ORP) Monthly Tri-Party Agreement (TPA)/Consent Decree (CD) Project Manager Meeting is November 9, 2023. The next TPA/CD ORP Quarterly Milestone Review Meeting is December 14, 2023.

Recent Items Entered Into the Hanford Administrative Record

The Office of River Protection Tri-Party Agreement (TPA) and Consent Decree (CD) Monthly Reports for the period of August 1 – August 31, 2023, were entered into the Hanford Administrative Record (AR) on September 28, 2023. The meeting minutes from the September 14, 2023 ORP TPA/CD Quarterly Milestone Review Meeting were entered into the AR on October 9, 2023. *For other documents added to the AR, see, “*Items Entered into the Hanford Administrative Record*” attached to these meeting minutes.

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 1-3 of the August 2023 ORP TPA Monthly Report and throughout these minutes).

ORP reported milestone M-045-91E5 (“Provide SST Farms Dome Deflection Surveys Every 2 Years to Ecology”), due 09/30/2023 was completed on 09/01/23.

ORP reported milestones M-045-92 (“Complete Installation of 4 Additional Interim Barriers”), M-045-92AB (“Complete Construction of Barrier 4 in 241-U Farm”), and M-045-92AG (“Submit Yearly Reports Summarizing the Results of Maintenance and Performance Monitoring Activities”), all due 10/31/23 were complete (though the report required for M-045-92 AG is still in the clearance process).

Tri-Party Agreement Issues and Action Items and Key Documents

For reference, see attached, “*ORP/Ecology TPA and CD Agreements, Issues and Action Items – October 2023 Meeting.*”

Emergent Issues (Past 3 Months):

1. None

Actions:

Action No. 1 (TF-23-05-01): At the May 11, 2023 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. At today’s Quarterly Milestone Review Meeting (Quarterly), ORP reported it was still preparing the briefing for Ecology. *This action remains open.*

Action No. 2 (TF-23-06-01): Ecology and ORP are working on scheduling a meeting to discuss timing and content of a proposed briefing to the Tribes on the regulatory scope and timing of Waste Management Area C closure. *This action remains open.*

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Action No. 3 (TF-23-06-01): At the May 11, 2023 TPA PMM, Ecology requested a brief overview at the June 8, 2023 TPA/CD Quarterly Milestone Review Meeting (Quarterly) on ORP's plan to address and 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. ORP reported that the Legal teams from both DOE and Ecology had met on the topic at least once. However, Ecology had yet to determine if an additional follow-up meeting is needed. At the September 14, 2023 Quarterly, Ecology agreed no further meetings were needed and the action could be closed. *This action is closed.*

Action No. 4 (TF-23-08-01): At the August 10, 2023 ORP PMM, Ecology requested a briefing from ORP on its rationale for proposing to remove Cross-Site Slurry Line 3160 from the list of transfer lines to be inspected as stated in TPA Milestone M-042-10, and if the line will be included in RCRA Permit, Rev. 9. ORP reported a briefing was held with Ecology on October 2, 2023 to address Ecology's questions. ORP has also decided against the proposal to remove the transfer line from the scope of M-042-10. As such, the Parties agreed the action could be closed. However, Ecology added that it wants more information on the status of SLN 3150-cross site transfer line as well as for Slurry line 3160, including inspection frequency, as well as details on the plans for other DST transfer lines that, after pneumatic testing, were found to have reduced thickness. As such, a new action was created to be statused at the November 2023 PMM. *This action is closed.*

Action No. 5 (TF-23-08-02): Ecology wanted to know if the final report on the decision for the LAWP Capability Analysis of Alternatives will be issued to Ecology. At today's meeting, ORP reported the document was cleared for public release, though ORP needed to verify. *This action remains open.*

Action No. 6 (TF-23-08-03): Ecology requested a discussion with ORP on the schedule for the remaining Single Shell Tank interim surface barriers and a response to Ecology's draft TPA Change Control Form proposing a schedule and milestones. ORP suggested that this topic could better be addressed in regularly occurring meetings. The Parties agreed that the topic would be discussed in the regularly occurring Interim Surface Barriers Meeting and ORP agreed to add the topic to the November agenda. The Parties then agreed the action could be closed. *This action is closed.*

Action No. 7 (TF-23-09-01): Ecology requested a briefing/update from ORP on the extraction rate of Cesium during the first TSCR campaign. ORP provided the briefing on September 21, 2023 and the Parties agreed the action could be closed. *This action is 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 STATUS

ORP TPA/CD Monthly Project Managers Meeting Minutes
October 12, 2023

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*Note: 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. Four updates were provided:

- AO # A-022-01 (“Submit SST System Leak Response Plan”), due 08/25/23 – ORP reported it completed this action on 08/18/23.
- AO #A-022-02 (“Submit results of intrusion investigation and, if applicable, Intrusion Response Work Plan”), due 8/25/2023 – ORP reported it completed this action on 08/21/23.
- AO #A-022-04 (“Submit Active Ventilation Practicability Evaluation and Determination”), due 8/25/23 – ORP reported it completed this action on 08/18/23.
- AO# A-022-11 (“Complete System 10 Milestone Negotiations”), due 08/31/24 – ORP reported being on schedule. Ecology noted that there were about ten pages – specifically referencing B Tank Farm and T Tank Farm – that ORP said would be added to the draft System Plan and wanted to know if ORP would be providing a review of the draft, including the referenced ten pages to be added. ORP said it would.

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.

Significant Past Accomplishments

- Nothing Reported

Significant Planned Activities

Replace windows on 11A2, 11A3, and 11A5 hot cells. ORP provided an update to note that 11A2 and A3 window replacements were completed in September 2023, and that instead of 11A5, ORP is now replacing 11A6 to support 242-A Evaporator campaign work.

Issues/Other Items

- Nothing reported.

4.0 SYSTEM PLAN

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months.

- Conduct a review of the draft System Plan document, incorporate comments, and finalize the document. ORP also noted there will be an addition of new content for Ecology to review.

Issues/Other Items

- Nothing reported.

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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.

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

- Nothing reported.

7.0 LOW ACTIVITY WASTE PRETREATMENT SYSTEM

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Nothing reported.

Issues/Other Items

- ORP noted that it continues to report milestone M-062-56 (“Submit Permit Application for Design and Construction of the LAWP Capability”) as At Risk. ORP sent a signed TPA change control form (M-62-23-03) to Ecology proposing a new milestone date which better aligned with the need for the new Advanced Modular Pretreatment System, and reflected the delay caused by the Covid-19 pandemic and the effect on interconnected projects and facilities needed to support the Waste Treatment Plant. Ecology acknowledged receipt of the change control form and said its management was reviewing.

8.0 TANK SIDE CESIUM REMOVAL SYSTEM (TSCR)

Significant Past Accomplishments

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- ORP reported approximately 600,000 gallons of waste had been processed in the first TSCR campaign, and operations were underway on Batch 4 of the first campaign. ORP also stated that there would be multiple additional samples done on the waste processed in Batch 4 and Batch 5 - the final batch.

Significant Planned Actions in the Next Six Months

- Complete the first TSCR processing campaign.

Issues/Other Items

- Nothing reported.

9.0 TEST BED INITIATIVE DEMONSTRATION

Significant Past Accomplishments

- Nothing Reported.

Significant Planned Actions in the Next Six Months

- Complete required permitting actions to support installation and operation of the TBI Demonstration equipment.

Issues/Other Items

- ORP is nearing completion of incorporating Ecology's technical comments on Ecology's Completeness Determination of the Research, Development, and Demonstration permit application for the TBI.

10.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Initiate cold run activities. ORP reported the cold run would be initiated on January 3, 2024.

Issues/Other Items

- Nothing reported.

11.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY

Significant Past Accomplishments

Operations

- Nothing reported.

Projects

- Nothing reported.

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Significant Planned Actions in the Next Six Months

Operations

- Prepare facilities for FY 2024 processing campaign, which is scheduled for February 2024.

Projects

- Nothing reported.

LERF Volumes

- See pg. 21 of the August 2023 TPA Monthly Report for a full listing.

Issues/Other Items

- Nothing reported.

12.0 TANK SYSTEM UPDATE

12.1 Double-Shell Tank Integrity

Significant Past Accomplishments

- Completed National Association of Corrosion Engineers' inspections of tank pits 241-AZ-01B, 241-AZ-02B, 241-AZ-01C, and 241-AZ-02C in supported of TPA milestone M-042-10. ORP reported being 67% complete on the number of inspections needed to fulfill the milestone (16 of 24), which is due 12/31/26.

Significant Planned Actions

- Complete ultrasonic testing inspection fieldwork at Tank 241-AP-104. ORP provided an update to note that the fieldwork was complete, and the results are being analyzed and the report is being drafted.

Ultrasonic Testing Report Status

- Ultrasonic testing report for Tank 241-SY-102 was released as RPP-RPT-64096, Ultrasonic Testing and Air Slot Visual Inspection Results for Double Shell Tank 241-SY-102 - FY 2023, Rev. 0.

Issues/Other Items

- Nothing reported.

12.2 Single-Shell Tank Integrity

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Nothing reported.

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RPP-9937 Rev. 5 Updates

Baseline Change Authorizations implemented:

- Nothing reported.

Intrusion

- None.

Monitoring Change

- None.

Primary Monitoring Device Repair

- None.

Non-Valid required readings due to a Suspect Verifying and Validating designation:

- None.

Issues/Other Items

- Nothing reported.

13.0 IN-TANK CHARACTERIZATION AND SUMMARY

13.1 Reports Completed or Released

- Nothing reported.

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.

Significant Planned Actions in the Next Month

- Nothing reported.

Issues/Other Items

- Nothing reported.

14.0 SINGLE-SHELL TANK CLOSURE PROGRAM

Significant Past Accomplishments

OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS MEETING

- Completed the 30-day comment period for RPP-PLAN-64857, Phase 2 RCRA Facility Investigation/Corrective Measures Study Work Plan for Waste Management Area A-AX, Rev. 1, on August 26, 2023. ORP received Ecology’s approval letter on 09/27/23. ORP thanked Ecology for its collaborative efforts.
- ORP reported milestones M-045-92 (“Complete Installation of 4 Additional Interim Barriers”), M-045-92AB (“Complete Construction of Barrier 4 in 241-U Farm”), and M-045-92AG (“Submit Yearly Reports Summarizing the Results of Maintenance and Performance Monitoring Activities”), all due 10/31/23 were complete, though the report required for M-045-92AG was still in the clearance process.
- Met with Ecology to fulfill Milestone M-045-56S on 06/28/23. Meeting minutes have been added to the Hanford Administrative Record.

Significant Planned Activities in the Next Six Months

- Nothing reported.

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/Other Items

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

16.0 TANK OPERATIONS PROJECT SCHEDULE AND COST VARIANCE PERFORMANCE

Base Operations:

The July 2023 variances below do not impact TPA milestones. *Note: the cost and schedule variances are one month behind the reporting than the rest of the August 2023 TPA Monthly Report.

- The month showed an unfavorable schedule variance of \$3,246,100.
- The month showed an unfavorable cost variance of \$7,012,400.

Waste Feed Delivery/Treatment:

The July 2023 variances below do not impact TPA milestones. *Note: the cost and schedule variances are one month behind the reporting than the rest of the August 2023 TPA Monthly Report.

- The month showed an unfavorable schedule variance of \$516,000
- The month showed an unfavorable cost variance of \$111,600.

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Treat Waste:

The July 2023 variances below do not impact TPA milestones. *Note: the cost and schedule variances are one month behind the reporting than the rest of the August 2023 TPA Monthly Report.

- The month showed a favorable schedule variance of \$1, 127, 539.
- The month showed a favorable cost variance of \$438,851.

Issues/Other Items

- Nothing reported.

1.0 CONSENT DECREE MILESTONES/ADMINISTRATIVE ACTIONS

Consent Decree Milestones

ORP reported milestones as Completed, On Schedule, At Risk, or Under Analysis (see pages 1-3 of the ORP August 2023 Consent Decree Monthly Report as well as individual sections of these meeting minutes).

ORP reported Consent Decree (CD) Milestones D-006-00-D (“Meet Approximately Every 3 Years to Review Requirements of CD”) and D-006-00-D1 (“Provide Oregon Notice of Meetings”) were completed.

ORP reported it continued to make progress on CD Milestone D-16B-02 (“Complete Retrieval of Tank Wastes from A-101, -102, -104, -105, -106; AX-101, -102, -103, -104”), due 05/01/28.

Ecology asked a question regarding CD Milestone D-16E-02 (“Have Available A Spare Reboiler for 242-A Evaporator”), completed 05/08/18. Ecology wanted to know if the spare re-boiler was going to be needed. ORP replied that it was not needed at this point. Ecology asked if it is needed, would ORP be ordering an additional spare re-boiler. ORP did not have an immediate answer but committed to getting an answer to Ecology.

Consent Decree Issues and Action Items

For reference, see attached “ORP/Ecology TPA and CD Agreements, Issues and Action Items October 2023 Meeting.”

Emergent Issues:

There are no current emergent issues.

Action Items:

Action No. 1 (WTP-22-12-01): ORP and Ecology are still working on scheduling a briefing for Ecology on the status of, and progress to date on, the LAW Melter Off-Gas System. *This action remains open.*

Action No.2 (WTP-23-08-01): ORP and Ecology are still working on scheduling a date for an ORP briefing on Glass Former Reagent System and Balance of Facilities design changes. *This action remains open.*

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2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Project Schedule and Cost Variance Performance (Current as of July 2023)

- ORP reported an unfavorable schedule variance of \$416,000.
- ORP reported a favorable cost variance of \$1.98 million.

Significant Accomplishments during the Prior Month

Completed Accomplishments

- Completed new riser installation mockup and equipment testing to support future
- Tank A-106 new riser installation.

On-Going Activities

- Continued Tank 241-AX-101 retrieval operations. ORP reported, as of today's meeting, total volume retrieved from the tank is 67.7%. The project will be entering an outage to switch control trailers from AX-102/104 to A-101/102.

Significant Planned Activities in the Next Month

- Nothing reported.

Issues/Other Items

- Nothing reported.

3.0 TANK WASTE RETRIEVAL WORK PLAN STATUS

Significant Accomplishments during the Prior Month

- Nothing reported.

Significant Planned Activities in the Next Month

- Nothing reported.

Issues/Other Items

- Nothing reported.

4.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

Project Schedule and Cost Variance Performance

During the July 2023 reporting period, a net unfavorable schedule variance of approximately \$4.3 million. ORP noted the following:

- Late award of construction subcontracts at HLW delayed remobilization efforts. Subcontract awards are forecasted in fourth quarter of Fiscal Year 2023. Additional SV attributed to:
 - Delayed civil concrete activities due to late award of concrete/grout subcontracts. ORP also noted that concrete used to be provided by an on-site plant, however, because the on-site plant has been closed, ORP needed to seek outside vendor.

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ORP also reported that Bechtel's construction team has decided to not place concrete for slabs during the winter months.

- Delayed crane support steel, rail, and girder installation due to Quality Assurance holds.
- ORP noted it is still focused and working on enclosing the HLW Facility. However, a number of construction activities have been pushed out for completion of resolution of existing technical issues.
- Ecology asked about protecting concrete and steel from the elements, if exposed through the winter. ORP replied that similar steel has been in place in similar conditions at the Pre-Treatment Facility and has not shown any significant corrosion, and to protect the concrete at HLW, ORP will provide cover.

During the August 2023 reporting period, a net unfavorable cost variance of approximately \$24.7 million was reported.

Issues/Other Items

- ORP reported that it will begin reporting its project variances differently for LAW, BOF and LAB. Instead of the previous reporting, which was based on the Earned Value Management System (EVMS), ORP will now start using an estimated-to-completion system. This system will also eliminate the need for the rebaselining of a project every two years or so. EVMS did not account for contracted activities that are no longer in the contract schedule, while the new system will. This new system will also allow better cost and schedule tracking of discrete projects within a greater project scope. ORP explained that this new tracking does not affect the work being done in the field.

5.0 PRETREATMENT FACILITY

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

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Project Schedule and Cost Variance Performance

- See Waste Treatment Plant section.

Significant Accomplishments during the Prior Month

- A draft of the HLW Preliminary Documented Safety Analysis, Rev. 12, was provided by Bechtel to DOE for review and comment. ORP anticipates approving by the end of December 2023 or early January 2024.

Ongoing Activities:

- Actions are ongoing to develop the detailed scope, supporting assumptions, and exclusions for the development of the proposal for the HLW Facility design completion period. ORP expects delivery by early November 2023.
- Continued to advance HLW Facility design and hazard analyses for key mechanical and process systems.

Significant Planned Activities in the Next Month

- Bechtel submittal of the HLW updated Safety Design Strategy (SDS) to DOE.
- Bechtel submittal and DOE approval of the HLW work plan for Fiscal Year 2024. ORP noted the plan will incorporate a \$200+ million funding scenario along with code updates and lessons learned from DFLAW. Ecology asked to be provided with the work plan, ORP agreed to provide.

Issues/Other Items

- Nothing reported.

7.0 LOW-ACTIVITY WASTE FACILITY

Project Schedule and Cost Variance Performance

- Nothing reported.

Significant Accomplishments during the Prior Month

- Completed the heatup process for LAW Melter 1 and transitioned from the startup heaters to the joule heater system to support normal operations.
- Completed the removal of three startup heaters and replaced them with bubblers for melter mixing.
- Completed the frit addition process for LAW Melter 1 and established the melt pool at an operational level of 31 inches.

On-Going Activities

- Continued commissioning activities for the LAW Facility incorporating the direct feed of pre-mixed glass former batches to the LAW facility.

Significant Planned Activities in the Next Month

- Complete joule heater power supply commissioning tests for LAW Melter 1.

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Issues/Other Items

- Nothing reported.

8.0 BALANCE OF FACILITIES

Project Schedule and Cost Variance Performance

- Nothing reported.

Significant Accomplishments during the Prior Month

- Nothing reported.

On-going Activities:

- Continued design modification efforts to resolve ongoing issues with Glass Former Facility performance.

Significant Planned Activities in the Next Month

- Nothing reported.

Issues/Other Items

- Nothing reported.

9.0 ANALYTICAL LABORATORY

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.



THE HANFORD SITE

Office of River Protection Consent Degree Monthly Report Tri-Party Agreement Monthly Report

Monthly Reporting Period

August 1 – 31, 2023

October 12, 2023

Agenda

- Safety Culture Share
- Tank Farms (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)

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – October 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. [None](#).

Action Items: (Updated information in [blue](#))

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	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.	06/08/23: ORP reported it was still preparing the briefing for Ecology. 07/13/23 – 09/14/23: No change in status, briefing still in preparation stages.	ORP	Open

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
2	TF-23-06-01 8 Jun 2023	Ecology and ORP to discuss timing and content of a proposed briefing to the Tribes on the regulatory scope and timing of Waste Management Area C closure.	07/13/ 23 – 09/14/23: Parties are still working on content for a briefing to the Tribes on WMA-C closure permitting process.	Parties	Open
3	TF-23-06-01 8 Jun 2023	Ecology and ORP to discuss implementation of May 10, 2023 settlement of Heart of America Northwest’s appeal of the Agreed Order between DOE-ORP and Ecology.	<p>At the 06/08/23 TPA Quarterly Milestone Review Meeting, Ecology asked how the Parties will implement the terms of the recent Heart of America settlement. In response, Ecology will schedule a meeting between its Legal representatives from the Washington State Attorney General’s Office, DOE Legal and relevant individuals to discuss the terms of the settlement and how they will be met. The meeting will occur prior to the 07/13/23 ORP TPA PMM.</p> <p>07/13/23: Parties legal teams have met. Ecology PM will determine if a second meeting is necessary.</p> <p>08/10/23: Ecology is still considering if a second meeting on the subject is needed.</p> <p>09/14/23: Ecology reported no follow-up meetings were necessary. The action was closed.</p>	Ecology	Closed 9/14/23

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
4	TF-23-08-01 10 Aug. 2023	<p>Ecology would like a briefing from ORP on its rationale for proposing to remove Cross-Site Slurry Line 3160 from the list of transfer lines to be inspected, currently in TPA Milestone M-042-10 and if it will be included in RCRA Permit Rev. 9. The briefing should include details on future plans for Slurry Line 3160, including if pressure-testing is to be done.</p> <p>Ecology would like to add to the briefing from ORP, the status of SLN 3150-cross side transfer line and its inspection frequency (the line is not included in (M-042-10).</p> <p>In addition, Ecology would like details on the future plans for other DST transfer lines that, after pneumatic testing, were found to have</p>	<p>09/14/23: ORP reported a meeting/briefing is scheduled for 10/02/23. Content of the briefing was discussed at today's meeting. Clarifying questions were addressed and answered.</p>		Open

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		reduced thickness. (Based on DOE presentation - T-111 and WTS on 4/4/2023- TOC-RORI-23-002, by Karthik Subramaniam).			
5	TF-23-08-02 10 Aug. 2023	Ecology would like to know if the Final Report on the decision for the LAWP Capability Analysis of Alternatives will be issued to Ecology.	09/14/23: ORP reported it was in the process of providing the Final LAWPS Capability AoA to Ecology.	ORP	Open
6	TF-23-08-03 10 Aug. 2023	Ecology would like a discussion on the schedule for the remaining Interim Surface Barriers and a response to Ecology's TPA Change Control Form proposing that schedule.	09/14/23: ORP reported it was working on scheduling a meeting with Ecology.	ORP	Open
7	TF-23-09-01 14 Sep. 2023	Ecology would like a briefing/update on ORP's finding that the extraction rate of Cesium during the first TSCR campaign was not at the rate anticipated. The briefing should include ORP's planned options and	09/21/23: ORP provided a briefing to Ecology. As such, the Parties agreed the action could be closed.	ORP	Closed 09/21/23

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#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		<p style="color: blue;">schedule for addressing the issue, including possibly sending the waste from the first run (currently stored in the AP Tank Farm) back through the TSCR System.</p>			

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

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	<p>ORP will hold a briefing for Ecology on the status of and progress to date on the LAW Melter Off-Gas System.</p> <p>06/08/23: 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.</p> <p>07/13/23: No change in status.</p> <p>09/14/23: ORP and Ecology are mutually working on a date for the briefing.</p>	ORP	Open
2	WTP-23-08-01 10 Aug. 2023	ORP will provide a briefing on the Glass Former Reagent System and Balance of Facilities Design Changes	<p>09/14/23: ORP and Ecology are mutually working on a date for the briefing.</p>	ORP	Open

Documents Submitted to the Administrative Record (AR)

Milestone	Primary, Secondary, or Other	Requesting Agency	Request Date	Document Number	Revision	Title	Comment	PMM Request Date	PMM Approved /Disapproved
None	Other	ECY/DOE	Sept 2023	WRPS-2303714	0	Washington River Protection Solutions LLC Transmittal of the NUCON Thermal Oxidation System Phase 3 Research, Development, and Demonstration Permit Application	Correspondence	13-Oct-23	
None	Other	ECY/DOE	Sept 2023	NA	0	WMA A-AX Remaining Regions Sample Interval Selection Meeting - D0330	Meeting minutes	13-Oct-23	
None	Other	ECY/DOE	Sept 2023	NA	0	WMA A-AX Remaining Regions Sample Interval Selection Meeting - D0340	Meeting minutes	13-Oct-23	
None	Other	ECY/DOE	Sept 2023	RPP-PLAN-64945	0	Field Sampling and Analysis Plan for Soil Samples in Support of Interim Measures at 241-B Tank Farm, Phase 1	Supporting Documentation	13-Oct-23	
None	Other	ECY/DOE	Sept 2023	RPP-PLAN-65640	0	Field Sampling and Analysis Plan for Soil Samples in Support of Interim Measures at 241-B Tank Farm, Phase 2	Supporting Documentation	13-Oct-23	
None	Other	ECY/DOE	Sept 2023	RPP-ASMT-65457	0	Data Quality Assessment for Soil Samples in Support of Interim Measures at 241-U Tank Farm	Supporting Documentation	13-Oct-23	

TPA Change Notices

Milestone	CN No.	Document Number	Revision	Document Title	Description of Change	Comment	CN Status	CN Document Date	DOE CN Signature Date	ECY CN Signature Date	CN AR Link	CN Approved/Disapproved/Cancelled	PMM Attachment Date	PMM AR Number
No Change Notices for Sept 2023														

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	Complete 8/18/2023	Submit SST System Leak Response Plan	AO V.A.1.i	Noyes, Delmar L	Reference DOE letter 23-TF-0030 dated 8/18/2023, which transmitted RPP-PLAN-65643, "Single-Shell Tank System Leak Response Plan." Rev. 0 to Ecology, completing this requirement.
A-022-02	8/25/2023	Complete 8/18/2023	Submit results of intrusion investigation and, if applicable, Intrusion Response Work Plan	AO V.B.1.ii	Noyes, Delmar L	Reference DOE letter 23-TF-0031 dated 8/18/2023, which submitted RPP-RPT-64422, Tank 241-B-109 and 241-T-111 Intrusion Investigation and Intrusion Response Work Plan, Rev. 0 to Ecology, completing this requirement.
A-022-03	TBD (Pursuant to approved Intrusion Response Work Plan schedule)	On 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	Awaiting ECY response to DOE letter 23-TF-0031.
A-022-04	8/25/2023	Complete 8/21/2023	Submit active ventilation practicability evaluation and determination	AO V.C.1.iv	Noyes, Delmar L	Reference DOE letter 23-TF-0033 dated 8/21/2023, which submitted RPP-RPT-64081, "241-B-109 Active Ventilation Practicability Evaluation." Rev. 0 to Ecology, completing this requirement.
A-022-05	TBD (Within 90 days of Ecology's approval of the active ventilation practicability evaluation and determination)	On Schedule	If applicable, submit Active Ventilation Work Plan	AO V.C.1.v	Noyes, Delmar L	Awaiting ECY response to DOE letter 23-TF-0033.
A-022-06	TBD (Pursuant to approved Active Ventilation Work Plan schedule)	On Schedule	If applicable, install and begin operation of active ventilation system on B-109	AO V.C.2.iii	Noyes, Delmar L	Awaiting ECY response to DOE letter 23-TF-0033.
A-022-07	8/31/2025	On Schedule	Submit interim barrier design for T-Farm	AO V.D.1.i	Noyes, Delmar L	Activities ongoing to support final design.
A-022-08	8/31/2026	On Schedule	Submit interim barrier design for B-Farm	AO V.D.1.ii	Noyes, Delmar L	
A-022-09	09/30/2028*	On Schedule	Complete construction of interim barrier at T-Farm	AO V.D.2.i	Noyes, Delmar L	*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.
A-022-10	09/30/2028*	On Schedule	Complete construction of interim barrier at B-Farm	AO V.D.2.ii	Noyes, Delmar L	*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.
A-022-11	08/31/2024*	On Schedule	Complete System Plan 10 milestone negotiations	AO V.E.2.i	Noyes, Delmar L	All model runs are complete and ECY briefs were provided. Preliminary draft sections of System Plan 10 (SP10) report provided to ECY for review on 5/18/23. Report writing continues to progress. SP10 Scenario 5 results were briefed to ECY on 5/16/23. SP10 Scenario 2 model results were presented to ECY on 4/18/23. TPA CCF M-62-23-01 signed by DOE and ECY on 3/09/23. SP10 scenario selection letter transmitted to Ecology on 12/27/2022 (reference DOE letter 22-TF-002632). ECY signed the scenarios on 01/03/2023 (reference ECY letter 23-NWP-002). Draft SP10 sent to ECY on 9/12/2023, requested comments by 9/27/2023.
A-022-12	8/25/2024	On Schedule	Submit Leak Detection and Monitoring Technology Evaluation	AO V.F.1.ii	Noyes, Delmar L	Draft report initiated.
A-022-13	TBD (Within 90 days of Ecology's approval of the Leak Detection and Monitoring Technology Evaluation)	On Schedule	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)	On 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 Monthly Project Managers Meeting
October 12, 2023**

ATTENDEES

Wahed Abdul, DOE-ORP
Jason Young, DOE-ORP
Paul Schroder, DOE-ORP
Richard Valle, DOE-ORP
Becky Blackwell, DOE-ORP
Jim Greene, DOE-ORP
Erik Nelson, DOE-ORP
Paul Hernandez, DOE-ORP
Chantal Martin, DOE-ORP
Robert Chase, DOE-ORP
Dawn McDonald, DOE-ORP
Bill Clarno, DOE-ORP
Bibek Tamang, DOE-ORP
Larry Romine, DOE-ORP
Tom Teynor, DOE-ORP
Katherine Wong, DOE-ORP
Robin Varljen, DOE-RL
Maria Lopez, WRPS
Holly Bowers, WRPS
Gordon (Jay) Warwick, WRPS

Eric Van Mason, HLMI
Bailey Hardy, HLMI
Michael Turner, HMIS
Stephanie Brasher, HMIS
David Bowen, Ecology
Ambika Chakravartty, Ecology
Ed Holbrook, Ecology
Jeff Lyon, Ecology
Doug D'Hondt, Ecology
Theresa Howell, Ecology
Ed Holbrook, Ecology
Jim Alzheimer, Ecology
Dan McDonald, Ecology
Kyle Rucker, Ecology
Beth Rochette, Ecology
Eric Pierce, Ecology
Johnathan Rogers, Ecology
Steve Needles, Ecology
Shelley Cimon, State of Oregon