

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

April 13, 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.

Paul A. Schroder Digitally signed by Paul A. Schroder
Date: 2023.05.04 11:49:27 -07'00'

Paul Schroder, Project Manager
DOE-ORP

Date: _____

JASON YOUNG Digitally signed by JASON YOUNG
Date: 2023.05.04 10:43:14 -07'00'

Jason Young, Project Manager
DOE-ORP

Date: _____

WAHED ABDUL Digitally signed by WAHED ABDUL
Date: 2023.05.07 10:45:53 -07'00'

Wahed Abdul, Project Manager
DOE-ORP

Date: _____

 Digitally signed by Lyon, Jeffery (ECY)
Date: 2023.05.08 13:01:27 -07'00'

Jeff Lyon, Project Manager
Washington State Department of Ecology

Date: _____

McDonald, Dan (ECY) Digitally signed by McDonald, Dan (ECY)
Date: 2023.05.22 10:18:54 -07'00'

Dan McDonald, Project Manager
Washington State Department of Ecology

Date: _____

 Digitally signed by Chakravartty, Ambika (ECY)
Date: 2023.05.08 11:35:46 -07'00'

Ambika Chakravartty, Project Manager
Washington State Department of Ecology

Date: _____

 Digitally signed by Alexander, Debra (ECY)
Date: 2023.05.08 10:07:45 -07'00'

Debra Alexander, Project Manager
Washington State Department of Ecology

Date: _____

**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) Tri-Party Agreement (TPA)/Consent Decree (CD) Project Managers Meeting is May 11, 2023. The next TPA/CD ORP Quarterly Milestone Review Meeting is June 8, 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 February 1 – February 28, 2023, were entered into the Hanford Administrative Record (AR) on March 28, 2023. *See also, “Items Entered into the Hanford Administrative Record” attached to these meeting minutes. The approved meeting minutes from the March 9, 2023 ORP TPA/CD Quarterly Milestone Review Meeting were added to the Hanford AR on April 5, 2023.*

Tri-Party Agreement Milestones Status

ORP stated all Tri-Party Agreement (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 February 2023 ORP TPA Monthly Report and throughout these minutes).

ORP reported Milestone M-62-40J (“Submit System Plan 10” to Ecology, due 10/31/23) has a new due date of 12/31/23, agreed to via approved TPA Change Control Form M-62-23-01, signed 03/09/23.

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

Tri-Party Agreement Issues and Action Items and Key Documents

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

Emergent Issues (Past 3 Months):

1. Per TPA Primary Document RPP-9937 requirements, ORP reported an intrusion at Tank 241-S-107, and formally sent notification on the intrusion the week of February 6, 2023. ORP and Ecology have held subsequent meetings to discuss.

Actions:

Action No. 1 (TF-21-02-01): ORP agreed to identify a tentative date for holding a dry-run with Ecology in preparation for the WMA-C closure briefing to the Tribes and public about a month prior to the briefing being scheduled. The briefing for the Tribes has yet to be scheduled. ORP reported it is near completion on the draft closure plan, and after some discussions between DOE and Ecology Legal representatives, ORP now has drafted a cover letter for transmittal. There was no change in status at this month’s PMM. *This action remains open.*

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Action No. 2 (TF-21-07-04): Ecology is continuing discussions on a proposed path forward on the DST Leak Response Plan. *This action remains open.*

Action No. 3 (TF-23-03-01): At the 03/09/23 TPA ORP Quarterly Milestone Review Meeting, Ecology requested an update from ORP on the progress to date and projection to complete TPA Milestone M-042-10 (“Complete Leak Test/Internal Inspections, or Other Tank Integrity Examination of DST Components”, due 12/31/26). ORP provided the update at today’s PMM, reporting that it expects to complete 23 of the 24 remaining required DST component inspections by the milestone due date, and is working on a plan to complete the 24th (a cross-site transfer line inspection) by the milestone due date as well. The Parties agreed this action could be closed, but Ecology requested ORP send a follow-up email to the requestor of the action who was not in attendance. ORP agreed to do so. *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*) 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.

- One update was provided. On, Agreed Order (AO) #AO-022-04 (“Submit active ventilation practicability evaluation and determination”, due 08/25/23), the Parties met on 03/28/23 to discuss the air-permitting aspect of this AO requirement.

3.0 222-S LABORATORY

*Note: The 222-S Laboratory is reported at length on a bi-monthly basis. This month is the condensed report.

Significant Past Accomplishments

- The Final Report for Tank 241-SY-102 grab (August 2022) was completed in February 2023.
- The Final Report for Tank 241-AP-108 grab (August 2022) was completed in February 2023.

Significant Planned Activities (next 6 months)

- Nothing reported.

Issues/Other Items

- Nothing reported.

4.0 SYSTEM PLAN

Significant Past Accomplishments

- Nothing reported.

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

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

- ORP reported that Milestone M-062-21 (“Annually Submit Data Which Demonstrates Operation of WTP at a Rate Sufficient to Meet M-062-00, due 08/31,23”) is stuated as “At Risk,” although the due date was extended for six months via TPA Change Control Form M-62-22-01, signed 11/29/22. The extension will allow DOE and Ecology to continue discussions that might affect this milestone in the ongoing “Holistic Negotiations”. Operational data for the WTP, as described for the milestone, will not be available to support accurate mission forecasting, despite the six-month extension. ORP will need to send a signed TPA change control form to Ecology by 05/31/23 to formally propose a new milestone due date.

7.0 LOW ACTIVITY WASTE PRETREATMENT SYSTEM

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Nothing reported.

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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.

Issues/Other Items

- Ecology requested a formal action: a briefing/update from ORP on the progress of TSCR, with an emphasis on the response to the leaking ion-exchange column encountered during the first TSCR run. The action was captured and will be added to the “ORP Issues and Action Items List”.

9.0 TEST BED INITIATIVE DEMONSTRATION

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Issue Final Waste Incidental to Processing (WIR) Evaluation (DOE-ORP-2022-02, Rev. 0) and potential WIR Determination. Note: ORP provided an update. The WIR Determination and Finding of No Significant Impacts were signed by DOE Hanford Manager, Brian Vance on 03/16/23, and an accompanying Federal Register Notice of Availability was published on 03/20/23.
- Issue final documentation related to the *National Environmental Policy Act* and potential decision document(s).
- Initiate required permitting actions to support installation and operation of the TBI Demonstration equipment. Note: ORP provided an update. DOE has begun informal review of the RCRA Research, Development and Demonstration Permit application in March 2023.

Issues/Other Items

- Nothing reported.

10.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments

- Nothing reported.

Significant Planned Actions in the Next Six Months

- Nothing reported.

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Issues/Other Items

- On December 25, 2022, the 242-A Evaporator experienced a freeze event. It was discovered that the K1 ventilation heating system was not operational and several liquid piping systems were discovered to be damaged. Engineering evaluations are in development and repairs are underway. Repairs are expected to be completed by 06/14/23.

11.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY

Significant Past Accomplishments

Operations

- DOE transmitted the LERF DOE Operational Readiness Review Final Report to the managing contractor on 02/08/23. ORP added that work on an updated Documented Safety Analysis has begun.

Projects

- Continued fieldwork activities for the ETF motor control center upgrade (e.g., E-House construction acceptance testing).
- Continued fieldwork activities for the interior coating inspection and repair of Verification Tank 1A (e.g., recoating of interior tank roof and walls).
- Continued fieldwork activities for the ETF supplemental organic treatment system (e.g., system tie-ins).

Significant Planned Actions in the Next Six Months

Operations

- Nothing reported.

Projects

- Nothing reported.

LERF Volumes

- ORP noted that there were two recent tanker-truck deliveries that increased the volume of Basin 44 by 14,000 gallons.
- See pg. 26 of the February 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

- Nothing reported.

Significant Planned Actions

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- Complete National Association of Corrosion Engineers' inspections of AZ-01B, AZ-01C, and AZ-02B. ORP noted that this work in support of TPA Milestone M-042-10 ("Complete Leak Test/Internal Inspections, or Other Tank Integrity Examination of DST Components", due 12/31/26) will be performed in June 2023.

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

Baseline Change Authorizations implemented:

- One surface level SST Baseline Change Authorization implemented due to known intrusion (Tank 241-SX-106).

Specification limit exceedance:

- One interstitial-liquid level exceeded its lower specification limit (Tank 241-T-110).
- Four interstitial-liquid levels exceeded their upper specification limit (Tanks 241-BY-106, 241-S-109, 241-SX-102, and 241-U-110).

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

- Monitoring data taken from Tank 241-A-350 was determined to be suspect in December 2022.

Issues/Other Items

- ORP continues to monitor the above-referenced exceedances.

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

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- 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

- Transmitted to Ecology RPP-PLAN-64407, Waste Management Area Integration Study – Waste Management Area A-AX, Rev. 1 via letter 22-TF-003987, dated 02/27/23, in response to Ecology’s comments provided via letter 22-NWP-038, “Transmittal of the Department of Ecology’s Review Comment Record for Waste Management Area Integration Study – Waste Management Area A-AX, RPP-PLAN-64407, Revision 0,” dated 02/28/22.
- The Waste Management Area Integration Study –Waste Management Area A-AX was originally submitted to Ecology to fulfill TPA milestone M-045-97. With Ecology’s approval of Rev. 1, there are no more outstanding actions related to TPA milestone M-045-97.

Significant Planned Activities in the Next Six Months

- Begin construction of the U Tank Farm interim surface barrier in support of Milestone M-045-92AB. Mobilization began 03/14/23, subgrade construction is projected to start on 05/01/23, asphalt is to be installed by 08/02/23, and the barrier is projected to be complete on 08/29/23, which will also complete M-045-92AB.
- 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. ORP is reviewing Ecology feedback received via email on 03/31/23 and will schedule a meeting with Ecology to discuss draft comments.

Issues/Other Items

- Nothing reported.

15.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

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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).

Issues/Other Items

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

16.0 TANK OPERATIONS PROJECT SCHEDULE AND COST VARIANCE PERFORMANCE

Base Operations:

The January 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 February 2023 TPA Monthly Report.

- The month showed a favorable schedule variance of \$5,260,100.
- The month showed an unfavorable cost variance of \$2,756,00.

Waste Feed Delivery/Treatment:

The January 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 February 2023 TPA Monthly Report.

- The month showed an unfavorable schedule variance of \$2,283,000.
- The month showed a favorable cost variance of \$310,600.

Treat Waste:

The January 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 February 2023 TPA Monthly Report.

- The month showed an unfavorable schedule variance of \$366,107.
- The month showed a favorable cost variance of \$13,294.

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 1-2 of the ORP February 2023 Consent Decree Monthly Report as well as individual sections of these meeting minutes).

Consent Decree Issues and Action Items

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

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

Issues:

There are no current issues.

Action Items:

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

2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

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

- ORP reported a favorable schedule variance of \$0.57 million.
- ORP reported an unfavorable cost variance of \$0.60 million.

Significant Accomplishments during the Prior Month

Completed Accomplishments

- Nothing reported.

On-Going Activities

- Continued Tank 241-AX-101 retrieval operations. ORP reported, as of today’s meeting, total was volume retrieved the tank is about 22.5%.
- Continued A Tank Farm equipment removal activities in preparation for new retrieval equipment installation. ORP noted that as of today’s meeting, crews had demobilized from Tank 241-A-101 Pit and were pulling thermocouples from Tank 241-A-103.

Significant Planned Activities in the Next Month

- Complete Tank 241-A-101 Pit cleanout. (Note: this has been completed. See above bullet).
- Complete Tank 241-A-103 R15 thermocouple removal.

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

- Review and disposition Ecology’s comments on the 241-A-101 Tank Waste Retrieval Work Plan (TWRWP). ORP provided an update to note that it had received informal approval of comment disposition and had updated the TWRWP, which is now going through the clearance process.

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Issues/Other Items

- Nothing reported.

4.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

Project Schedule and Cost Variance Performance

- Nothing reported.

Issues/Other Items

- Nothing reported.

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

Project Schedule and Cost Variance Performance

- Nothing reported.

Significant Accomplishments during the Prior Month

- Nothing reported.

Ongoing Activities:

- Actions are underway 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, and establishment of the project control strategy for re-baseline of the HLW Facility.
- Continued to advance HLW Facility design and hazard analyses for key mechanical and process systems.

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- Continued to develop equipment specifications to issue Request for Proposals (RFP) for plant equipment procurement to support 90 percent system design completion. ORP anticipates issuing the RFP in May 2023.

Significant Planned Activities in the Next Month

- DOE approval of the Bechtel National, Inc. submitted *Preliminary Documented Safety Analysis*, Rev. 11.

Issues/Other Items

- ORP is implementing many of the lessons-learned from the DFLAW project, most notably on the design/build sequence. The project has focused on risk-reduction and will potentially deploy several equipment mock-ups to reduce that risk prior to full construction.
- ORP is continuing its planning for Direct-Feed High-Level Waste, though regulator approval is pending.
- ORP is taking advantage of an increase in fiscal-year funding, which has increased compared to a few years ago. The FY2023 work plan is based on accomplishing \$150 million in work scope this year.
- Ecology asked if ORP had developed a Level-Zero or Level-One schedule for the HLW Facility. ORP replied it has developed a Level-One or high-level schedule, and Bechtel is working on a more detailed schedule to support the upcoming design completion period request for proposal. It would take several months before a level three schedule is available for the design period work. Ecology noted that the earlier that schedule is provided, more it will help the permitting process.
- Ecology asked if inter-dependency is being built into individual system designs. ORP replied that it is and that this was one of the chief lessons learned from DFLAW. One of the other aspects ORP will be implementing is to have startup engineers and operations staff involved with the design process.

7.0 LOW-ACTIVITY WASTE FACILITY

Project Schedule and Cost Variance Performance

- ORP reported it is working with DOE Headquarters to restore Covid-contingency funding. The funding impact to the project from Covid was about \$450 M.

Significant Accomplishments during the Prior Month

- Completed physical inspections of melter joule heater power supply cabinets.
- Shipped joule heater components to vendor shop for refurbishment. ORP reported the problem stemmed from corrosion found in the transformers. ORP has also begun replacing hoses and adding corrosion inhibitors to mitigate.
- Completed installation and initial operation of a temporary system to remove foreign material discovered in the melter power supply cooling system.
- Initiated modifications to the caustic scrubber. These include installing new filters, flushing the systems, and testing of the transfer pumps and auto-drain function.

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On-Going Activities

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

Significant Planned Activities in the Next Month

- Nothing reported.

Issues/Other Items

- ORP reported that the joule heater vendor recommended adding smoke detectors in each power cabinet to alert if a drive began generating hydrogen, which ORP said there was a low potential of occurrence but are installing the detectors as a safeguard. Ecology asked if a detector were to sound, would it mean the drive had failed. ORP responded that it would not. The alarm is an early warning that would allow for time to shut down the drive prior to failure.

8.0 BALANCE OF FACILITIES

Project Schedule and Cost Variance Performance

- Nothing reported.

Significant Accomplishments during the Prior Month

- Completed installation of plant cooling water system pump 5C. The pump was removed for inspection of possible damage. None was found.

On-going Activities:

- Continued design modification efforts to resolve on-going issues with Glass Former Facility performance.
- Continued system operations to support LAW Melter heatup and tuning.

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:

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- Continued design modifications to the LAB ventilation systems to support laboratory instrumentation requirements.
- ORP is working with the Washington State Department of Health on developing air permits for the LAB.

Significant Planned Activities in the Next Month

- Nothing reported.

Issues/Other Items

- ORP reported it has made a change in water chemistry function, moving it from commissioning techs and plant management to having LAB personnel perform. The decision to do so stems from the LAB personnel being more well-versed in performing sampling and analytical analysis.
- The State of Oregon asked if the water testing will be done at periodic or regular intervals. ORP responded it depended on the system. Some are done regularly while others are done periodically.



THE HANFORD SITE

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

Monthly Reporting Period

February 1 – 28, 2023

April 13, 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 – April 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:

#	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	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.	ORP	Open

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		<p>permitting activities 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>Timing will be approximately 1 month before the public comment period begins for the permitting action.</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> <ul style="list-style-type: none"> Overview of TPA closure process Results of Appendix I PA Summary of 435.1 PA Summary of RCRA CA Summary of Past Leaks Summary of Baseline Risk Assessment <p>Ecology will present on the following:</p> <ul style="list-style-type: none"> Closure Plans <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>		

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

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

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

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

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
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) Reference: 21-NWP-109 (07/19/21)	<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> <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>	ORP	Open

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			<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 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: Ecology is continuing discussions on a proposed path forward.</p>		

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			03/09/23: Ecology is continuing discussions on a proposed path forward.		
3	TF-23-02-01 02 Feb. 2023	Ecology requested a briefing from ORP on the process for installation of Liquid Observation Wells (LOWs)	02/09/23: ORP agreed to provide the briefing and will work on scheduling. 03/09/23: The briefing was held 03/13/23. Email from J. Lyon, ECY to P. Schroder, ORP on 03/13/23 confirmed the action could be closed.	ORP (Erik Nelson)	Closed
4	TF-23-03-01 09 Mar. 2023	Ecology requested an update on the progress to date on M-0-42-10 (“Complete Tank Integrity Examination of DST Components to Assess Integrity”, due 12/31/26), including negative or positive schedule float.	Ecology requested the update by the next TPA Project Managers Meeting (04/13/23).	ORP	Open

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. 02/09.23: ORP is continuing to work on scheduling the briefing.	ORP (J. Young)	Open
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ORP/Ecology TPA and CD Agreements, Issues, and Action Items – April 2023 Meeting

			03/09/23: No update. ORP continues to work on scheduling the briefing.		
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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	AO Due Date	Status	AO Requirement	AO Reference	DOE Assistant Manager	Remarks
A-022-01	8/25/2023	On Schedule	Submit SST System Leak Response Plan	V.A.1.i	Noyes, Delmar L	SST LRP matrix was provided to ECY week of March 13. LRP is in development.
A-022-02	8/25/2023	On Schedule	Submit results of intrusion investigation and, if applicable, Intrusion Response Work Plan	V.B.1.ii	Noyes, Delmar L	WRPS working on intrusion investigation.
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	V.B.2	Noyes, Delmar L	
A-022-04	8/25/2023	On Schedule	Submit active ventilation practicability evaluation and determination	V.C.1.iv	Noyes, Delmar L	Meeting scheduled with ECY on March 28 on the outline.
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	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	V.C.2.iii	Noyes, Delmar L	
A-022-07	8/31/2025		Submit interim barrier design for T-Farm	V.D.1.i	Noyes, Delmar L	
A-022-08	8/31/2026		Submit interim barrier design for B-Farm	V.D.1.ii	Noyes, Delmar L	
A-022-09	09/30/2028*		Complete construction of interim barrier at T-Farm	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*		Complete construction of interim barrier at B-Farm	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*		Complete System Plan 10 milestone negotiations	V.E.2.i	Noyes, Delmar L	Scenario 2 modeling in progress. TPA change notice M-62-23-01 signed by DOE and Ecology on 03/09/23.
			*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.			
A-022-12	8/25/2024		Submit Leak Detection and Monitoring Technology Evaluation	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	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	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 Washington State Department of Ecology and the U.S Department of Energy, 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 (AR-21769).

Documents Submitted to the Administrative Record (AR)

Milestone	Primary, Secondary, or Other	Requesting Agency	Request Date	Document Number	Revision	Title	Comment	PMM Request Date
M-045-56	Other	ECY	March 2023	RPP-ASMT-65291	0	Data Quality Assessment for Soil Samples Collected at WMA A-AX Focus Area 2	Supporting document for M-045-56	13-Apr-23
NA	Other	ECY	March 2023	EPA-600/2-84-057	0	Design and Development of a Hazardous Waste Reactivity Testing Protocol	Referenced in the draft DST Waste Analysis Plan for Rev 9 of the RCRA permit.	13-Apr-23
M-045-56	Other	ECY	March 2023	RPP-RPT-63712	0	Final Report for Soil Samples in Support of Interim Measures at 241-U Tank Farm (Core D0158)	Supporting document for M-045-56	13-Apr-23
M-045-56	Other	ECY	March 2023	RPP-RPT-63977	0	Final Report for Soil Samples in Support of Interim Measures at 241-U Tank Farm (Core D0156)	Supporting document for M-045-56	13-Apr-23
M-045-56	Other	ECY	March 2023	RPP-RPT-63978	0	Final Report for Soil Samples in Support of Interim Measures at 241-U Tank Farm (Core D0326)	Supporting document for M-045-56	13-Apr-23
M-045-56	Other	ECY	March 2023	RPP-RPT-63979	0	Final Report for Soil Samples in Support of Interim Measures at 241-U Tank Farm (Core D0164)	Supporting document for M-045-56	13-Apr-23
M-045-56	Other	ECY	March 2023	RPP-RPT-63980	0	Final Report for Soil Samples in Support of Interim Measures at 241-U Tank Farm (Core D0160)	Supporting document for M-045-56	13-Apr-23
M-045-56	Other	ECY	March 2023	RPP-RPT-63981	0	Final Report for Soil Samples in Support of Interim Measures at 241-U Tank Farm (Core D0162)	Supporting document for M-045-56	13-Apr-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
N/A for March										

Office of River Protection
Monthly Tri-Party Agreement/Consent Decree Project Managers Meeting
April 13, 2023

ATTENDEES

Paul Schroder, DOE-ORP
Bryan Trimberger, DOE-ORP
Chantal Martin, DOE-ORP
Paul Hernandez, DOE-ORP
Jeff Cheadle, DOE-ORP
Jim Greene, DOE-ORP
Rana Evans, DOE-ORP
Larry Romine, DOE-ORP
Erik Nelson, DOE-ORP
Craig Whiteley, DOE-ORP
Mat Irwin, DOE-ORP
Dawn MacDonald, DOE-ORP
Robin Varljen, DOE-RL
Maria Lopez, WRPS
Gordon Warwick, WRPS
Holly Bowers, WRPS
Michael Turner, HMIS
Stephanie Brasher, HMIS

Eric Van Mason, HLMI
Bailey Hardy, HLMI
Ambika Chakravartty, Ecology
Jeff Lyon, Ecology
Debra Alexander, Ecology
Dan McDonald, Ecology
Doug D'Hondt, Ecology
Jim Alzheimer, Ecology
Ed Holbrook, Ecology
Kyle Rucker, Ecology
Jennifer Linville, Ecology
Nitya Chandran, Ecology
David Bowen, Ecology
Theresa Howell, Ecology
Jeff Marusich, Ecology
Jay Decker, Ecology
Dave Einan, US EPA
Shelley Cimon, State of Oregon