

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

August 8, 2024

Meeting held virtually, via MS TEAMS

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.

PAUL SCHRODER Digitally signed by PAUL SCHRODER
Date: 2024.08.30 09:00:30 -07'00'

Paul Schroder, Project Manager
DOE-ORP

THOMAS TEYNOR Digitally signed by THOMAS TEYNOR
Date: 2024.08.28 13:13:08 -07'00'

Tom Teynor, Project Manager
DOE-ORP



Digitally signed by
Lyon, Jeffery (ECY)
Date: 2024.09.09
11:12:14 -07'00'

Jeff Lyon, Project Manager
Washington State Department of Ecology

McDonald, Digitally signed by McDonald, Dan (ECY)
Date: 2024.09.03 09:30:09 -07'00'

Dan (ECY)

Dan McDonald, Project Manager
Washington State Department of Ecology

Ambika Chakravartty Digitally signed by
Chakravartty, Ambika
(ECY)

Ambika Chakravartty, Project Manager
Washington State Department of Ecology

Alexander, Digitally signed by
Alexander, Debra (ECY)
Date: 2024.09.04 11:09:16
-07'00'

Debra Alexander, Project Manager
Washington State Department of Ecology

**OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT
DECREE MONTHLY PROJECT MANAGERS' MEETING AUGUST 8, 2024**

Acronyms and Abbreviations

AR	Administrative Record
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
DST	double-shell tank
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
EVMS	earned value management system
FY	fiscal year
GFR	Glass Former Reagent
HLW	high-level waste
IAMIT	Inter-agency Management Integration Team
IQRPE	Independent Qualified Registered Professional Engineer
LAW	Low-activity waste
LBL	LAW Facility, Balance of Facilities and Lab
LERF	Liquid Effluent Retention Facility
ORP	U. S. Department of Energy, Office of River Protection
PA	Performance Assessment
PMM	project manager meeting
PT	Pretreatment
RCRA	<i>Resource Conservation and Recovery Act</i>
SST	single-shell tank
TBI	Test Bed Initiative
TPA	<i>Tri-Party Agreement</i>
TSCR	tank-side cesium removal
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 AUGUST 8, 2024

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) Quarterly Milestone Review Meeting is September 12, 2024. The next TPA/CD ORP Project Managers Meeting is October 9, 2024.

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 June 1 – June 30, 2024, were entered into the Hanford Administrative Record (AR) on July 29, 2024. The meeting minutes from the July 11, 2024 ORP TPA/CD Project Managers Meeting were entered into the AR on August 5, 2024. *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 1-4 of the June 2024 ORP TPA Monthly Report and throughout these minutes). ORP noted that it had met with Ecology on July 16, 2024, to complete Milestone M-045-56T and that Milestone M-062-01AW, “Submit Semi-Annual Project Compliance Report to Ecology”, was completed July 17, 2024.

ORP noted that several milestones throughout the report are subject to potential amendment by the Holistic Negotiations Settlement Agreement, on which, there is an on-going public comment period. The comment period ends September 1, 2024.

Tri-Party Agreement Issues and Action Items and Key Documents

For reference, see attached, “*ORP/Ecology TPA and CD Agreements, Issues and Action Items – August 2024 Meeting.*”

Emergent Issues (Past 3 Months):

1. None

Actions:

Action No. 1 (TF-23-12-01): Ecology requested information on throughput/volume targets and actuals for:

- 242-A Evaporator Campaign #11
- Effluent Treatment Facility
- Double Shell Tank capacity

ORP reported it continues to compile information to provide Ecology. Ecology asked for an update on when ORP would be able to give the briefing. ORP replied that Evaporator Campaign-11 is now targeted for February 2025, and that campaign would give ORP the needed information for the briefing. *This action remains open.*

OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024

Action No. 2 (TF-24-04-01): The Parties agreed that the AMPS briefing can be scheduled after the conclusion of the public comment period for the Holistic Negotiations Settlement Agreement Proposed Changes. The public comment period ends September 1, 2024. *This action remains open.*

Action No. 3 (TF-24-05-01): The Parties agreed that the transfer line briefing can be scheduled after the conclusion of the public comment period for the Holistic Negotiations Settlement Agreement Proposed Changes. The public comment period ends September 1, 2024. *This action remains open.*

Key Documents List and Status of Current TPA Change Notices:

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.

2.0 AGREED ORDER STATUS

*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. The following updates were provided:

- Agreed Order #A-022-01, “Submit Single Shell Tank System Leak Response Plan” – completed 8/18/23. ORP reported it is working with Ecology on resolving their comments on the Single Shell Tank System Leak Response Plan.
- AO #A-022-04, “Submit Active Ventilation Practicability Evaluation and Determination” – completed 08/21/23. ORP reported it is gathering needed information to inform formal negotiations for B-109 and T-111 retrieval milestones.

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 Accomplishments

- Nothing reported.

Significant Planned Activities

- Replace two windows on the 1E2 hot cell. ORP provided an update to note that the window replacement was completed on July 18, 2024, with 9 of 11 hot cell window replacements completed.

Issues/Other Items

- Nothing reported.

**OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT
DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024**

4.0 SYSTEM PLAN

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months.

- Nothing reported.

Issues/Other Items

- Nothing 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.

**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

- Nothing reported.

8.0 TANK-SIDE CESIUM REMOVAL SYSTEM (TSCR)

OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024

Significant Past Accomplishments

- Initiated Batch 2 out of 5 of the TSCR reprocessing campaign 1A. ORP provided an update to note that Batch 2 was now complete, and the ion-exchange columns were now disconnected.

Significant Planned Actions in the Next Six Months

- Begin processing of Batch 3. ORP forecasted beginning Batch 3 in late August 2024.

Issues/Other Items

- Ecology asked what the total gallons of waste processed in TSCR Campaign 1A was. ORP responded the total was approximately 450,000 gallons.
- Ecology asked how many of the AP Tanks ORP is planning to use for the Direct-Feed High-Level Waste (DFLAW) process. ORP replied that in addition to the main TSCR feed tank, AP-106, tanks AP-04 and AP-105 will also be used to provide additional TSCR feed capacity. In total, ORP expects to have about two million gallons of waste staged for TSCR.

9.0 TEST BED INITIATIVE (TBI) DEMONSTRATION

Significant Past Accomplishments

- ORP reported that the 45-day public comment period for the TBI Research, Development, and Demonstration permit application concluded, and the permit was provisionally issued June 18, 2024. The final permit was then issued July 18, 2024 after a 30-day appeal period.

Significant Planned Actions in the Next Six Months

- Complete required permitting actions to support installation and operation of the TBI Demonstration equipment. ORP provided an update to note that the equipment is nearly installed in SY Tank Farm, and when complete, construction acceptance will begin. ORP also reported there is one remaining permit to be obtained, the Toxic Substance Control Act Risk-Based Disposal Authorization, for which the application was submitted to EPA in July 2024. The authorization will allow pretreatment and processing of tank waste. ORP anticipates EPA's response in August 2024.

Issues/Other Items

- Ecology expressed interest in seeing the construction progress on TBI. ORP responded it would arrange a visit.
- ORP reported the pretreatment system was successfully installed in tank SY-101 and cameras have confirmed the equipment is functioning correctly.

10.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments

- Nothing reported.

OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024

Significant Planned Actions in the Next Six Months

- Conduct DOE Readiness Assessment for restart of 242-A Evaporator. ORP reported that the Independent Readiness Assessment (conducted prior to the DOE Readiness Assessment) team recommended the DOE Readiness Assessment be paused to allow time to further prepare the facility by simplifying controls and to conduct further personnel training. As such, ORP now anticipates the start of Evaporator Campaign-11 will be in January or February 2025.

Issues/Other Items

- ORP reported that new equipment being installed in the 242-A Evaporator will allow operations in cold-weather months, where there were restrictions in the past.

11.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY

Significant Past Accomplishments

Operations

- Initiated receipt of approximately 1.2 million gallons of wastewater from K West Basin. ORP provided an update to note that all K West Basin wastewater had been received at LERF, a total of 131 tanker truck loads.

Projects

- Nothing reported.

Significant Planned Actions in the Next Six Months

Operations

- Prepare facilities for FY 2024 processing campaign(s) and initiate processing. ORP added that it had transmitted the letter with the IQRPE for the facility upgrades to Ecology.

Projects

- Complete testing and turnover activities for the balance of Effluent Treatment Facility monitoring and control system upgrades, as the previous system is outdated. ORP provided an update to note that readiness was declared in July 2024 and turnover to Operations is complete.

LERF Volumes

- See pg. 24 of the June 2024 TPA Monthly Report for a full listing.

Issues/Other Items

- Ecology asked ORP what is meant by the term “partial” turnover in relation to the steam stripper and carbon dioxide skid system. ORP replied that partial turnover applies to not needing an entire system for operation, only parts of a system. ORP explained that for the carbon dioxide system, only a few valves are needed and for the steam stripper, only some pumps and piping are needed. Ecology requested more detail. As such, a formal action was added to the *ORP/Ecology TPA and CD Agreements, Issues and Action Items*: Ecology would like a briefing on what “partial” turnover of equipment and systems at the Effluent Treatment Facility entails, with specifics on what can be operated under partial turnover vs. complete turnover.

**OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT
DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024**

12.0 TANK SYSTEM UPDATE

12.1 Double-Shell Tank Integrity

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions

- Complete ultrasonic testing inspection fieldwork at Tanks AN-103 and AN-104. ORP reported fieldwork was completed for both tanks and it is now awaiting analytic results. ORP added that AN-104 will be the fourth DST to be examined this year.

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

- Nothing reported.

RPP-9937 Rev. 5 Updates

- ORP provided an overview of Tanks Currently Exceeding Specification Limits, Required Valid Readings Missed, Extended Outages and Device Repair/Replacements, Baseline Change Authorizations Implemented, Newly Identified Intrusions, Declared Leaks to the Environment and Tank Level Returned within Specification Limits. *NOTE: See attached slides for full details.

Issues/Other Items

- ORP is now reporting RPP-9937-required information on a quarterly basis. ORP and Ecology have collectively agreed to this approach.

**13.0 INDEPENDENT QUALIFIED REGISTERED PROFESSIONAL ENGINEER
(IQRPE) ACTIVITIES**

- Nothing reported.

14.0 IN-TANK CHARACTERIZATION AND SUMMARY

14.1 Reports Completed or Released

- See pg. 29 of the June 2024 ORP TPA Monthly Report for a listing.

**OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT
DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024**

14.2 Tank Sampling

Significant Past Accomplishments

- For June 2024, the following tank sampling was conducted:
 - Grab sampling of Tank AP-104, an important sample done in support of staging waste upstream of the DFLAW feed tank.

Significant Planned Actions in the Next Six Months

- Nothing report.

Issues/Other Items

- Nothing reported.

14.3 Best-Basis Inventory Updates

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Month

- Nothing reported.

Issues/Other Items

- Nothing reported.

15.0 SINGLE-SHELL TANK CLOSURE PROGRAM

Significant Past Accomplishments

- Met with Ecology to complete Milestone M-045-56T. ORP added that the meeting to fulfill this milestone occurred on July 16, 2024.

Significant Planned Activities in the Next Six Months

- Submit to Ecology for review the WMA S-SX Remedial Field Investigation/Corrective Measures Study Work Plan. ORP provided an update to note the work plan has been drafted.

Issues/Other Items

- Nothing reported.

16.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Significant Past Accomplishments

- Refer to the Consent Decree portion of these meeting minutes (Section 2.0, pg. 9).

Significant Planned Activities in the Next Six Months

- Refer to the Consent Decree portion of these meeting minutes (Section 2.0, pg. 9).

OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024

Issues/Other Items

- Refer to the Consent Decree portion of these meeting minutes (Section 2.0 pg. 9).

17.0 TANK OPERATIONS PROJECT SCHEDULE AND COST VARIANCE PERFORMANCE

Base Operations:

The May 2024 variances below do not impact TPA milestones. *Note: the cost and schedule variances are one month behind the reporting than the rest of the June 2024 TPA Monthly Report.

- The month showed a favorable schedule variance of 2.2M.
- The month showed a favorable cost variance of approximately \$6.4M.

Waste Feed Delivery/Treatment:

The May 2024 variances below do not impact TPA milestones. *Note: the cost and schedule variances are one month behind the reporting than the rest of the May 2024 TPA Monthly Report.

- The month showed an unfavorable schedule variance of \$374,255.
- The month showed a favorable cost variance of \$765,633.

Treat Waste:

The May 2024 variances below do not impact TPA milestones. *Note: the cost and schedule variances are one month behind the reporting than the rest of the June 2024 TPA Monthly Report.

LAWPS Subproject 2

- The month showed a favorable schedule variance of \$133,540
- The month showed a favorable cost variance of \$58,760 (below reporting threshold).

200 West Area Tank Farms Risk Management Project

- The month showed a favorable schedule variance of \$266,701.
- The month showed a favorable cost variance of \$174,768 (below reporting threshold).

Issues/Other Items

- Nothing reported.

1.0 CONSENT DECREE MILESTONES/ADMINISTRATIVE ACTIONS

Consent Decree Milestones

ORP reported milestones as Completed, On Schedule, At Risk, Under Analysis, or Under Evaluation (see pages 1-2 of the ORP June 2024 Consent Decree Monthly Report as well as individual sections of these meeting minutes).

ORP reported it continued to make progress on Consent Decree Milestone D-16B-02, "Complete Retrieval of Tank Wastes from A-101, -102, -104, -105, -106; AX-101, -102, -103, -104", due

OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024

05/01/28, noting that retrievals in the A Tank Farms had begun, with Tank A-101 being the first tank to be retrieved.

Consent Decree Issues and Action Items

For reference, see attached “*ORP/Ecology TPA and CD Agreements, Issues and Action Items August 2024 Meeting*”.

Emergent Issues:

There are no current emergent issues.

Action Items:

There are no current actions.

2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Project Schedule and Cost Variance Performance (Current as of May 2024)

- ORP reported an unfavorable schedule variance of \$297,009.
- ORP reported a favorable cost variance of \$2.2M.
- Neither of the above variances affect TPA or CD milestones.

Significant Accomplishments during the Prior Month

Completed Accomplishments

- Completed Tank A-101 Construction Acceptance Testing in preparation for turnover to
- Retrieval Operations. ORP provided an update to note that A-101 retrieval operations had begun and are approximately 18% complete.
- Completed Tank AX-102 and AX-104 Hose-in-Hose Transfer Line removal, packaging, and shipment to Environmental Restoration Disposal Facility.

On-Going Activities

- Continued Tank A-101 new retrieval equipment installation.

Significant Planned Activities in the Next Month

- Complete Tank A-101 Operations Acceptance Testing in preparation for Retrieval Operations. ORP provided an update to note the testing was complete and retrievals had begun.

Issues/Other Items

- Ecology asked what the total gallons of waste retrieved from Tank A-101 was to date. ORP stated it was slightly more than 130,000 gallons. ORP added that the retrieval is going very well, with less water than expected needed to dilute the waste prior to retrieval.

3.0 TANK WASTE RETRIEVAL WORK PLAN STATUS

Significant Accomplishments during the Prior Month

- Nothing reported.

OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024

Significant Planned Activities in the Next Month

- Complete the A-106 Tank Waste Retrieval Work Plan. ORP noted the report is being finalized and would be provided to Ecology shortly thereafter.

Issues/Other Items

- Nothing reported.

4.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

Project Schedule and Cost Variance Performance

Note: the cost and schedule variances are one month behind the reporting than the rest of the June 2024 Consent Decree Monthly Report.

For May 2024, ORP reported an unfavorable schedule variance of approximately \$3.5 million.

- ORP noted a 9% schedule variance but added that the High-Level Waste Facility design was still on schedule. A contributing factor to the schedule variance noted by ORP was support facilities design being behind due to additional time needed for software quality support due to the complexity of adding rheology and testing models to support the direct-feed waste approach. ORP also noted construction activities experiencing a delay in civil work including crane support steel and piping delays driven partially by engineering holds.

For May 2024, ORP reported a net favorable cost variance of approximately \$9.8 million.

- ORP noted that majority of the favorable cost variable was related to \$8.3 million in accrual adjustment from purchase order closeout. Other contributors to the positive variance include a better-than-expected rate of the evaluation on aging and obsolete equipment. ORP added that it is finding an obsolescence rate much lower than anticipated.
- ORP also cited an unfavorable cost variance of 4.1 million in time-dependent delays with DFLAW commissioning activities (which off-set the favorable cost variance).

LBL/DFLAW Estimate at Completion (EAC) Value

For the May 2024 reporting period, LBL/DFLAW reported an EAC increase of \$28 million.

- ORP cited schedule impact due to a revised duration to complete work on the Cold Commissioning Management Assessment affirmations. As a result, DFLAW hot commissioning has now been rescheduled for August 21, 2025. ORP also noted additional effort expended on the glass-forming chemical slurry implementation contributed to the schedule extension.

Issues/Other Items

- Ecology asked if ORP was finding a specific category or categories of obsolescent equipment. ORP responded that there isn't a specific category, per se, but with the majority of the equipment being assessed being 10 years or older, many manufacturing advances have been made in that time. However, ORP added, Bechtel has a tool which can quickly identify if a given piece of equipment has a readily available replacement. This tool is helping advance the review process.

OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024

- Ecology asked if ORP was forecasting any schedule recovery associated with DFLAW commissioning activities. ORP responded there was not, at least for the immediate future, though ORP is still holding to an October 2024 completion date for the LAW Facility contractor management assessment.

5.0 PRETREATMENT FACILITY

Project Schedule and Cost Variance Performance

- Nothing reported.

Significant Accomplishments during the Prior Month

- Nothing reported.

Ongoing Activities:

- Continued to implement asset maintenance at the PT Facility to protect equipment and structures and to ensure design documents are maintained, as well as preventative maintenance on stored equipment.

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

- See Waste Treatment Plant section.

Significant Accomplishments during the Prior Month

- Bechtel provided a draft plan of action report to address items from the DOE-led high-level waste (HLW) Baseline Design Review. The findings will be factored into the design progression.
- Parsons completed an onsite review including site familiarization, interviews, and data gathering to develop the DFLAW Independent Cost Estimate.
- Placed the fifth of 33 concrete pours on the 58-foot elevation of the HLW Facility. ORP provided an update, stating that the number of concrete pours completed is now eight.

Ongoing Activities:

- Continued to advance HLW Facility design and hazard analyses for 60 key mechanical and process systems.
- Continued to perform nuclear safety hazard analysis work for the balance of HLW Facility process and utility systems.
- Implementing DFLAW lessons learned and incorporating improvements to key design and project management processes.

OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024

- Continued to develop equipment specifications for plant equipment procurements to support 90 percent system design completion.
- Continued to evaluate flowsheet and waste feed vector requirements associated with direct-feed HLW feed alternatives. This is a collective effort between WRPS, Pacific Northwest National Lab, Bechtel, and ORP.
- Continued installation of formwork, rebar, and steel framing for concrete slab placements to support building enclosure.

Significant Planned Activities in the Next Month

- Complete a 30 percent design review of the glass former system storage, blending, and transfer facility that will support both the LAW and HLW facilities.
- Continue advancing the 60% Design Review on the Steam Plant. ORP added that the 60% Design Review for the Switchgear Facility was completed, and the report should be available by the second week of August 2024. ORP forecasted completion of the 60% Design Review for the Steam Plant to be completed by the end of September 2024.

Issues/Other Items

- Ecology asked when the HLW re-baseline would be complete. ORP did not have a specific date for the re-baseline but noted that design completion is essential to the re-baseline and that process is progressing. ORP added that it will be providing Bechtel's fiscal year 2025 work plan to Ecology soon.

7.0 LOW-ACTIVITY WASTE FACILITY

Project Schedule and Cost Variance Performance

- See Waste Treatment Plant section.

Significant Accomplishments during the Prior Month

- ORP completed the Melter 2 In-Leakage Test and is preparing for melter feed. ORP provided an update to note that three batches have now been processed and preparations have begun on processing batch 4. ORP added that it has implemented lessons-learned from Melter 1. Also, that it has identified leakage in the Melter 2 process cell but is in the process of changing fittings to correct the issue.

On-Going Activities

- Maintaining both LAW Melters at operating temperature and glass pool level.

Significant Planned Activities in the Next Month

- Continue with commissioning activities such as adding tuning feed to Melter 1.

Issues/Other Items

- ORP reported complications with clogging of the Glass Former Reagent (GFR) system. ORP was able to rectify the clog, however. To address the issue, ORP has asked its vendor to mix the slurry at its facility, bring it to the site pre-mixed, then add it to the melter feed prep vessel. Ecology asked if there was a permanent fix to the issue. ORP

OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT DECREE MONTHLY PROJECT MANAGERS MEETING AUGUST 8, 2024

replied they will implement a “bag house” on site but is also working on a redesign of the GFR system, which is currently at the 30% design phase.

8.0 BALANCE OF FACILITIES

Project Schedule and Cost Variance Performance

- See Waste Treatment Plant section.

Significant Accomplishments during the Prior Month

- Nothing reported.

On-going Activities:

- Continued design modification efforts to resolve challenges with Glass Former Facility performance (see 7.0 LAW section of these minutes).

Significant Planned Activities in the Next Month

- Nothing reported.

Issues/Other Items

- ORP reported issues with the Morrison tubes in the boilers. The issues were addressed, but after evaluation, did not meet the minimum thickness required for the current boiler pressure. However, ORP is de-rating the boiler pressure to meet the thickness rate of the tubes. Modification of the boilers is on-going. Ecology asked what de-rating the boilers would do to their efficiency. ORP replied that the boilers are rated for far higher output than required and the de-rating will not affect optimum performance. ORP also added that the LAW boilers will be supplemented eventually by the new steam plant.
- ORP is focusing on the LAW Cold Commissioning Management Assessment.

9.0 ANALYTICAL LABORATORY

Project Schedule and Cost Variance Performance

- Nothing reported.

Significant Accomplishments during the Prior Month

- Nothing reported.

Ongoing Activities:

- Continue with methods validation for sample analysis.

Significant Planned Activities in the Next Month

- Nothing reported.

Issues/Other Items

- Nothing reported.



THE HANFORD SITE

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

Monthly Reporting Period

June 1 – 30, 2024

August 8, 2024

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
 - RPP-9937 Requirements Reporting Dashboard
 - Questions?
- WTP (10:15 am – 11:00am)

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – August 2024 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-23-12-01 14 Dec. 2023	Ecology (A. Chakravartty) would like information on throughput/volume targets and actuals for: <ul style="list-style-type: none"> - 242-A Evaporator Campaign #11 - Effluent Treatment Facility - Double Shell Tank capacity 	12/14/23 – ORP agreed to provide a briefing to Ecology to cover the topics. 01/11/24 – No change in status. 02/08/24 – ORP stated it had provided the requested items to the Ecology PM (A. Chakravartty). The Ecology PM did not acknowledge receipt. ORP will re-send requested items. Ecology PM will confirm if the action has been fulfilled and can be closed.	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – August 2024 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			<p>03/14/24 – Parties agreed to keep this action open while discussing criteria for satisfying Ecology’s request.</p> <p>04/15/24 – ORP reported it is working on getting Ecology the information to satisfy the request.</p> <p>05-07/2024 – No change in status.</p>		
2	TF-24-04-01 11 Apr. 2024	Ecology (D. McDonald) would like a briefing/discussion regarding the schedule for design and permitting of the Second LAWPS capability – the Advance Modular Pretreatment System (AMPS) – and the proposed plan and timing for when the AMPS will begin to augment TSCR.	<p>05/09/24 – ORP stated it would be scheduling a meeting with Ecology to discuss the schedule for permitting and operation of the AMPS.</p> <p>06/13/24 – No change in status</p> <p>07/11/24 – ORP inquired if Ecology still requests the briefing with the milestone (M-062-56) due date not being until 08/31/25. Ecology stated it did. ORP will provide the briefing.</p>	ORP	Open
3	TF-24-05-01 09 May 2024	Ecology requests a briefing on DOE-ORP’s plans for meeting proposed TPA Milestones M-042-03 and -04, which call for the activation of SLN-3150 by 2030 and SLL-3160 by 2036. Both proposed milestones include the requirement that,	<p>06/13/24 – ORP is preparing material for a briefing to Ecology.</p> <p>07/11/24 – No change in status</p>	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – August 2024 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		<p>“Activation includes completion of all actions necessary to have the transfer line satisfy applicable requirements of the Hanford Sitewide Permit and Dangerous Waste Regulations”.</p> <p>Ecology requests that the briefing include:</p> <ol style="list-style-type: none"> 1. Development of the work plan for getting the cross-site transfer lines inspected and planning, including failure analysis work for SLL-3160 2. Briefing dates for letting Ecology know the schedule for completing the milestone work for activating the lines 3. If there will be any activities with respect to two lines (especially SLL-3160 for test failure) in the IQRPE evaluation and reporting 			

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – August 2024 Meeting

WTP ACTIONS

(No current actions)

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
---	-------------------------	--------	-----------------------------	-------------	---------------------------

Documents Submitted to the Administrative Record (AR)

Primary, Secondary, or Other	Requesting Agency	Request Date	Document Number	Revision	Title	Comment	AR Link or AR Accession No.
Other	ECY/DOE	July 2024	DOE/ID/12584-268A, GJPO-HAN-4	N/A	Hanford Tank Farms Vadose Zone - Addendum to the SX Tank Farm Report	WMA S-SX RFI/CMS Work Plan References	AR-30277
Other	ECY/DOE	July 2024	HNF-3136	0	Analysis Techniques and Monitoring Results, 241-SX Drywell Surveillance Logs	WMA S-SX RFI/CMS Work Plan References	AR-30298
Other	ECY/DOE	July 2024	HNF-4380	1B	Preliminary Site-Specific SST Phase 1 RFI/CMS Work Plan Addendum for WMA S-SX	WMA S-SX RFI/CMS Work Plan References	AR-30299
Other	ECY/DOE	July 2024	HNF-5085	0	Site-Specific SST Phase 1 RFI/CMS Work Plan Addendum For S-SX	WMA S-SX RFI/CMS Work Plan References	AR-30300
Other	ECY/DOE	July 2024	HNF-5085	0A	Site-Specific SST Phase 1 RFI/CMS Work Plan Addendum For S-SX	WMA S-SX RFI/CMS Work Plan References	AR-30303
Other	ECY/DOE	July 2024	HNF-5085	1	Site-Specific SST Phase 1 RFI/CMS Work Plan Addendum For S-SX	WMA S-SX RFI/CMS Work Plan References	AR-30304
Other	ECY/DOE	July 2024	HNF-4220	0	Analysis and Summary of Historical Dry Well Gamma Logs for S Tank Farm - 200 West	WMA S-SX RFI/CMS Work Plan References	AR-30305
Other	ECY/DOE	July 2024	HNF-5272	0	Data Quality Objectives Workbook for Waste Management Area S-SX	WMA S-SX RFI/CMS Work Plan References	AR-30306
Other	ECY/DOE	July 2024	HNF-SD-WM-ER-560	1	Historical Vadose Zone Contamination from S and SX Tank Farm Operations	WMA S-SX RFI/CMS Work Plan References	AR-30307
Other	ECY/DOE	July 2024	RPP-8531	0	Vadose Zone Geology of Boreholes 299-W10-27 and 299-W11-39 T-TX-TY Waste Management Area Hanford Site, South-Central Washington	WMA S-SX RFI/CMS Work Plan References	AR-30309
Other	ECY/DOE	July 2024	RPP-21596	0	Risk Assessment for Waste Management Area S-SX Closure Plan	WMA S-SX RFI/CMS Work Plan References	AR-30310
Other	ECY/DOE	July 2024	WHC-MR-0301 Supplement 1	N/A	Waste Tank 241-SX-109 Supporting Documentation - Miscellaneous Reports, Letters, Memoranda, and Data	WMA S-SX RFI/CMS Work Plan References	AR-30312
Other	ECY/DOE	July 2024	RPP-RPT-61279	1	Single-Shell Tank Farm Leak Inventory Assessments Summary 2021	WMA S-SX RFI/CMS Work Plan References	AR-30313
Other	ECY/DOE	July 2024	RPP-ASMT-48143	0	Tank 241-SX-104 Leak Assessment Completion Report	WMA S-SX RFI/CMS Work Plan References	AR-30316
Other	ECY/DOE	July 2024	WHL-MP-1011	132	Quality Assurance Project Plan for 222-S Laboratory	WMA S-SX RFI/CMS Work Plan References	AR-30388

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
M-023-23	TPA-CN-1134	RPP-9937	5C	Single Shell Tank System Leak Detection and Monitoring Functions and Requirements Document	General edits to Sections 3.1.2, 3.3.1, 7.1, 9.0, and Table 1 to update a regulatory citation	Changes were discussed in the annual RPP-9937 meeting held in April 2024.	Completed	6/19/2024	6/26/2024	7/3/2024	AR-30361	Approved

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	3/31/2027	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	Reference DOE letter 23-TWO-0024 dated 1/3/2024, which submitted RPP-RPT-64422, "Tank 241-B-109 and 241-T-111 Intrusion Investigation and Intrusion Response Work Plan," Rev. 1 to Ecology, which identified the Final Report being issued by March 31, 2027.
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	2/1/2024	Complete 1/30/2024	If applicable, submit Active Ventilation Work Plan	AO V.C.1.v	Noyes, Delmar L	Reference DOE letter 24-TWO-0006 dated 1/30/24, which submitted RPP-PLAN-65745, "Work Plan for Active Ventilation of 241-B-109 as an Interim Leak Response," Rev. 0 to ECY, completing this requirement.
A-022-06	TBD (Pursuant to approved Active Ventilation Work Plan schedule)	Complete 5/14/2024	If applicable, install and begin operation of active ventilation system on B-109	AO V.C.2.iii	Noyes, Delmar L	Reference DOE letter 24-TWO-0059 dated 5/14/24, stating based on recent discussions with Ecology, DOE has decided not to install an active ventilation system on Tank 241-B-109. This decision is made pursuant to Agreed Order Docket No. 21304, Section V.C.1.iii, which states that "installation [of an active ventilation system] will not be required, if, based on the approved evaluation, DOE determines that [...] (iii) permitting or other requirements or issues (e.g., design limitations, scaling limitations) pose an unreasonable impediment to proceeding to installation."
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	Activities ongoing to support final design.
A-022-09	09/30/2028*	On Schedule	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*	On Schedule	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	10/31/2024	On Schedule	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	Reference DOE letter 24-TWO-0077 REISSUE dated 7/03/2024, which requested to initiate milestone negotiations with Ecology.
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 is being finalized and cleared by DOE.
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).
- For A-022-01, Ecology comments on SST Leak Response Plan (RPP-PLAN-65643) will result in a revision to the document. DOE began the revision review process with Ecology in June 2024.

In accordance with the identified sections of RPP-9937, *Single-Shell Tank System Leak Detection and Monitoring Functions and Requirements Document*, the following are required to be reported and discussed in a Tri-Party Agreement Project Manager Meeting.

Tanks Currently Exceeding Specification Limits

Sections 3.3.1 and 7.1

An exceedance occurs when valid waste level readings are beyond upper or lower specification limits.

Tank	SL/ILL? Upper/Lower?	First Date of Exceedance	Status
241-S-111	ILL/L	01/18/2024	Investigating barometric pressure influence
241-SX-105	ILL/L	03/07/2024	Investigating cause
241-TX-101	SL/U	01/23/2024	Investigating cause
241-TX-106	ILL/U	02/05/2024	Investigating cause
241-TX-108	SL/L	05/05/2024	Dissolving solids – BCA to be initiated
241-TX-113	ILL/U	02/29/2024	Redistribution
241-TX-114	ILL/U	02/29/2024	Redistribution
241-TX-115	ILL/U	02/29/2024	Redistribution
241-TX-117	ILL/U	02/29/2024	Redistribution
241-U-110	ILL/U	10/28/2022	Investigating cause
241-TX-302-B	SL/U	03/24/2019	Investigating cause
241-TX-302-C	SL/U	03/28/2024	Known intrusion – BCA to be initiated

SL= Surface Level; ILL = Interstitial Liquid Level; U = Upper; L = Lower

As Baseline Change Authorizations (BCAs) are implemented and/or tank levels return within specification limits, they will be removed from this list.

Required Valid Reading Missed

Section 3.3.1

Tank	Non-valid readings occur when the only available data point(s) within a quarter are assigned a quality indicator of “suspect”. The standard path forward for these events is to obtain a follow-up level measurement. Once a valid level reading is obtained for a tank, they will be removed from this list.
241-A-105 SL	
241-SX-112 ILL	
241-EW-151-CT SL	

Extended Outages and Device Repair/Replacement

Section 6.2

241-SX-112 LOW – TOC-ENV-NOT-2024-4720 issued 3/28/2024 to notify of missed quarterly reading and anticipated outage exceeding 90 days. Plan to replace LOW with an Enraf; field work completed for operational Enraf and the path to revise RPP-9937 is in process.

Baseline Change Authorizations Implemented

Section 7.1

Tank	SL or ILL?	Justification
241-S-111	ILL	Redistribution and sensitivity to barometric pressure change
241-T-201	SL	Known intrusion
241-TX-104	SL	Enraf Calibration and seasonal fluctuation of liquid waste
241-TX-113	ILL	Redistribution from interim stabilization
241-TX-114	ILL	Redistribution from interim stabilization
241-TX-115	ILL	Redistribution from interim stabilization
241-TX-117	ILL	Redistribution from interim stabilization
244-TX-DCRT Tank	SL	Known intrusion

This list reflects all BCAs implemented within the reporting quarter.

Newly Identified Intrusions

None

Section 4.1.1



Declaration of Leaks to the Environment None

Section 4.1.2

Tanks Level Returned within Specification Limits	Tank	SL/ILL? Upper/Lower?	Justification
		241-BY-101	ILL/U
	241-U-102	ILL/U	Subsequent data within specification limits
	241-U-103	ILL/U	Subsequent data within specification limits

SL= Surface Level; ILL = Interstitial Liquid Level; U = Upper; L = Lower

Section 3.3.1



**Office of River Protection
TPA/CD Monthly Project Managers Meeting
August 8, 2024**

ATTENDEES

Becky Blackwell, DOE-ORP
Jeff Cheadle, DOE-ORP
Bill Clarno, DOE-ORP
Janet Diediker, DOE-ORP
Jim Greene, DOE-ORP
Paul Hernandez, DOE-ORP
Chantal Martin, DOE-ORP
Dawn MacDonald, DOE-ORP
Erik Nelson, DOE-ORP
Larry Romine, DOE-ORP
Will Ruane, DOE-ORP
Paul Schroder, DOE-ORP
Bibek Tamang, DOE-ORP
Bryan Trimberger, DOE-ORP
Craig Whiteley, DOE-ORP
Holly Bowers, WRPS
Kathryn Draper, WRPS

Maria Lopez, WRPS
Bailey Hardy, HLMI
Don Heidelberg, HLMI
Eric Van Mason, HLMI
Stephanie Brasher, HMIS
Michael Turner, HMIS
Ambika Chakravartty, Ecology
Jay Decker, Ecology
Doug D'Hondt, Ecology
Dave DiSimone, Ecology
Cathrene Glick, Ecology
Moises Guevara, Ecology
Dan McDonald, Ecology
Steve Needles, Ecology
Beth Rochette, Ecology
Shelley Cimon, State of Oregon