

***Office of River Protection
Tri-Party Agreement Project Managers' Meeting Minutes***

January 13, 2022

Meeting held virtually, via MS TEAMS

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CONCURRENCE SIGNATURES

In accordance with the Tri-Party Agreement Section 4.1, Project Manager Role, 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 (or their delegate's signature) 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.

Brian A. Harkins

Brian Harkins, Project Manager
DOE-ORP

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Date: 2022.02.01 12:59:29 -08'00'

Date: _____

JASON YOUNG

Jason Young, Project Manager
DOE-ORP

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Date: _____

Not in Attendance

Wahed Abdul, Project Manager
DOE-ORP

Date: _____

Not in Attendance

Jeff Lyon, Project Manager
Washington State Department of Ecology

Date: _____

McDonald, Dan (ECY)

Dan McDonald, Project Manager
Washington State Department of Ecology

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Temple, John (ECY)

John Temple, Project Manager
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**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
POC	Point of contact
PT	Pretreatment
RAD	Radiation absorbed dose
RCRA	<i>Resource Conservation and Recovery Act</i>
SST	single-shell tank
TC&WM	Tank Closure and Waste Management
TPA	Tri-Party Agreement
TSCR	tank-side cesium removal
TWRWP	tank waste retrieval work plan
UT	Ultrasonic Test
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 Project Managers' meeting is scheduled for February 10, 2022, via MS TEAMS.

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 November 1 – November 30, 2021, were entered into the Hanford Administrative Record on December 27, 2021.

Tri-Party Agreement Milestone Status

ORP stated all Tri-Party Agreement (TPA) milestones reported on were either Complete, On Schedule or In Dispute Resolution (for details on specific milestones, see pages 3-5 of the November 2021 ORP TPA Monthly Report).

Tri-Party Agreement Issues and Action Items

For reference, see attached, "ORP/Ecology TPA and CD Agreements, Issues and Action Items – January 2022 Meeting."

Issues:

1. ORP restated its position from the December 9, 2021, ORP TPA Project Managers Meeting, which is: the issue, which has appeared in the "Tri-Party Agreement Issues and Action Items" since November 2018, has been documented in numerous letters back and forth between Ecology and ORP, and is currently being discussed by each agency's legal teams. Ecology's Project Manager was not present to respond, so the language remains in the "Issues" section.
2. ORP requested the following be entered into the meeting minutes: "Pursuant to the Single-Shell Tank System Leak Detection and Monitoring Functions and Requirements Document (RPP-9937), two Single-Shell Tank in-tank monitoring systems did not provide valid readings during the fourth quarter of CY2021. The SX-105 liquid observation well (LOW) was found to be contaminated and no longer usable (reference Environmental Notification TOC-ENV-NOT-2021-4635). The LOW requires replacement. A request for funding has been submitted. Once funding is approved, work will be scheduled to replace the LOW. For T-111, both LOW and Enraf are noted in RPP-9937. Review of the Enraf data for T-111 for the fourth quarter of CY2021 determined that the data for the Enraf was suspect (formal environmental notification pending – should be issued this week); however, T-111 also has an installed LOW in addition to the Enraf, and the LOW did provide valid readings for the 4th quarter time period. Replacement of the drum and bearing for the T-111 Enraf is scheduled to occur by or before 2/28/2022."

Action No. 1 (TF-21-02-01): There was no update to this action. *This action remains open.*

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

Action No. 2 (TF-21-02-03): The Parties provided an update that the addenda would be submitted by ORP in February 2022. ORP stated it was working on scheduling a meeting with Ecology to discuss details of the addenda. *This action remains open.*

Action No. 3 (TF-21-05-02): Ecology reported that an informal permit modification was submitted by ORP in late October, and Ecology had provided its initial review of the informal modification. Ecology confirmed the action could be closed. *This action was closed.*

Action No. 4 (TF-21-07-04): The Parties reported they had met, but that a follow-on meeting was needed. *This action remains open.*

Action No. 5 (TF-21-07-06): Meetings continue between the Parties at a management level higher than TPA Project Managers. *This action remains open.*

Action No. 6 (TF-21-09-01): The parties have yet to meet on this issue as of today's meeting (01/13/22). ORP continues to formally status TPA milestone M-045-15 (Tank A-103 retrieval) as "At Risk" *This action remains open.*

Action No. 7 (TF-21-11-01): Ecology reported receiving the Tank Integrity Expert Panel report and August 2021 meeting minutes and that the action could be closed. *This action was closed.*

Action No. 8 (TF-21-11-02): Ecology reported it had received the requested reports, however, Ecology requested an updated addendum to one of the reports because Ecology identified an issue. ORP is sending a revision to that report, and the report is going through the Clearance process. *This action was tentatively closed.*

New Actions: Ecology presented a list of "talking points" for discussion (the talking points are added as an attachment to these meeting minutes). As a result, three new action items will be added to the February 2022 "Tri-Party Agreement Issues and Action Items". A summary of the discussion is below.

Issue/Action #1 – The first action pertains to submittal of the ultrasonic testing inspection reports for Double Shell Tank 241-AY-101 (AY-101). Ecology stated it had reviewed several reports on AY-101 recently, and these reports have led Ecology to have some concern about the integrity of the tank, specifically regarding bottom-of-the-tank corrosion (as was the case with Tank 241-AY-102, which experienced a leak into the annulus). Ecology requested a briefing from ORP on the annulus cleanup of AY-101 that occurred in 2021, the most recent visual inspection results from 2021, and ORP's response to the Tank Integrity Expert Panel's recommendations concerning the tank.

Issue/Action #2 – Ecology inquired about a recent Tank 241-AP-107 intrusion/leak into the annulus pit. ORP noted that the annulus leak was most likely caused by snowmelt runoff and

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

was not contaminated, but did to provide a detailed briefing on the results to Ecology at the next ORP TPA Project Managers Meeting on February 10, 2021.

Issue/Action #3 – Ecology noted that in the most recent TPA monthly report, ORP had attempted to take a core sample from Tank 241-AN-102 (AN-102) but encountered a crust on top of the waste that prevented core sampling. ORP responded that the tank didn't have a "crust" on top of it, per se, but underneath the supernatant they did find hard-packed solids. ORP plans to attempt a re-sample using a support sleeve to provide extra force to penetrate the solid level. ORP further noted that finding the solids was not unexpected. Expanding on core-sampling, Ecology asked ORP if their core sampling analysis considers future processing needs, such as feed-acceptance requirements for treatment. ORP responded that core sampling is being done only for chemical control purposes at this time, and that analysis for future processing is a different process, using different data-quality objectives (with added associated costs), and therefore would be done later in the process. Ecology asked ORP to provide Ecology sampling documentation prepared for the core-sampling of AN-102. ORP agreed to provide the documentation.

2.0 KEY PROJECT UPDATES

- ORP provided visual updates of some key projects, including workers removing the core sampling platform from the AN Tank Farm before transporting it to AW Tank Farm, where it will support core sampling on Tank 241-AW-105, which is projected to begin in March. A picture was shared of the hose-in-hose transfer lines being removed from the AY Tank Farm, where they were used in the pumping of Tank 241-AY-102 and will be disposed of in the Environmental Restoration Disposal Facility. Construction photos were shown of work in support of the pressure test on the 242-A Evaporator transfer line and the concrete slab for the Effluent Treatment Facility (ETF) Load-In Facility. The annulus cleaning of Tank 241-AN-101 was shown, as was the direct-push core sampling for soil sampling in U Tank Farm. Finally, a picture was shown of the new ETF UV-OX system, as was a picture showing the unloading the TSCR ion-exchange column. (Note: visuals were not included with the meeting minutes as they were not cleared for public use.)

3.0 SYSTEM PLAN

Significant Past Accomplishments

- The U.S. Environmental Protection Agency (EPA), U.S. Department of Energy (DOE), and Washington State Department of Ecology (Ecology) met in the first mediated session of the "Holistic Negotiations" on June 25, 2020. There were weekly negotiation sessions held in April 2021.
- On January 27, 2021, DOE submitted signed change package M-62-21-01 to Ecology for evaluation to extend the M-062-45 Milestone date 90 days due to "Holistic Negotiations" progress. This change package was not concurred on by Ecology within the 14-day period and therefore went into dispute on February 10, 2021.

Significant Planned Actions in the Next Six Months

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

- Discuss disputes with regard to milestone M-062-45 and its associated milestones during “Holistic Negotiations.”
- Kick off System Plan, Rev. 10, scenario selection discussions in the spring of 2022.

Issues/Other Items

- None reported

4.0 ACQUISITION OF NEW FACILITIES/SUPPLEMENTAL TREATMENT AND RCRA PART B PERMIT APPLICATIONS

Significant Past Accomplishments

- None reported

Significant Planned Actions in the Next Six Months

- None reported

Issues/Other Items

- None reported

5.0 SUPPLEMENTAL TREATMENT AND RESOURCE CONSERVATION AND RECOVERY ACT PART B PERMIT APPLICATIONS

Significant Past Accomplishments

- See section 2.0 “System Plan”

Significant Planned Actions in the Next Six Months

- Ecology and ORP have ended negotiations related to the M-062-45 Milestone and have initiated dispute. “Holistic Negotiations” mediated sessions began in June 2020 to resolve these disputes.

Issues

- None reported

6.0 LOW ACTIVITY WASTE PRETREATMENT SYSTEM

Significant Past Accomplishments

- None reported.

Significant Planned Actions in the Next Six Months

- None reported

Issues/Other Items

- None reported

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

7.0 TANK SIDE CESIUM REMOVAL SYSTEM (TSCR)

Significant Past Accomplishments

- ORP's tank farm contractor completed the management self-assessment in mid-July.
- Completed the operational readiness checklist and turned the system over to the Operations organization.
- Completed the Tank Operations Contract readiness assessment.
- Completed the DOE readiness assessment.
- Received Ecology's approval of the TSCR RCRA permit.
- Project Management Risk Committee Endorsement of Critical Decision-4A.

Significant Planned Actions in the Next Six Months

- ORP to receive Project Management Executive approval of the Critical Decision 4a package to allow TSCR operations to commence
- Initiate TSCR operations

Issues/Other Items

- ORP is projecting start of TSCR operations in late January.

8.0 TEST BED INITIATIVE

Significant Past Accomplishments

- The Notice of Availability of Draft Waste Incidental to Reprocessing Evaluation for the Test Bed Initiative Demonstration, U.S. Department of Energy (Draft WIR Evaluation) was published in the Federal Register on November 5, 2021 (see 86 FR 61200). The Draft WIR Evaluation demonstrates that the pretreated and solidified waste will be incidental to reprocessing of spent nuclear fuel, will not be high-level radioactive waste, and may be managed as low-level radioactive waste.
 - DOE is providing a minimum 90-day public comment period.
 - DOE consulted with the NRC concerning the Draft WIR Evaluation. The NRC has found the submittal to be complete and is conducting a technical review.
 - A virtual public meeting on the Draft WIR Evaluation was held by DOE and NRC on November 18, 2021.

Significant Planned Actions in the Next Six Months

- Closing of the 90-day public comment period for the Draft WIR Evaluation
- Support the NRC in technical review of the Draft WIR Evaluation and respond to any requests for additional information
- Receive an NRC technical evaluation report based on NRC technical review of the Draft WIR Evaluation

Issues/Other Items

- None reported

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

9.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments

- Completed replacement of the raw water strainer in the 242-A Evaporator Water Service Building
- Continued activities to replace building exhaust HEPA filters. One bank of three completed
- Completed welding all five of the secondary encasement clamshells in Phase 1 location between AW-B and AW-02A for the 242-A Evaporator slurry and feed transfer line replacement
- Completed installation of all pipe spools and all primary welds in Phase 2 location for the 242-A Evaporator slurry and feed transfer line replacement
- Completed setting in place ten pipe spools and seven primary welds in Phase 3 location for the 242-A Evaporator slurry and feed transfer line replacement

Significant Planned Actions in the Next Six Months

- Receive new PB-1 and PB-2 replacement pumps
- Complete installation of the 242-A Evaporator raw water strainer
- Continue excavation in AW Tank Farm for the 242-A Evaporator slurry and feed transfer line replacement
- Continue pipe in pipe installation in AW Tank Farm for the 242-A Evaporator slurry and feed transfer line replacement
- Calibrate instruments and initiate testing of the 242-A Evaporator Documented Safety Analysis safety system upgrades
- Initiate design for the replacement of U-Joints on the 242-A dump valves

Issues/Other Items

- None reported.

10.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY

Significant Past Accomplishments

- Total fiscal year (FY) 2022 processing volume: approximately 0 million gallons
- Continued testing and turnover of the LERF Basin 44 cover replacement upgrade
- Continued testing and turnover of the ETF monitoring and control system upgrade and the ETF ultraviolet/oxidation upgrade
- Continued fieldwork activities for the LERF Basin 41 installation
- Continued fieldwork activities for the ETF Load-In Station expansion upgrade
- Continued fieldwork activities for the ETF motor control center upgrade

Significant Planned Actions in the Next Six Months

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

- Submit to Ecology as a primary document a combined secondary solid and liquid waste disposition workplan for target Milestones M-062-51-T01 and M-062-52-T01 (update: complete)
- Operate ETF and process approximately 1 million gallons from LERF Basin
- Complete testing and turnover of the ETF monitoring and control system upgrade, as the previous system is outdated
- Complete testing and turnover of the ETF ultraviolet/oxidation upgrade, as the previous system is no longer supported by the manufacturer
- Complete design of ETF brine storage tanks, the acetonitrile distillate storage tanks, and the acetonitrile load out system
- Complete procurements and fabrications for the ETF redundant filtration, carbon dioxide membrane, freeze protection, instrument air, vessel offgas system, Load-In Station expansion, brine and acetonitrile storage tanks, and chiller addition upgrade projects
- Continue fieldwork activities for the LERF Basin 41 installation for additional capacity
- Continue fieldwork activities for the ETF Load-In Station expansion upgrade to support enhanced facility operation
- Continue fieldwork activities for the ETF motor control center upgrade to improve electrical infrastructure for enhanced facility operation
- Begin fieldwork activities for the ETF supplemental organic treatment (i.e., steam stripping) system to provide the capability to treat the WTP DFLAW effluent
- Begin fieldwork activities for the ETF redundant filtration system to reduce processing down time
- Begin fieldwork activities for the ETF carbon dioxide membrane system to provide the capability to treat the WTP DFLAW effluent
- Begin fieldwork activities for the ETF chiller addition to provide additional cooling capability for the ETF upgrade projects

LERF Volumes

- See pg. 24 of the November 2021 TPA Monthly Report.

Issues/Other Items

- None reported

11.0 TANK SYSTEM UPDATE

11.1 Double-Shell Tank Integrity

Significant Past Accomplishments

- Completed double-shell tank (DST) annulus visual inspection at Tanks 241-AN-106, 241-AN-105, and 241-AN-107
- Initiated ultrasonic testing inspections at Tank 241-AN-107

Significant Planned Actions

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

- Conduct ultrasonic testing inspections at Tanks 241-AN-101, 241-AN-107, 241-AP-105, and 241-SY-101
- Conduct DST annulus visual inspections in Tanks 241-AN-101, 241-AN-102, 241-AN-103, 241-AN-104, 241-AZ-101, and 241-AZ-102
- Complete report development for the nine double-shell tank annulus visual inspections performed in FY 2021
- Complete report development for the nine double-shell tank annulus visual inspections performed in FY 2022

Ultrasonic Testing Report Status

- None reported.

Issues/Other Items

- None reported.

11.2 Single-Shell Tank Integrity

Significant Past Accomplishments

- Completed RPP-RPT-63488, Structural Assessment of Concrete Damage in the Hanford SX Single-Shell Tanks, Rev. 0, in November 2021
- Completed follow-up visual and laser inspection at Tank 241-SX-111 (November 2021)

Significant Planned Actions in the Next Six Months

- Release RPP-RPT-63488, Structural Assessment of Concrete Damage in the Hanford SX Single-Shell Tanks, Rev. 0
- Initiate FY 2022 SST visual inspections

RPP-9937 Rev. 4 Updates

- Baseline Change Authorizations:
 - None
- Specification Limit Exceedance:
 - One Miscellaneous Underground Storage Tank exceeded its specification limits and is being reviewed now for justifications: 41-EW-151-CT (East/West Vent Station)

Issues/Other Items

- A complete listing of issues can be found in the November 2021 TPA Monthly Report on pgs. 27-28.

12.0 IN-TANK CHARACTERIZATION AND SUMMARY

12.1 Reports Completed or Released

ORP completed five reports and released one. For details, please refer to page 30 of the November 2021 TPA monthly report.

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

12.2 Tank Sampling

Significant Past Accomplishments

For November 2021, the following tank sampling was conducted:

- Completed Tank 241-AN-102 grab sampling setup and initiated sampling. Eleven samples (including one blank and one duplicate) were taken

Significant Planned Actions in the Next Six Months

- Complete FY 2021 carryover grab sampling of Tank 241-AZ-102 in December 2021
- Complete grab sampling of Tank AN-102 in December 2021
- Complete grab sampling of Tank 241-AZ-101 in March 2022
- Complete grab sampling of Tank 241-AW-105 in March 2022
- Complete core sampling of Tank 241-AW-105 in March 2022
- Complete grab sampling of Tank 241-AP-105 in May 2022
- Complete grab sampling of Tank 241-AN-107 in May 2022

Issues/Other Items

- Attempts to penetrate the hard crust on the top of the waste in Tank 241-AN-102 during initial core sampling have been unsuccessful. Engineering and Operations have identified a path forward that requires a tool evaluation and the fabrication of sleeving. While the path forward is being established for Tank 241-AN-102, the team is transitioning from the core sampling at Tank 241-AN-102 to core sampling at Tank 241-AW-105 (Also see pg. 7 of these meeting minutes).

12.3 Best-Basis Inventory Updates

Significant Past Accomplishments

- Best-basis inventory updates for the following tanks was completed in November 2021: Tanks 241-BX-101, 241-S-112, and 241-TX-104

Significant Planned Actions in the Next Six Months

Best-basis inventory updates for the following tanks are currently planned to be completed in December 2021:

- Tank 241-AN-106
- Tank 241-AX-103
- Tank 241-AZ-102
- Tank 241-B-106
- Tank 241-C-105
- Tank 241-SX-108
- Tank 241-TY-104
- Tank 241-U-112

Issues

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

- None reported

13.0 SINGLE-SHELL TANK CLOSURE PROGRAM

Significant Past Accomplishments

ORP reported the following completed activities:

- Submitted to Ecology RPP-PLAN-64407, Waste Management Area Integration Study – Waste Management Area A-AX, Rev. 0, to meet Milestone M-045-97, “Submit to Ecology as a Primary Document, a Waste Management Area Integration Study for WMA A/AX, as described in HFFACO Appendix I.2.1.1.” RPP-PLAN-64407 was submitted to Ecology via letter 21-TF-002876, “U.S. Department of Energy Transmittal of RPP-PLAN-64407, Waste Management Area Integration Study – Waste Management Area AAX, Revision 0, to Meet Hanford Federal Facility Agreement and Consent Order Interim Milestone M-045-97,” on September 17, 2021. Ecology extended the comment period for RPP-PLAN-64407 to December 15, 2021, via letter 21-NWP-184, “Extension of the Department of Ecology’s (Ecology) Comment Review Period for Waste Management Area Integration Study – Waste Management Area A-AX, RPP-PLAN-64407, Rev. 0,” dated October 18, 2021.
- Submitted to Ecology RPP-RPT-63200, FY2020 Annual Interim Surface Barrier Monitoring Report, Rev. 0, to meet Milestone M-045-92AE, “Submit yearly reports summarizing the results of maintenance and performance monitoring activities for the previous year, and research completed to evaluate new technologies.” RPP-RPT-63200 was submitted to Ecology via letter 21-TF-002982, “U.S. Department of Energy Transmittal of RPP-RPT-63200, Fiscal Year 2020 Annual Interim Surface Barrier Monitoring Report, Rev. 0, to Meet Hanford Federal Facility Agreement and Consent Order Milestone M-045-92AE,” on September 17, 2021. Where appropriate, the report also incorporated comments Ecology provided on RPP-RPT-62684, FY2019 Annual Interim Surface Barrier Monitoring Report, Rev. 0. Ecology extended the comment period for RPP-RPT-63200 to December 1, 2021, via letter 21-NWP-186, “Extension of the Department of Ecology’s (Ecology) Comment Review Period for FY Annual Interim Surface Barrier Monitoring Report, RPP-RPT-63200, Rev. 0,” dated October 19, 2021. Ecology further extended the comment period to December 30, 2021, via letter 21-NWP205 Reissue, “Re: Additional Extension of the Department of Ecology’s Comment Review Period for the FY 2020 Annual Interim Surface Barrier Monitoring Report, RPP-RPT-63200, Rev. 0,” dated December 1, 2021.
- Submitted to Ecology the U Tank Farm interim surface barrier design and RPP-RPT-61684, Maintenance and Performance Monitoring Plan for the Interim Barriers Program, Rev. 3, to meet Milestone M-045-92Z, “Submit to Ecology Design for Barrier 4 in 241-U Farm.” Milestone M-045-92Z also requires the Maintenance and Performance Monitoring Plan be updated and revised with the submittal of each interim surface barrier design. The U Tank Farm interim surface barrier design and RPP-RPT-61684, Rev. 3, were hand-delivered to Ecology on October 5, 2021, and submitted via letter 21-TF-003496, “Completion of U Tank Farm Interim Surface Barrier Design and RPP-RPT-61684, Maintenance and Performance Monitoring Plan for the Interim Barriers Program,

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

Rev. 3 Submittal to Meet Hanford Federal Facility Agreement and Consent Order Milestone M-045-92Z," on October 26, 2021.

Significant Planned Activities

ORP reported the following planned activities:

- Resolve Ecology's comments on RPP-RPT-58858, RPP-RPT-59389, and RPP-RPT-59390
- Release updated TPA Appendix I performance assessment documents, incorporating Ecology comments as appropriate for WMA-C
- Begin construction of the U Tank Farm interim surface barrier evapotranspiration basin in support of Milestone M-045-92AB, "Complete Construction of Barrier 4 in 241-U Farm"

Issues/Other Items

- See pages 8-9 of the November 2021 ORP Consent Decree Monthly Report for a full listing.

14.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Significant Past Accomplishments

Refer to the Consent Decree portion of these meeting minutes (page 16, Section 2.0).

Significant Planned Activities in the Next Six Months

Refer to the Consent Decree portion of these meeting minutes (page 16, Section 2.0).

Issues

Refer to the Consent Decree portion of these meeting minutes (page 16, Section 2.0).

15.0 TANK OPERATIONS CONTRACT OVERVIEW

The earned value data can be viewed in the November 2021 ORP TPA Monthly Report on page 39.

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

1.0 CONSENT DECREE MILESTONES/ADMINISTRATIVE ACTIONS

Consent Decree Milestones

ORP reported milestones as On Schedule, At Risk, or Under Analysis (see pages 3-4 of the ORP November 2021 Consent Decree Monthly Report).

Consent Decree Issues and Action Items

For reference, see attached "ORP/Ecology TPA and CD Agreements, Issues and Action Items December 2021 Meeting."

Action Items

Action No. 1 (WTP-21-12-01): There was no updated provided. ORP hopes to be able to provide more information at the February 2022 ORP TPA Project Managers Meeting, pending any Congressional action/funding being released.

2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Significant Accomplishments during the Prior Month

- Completed setting of electrical rack POR580, hydraulic power units POR632, and POR636 at Tank A-101 in support of the electrical upgrades for the retrieval system
- Completed setting of electrical rack POR650 at AP01A in support of the electrical upgrades for the decant and retrieval systems

On-Going Activities

- Continued retrieval of Tank AX-103 waste. The waste volume retrieved through November was approximately 102,000 gallons of waste or 91 percent.
- Continued preparation of Tank AX-104 third retrieval technology practicability evaluation.
- Continued A Tank Farm equipment removal activities in preparation for new retrieval equipment installation.
- Continued the A Tank Farm electrical infrastructure installation.
- Continued installation of new A/AX/AY Tank Farm access control tent to mitigate COVID-19 social distancing impacts.

Significant Planned Activities in the Next Month

- Place electrical rack POR650 and hydraulic power units POR388 and POR473 at AP01A.

Issues/Other Items

- ORP referred to pages 8-9 of the November 2021 Consent Decree Monthly Report for the complete listing of issues.

3.0 TANK WASTE RETRIEVAL WORK PLAN STATUS

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

Significant Accomplishments during the Prior Month

- None reported

Significant Planned Activities in the Next Month

- Continue drafting the Tank A-101 tank waste retrieval work plan.

4.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

- ORP reported seeing less of an impact from Covid-19 protocols and staffing shortages during the reporting period. ORP also reported improved schedule performance and overall execution. ORP did note facing challenges in the commissioning phase stemming from having to test individual components as part of integrated system tests.

Project Schedule and Cost Variance Performance

- The earned value data can be viewed in the November 2021 ORP Consent Decree Monthly Report on page 17.

Issues/Other

- None reported

5.0 PRETREATMENT FACILITY

Project Schedule and Cost Variance Performance

- The earned value data can be viewed in the November 2021 ORP Consent Decree Monthly Report on page 21.

Significant Accomplishments during the Prior Month

- None reported

Ongoing Activities:

- Continue to manage suspended plant equipment purchase orders to reduce storage and suspension costs and evaluate ways to reduce procurement liability.
- Continue to implement asset maintenance at the PT Facility to protect equipment and structures and to ensure design documents are maintained.

Significant Planned Activities in the Next Month

- None reported

Issues/Other Items

- None reported

6.0 HIGH-LEVEL WASTE FACILITY

Project Schedule and Cost Variance Performance

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

The earned value data can be viewed in the November 2021 ORP Consent Decree Monthly Report on page 24.

Significant Accomplishments during the Prior Month

- None reported

Ongoing Activities:

- Continued to advance system designs and hazard analysis for key mechanical and process systems.
- Continued to upgrade melter structural design and incorporate potential design modifications.
- Continued to manage suspended plant equipment purchase orders to reduce storage and suspension costs and to evaluate ways to reduce procurement liability.
- Continued to implement asset maintenance at the HLW Facility to protect equipment and structures and to ensure design documents are maintained.

Significant Planned Activities in the Next Month

- None reported.

Issues/Other Items

- ORP reported still dealing with impacts from a funding shortfall, primarily in keeping staffing levels in line with the current funding and related delays in design and engineering reviews. Ecology asked if the funding continues at its current rate, would the schedule delay be 4-6 weeks? ORP replied it could be as much as six months. However, ORP said, if Congress appropriates a full-year continuing resolution or a full fiscal year appropriation, some of the schedule could be recovered. ORP anticipates hearing more on its funding by February 2022.

7.0 LOW-ACTIVITY WASTE FACILITY

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the November 2021 ORP Consent Decree Monthly Report on page 27.

Significant Accomplishments during the Prior Month

- Plant Management initiated portions of the water runs commissioning process to verify integrated fluid system functionality within the LAW Facility.

On-Going Activities

- Plant Management continued testing and tuning for LAW Facility lifting and handling systems
- Plant Management continued testing and tuning for LAW Facility ventilation systems

Significant Planned Activities in the Next Month

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

- None reported

Issues/Other Items

- ORP reported it forecasted the LAW water runs commissioning process to be a much shorter duration, but the process is taking much longer because of emergent issues.

8.0 BALANCE OF FACILITIES

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the November 2021 ORP Consent Decree Monthly Report on page 29.

Significant Accomplishments during the Prior Month

- None reported

On-going Activities:

- The Plant Management organization continued troubleshooting of control system software throughout BOF.
- The Plant Management organization continued testing and tuning for the Glass Former Facility.
- The Plant Management organization continued operations, testing, and tuning of the Steam Plant.

Significant Planned Activities in the Next Month

- Plant Management is expected to initiate the BOF/LAB readiness assessment.

Issues/Other Items

- Ecology asked if the loss of off-site power (LOOP) test was going to have to be re-run, in light of any findings. ORP replied that it would retest only for items needing replacement, which is part of the normal post-maintenance testing process, but that there would be no system-wide re-test. ORP committed to provide a briefing to Ecology on the full findings of the LOOP test and would include its contractor in the briefing. ***This action was captured and will appear on the February 2022 “Tri-Party Agreement Issues and Action Items”***
- ORP reported continuing issues with the Glass Former Facility achieving the right “batch” of glass formulation, and with nozzle performance in the Steam Plant.

9.0 ANALYTICAL LABORATORY

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the November 2021 ORP Consent Decree Monthly Report on page 31.

Significant Accomplishments during the Prior Month

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

- None reported.

Ongoing Activities:

- The Plant Management organization continued to focus on LAB workflow improvement.
- The Plant Management organization continued recruiting, hiring, and training personnel for LAB operations.
- The Plant Management organization continued preparation for open-source methods validation testing.

Significant Planned Activities in the Next Month

- Plant Management is expected to initiate the BOF/LAB readiness assessment.

Issues/Other Items

- None reported

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2022 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.
3. 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.

Issues:

1. Appendix H step 2b, has not been completed. USDOE have submitted Single-Shell Tank (SST) WMA (Waste Management Area)-C Closure Plans without any indication of the role and participation for Nuclear Regulatory Commission (NRC), or a plan for completing this step.
2. Appendix I – USDOE has presented an inaccurate process for closure of the Tank Farms, and of WMA-C. Appendix I has defined the expectations of the Tri-Parties, and a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) decision has not been an assumption from any of the Tri-Parties.
 - a. Appendix I, Section 3.1 states: “Ecology¹ is the lead regulatory agency responsible for the closure of the SST system. EPA² is the support regulatory agency providing oversight of the state’s authorized program.”; “The Parties’ expect that this Agreement Appendix I will incorporate Agreement Section 5.5 processes to provide a mechanism for avoiding duplicative regulation between Ecology and the EPA through the lead agency concept.”; “EPA will evaluate the need to provide additional comments based on its review of proposed modifications to WMA closure action plans, and issue additional comments to Ecology as necessary.”
 - b. Appendix I, Section 3.2 states: “A consistent groundwater monitoring, protection, and risk assessment methodology will also be realized through close integration of activities, as described in the Hanford Site Groundwater Strategy (DOE/RL-2002-59). Consistent application of the requirements of this Appendix I will serve to aid the Parties in ensuring cost effective and consistent cleanup on the Central Plateau.”
 - c. Section 5.5 of the TPA (Action Plan): “The information necessary for performing RCRA³ closures/post-closures within an operable unit will be provided in various RFI⁴/CMS⁵ documents. The initial work plan will contain a Sampling and Analysis Plan (SAP) for the

¹ Washington State Department of Ecology

² Environmental Protection Agency

³ Resource Conservation & Recovery Act

⁴ RCRA Facility Investigation

⁵ Corrective Measure Study

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2022 Meeting

associated RCRA units and it will outline the manner in which RCRA closure/post-closure plan requirements will be met in the work plan and subsequent documents. The selected closure/post-closure method and associated design details will (unless otherwise agreed to by the parties) be submitted as part of the CMS report at a later date, as specified in the work plan.” “In any case, the parties agree that CERCLA remedial actions and, as appropriate, HSWA⁶ corrective measures will comply with ARARs⁷.”

- d. Section 5.6: “The EPA and Ecology have selected a lead regulatory agency approach to minimize duplication of effort and maximize productivity. Either the EPA or Ecology will be the lead regulatory agency for each operable unit, TSD⁸ group/unit or milestone. The lead regulatory agency for a specific operable unit, TSD group/unit or milestone will be responsible for overseeing the activities covered by this action plan that relate to the successful completion of that milestone or activities at that operable unit or TSD group/unit, ensuring that all applicable requirements are met.”

12/09/21 – ORP asked Ecology to agree to removing this language and issue (brought up by Ecology at the November 2018 PMM, added to the “ORP/Ecology TPA and CD Agreements, Issues, and Action Items” in December 2018), noting that it was being discussed by the legal teams of DOE and Ecology. Ecology opposed removing the item (email from J. Lyon, ECY to B. Harkins, ORP on 12/12/21).

⁶ 1984 Hazardous and Solid Waste Amendments

⁷ Applicable or Relevant and Appropriate Requirements

⁸ Treatment, Storage, and/or Disposal

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2022 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	TF-21-02-01 11 Feb 2021	<p>Ecology requested a ‘dry run’ meeting for Informational meeting with Tribes regarding the upcoming SST/WMA-C closure RCRA permitting Actions. ORP to provide a target date for a proposed public informational workshop briefing on permitting activities 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.</p> <p>Note: ORP will have a better estimate on that date after discussions with it’s the DOE / Ecology Permitting group</p>	<p>DOE is in agreement and will plan to conduct a briefing covering the general overall closure process and Appendix I PA for WMA-C.</p> <p>The audience for the briefing will be, Tribes, Oregon, HAB, Public.</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>	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2022 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			<p>Closure Plans</p> <p>5/13/21: ORP to forward e-mails to Ecology for review about dry run concerns.</p> <p>7/8/21: ORP stated it was waiting for a proposed date for the public meeting before scheduling the dry run.</p> <p>8/12/21: ORP noted it was is 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-17, 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>		

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2022 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			<p>11/18/21: No update in status.</p> <p>12/9/21: No update in status.</p>		
2	TF-21-02-03 11 Feb 2021	<p>ORP to provide Ecology a status on when it will be submitting the remaining draft addenda (specifically Addendum L) in support of the Part V Closure Units, Single-Shell Tank System Closure Unit Group Permit modification.</p>	<p>5/13/21: Ecology has provided Addendum L to ORP for comment/response. Ecology requesting status on remaining addenda.</p> <p>ORP has provided a schedule for all the addenda, with the exception of Addendum L.</p> <p>8/12/21: ORP and have discussed criteria for Addendum L during recent SST Permit meetings, though the action remains open.</p> <p>9/9/21: No change in status.</p> <p>10/14/21: ORP offered 11/18/21 as the date for submittal of the remaining draft addenda.</p> <p>11/18/21: ORP has sent proposed dates to Ecology for its submittal of the remaining addenda (late December).</p> <p>12/9/21: ORP has sent dates to Ecology for the submittal of the Addenda, except Addendum L. ORP questioned why it was responsible for producing Addendum L. Ecology contends ORP is responsible for producing Addendum L (email from J. Lyon, ECY to B. Harkins, ORP 12/12/21).</p>	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2022 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
3	TF-21-05-02 13 May 2021	ORP to status Ecology on status of PC-5000 leak detection	<p>8/12/21: 242-A Evaporator permit condition III.4.C.1.c requires the permittees to submit a schedule for completing the permit modification and upgrades by 08/27/21. Meetings will recommence once the schedule has been submitted.</p> <p>9/9/21: Ecology received the schedule for completion of the permit modifications and is reviewing.</p> <p>10/14/21: No change in status.</p> <p>11/18/21: ORP has offered a meeting in early December to status Ecology.</p> <p>12/9/21: Ecology stated that the RCRA Permit modification had been submitted in October 2021 and the action could be closed.</p>	ORP	Closed (12/9/21)
4	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>	ORP	Open
5	TF-21-07-06	ORP and Ecology to discuss and resolve concerns to reach	9/9/21: ORP stated it is targeting 9/16/21 for providing written comments to Ecology on the	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2022 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
	27 July 2021	an agreement on completing the SST Permitting Plan.	<p>SST permitting plan comments it received from Ecology.</p> <p>10/14/21: ORP reported that comments were provided to Ecology on 9/17/21 and Ecology responses were provided on 10/13/21. Meeting is scheduled for 10/18/21 to discuss.</p> <p>11/18/21: Ecology reported a meeting was held on 10/18/21, but a subsequent meeting, scheduled for 11/1/21 was cancelled by ORP. Ecology stated it would not be open to another meeting and will be elevating this issue to its senior management.</p> <p>12/9/21: No change in status.</p>		
6	TF-21-09-01 09 Sept. 2021	ORP and Ecology to meet to discuss tank retrieval schedule for tank 241-A-103/TPA Milestone M-045-15, currently stasured as “At Risk”	<p>Per the TPA, ORP must provide a TPA Change Control Form by 07/01/22 (90 days prior to the milestone due date of 09/30/22).</p> <p>10/14/21: Ecology requested ORP status this milestone as “To Be Missed”.</p> <p>11/18/21: Ecology still awaiting ORP to schedule meeting to discuss the status of M-045-15/Tank A-103 retrieval.</p>	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2022 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			12/9/21: Ecology still awaiting ORP to schedule meeting to discuss the status of M-045-15/Tank A-103 retrieval.		
7	TF-21-11-01	Ecology requested the most recent report from the Tank Integrity Expert Panel	12/9/21: No change in status.	ORP	Open
8	TF-21-11-02	Ecology requested the latest two Double Shell Tank Integrity Reports (RPP-RPT-63314, <i>Ultrasonic Inspection and Air Slot Visual Inspection Results for Double-Shell Tank 241-AY-101 – FY 2021</i> , released 9/14/22, and RPP-RPT-61895, <i>Ultrasonic Testing Inspection and Air Slot Visual Inspection Results for Double -Shell Tank 241-AP-</i>	12/9/21: ORP is working to clear the documents and provide to Ecology.	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2022 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		<i>106 –FY2019 and FY 2021, released 9/20/21</i>			

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2022 Meeting

WTP ACTIONS

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	WTP-21-09-01	ORP to schedule a meeting with Ecology to discuss design modifications to the ventilation systems within the LAW Facility	<p>11/18/21: ORP was targeting the last week in November/first week in December 2021 for a meeting with Ecology.</p> <p>12/9/21: Meeting was held, Ecology agreed the action could be closed.</p>	Jason Young	Closed
2	WTP-21-12-01	ORP to provide a status update on projected FY22 funding of \$60M for the High-Level Waste (HLW) Facility following a congressional vote on the federal continuing resolution which expires on February 18, 2022. This action will be discussed in the March 2022 ORP TPA PMM.		Wahed Abdul	Open



THE HANFORD SITE

Office of River Protection Tri-Party Agreement

Monthly Reporting Period
November 1 – 31, 2021

Significant Past Accomplishments

- The U.S. Environmental Protection Agency (EPA), U.S. Department of Energy (DOE), and Washington State Department of Ecology (Ecology) met in the first mediated session of the “Holistic Negotiations” on June 25, 2020. One negotiation session was held in November 2021.
- On January 27, 2021, DOE submitted signed change package M-62-21-01 to Ecology for evaluation to extend the M-62-45 Milestone date 90 days, due to “Holistic Negotiations” progress. This change package was not concurred on by Ecology within the 14-day period; therefore, the change package went into dispute on February 10, 2021.

Significant Planned Actions in the Next Six Months

- Discuss disputes regarding Milestone M-062-45 and its associated milestones during “Holistic Negotiations.”
- Kick off *System Plan*, Rev. 10, scenario selection discussions in the spring of 2022.

Issues

- Ecology and DOE Office of River Protection (ORP) have ended negotiations related to the M-062-45 Milestone and have initiated dispute. “Holistic Negotiation” mediated sessions began in June 2020 to resolve these disputes.

Comments applicable to each issues section in this presentation:

- On March 24, 2020, the Hanford Site moved to an essential mission-critical operations posture in recognition of increasing Coronavirus Disease 2019 (COVID-19) concerns. During this time, the majority of the Hanford Site workforce transitioned to telework, and a limited number of workers reported to the site to perform activities necessary to maintain the site in a safe condition, protective of the community, the region, and the environment.
- On May 20, 2020, DOE authorized the Hanford Site to move to Phase 1. Hanford Site operations began Phase 1 on May 26, 2020. During Phase 1, essential mission-critical operations were continued and targeted mobilization and low-risk workscope, such as implementation of COVID-19 protocols to infrastructure and facilities, required training, medical evaluations, and limited construction activities were added.
- The Hanford Site transitioned to Phase 2 beginning August 31, 2020. In Phase 2, the workforce that has been performing portable work via telework will generally continue to telework. The majority of the workforce performing nonportable work will return to the site to progress work activities, leveraging established COVID-19 controls.
- DOE and its contractors are engaged in ongoing analysis of work schedule impacts. DOE is continuing to evaluate the information and COVID-19 potential impacts on the TPA and, if other actions may be necessary.

Significant Past Accomplishments

- None

Significant Planned Actions in the Next Six Months

- None

Significant Past Accomplishments

- None

Significant Planned Actions in the Next Six Months

- See the “System Plan” section, above, for updates related to the M-062-45 Milestone negotiations

Issues

- Ecology and ORP have ended negotiations related to the M-062-45 Milestone and have initiated dispute. “Holistic Negotiation” mediated sessions began in June 2020 to resolve these disputes

Significant Past Accomplishments

- None

Significant Planned Actions in the Next Six Months

- None

Significant Past Accomplishments

- Tank-Side Cesium Removal (TSCR) received CD-4a approval from the Energy Systems Acquisition Advisory Board on December 10, 2021.
- ORP approved the Documented Safety Analysis Addendum and Technical Safety Requirements.
- Completed the TSCR operational acceptance test.
- Received the LAW Pretreatment System RCRA permit from Ecology to support final construction activities. Submitted a follow-up RCRA permit modification to reflect changes to the facility configuration and provided requested facility documentation in preparation for facility startup.
- Completed TSCR construction.
- Completed turnover from construction to operations.

Significant Past Accomplishments (cont.)

- Washington River Protection Solutions, LLC completed the management self-assessment in mid-July.
- Completed the operational readiness checklist and turned the system over to the Operations organization.
- Completed the Tank Operations Contract readiness assessment.
- Completed the DOE readiness assessment.
- Received Ecology's approval of the TSCR RCRA permit.
- Project Management Risk Committee Endorsement of CD-4a.

Significant Planned Actions in the Next Six Months

- ORP to receive Project Management Executive approval of the Critical Decision 4a package to allow TSCR operations to commence
- Initiate TSCR operations

Significant Past Accomplishments

- The Notice of Availability of *Draft Waste Incidental to Reprocessing Evaluation for the Test Bed Initiative Demonstration, U.S. Department of Energy* (Draft WIR Evaluation) was published in the Federal Register on November 5, 2021 (see 86 FR 61200). The Draft WIR Evaluation demonstrates that the pretreated and solidified waste will be incidental to reprocessing of spent nuclear fuel, will not be high-level radioactive waste, and may be managed as low-level radioactive waste.
 - DOE is providing a minimum 90-day public comment period.
 - DOE consulted with the NRC concerning the Draft WIR Evaluation. The NRC has found the submittal to be complete and is conducting a technical review.
 - A virtual public meeting on the Draft WIR Evaluation was held by DOE and NRC on November 18, 2021.

Significant Planned Actions in the Next Six Months

- Closing of the 90-day public comment period for the Draft WIR Evaluation
- Support the NRC in technical review of the Draft WIR Evaluation and respond to any requests for additional information
- Receive an NRC technical evaluation report based on NRC technical review of the Draft WIR Evaluation

Issues

- None

Significant Past Accomplishments

- Completed replacement of the raw water strainer in the 242-A Evaporator Water Service Building
- Continued activities to replace building exhaust HEPA filters. One bank of three completed
- Completed welding all five of the secondary encasement clamshells in Phase 1 location between AW-B and AW-02A for the 242-A Evaporator slurry and feed transfer line replacement
- Completed installation of all pipe spools and all primary welds in Phase 2 location for the 242-A Evaporator slurry and feed transfer line replacement
- Completed setting in place ten pipe spools and seven primary welds in Phase 3 location for the 242-A Evaporator slurry and feed transfer line replacement

Significant Planned Actions in the Next Six Months

- Receive new PB-1 and PB-2 replacement pumps
- Complete installation of the 242-A Evaporator raw water strainer
- Continue excavation in AW Tank Farm for the 242-A Evaporator slurry and feed transfer line replacement
- Continue pipe in pipe installation in AW Tank Farm for the 242-A Evaporator slurry and feed transfer line replacement
- Calibrate instruments and initiate testing of the 242-A Evaporator Documented Safety Analysis safety system upgrades
- Initiate design for the replacement of U-Joints on the 242-A dump valves

Issues

- None

Significant Past Accomplishments

- Total fiscal year (FY) 2022 processing volume: approximately 0 million gallons
- Completed testing and turnover of the LERF Basin 44 cover replacement upgrade
- Continued testing and turnover of the ETF monitoring and control system upgrade and the ETF ultraviolet/oxidation upgrade
- Continued fieldwork activities for the LERF Basin 41 installation
- Continued fieldwork activities for the ETF Load-In Station expansion upgrade
- Continued fieldwork activities for the ETF motor control center upgrade

Significant Planned Actions in the Next Six Months

- Submit to Ecology as a primary document a combined secondary solid and liquid waste disposition workplan for target Milestones M-062-51-T01 and M-062-52-T01
- Operate ETF and process approximately 1 million gallons from LERF Basin
- Complete testing and turnover of the ETF monitoring and control system upgrade, as the previous system is outdated
- Complete testing and turnover of the ETF ultraviolet/oxidation upgrade, as the previous system is no longer supported by the manufacturer
- Complete design of ETF brine storage tanks, the acetonitrile distillate storage tanks, and the acetonitrile load out system

Significant Planned Actions (cont.)

- Complete procurements and fabrications for the ETF redundant filtration, carbon dioxide membrane, freeze protection, instrument air, vessel offgas system, Load-In Station expansion, brine and acetonitrile storage tanks, and chiller addition upgrade projects
- Continue fieldwork activities for the LERF Basin 41 installation for additional capacity
- Continue fieldwork activities for the ETF Load-In Station expansion upgrade to support enhanced facility operation
- Continue fieldwork activities for the ETF motor control center upgrade to improve electrical infrastructure for enhanced facility operation
- Begin fieldwork activities for the ETF supplemental organic treatment (i.e., steam stripping) system to provide the capability to treat the WTP DFLAW effluent

Significant Planned Actions (cont.)

- Begin fieldwork activities for the ETF redundant filtration system to reduce processing down time
- Begin fieldwork activities for the ETF carbon dioxide membrane system to provide the capability to treat the WTP DFLAW effluent
- Begin fieldwork activities for the ETF chiller addition to provide additional cooling capability for the ETF upgrade projects

LERF Volumes

Description	242AL-42 (Basin 42)	242AL-43 (Basin 43)	242AL-44 (Basin 44)
AZ-301 Condensate	-	+ 6,300	-
Mixed Waste Trench 31 and 34	-	-	+ 22,300
Other ^a	-	-	+ 2,700
Decontamination Flush ^b	+ 619,000	-	-
Inter-basin Transfer	- 610,000	-	+ 610,000
Total Volume	496,000	6,580,00	1,310,00

^a 325 Building retention process sewer and solid waste landfill lysimeter

^b Refer to Ecology letter 21-NWP-188 dated November 3, 2021

Data Date: November 31, 2021

Values shown in gallons

Significant Past Accomplishments

- Completed double-shell tank (DST) annulus visual inspection at Tanks 241-AN-106, 241-AN-105, and 241-AN-107
- Initiated ultrasonic testing inspections at Tank 241-AN-107

Significant Planned Actions in the Next Six Months

- Conduct ultrasonic testing inspections at Tanks 241-AN-101, 241-AN-107, 241-AP-105, and 241-SY-101
- Conduct DST annulus visual inspections in Tanks 241-AN-101, 241-AN-102, 241-AN-103, 241-AN-104, 241-AZ-101, and 241-AZ-102
- Complete report development for the nine double-shell tank annulus visual inspections performed in FY 2021
- Complete report development for the nine double-shell tank annulus visual inspections performed in FY 2022

Ultrasonic Testing Report Status

- None

Significant Past Accomplishments

- Completed RPP-RPT-63488, *Structural Assessment of Concrete Damage in the Hanford SX Single-Shell Tanks*, Rev. 0, in November 2021
- Completed follow-up visual and laser inspection at Tank 241-SX-111 (November 2021)

Significant Planned Actions in the Next Six Months

- Release RPP-RPT-63488, *Structural Assessment of Concrete Damage in the Hanford SX Single-Shell Tanks*, Rev. 0
- Initiate FY 2022 SST visual inspections

RPP-9937, *Single-Shell Tank System Leak Detection and Monitoring Functions and Requirements Document*, Rev. 4 Updates

- Baseline Change Authorizations implemented:
 - None
- Specification Limit Exceedance:
 - One Miscellaneous Underground Storage Tank exceeded its specification limits and is being reviewed now for justifications (41-EW-151-CT (East/West Vent Station))

Issues

- Issues available in the report

Significant Past Accomplishments

- For November 2021, the following tank sampling was conducted:
 - Completed Tank 241-AN-102 grab sampling setup and initiated sampling. Eleven samples (including one blank and one duplicate) were taken

Significant Planned Actions in the Next Six Months

- Complete FY 2021 carryover grab sampling of Tank 241-AZ-102 in December 2021
- Complete grab sampling of Tank AN-102 in December 2021
- Complete grab sampling of Tank 241-AZ-101 in March 2022
- Complete grab sampling of Tank 241-AW-105 in March 2022
- Complete core sampling of Tank 241-AW-105 in March 2022
- Complete grab sampling of Tank 241-AP-105 in May 2022
- Complete grab sampling of Tank 241-AN-107 in May 2022

Issues

- Attempts to penetrate the hard crust on the top of the waste in Tank 241-AN-102 during initial core sampling have been unsuccessful. Engineering and Operations have identified a path forward that requires a tool evaluation and the fabrication of sleeving. While the path forward is being established for Tank 241-AN-102, the team is transitioning from the core sampling at Tank 241-AN-102 to core sampling at Tank 241-AW-105.

Significant Past Accomplishments

- Best-basis inventory updates for the following tanks was completed in November 2021: Tanks 241-BX-101, 241-S-112, and 241-TX-104

Significant Planned Actions in the Next Month

- Best-basis inventory updates for the following tanks are currently planned to be completed in December 2021:
 - Tank 241-AN-106
 - Tank 241-AX-103
 - Tank 241-AZ-102
 - Tank 241-B-106
 - Tank 241-C-105
 - Tank 241-SX-108
 - Tank 241-TY-104
 - Tank 241-U-112

Significant Past Accomplishments

- Submitted to Ecology RPP-PLAN-64407, *Waste Management Area Integration Study – Waste Management Area A-AX*, Rev. 0, to meet Milestone M-045-97, “Submit to Ecology as a Primary Document, a Waste Management Area Integration Study for WMAA/AX, as described in HFFACO Appendix I.2.1.1.” RPP-PLAN-64407 was submitted to Ecology via letter 21-TF-002876, “U.S. Department of Energy Transmittal of RPPPLAN-64407, Waste Management Area Integration Study – Waste Management Area AAX, Revision 0, to Meet Hanford Federal Facility Agreement and Consent Order Interim Milestone M-045-97,” on September 17, 2021. Ecology extended the comment period for RPP-PLAN-64407 to December 15, 2021, via letter 21-NWP-184, “Extension of the Department of Ecology’s (Ecology) Comment Review Period for Waste Management Area Integration Study – Waste Management Area A-AX, RPP-PLAN-64407, Rev. 0,” dated October 18, 2021.

Significant Past Accomplishments (cont.)

- Submitted to Ecology RPP-RPT-63200, *FY2020 Annual Interim Surface Barrier Monitoring Report*, Rev. 0, to meet Milestone M-045-92AE, “Submit yearly reports summarizing the results of maintenance and performance monitoring activities for the previous year, and research completed to evaluate new technologies.” RPP-RPT-63200 was submitted to Ecology via letter 21-TF-002982, “U.S. Department of Energy Transmittal of RPP-RPT-63200, Fiscal Year 2020 Annual Interim Surface Barrier Monitoring Report, Rev. 0, to Meet Hanford Federal Facility Agreement and Consent Order Milestone M-045-92AE,” on September 17, 2021. Where appropriate, the report also incorporated comments Ecology provided on RPP-RPT-62684, *FY2019 Annual Interim Surface Barrier Monitoring Report*, Rev. 0. Ecology extended the comment period for RPP-RPT-63200 to December 1, 2021, via letter 21-NWP-186, “Extension of the Department of Ecology’s (Ecology) Comment Review Period for FY Annual Interim Surface Barrier Monitoring Report, RPP-RPT-63200, Rev. 0,” dated October 19, 2021. Ecology further extended the comment period to December 30, 2021, via letter 21-NWP205 Reissue, “Re: Additional Extension of the Department of Ecology’s Comment Review Period for the FY 2020 Annual Interim Surface Barrier Monitoring Report, RPP-RPT-63200, Rev. 0,” dated December 1, 2021.

Significant Past Accomplishments (cont.)

- Submitted to Ecology the U Tank Farm interim surface barrier design and RPP-RPT-61684, *Maintenance and Performance Monitoring Plan for the Interim Barriers Program*, Rev. 3, to meet Milestone M-045-92Z, “Submit to Ecology Design for Barrier 4 in 241-U Farm.” Milestone M-045-92Z also requires the Maintenance and Performance Monitoring Plan be updated and revised with the submittal of each interim surface barrier design. The U Tank Farm interim surface barrier design and RPP-RPT-61684, Rev. 3, were hand-delivered to Ecology on October 5, 2021, and submitted via letter 21-TF-003496, “Completion of U Tank Farm Interim Surface Barrier Design and RPP-RPT-61684, Maintenance and Performance Monitoring Plan for the Interim Barriers Program, Rev. 3 Submittal to Meet Hanford Federal Facility Agreement and Consent Order Milestone M-045-92Z,” on October 26, 2021.

Significant Planned Actions

- Resolve Ecology's comments on RPP-RPT-58858, RPP-RPT-59389, and RPP-RPT-59390
- Release updated TPA Appendix I performance assessment documents, incorporating Ecology comments as appropriate for WMA-C
- Begin construction of the U Tank Farm interim surface barrier evapotranspiration basin in support of Milestone M-045-92AB, "Complete Construction of Barrier 4 in 241-U Farm"

Issues

- Issues available in the report



THE HANFORD SITE

Office of River Protection Consent Decree Monthly Report

Monthly Reporting Period
November 1 – 31, 2021

Significant Accomplishments during the Prior Month

Completed Accomplishments:

- Completed setting of electrical rack POR580, hydraulic power units POR632, and POR636 at Tank A-101 in support of the electrical upgrades for the retrieval system
- Completed setting of electrical rack POR650 at AP01A in support of the electrical upgrades for the decant and retrieval systems

Significant Accomplishments during the Prior Month

Ongoing Activities:

- Continued retrieval of Tank AX-103 waste. The waste volume retrieved through November was approximately 102,000 gallons of waste or 91 percent.
- Continued preparation of Tank AX-104 third retrieval technology practicability evaluation.
- Continued A Tank Farm equipment removal activities in preparation for new retrieval equipment installation.
- Continued the A Tank Farm electrical infrastructure installation.
- Continued installation of new A/AX/AY Tank Farm access control tent to mitigate COVID-19 social distancing impacts.

Significant Planned Activities in the Next Month

- Place electrical rack POR650 and hydraulic power units POR388 and POR473 at AP01A.

Issues

- Issues available in the report

**Attachment to January 13, 2022 ORP TPA Project Managers Meeting: Ecology “Talking Points”
Re: Tanks 241-AY-101, 241-AP-107 and 241-AN-102**

Talking Points for PMM Meeting on Jan 13

1. AY-101 issues
 - Reviewed the AY-101 UT inspection report.
 - Identified some issues and said will ask TIEP to provide recommendations.
 - Ecology will hold off on discussing those until February PMM after hearing of changes to inspection tracking system for tank farms.
 - Status of visual inspections?
 - Visual inspections for AY-101 performed annually.
 - Last report dated December 2020 for visual inspection performed in January 2018 (~3 years old).
 - In 2021 corrosion products cleaned from AY-101 annulus.
 - Presume another visual inspection performed in 2021.
 - Rather than wait for the report, Ecology would like a briefing on the annulus cleanup and visual inspection results.

2. AP-107 intrusion
 - Sounds like liquid from snowmelt leaked in through a pit.
 - Which pit?
 - Should a pit leak detector have alarmed?
 - Something similar happened last year with AN-105.
 - What is WRPS doing to inspect weather seals on pits?

3. AN-102 core sample
 - Core sampling was prevented by crust on top of the waste.
 - Was the existence of the crust unexpected?
 - Does that mean there have been no grab samples collected from this tank for how long? Are there concerns about meeting the corrosion specs?
 - Is there any concern about the crust trapping flammable gases?
 - Was there a DQO prepared for core sampling AN-102? Did the DQO consider data needed on physical properties of the waste for meeting future processing requirements (e.g., TWCSF, and HLW-Vit particle size and hardness)?
 - Was there a follow-on SAP prepared that then specified what test methods were to be used to measure those physical properties, if it was every segment or just the bottom segment, which riser to sample and why?
 - Were any of the Ecology chemists in the loop for the DQO and SAP?
 - Can Ecology please get a copy of the DQO and SAP?

Office of River Protection
Monthly Tri-Party Agreement Project Managers Meeting
January 13, 2022

ATTENDEES

Briana Lindberg, DOE-ORP
Brian Harkins, DOE-ORP
Janet Diediker, DOE-ORP
Larry Romine, DOE-ORP
Sara Austin, DOE-ORP
Geoffrey Morse, DOE-ORP
Craig Whiteley, DOE-ORP
Jason Young, DOE-ORP
Paul Schroder, DOE-ORP
Paul Hernandez, DOE-ORP
Glyn Trenchard, DOE-ORP
Mat Irwin, DOE-ORP
Wes Boyd, DOE-ORP
Erik Nelson, DOE-ORP
Jeff Cheadle, DOE-ORP
Maria Lopez, WRPS
Holly Bowers, WRPS

Robin Varljen, WRPS
Gregory Smith, WRPS
Ryan Flynn, WRPS
Jay Warwick, WRPS
Michael Gerle, WRPS
Michael Turner, HMIS
Scott Davis, HMIS
Stephanie Brasher, HMIS
Nina Menard, Ecology
John Temple, Ecology
Dan McDonald, Ecology
Jim Alzheimer, Ecology
Andrew Pomiak, Ecology
Maria Skorska, Ecology
Steve Lowe, Ecology
Kyle Rucker, Ecology
Shelley Cimon, State of Oregon