

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

September 9, 2021

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.

RODRIGO LOBOS
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Date: 2021.09.29 16:37:39 -07'00'

Rod Lobos (for Brian Harkins), Project Manager
DOE-ORP

Date: _____

Jason Young
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Jason Young, Project Manager
DOE-ORP

Date: _____

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DOE-ORP

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Jeff Lyon, Project Manager
Washington State Department of Ecology

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McDonald, Dan (ECY)
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Dan McDonald, Project Manager
Washington State Department of Ecology

Date: _____

Temple, John (ECY)
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John Temple, 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
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 October 14, 2021, 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 July 1 – July 31, 2021, were entered into the Hanford Administrative Record on August 24, 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 3-6 of the July 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 – September 2021 Meeting."

TPA Appendices H and I Language

Ecology was asked if there was any update to the TPA Appendices H and I language at the top of the Issues and Action Items (see attached) under "Issues". The language has been included in the Issues and Actions for several years. Ecology stated it did not have any updates and wanted the language to remain.

Action No. 1 (TF-21-02-01): ORP reported that there were still issues stemming from the WMA-C Baseline Risk Assessment (BRA), and the comment resolution process. Ecology asked ORP if would be submitting a new revision to the BRA. ORP asked that Ecology and ORP discuss the comments prior to that decision. *This action remains open.*

Action No. 2 (TF-21-02-03): Ecology reported there was no change in status. *This action remains open.*

Action No. 3 (TF-21-02-06): At the 08/12/21 TPA Project Managers Meeting 8/12/21: Ecology agreed the action could be closed. *This action is closed.*

Action No. 4 (TF-21-02-08): At the 08/12/21 TPA Project Managers Meeting, Ecology and ORP agreed to close this action, though the topic is being pursued in other meetings. *This action is closed.*

Action No. 5 (TF-21-05-02): Ecology reported receiving the schedule for completing the permit modification and upgrades from WRPS and will be reviewing it. *This action remains open.*

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Action No. 6 (TF-21-06-03): Ecology acknowledged receiving RPP-TE-58709, *Technical Evaluation of the February 2021 AN-105 Annulus Liquid Intrusion* on 08/11/21 and agreed the action could be closed. *This action is closed.*

Action No. 7 (TF-21-07-02): ORP provided a briefing/update on the 242-A Evaporator upgrades at the 08/12/21 TPA Project Managers Meeting. Ecology agreed the action could be closed. *This action is closed.*

Action No. 8 (TF-21-07-03): ORP provided Ecology the schedule for grab sample results on 08/31/21. Ecology agreed the action could be closed. *This action is closed.*

Action No. 9 (TF-21-07-04): Ecology and ORP are still working to set a date for a meeting. *This action remains open.*

Action No. 10 (TF-21-07-05): Ecology and ORP have met to discuss. Ecology agreed the action could be closed. *This action is closed.*

Action No. 11 (TF-21-07-06): The parties have set a meeting for 09/16/21 to discuss Ecology's comments and concerns on the SST Permitting/Closure Plan. *This action remains open.*

Issues/New Actions:

Ecology, noting that ORP had changed the status of TPA milestone M-045-15 (Completion of Tank A-103 SST Waste Retrieval, due 9/30/22) to "At Risk" in June 2021, felt it was more appropriate to status the milestone as "To Be Missed", and as such, felt that ORP needed to develop a recovery plan. ORP noted that TPA protocol states if a milestone is at risk (or will be missed) the requirement is to submit a TPA change control form 110 days prior to the milestone due date. Ecology suggested that rather than just send the change control form to Ecology, the parties meet to discuss. ORP agreed and *took the action to meet with Ecology to discuss the status and current schedule for tank A-103 retrieval.*

2.0 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.”

Issues/Other Items

- 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.

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

Significant Past Accomplishments

- Completed M-090-14 Milestone, “Submit CD-1 for Facility to Store Spent Ion Exchange Columns Prior to DFLAW.” ORP transmitted letter 20-ECD-0050, “Submittal of CD-1 for Facility to Store Spent Ion Exchange Columns Prior to Direct Feed Low-Activity Waste Tri-Party Agreement Milestone M-090-14,” to Ecology on October 23, 2020.

Significant Planned Actions in the Next Six Months

- None reported

Issues/Other Items

- None reported

4.0 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 Negotiation” mediated sessions began in June 2020 to resolve these disputes.

Issues

- None reported

5.0 LOW ACTIVITY WASTE PRETREATMENT SYSTEM

Significant Past Accomplishments

- Completed M-062-50 Milestone, “Submit as a Secondary Document, a Mass Balance Flow.” ORP transmitted letter 20-ECD-0057, “Completion of Tri-Party Agreement Milestone M-062-50” to Ecology on December 4, 2020.

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Significant Planned Actions in the Next Six Months

- None reported

Issues/Other Items

- None reported

6.0 TANK SIDE CESIUM REMOVAL SYSTEM (TSCR)

Significant Past Accomplishments

- ORP approved the Documented Safety Analysis (DSA) addendum Technical Safety Requirements.
- Completed water run operations with the four rotating shifts.
- Completed the TSCR Operational Acceptance Test.
- Received the initial 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 backfill for SN-637/700 near ICD-30/31. Completed electrical tie-ins for the TSCR enclosures.
- Completed the TSCR shield wall installation and fencing around Ion Exchange Column storage pad.
- Completed TSCR construction.
- Washington River Protection Solutions, LLC completed the Management Self-Assessment in mid-July 2021.

Significant Planned Actions in the Next Six Months

- Complete turnover from Construction to Operations.
- Receive Ecology approval of the RCRA permit.
- Receive Ecology approval of the air operating permit.
- Approve the DSA Amendment and implement the TSCR DSA.
- Amentum will perform the Contractor Readiness Assessment in August.
- Conduct the DOE Readiness Assessment of the contractor.
- ORP to submit and receive DOE Office of Environmental Management approval of the CD-4A package to allow TSCR operations to commence.

Issues/Other Items

- None reported.

7.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments

- Completed work on the resolution of the universal joint potential inadequacy in the Safety Analysis. Universal joint testing was completed, and the vendor has incorporated the new universal joints into the calculations, engineering change notices, and drawings.

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- Completed monthly 242-A Process Crane electrical inspections.
- Completed 242-A load out room roll up door repairs and inspections.
- Completed development of the 100 percent engineering design revisions for the 242-A Evaporator DSA upgrades.
- Completed wall nozzle fabrication for the 242-A Evaporator slurry and feed transfer line replacement.
- Completed AW-02A pump pit jumper removal for the 242-A Evaporator slurry and feed transfer line replacement.
- Installed new wall nozzle in the AW-02A pit in support of the new 242-A Evaporator slurry line and feed transfer lines.
- Mobilized AW Tank Farm transfer line excavation for the 242-A Evaporator slurry and feed transfer line replacement.
- Installed new wall nozzles in the evaporator pump room to support the new 242-A Evaporator slurry and feed transfer lines.
- Removed the old 242-A Evaporator feed pump and placed into concrete box for disposal.
- Received majority of the 242-A DSA Safety System upgrades procurements.
- Initiated 242-A DSA Safety System upgrades construction phase.
- Commenced excavation between the AW-B and AW-02A pits for the 242-A Evaporator slurry and feed transfer line replacement.

Significant Planned Actions in the Next Six Months

- Procure new PB-1 and PB-2 replacement pumps.
- Receive 242-A DSA Safety System upgrades solenoid valve procurements.
- Complete 242-A DSA Safety System upgrades construction phase.
- Initiate 242-A Ventilation Control System upgrades.
- Install a new 242-A Evaporator feed pump in the AW-02E pit.
- Complete installation of the 242-A raw water strainer.
- Continue excavation in AW Tank Farm for the 242-A Evaporator slurry and feed transfer line replacement.

Issues/Other Items

- On July 1, 2021, a test gauge was lowered into the 242-A Evaporator feed pump riser in the AW-02E pit and an obstruction was encountered. On July 6, 2021, a camera was lowered into the riser and a weld bead on the riser was identified as the obstruction. Engineering has designed a tool that will be used to remove a 3/8-inch-thick weld protruding inside the AW-02E riser that is preventing the new pump from being installed. Assembly and testing of the tool was completed in late July with deployment in early August.

8.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY

Significant Past Accomplishments

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- Total fiscal year (FY) 2021 processing volume: approximately 3.2 million gallons.
- Continued LERF Basin 44 cover replacement activities and removed approximately 55,848 square feet (total area of 102,000 square feet) of existing cover.
- Completed replacement of the thin film dryer rotor assembly.
- Continued fieldwork for the ETF Monitoring and Control System (MCS) upgrade.
- Continued fieldwork for the ETF Ultraviolet/Oxidation (UV/OX) upgrade.
- Continued site mobilization of the construction subcontractor for the LERF Basin 41 installation.
- Completed conceptual design of the ETF modular grout system.
- Completed preliminary design of the ETF brine and acetonitrile distillate storage tanks.
- Completed preliminary design of the ETF carbon dioxide membrane contactors.
- Completed preliminary design of the ETF motor control center upgrade.
- Completed preliminary design of the ETF freeze protection upgrade.
- Completed preliminary design of the ETF chiller addition.
- Completed conceptual design of the ETF instrument air system.
- Began conceptual design of the ETF acetonitrile distillate load-out station.
- Completed procurements and fabrications for ETF MCS project.

Significant Planned Actions in the Next Six Months

- Complete replacement of the LERF Basin 44 cover to address the degraded condition.
- Complete the FY 2021 portion of the ETF MCS upgrade, as it is currently operating on outdated systems. This includes the ETF main treatment train, secondary treatment train, and local control units 15 and 17.
- Complete the ETF UV/OX upgrade, as the current system is no longer supported by the manufacturer.
- Complete LERF Basin 41 site preparation activities and begin construction fieldwork.
- Complete procurement and continue fabrications of the ETF supplemental organic treatment (i.e. steam stripping) system to provide the capability to treat the WTP DFLAW effluent.
- Complete design of the ETF modular grout system to provide the onsite capability to stabilize the WTP DFLAW effluent.
- Complete design of the ETF brine and acetonitrile distillate storage tanks to provide added capacity to manage the WTP DFLAW effluent.
- Complete design of the ETF carbon dioxide membrane upgrade to provide the capability to treat the WTP DFLAW effluent.
- Complete design of the ETF motor control center upgrade to address the deficient condition and provide additional capability for ongoing upgrade projects.
- Complete design of the ETF freeze protection upgrade, as systems have become degraded, and many replacement parts are considered obsolete.
- Complete design of the ETF instrument air upgrade to provide added capability to manage the WTP DFLAW effluent.
- Complete design of the ETF Chiller addition to provide added capability to manage the WTP DFLAW effluent.

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- Continue procurements and fabrications for the ETF, UV/OX, redundant filtration, carbon dioxide membrane, freeze protection, instrument air, vent off gas system, 2025ED Load-In Station expansion, and chiller addition upgrade projects.
- Initiate modification of the evaporator's boiler pressure safety valve discharge piping.
- Initiate modification of the thin film dryer room conveyor remote activation warning system.

LERF Volumes

- See pg. 23 of the July 2021 TPA Monthly Report.

Issues/Other Items

- None reported

9.0 TANK SYSTEM UPDATE

9.1 Double-Shell Tank Integrity

Significant Past Accomplishments

- Released RPP-RPT-39149, Double-Shell Tank Integrity Inspection Report for 241-SY Tank Farm, in June 2021.
- Released RPP-RPT-42147, Double-Shell Tank Integrity Inspection Report for 241-AW Tank Farm, in July 2021.
- Received and tested Southwest Research Institute Guided Wave inspection system at Pacific Northwest National Laboratory.
- Completed Tank 241-AP-103 ultrasonic testing report.
- Completed Tank 241-AZ-102 ultrasonic testing report.

Significant Planned Actions

- Complete limited ultrasonic testing inspection scans at Tank 241-AP-106.
- Draft and complete ultrasonic testing inspection reports for Tanks 241-AY-101 and 241-AP-106.
- Complete report development for the nine DST annulus visual inspections performed in FY 2021.

Ultrasonic Testing Report Status

- Tank 241-AW-106 ultrasonic testing report was released as RPP-RPT-62764, Ultrasonic Inspection and Air Slot Visual Inspection Results for Double Shell Tank 241-AW-106 FY 2020, on February 17, 2021.
- Tank 241-AW-105 ultrasonic testing report was released as RPP-RPT-62939, Ultrasonic Inspection and Air Slot Visual Inspection Results for Double Shell Tank 241-AW-105 FY 2020, on March 8, 2021.

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- Tank 241-AW-104 ultrasonic testing report was released as RPP-RPT-63014, Ultrasonic Inspection and Air Slot Visual Inspection Results for Double Shell Tank 241-AW-104 FY 2021, on May 20, 2021.
- Tank 241-AP-103 ultrasonic testing report was released as RPP-RPT-63146, Ultrasonic Inspection and Air Slot Visual Inspection Results for Double Shell Tank 241-AP-103 FY 2021, on July 20, 2021. Tank 241-AZ-102 ultrasonic testing report was released as RPP RPT 63185, Ultrasonic Inspection and Air Slot Visual Inspection Results for Double Shell Tank 241-AZ-102 FY 2021, on July 27, 2021.

Issues/Other Items

- None reported

9.2 Single-Shell Tank Integrity

Significant Past Accomplishments

- Performed TFC-ENG-CHEM-P-57, *Intrusion Notification and Tank Leak Assessment Process*, on Tank 241-TX-113.
- Visual inspections were completed for the following single-shell tanks (SSTs):
 - Tank 241-B-106 (completed November 2020);
 - Tanks 241-B-108 and 241-BY-112 (completed December 2020);
 - Tanks 241-BY-104, 241-BY-108, and 241-AX-104 (completed January 2021);
 - Tank 241-BY-103 (completed February 2021);
 - Tanks 241-U-108, 241-U-110, 241-U-112, 241-U-202, 241-U-203, and 241-U-204 (completed March 2021);
 - Tanks 241-U-201 and 241-S-112 (completed April 2021).
 - Tank 241-AX-103 (completed July 2021).
- Completed TFC-ENG-CHEM-P-57 on Tank 241-B-109.

Significant Planned Actions in the Next Six Months

- Complete report development for the SST integrity visual inspections performed in FY 2021.
- Complete development and release of final Tank 241-SX-112 Extent of Condition report.
- Perform follow-up visual and laser inspections in Tanks 241-SX-109, 241-SX-111, and 241-SX-112.

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RPP-9937 Rev. 4 Updates

- Baseline Change Authorizations implemented:
 - None
- Specification Limit Exceedance:
 - One interstitial-liquid level exceeded its upper specification limit (Tank 241-SX-111).
 - One surface level exceeded its lower specification limit (Tank 241-T-111).

Issues/Other Items

- ORP referred to pgs. 27-29 of the July 2021 Monthly TPA Report for a full listing of issues.

10.0 IN-TANK CHARACTERIZATION AND SUMMARY

10.1 Reports Completed or Released

ORP completed six reports and released one. For details, please refer to page 31 of the July 2021 TPA monthly reports.

10.2 Tank Sampling

Significant Past Accomplishments

For July 2021, the following tank sampling was conducted:

- Completed Tank 241-AN-101 core sampling on July 1, 2021. One core sample (segment 340 19-4) was received at the 222-S Laboratory.
- Completed Tank 241-AX-104 residual solid waste grab sampling. Six samples were received at the 222-S Laboratory.
- Completed Tank 241-AX-104 grab sampling.

Significant Planned Actions in the Next Six Months

- Complete Tank 241-AN-101 grab sampling in August 2021.
- Complete Tank 241-AZ-102 grab sampling in September 2021.
- Complete Tank 241-AY-102A grab sampling in September 2021.
- Complete Tank 241-AP-101 grab sampling in October 2021.

Issues/Other Items

- None reported.

10.3 Best-Basis Inventory Updates

Significant Past Accomplishments

Best-basis inventory updates for the following tanks were completed in July 2021:

- Tank 241-TX-101

Significant Planned Actions in the Next Six Months

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

- Tank 241-AP-108
- Tank 241-AZ-101
- Tank 241-BX-105

Issues

- None reported

11.0 SINGLE-SHELL TANK CLOSURE PROGRAM

Significant Past Accomplishments

ORP reported the following completed activities:

- R Responded to Ecology comments on RPP-RPT-62684 via letter 21-TF-000239, "Response to 20-NWP-199 from the Washington State Department of Ecology," dated January 20, 2021. Ecology comments had been received via letter 20-NWP-199, "Department of Ecology's (Ecology) Review Comment Record on the United States Department of Energy – Office of River Protection's FY2019 Annual Interim Surface Barrier Monitoring Report, RPP-RPT-62684, Revision 0," dated December 23, 2020.
- Submitted revisions and comment responses to Ecology for RPP-RPT-59389, Tier 2 Resource Conservation and Recovery Act (RCRA) Closure Action Plan for Waste Management Area C; RPP-RPT-59390, Tier 3 Resource Conservation and Recovery Act (RCRA) Component Closure Activity Plan for 241-C-200 Series Tanks; and RPP-RPT-58858, Tier 1 Closure Plan Single-Shell Tank System.
- Continued permitting workshops with Ecology for the SST closure plans in the Hanford Sitewide permit. The workshops are currently being conducted as teleconferences.
- Held a data quality objective meeting for defining the WMA A/AX boundary with Ecology and EPA, September 1, 2020. Held two follow-up meetings for defining the WMA A/AX boundary with Ecology on September 16 and November 3, 2020.
- Held a data quality objective sampling meeting for WMA A/AX with Ecology on September 29, 2020.
- Completed installation of change and break trailers installations, as well as construction mobilization for TX Tank Farm Barrier construction on March 11, 2021.
- Initiated subgrade modifications for TX Tank Farm Barrier construction on March 10, 2021.
- Completed southeast subgrade modifications on Tanks 241-TX-101, 241-TX-102, 241-TX-105, 241-TX-106, 241-TX-109, and 241-TX-110 for the TX Tank Farm Barrier construction on May 27, 2021.
- Continued southwest subgrade modifications on Tanks 241-TX-103, 241-TX-104, 241-TX-107, 241-TX-108, 241-TX-111, and 241-TX-112.
- Ecology approved RPP-RPT-61684, Maintenance and Performance Monitoring Plan for the Interim Barriers Program, Rev. 2, via letter 21-NWP-021, "Approval of Maintenance and Performance Monitoring Plan for the Interim Barriers Program, RPP-RPT-61684, Revision 2," on February 3, 2021.

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- Completed direct push activities for WMA A/AX Focus Area 2.
- Began direct push activities at T Tank Farm for the Tank 241-T-102 and Tank 241-T-105 investigation.
- Completed Milestone M-045-56 annual meeting on June 17, 2021. Meeting notes were approved by DOE and Ecology and are now with DOE to sign.

Significant Planned Activities

ORP reported the following planned activities:

- Resolve Ecology's comments on RPP-RPT-59389, RPP-RPT-59390, and RPP-RPT-58858.
- Release updated TPA Appendix I Performance Assessment documents, incorporating Ecology comments as appropriate for WMA-C.
- Submit WMA A/AX Integration Study 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."
- Complete southwest and north subgrade modifications for TX Tank Farm Barrier construction.
- Complete TX Tank Farm Barrier protective structure installation and initiate barrier placement for TX Tank Farm Barrier construction.

Issues/Other Items

- See pages 37-39 of the July 2021 ORP TPA Monthly Report for a full listing.

12.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Significant Past Accomplishments

Refer to the Consent Decree portion of these meeting minutes (page 17, Section 2.0).

Significant Planned Activities in the Next Six Months

Refer to the Consent Decree portion of these meeting minutes (page 17, Section 2.0).

Issues

Refer to the Consent Decree portion of these meeting minutes (page 17, Section 2.0).

12.0 TANK OPERATIONS CONTRACT OVERVIEW

The earned value data can be viewed in the July 2021 ORP TPA Monthly Report on page 21.

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 July 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 September 2021 Meeting."

Action Items

Action No. 1 (WTP-21-02-01): There was no update or change in status. *The action remains open.*

Action No. 2 (WTP-21-04-01): ORP reported having discussions with Ecology to review the Balance of Facilities daily status reports. Ecology agreed to close the action. *The action is closed.*

Action No. 3 (WTP-21-07-01): Ecology acknowledged receiving the conceptual 90% design review plan for HLW systems from ORP and agreed the action could be closed. *The action is closed.*

2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Significant Accomplishments during the Prior Month

- Completed Tank AX-103 construction installation activities

On-Going Activities

- Began preparation of the Tank AX-102 retrieval completion certification for submittal to the Washington State Department of Ecology
- Continued preparation of Tank AX-104 post first and second technology retrieval activities including preparation of a retrieval completion report for first and second technologies, post retrieval residual volume measurement system data evaluation, and post retrieval sampling
- Continued Tank AX-103 construction acceptance testing, operational readiness checklist activities, system leak tests, and calibrations
- Continued Tank A-101 equipment removal activities in preparation for new retrieval equipment installation
- Continued the A Tank Farm electrical infrastructure installation.

Significant Planned Activities in the Next Month

- Complete construction acceptance testing and operations acceptance testing in preparation for Tank AX-103 retrieval operations.

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Issues/Other Items

- ORP referred to pages 8-19 of the July 2021 Consent Decree Monthly Report for the complete listing of issues.

3.0 TANK WASTE RETRIEVAL WORK PLAN STATUS

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 provided a brief overview of the project, noting that the local region is experiencing an uptake in COVID-19 cases, and that has also affected the project somewhat, but with protective measures already in place, the project does not expect major impacts. Ecology asked if ORP knew or had forecasted any cost and schedule impacts from COVID-related impacts in both FY2020 and FY2021. ORP responded that it had received a Request for Equitable Adjustment from its contractor for FY2020 impacts and was finalizing those numbers. ORP added that it did not anticipate the FY2021 impacts to be near the FY2020 impacts, though the contractor has not submitted data for FY2021 yet. ORP added that it does not have a “days-lost” formula for the FY2021 project schedule, but again stressed that the impacts to schedule are expected to be much less than those of FY2020. Ecology asked that ORP continue to provide updates on COVID-related cost and schedule impacts. ORP agreed to do so.
- ORP also noted emerging problems as part of the transition to commissioning with certain systems, citing components needing to be replaced as an example. But ORP also stated these types of issues are to be expected during the startup testing process.
- ORP cautioned that a reported monthly positive cost variance, particularly as noted as labor underruns or project-service/labor-related, are not indicative of long-term gains or losses. Ecology acknowledged this.

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the July 2021 ORP Consent Decree Monthly Report on page 17 (June 2021 data shown).

Issues/Other

- See above

5.0 PRETREATMENT 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 July 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

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

Significant Accomplishments during the Prior Month

- Completed 90 percent design review of the HLW Facility plant cooling water system.

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

- Ecology asked that ORP periodic updates on how the Analysis of Alternative may reflect on ORP's work priorities and schedules. ORP agreed to do so.

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

- ORP reported that roughly 30 HLW staff continue to support the DFLAW effort, which is affecting HLW progress. However, ORP expects to see those staff return as the DFLAW startup effort moves to completion.

7.0 LOW-ACTIVITY WASTE FACILITY

Project Schedule and Cost Variance Performance

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

Significant Accomplishments during the Prior Month

- The Startup organization completed handover of LAW Facility plant cooling water systems to the Plant Management organization for operation.
- The Startup organization completed handover of LAW Facility melter feed process systems to the Plant Management organization for operation.

On-going Activities

- The Startup organization continued testing of LAW Facility systems including safety instrumented function tests.

Significant Planned Activities in the Next Month

- None reported

Issues/Other Items

- ORP reported the focus at LAW continues to be on the completion of individual systems testing to ensure readiness to support heat up of Melter 1.
- Ecology asked about ventilation issues, particularly with low flow being reported at C5. ORP noted they were working on two specific ventilation-related designs at LAW and took an action to meet with Ecology to discuss those ventilation designs in detail.

8.0 BALANCE OF FACILITIES

Project Schedule and Cost Variance Performance

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

Significant Accomplishments during the Prior Month

- None reported

On-going Activities:

- The Plant Management organization initiated steam system testing in the Effluent Management Facility and continued preparations for evaporator operation.
- The Plant Management organization continued testing and tuning for the Glass Former Facility.

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

- The Plant Engineering organization continued to support BOF and Effluent Management Facility system testing and tuning.
- The Plant Management organization continued operations, testing, and tuning of the Steam Plant.

Significant Planned Activities in the Next Month

- None reported

Issues/Other Items

- ORP reported a focus on fine-tuning the boiler, specifically in finding the right nozzle for fuel delivery, noting that it has been testing several nozzles.
- ORP also stated a key focus is on glass-forming and testing different agents and silica.
- ORP reported that startup testing has been declared complete for the effluent management facility, however, there are still areas that need additional testing.
- Ecology asked if ORP had considered a smaller boiler, rather than continuing to find the right output using different nozzles. ORP replied that it had not yet considered that but has not completely ruled it out, and that it is considering several options.
- The State of Oregon asked ORP what its main area of concern was at BOF. ORP replied that it was the control system at the Effluent Management Facility. ORP noted that EMF is a large facility with numerous components that must act in concert with each other, so the emphasis has been on fine-tuning that system and its components.

9.0 ANALYTICAL LABORATORY

Project Schedule and Cost Variance Performance

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

Significant Accomplishments during the Prior Month

- None reported.

Ongoing Activities:

- The Plant Management organization continued to support testing of the LAW Facility autosampling system.
- The Plant Management organization continued to focus on LAB workflow improvement.
- The Plant Management organization continued recruiting, hiring, and training personnel for LAB operations.

Significant Planned Activities in the Next Month

- None reported

Issues/Other Items

- ORP reported it is focusing on hiring staff, staff training, staff familiarization with processes, and re-evaluation of hood layouts at the Analytical Laboratory.

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – September 2021 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 – September 2021 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.”

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 – September 2021 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 – September 2021 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>		
2	TF-21-02-03 11 Feb 2021	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>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>	ORP	Open
3	TF-21-02-06 11 Feb 2021	Ecology would like to expand the length of the Monthly ORP TPA Project Managers Meeting to include	ORP suggested holding separate meetings outside the PMM to allow for more lengthy discussion, thus allowing the ORP Project Managers Meeting to remain focused on	ORP	Closed

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – September 2021 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		<p>more on-the-record discussion. Note ORP TPA PMM meeting minutes are signed by the parties, unlike other meetings</p>	<p>accomplishments and projected activities. Ecology asked DOE to provide its stance in writing.</p> <p>6/10/21: Ecology noted constructive meetings have been held with ORP outside of the PMM.</p> <p>7/8/21: ORP awaiting Ecology’s agreement to close this action.</p> <p>8/12/21: Ecology agreed the action could be closed.</p>		
4	TF-21-02-08 11 Feb 2021	<p>Ecology offered draft TPA Change Control Forms to</p> <p>a) require Ground Water Monitoring Plans (GWMP’s) for all of the Waste Management Areas (WMAs) in the Single Shell Tank (SST) System, for incorporation into the Rev 8C Site-wide permit and,</p> <p>b) Deletion of milestone M-045-62 for submittal of a Tier 3 closure plan to implement the Phase 2 Corrective Measures Implementation Work Plan (CMIP). Ecology would like to discuss this further at the applicable TPA Project Managers Meeting.</p>	<p>Jeff Lyon email (for reference): “USDOE’s request to meet on the GWMP’s. I have provided dates through May 13 for a meeting. For GWMP’s, as with the WMA–C closure milestones, these milestones are necessary as a compliance schedule. A compliance schedule (the TPA Milestones) are needed if USDOE cannot provide permit material that meets our minimum regulatory requirements for a permit modification. I hope that USDOE will be providing alternative dates and a justification for those alternate dates in our meeting. We also are anticipating an update on how ORP is coordinating the development of milestones for M-045 with the Richland Office, to address the GWMP’s and to assure that ORP can provide a complete permit modification request. If USDOE needs assistance in understanding our regulatory requirements, please provide your</p>	Ecology	Closed

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – September 2021 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			<p>questions in advance, so that we can provide a response.</p> <p>(2) USDOE referred to a “76 page document”. Based on our research of this, the “76-page document” is the Ecology resolutions agreed to with EPA in regards to their comments on the Draft Rev 9 permit. Please refer to comments, 23, 42, and 43 for information that address concerns regarding Corrective Measures. Ecology may have incorrectly identified the Soil Evaluation as Addenda J and it actually Addenda L. If USDOE needs any additional information please let us know. Ecology has determined that any proposed actions that resulted from the Corrective Action “process”, will be part of the conditions in the site wide permit modification for the SST System Closure Unit Group, for a specific WMA, and in this case WMA-C. Ecology has requested information from USDOE in the permitting workshops so that we can complete the Addenda L, Soil Evaluation. We are still waiting for that information.”</p> <p>6/10/21: Ecology and DOE-RL are meeting to work out a schedule to get the groundwater monitoring plans completed in lieu of new TPA milestones.</p> <p>7/7/21: Meeting held between Ecology and DOE. Discussions still ongoing.</p>		

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – September 2021 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			On 8/12/21, Ecology and ORP agreed to close this action, though it is being pursued in other meetings.		
5	TF-21-05-02 13 May 2021	ORP to status Ecology on status of PC-5000 leak detection	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	ORP	Open
6	TF-21-06-03 10 June 2021	Ecology requests a copy of RPP-TE-58709, <i>Technical Evaluation of the February 2021 AN-105 Annulus Liquid Intrusion</i>		ORP	Open
7	TF-21-07-02 8 July 2021	ORP to brief Ecology on DSA upgrades at 242-A Evaporator (requested by A. Pomiak)	Briefing was given at the 08/12/21 ORP PMM by P. Hernandez, ORP.	ORP	Closed
8	TF-21-07-03 8 July 2021	ORP to provide Ecology when the core and grab samples will be analyzed and when results are expected (requested by J. Lyon)	Specific tanks mentioned in the July 2021 ORP PMM: Complete Tank 241-AX-104 grab sampling in June 2021. Continue Tank 241-AN-101 core sampling in June 2021.	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – September 2021 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			<p>Complete Tank 241-AN-101 core sampling in July 2021.</p> <p>Complete Tank 241-AN-101 grab sampling in July 2021.</p> <p>Complete Tank 241-AZ-102 grab sampling in August 2021.</p> <p>Complete Tank 241-AY-102A grab sampling in September 2021.</p> <p>Complete Tank 241-AP-101 grab sampling in November 2021.</p>		
9	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)	Parties have agreed to meet. ORP to provide meeting times to ECY.	ORP	Open
10	TF-21-07-05 20 July 2021	<p><u>241-AY-102 Closure Extension Request</u></p> <p>References: 21-NWP-070 (04/30/21); 21-NWP-081 (06/01/21)</p>	<p>Ecology would like to meet with ORP to discuss the extension to closure of DST 241-AY-102. Ecology wanted it noted that it had agreed to move this meeting beyond the 90-day period mentioned in 21-NWP-070.</p> <p>08/12/21: Ecology acknowledged that a meeting was held and that the action could be closed.</p>	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – September 2021 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
11	TF-21-07-06 27 July 2021	ORP and Ecology to discuss and resolve concerns to reach an agreement on completing the SST Permit.	08/12/21: Meeting scheduled for 08/16/21.	ORP	Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – September 2021 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	WTP-21-02-01	ECY to setup walkdown for LAW verification		Jay Decker	Open
2	WTP-21-04-01	ORP to setup a meeting with Ecology to go over the BOF daily status reports to provide more details		Jason Young	Closed
3	WTP-21-07-01 7-8-21	ORP to provide Ecology conceptual look at 90% design review plan for HLW systems.		Wahed Abdul	Closed



THE HANFORD SITE

Office of River Protection Tri-Party Agreement

Monthly Reporting Period
July 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. There were weekly negotiation sessions were suspended in July 2021 due to key participants being unavailable.
- 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.”

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

- Completed M-090-14 Milestone, “Submit CD-1 for Facility to Store Spent Ion Exchange Columns Prior to DFLAW7.” ORP transmitted letter 20-ECD-0050, “Submittal of CD-1 for Facility to Store Spent Ion Exchange Columns Prior to Direct Feed Low-Activity Waste Tri-Party Agreement Milestone M-090-14,” on October 23, 2020, to Ecology.

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

- Completed M-062-50 Milestone, “Submit to Ecology as a Secondary Document, a Mass Balance Flow.” ORP transmitted letter 20-ECD-0057, “Completion of Tri-Party Agreement Milestone M-062-50,” on December 4, 2020, to Ecology.

Significant Past Accomplishments

- ORP approved the Documented Safety Analysis (DSA) addendum Technical Safety Requirements.
- Completed water run operations with the four rotating shifts.
- Completed the TSCR Operational Acceptance Test.
- Received the initial 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 backfill for SN-637/700 near ICD-30/31. Completed electrical tie-ins for the TSCR enclosures.
- Completed the TSCR shield wall installation and fencing around Ion Exchange Column storage pad.
- Completed TSCR construction.
- Washington River Protection Solutions, LLC completed the Management Self-Assessment in mid-July.

Significant Planned Actions in the Next Six Months

- Turnover from Construction to Operations.
- Receive Ecology approval of the RCRA permit.
- Receive Ecology approval of the air operating permit.
- Approve the DSA Amendment and implement the TSCR DSA.
- Amentum will perform the Contractor Readiness Assessment in August.
- Conduct the DOE Readiness Assessment of the contractor.
- ORP to submit and receive DOE Office of Environmental Management approval of the CD-4A package to allow TSCR operations to commence

Significant Past Accomplishments

- Completed work on the resolution of the universal joint potential inadequacy in the Safety Analysis. Universal joint testing was completed, and the vendor has incorporated the new universal joints into the calculations, engineering change notices, and drawings.
- Initiated replacement of the Raw Water Strainer in the 242-A Water Service Building.
- Completed development of the 100 percent engineering design revisions for the 242-A Evaporator DSA upgrades.
- Completed wall nozzle fabrication for the 242-A Evaporator slurry and feed transfer line replacement.
- Completed AW-02A pump pit jumper removal for the 242-A Evaporator slurry and feed transfer line replacement.
- Installed new wall nozzle in the AW-02A pit in support of the new 242-A Evaporator slurry line and feed transfer lines.
- Mobilized AW Tank Farm transfer line excavation for the 242-A Evaporator slurry and feed transfer line replacement.

Significant Past Accomplishments (cont.)

- Installed new wall nozzles in the evaporator pump room to support the new 242-A Evaporator slurry and feed transfer lines.
- Removed the old 242-A Evaporator feed pump and placed into concrete box for disposal.
- Received majority of the 242-A DSA Safety System upgrades procurements.
- Initiated 242-A DSA Safety System upgrades construction phase.
- Commenced excavation between the AW-B and AW-02A pits for the 242-A Evaporator slurry and feed transfer line replacement

Significant Planned Actions in the Next Six Months

- Procure new PB-1 and PB-2 replacement pumps.
- Receive 242-A DSA Safety System upgrades solenoid valve procurements.
- Complete 242-A DSA Safety System upgrades construction phase.
- Initiate 242-A Ventilation Control System upgrades.
- Install a new 242-A Evaporator feed pump in the AW-02E pit.
- Complete installation of the 242-A raw water strainer.
- Continue excavation in AW Tank Farm for the 242-A Evaporator slurry and feed transfer line replacement.

Issues

- On July 1, 2021, a test gauge was lowered into the 242-A Evaporator feed pump riser in the AW-02E pit and an obstruction was encountered. On July 6, 2021, a camera was lowered into the riser and a weld bead on the riser was identified as the obstruction. Engineering has designed a tool that will be used to remove a 3/8-inch-thick weld protruding inside the AW-02E riser that is preventing the new pump from being installed. Assembly and testing of the tool was completed in late July with deployment in early August.

Significant Past Accomplishments

- Total fiscal year (FY) 2021 processing volume: approximately 3.2 million gallons.
- Continued LERF Basin 44 cover replacement activities and removed approximately 55,848 square feet (total area of 102,000 square feet) of existing cover.
- Completed replacement of the thin film dryer rotor assembly.
- Continued fieldwork for the ETF Monitoring and Control System (MCS) upgrade.
- Continued fieldwork for the ETF Ultraviolet/Oxidation (UV/OX) upgrade.
- Continued site mobilization of the construction subcontractor for the LERF Basin 41 installation.
- Completed conceptual design of the ETF modular grout system.
- Completed preliminary design of the ETF brine and acetonitrile distillate storage tanks.

Significant Past Accomplishments (cont.)

- Completed preliminary design of the ETF carbon dioxide membrane contactors.
- Completed preliminary design of the ETF motor control center upgrade.
- Completed preliminary design of the ETF freeze protection upgrade.
- Completed preliminary design of the ETF chiller addition.
- Completed conceptual design of the ETF instrument air system.
- Began conceptual design of the ETF acetonitrile distillate load-out station.
- Completed procurements and fabrications for ETF MCS project.

Significant Planned Actions

- Complete replacement of the LERF Basin 44 cover to address the degraded condition.
- Complete the FY 2021 portion of the ETF MCS upgrade, as it is currently operating on outdated systems. This includes the ETF main treatment train, secondary treatment train, and local control units 15 and 17.
- Complete the ETF UV/OX upgrade, as the current system is no longer supported by the manufacturer.
- Complete LERF Basin 41 site preparation activities and begin construction fieldwork.
- Complete procurement and continue fabrications of the ETF supplemental organic treatment (i.e. steam stripping) system to provide the capability to treat the WTP DFLAW effluent.
- Complete design of the ETF modular grout system to provide the onsite capability to stabilize the WTP DFLAW effluent.
- Complete design of the ETF brine and acetonitrile distillate storage tanks to provide added capacity to manage the WTP DFLAW effluent.

Significant Planned Actions (cont.)

- Complete design of the ETF carbon dioxide membrane upgrade to provide the capability to treat the WTP DFLAW effluent.
- Complete design of the ETF motor control center upgrade to address the deficient condition and provide additional capability for ongoing upgrade projects.
- Complete design of the ETF freeze protection upgrade, as systems have become degraded and many replacement parts are considered obsolete.
- Complete design of the ETF instrument air upgrade to provide added capability to manage the WTP DFLAW effluent.
- Complete design of the ETF Chiller addition to provide added capability to manage the WTP DFLAW effluent.
- Continue procurements and fabrications for the ETF, UV/OX, redundant filtration, carbon dioxide membrane, freeze protection, instrument air, vent off gas system, 2025ED Load-In Station expansion, and chiller addition upgrade projects.

Significant Planned Actions (cont.)

- Initiate modification of the evaporator's boiler pressure safety valve discharge piping.
- Initiate modification of the thin film dryer room conveyor remote activation warning system

LERF Volumes

Description	242AL-42 (Basin 42)	242AL-43 (Basin 43)	242AL-44 ^b (Basin 44)
AZ-301 Condensate	-	-	-
Mixed Waste Trench 31 and 34	+ 23,300	-	-
Other ^a	-	-	-
Total Volume	1,230,000 ^c	6,550,000 ^c	0 ^d

^a 325 Building Retention Process Sewer

^b LERF Basin 44 was placed out-of-service on January 14, 2021.

^c LERF level instrumentation is out-of-service for project upgrades. Basin 42 and Basin 43 levels are approximate based on visual inspection of liquid level.

^d LERF Basin 44 was emptied to allow for cover replacement.

Data Date: July 29, 2021.

Values shown in gallons.

Significant Past Accomplishments

- Released RPP-RPT-39149, *Double-Shell Tank Integrity Inspection Report for 241-SY Tank Farm*, in June 2021.
- Released RPP-RPT-42147, *Double-Shell Tank Integrity Inspection Report for 241-AW Tank Farm*, in July 2021.
- Received and tested Southwest Research Institute Guided Wave inspection system at Pacific Northwest National Laboratory.
- Completed Tank 241-AP-103 ultrasonic testing report.
- Completed Tank 241-AZ-102 ultrasonic testing report.

Significant Planned Actions

- Complete limited ultrasonic testing inspection scans at Tank 241-AP-106.
- Draft and complete ultrasonic testing inspection reports for Tanks 241-AY-101 and 241-AP-106.
- Complete report development for the nine DST annulus visual inspections performed in FY 2021.

Ultrasonic Testing Report Status

- Tank 241-AW-106 ultrasonic testing report was released as RPP-RPT-62764, *Ultrasonic Inspection and Air Slot Visual Inspection Results for Double Shell Tank 241-AW-106 FY 2020*, on February 17, 2021.
- Tank 241-AW-105 ultrasonic testing report was released as RPP-RPT-62939, *Ultrasonic Inspection and Air Slot Visual Inspection Results for Double Shell Tank 241-AW-105 FY 2020*, on March 8, 2021.
- Tank 241-AW-104 ultrasonic testing report was released as RPP-RPT-63014, *Ultrasonic Inspection and Air Slot Visual Inspection Results for Double Shell Tank 241-AW-104 FY 2021*, on May 20, 2021.
- Tank 241-AP-103 ultrasonic testing report was released as RPP-RPT-63146, *Ultrasonic Inspection and Air Slot Visual Inspection Results for Double Shell Tank 241-AP-103 FY 2021*, on July 20, 2021. Tank 241-AZ-102 ultrasonic testing report was released as RPP RPT 63185, *Ultrasonic Inspection and Air Slot Visual Inspection Results for Double Shell Tank 241-AZ-102 FY 2021*, on July 27, 2021.

Significant Past Accomplishments

- Performed TFC-ENG-CHEM-P-57, *Intrusion Notification and Tank Leak Assessment Process*, on Tank 241-TX-113.
- Visual inspections were completed for the following single-shell tanks (SSTs):
 - Tank 241-B-106 (completed November 2020);
 - Tanks 241-B-108 and 241-BY-112 (completed December 2020);
 - Tanks 241-BY-104, 241-BY-108, and 241-AX-104 (completed January 2021);
 - Tank 241-BY-103 (completed February 2021);
 - Tanks 241-U-108, 241-U-110, 241-U-112, 241-U-202, 241-U-203, and 241-U-204 (completed March 2021);
 - Tanks 241-U-201 and 241-S-112 (completed April 2021).
 - Tank 241-AX-103 (completed July 2021).
- Completed TFC-ENG-CHEM-P-57 on Tank 241-B-109.

Significant Planned Actions

- Complete report development for the SST integrity visual inspections performed in FY 2021.
- Complete development and release of final Tank 241-SX-112 Extent of Condition report.
- Perform follow-up visual and laser inspections in Tanks 241-SX-109, 241-SX-111, and 241-SX-112.

RPP-9937 Rev. 4 Updates

- Baseline Change Authorizations implemented:
 - None.
- Specification Limit Exceedance:
 - One interstitial-liquid level exceeded its upper specification limit (Tank 241-SX-111).
 - One surface level exceeded its lower specification limit (Tank 241-T-111).

Issues

- Issues available in the report

Significant Past Accomplishments

- For July 2021, the following tank sampling was conducted:
 - Completed Tank 241-AN-101 core sampling on July 1, 2021. One core sample (segment 340 19-4) was received at the 222-S Laboratory.
 - Completed Tank 241-AX-104 residual solid waste grab sampling. Six samples were received at the 222-S Laboratory.
 - Completed Tank 241-AX-104 grab sampling.

Significant Planned Actions

- Complete Tank 241-AN-101 grab sampling in August 2021.
- Complete Tank 241-AZ-102 grab sampling in September 2021.
- Complete Tank 241-AY-102A grab sampling in September 2021.
- Complete Tank 241-AP-101 grab sampling in October 2021.

Significant Past Accomplishments

- Best-basis inventory updates for the following tank was completed in July 2021: Tank 241-TX-101

Significant Planned Actions

- Best-basis inventory updates for the following tanks are currently planned to be completed in August 2021:
 - Tank 241-AP-108.
 - Tank 241-AZ-101.
 - Tank 241-BX-105.

Significant Past Accomplishments

- Responded to Ecology comments on RPP-RPT-62684 via letter 21-TF-000239, “Response to 20-NWP-199 from the Washington State Department of Ecology,” dated January 20, 2021. Ecology comments had been received via letter 20-NWP-199, “Department of Ecology’s (Ecology) Review Comment Record on the United States Department of Energy – Office of River Protection’s FY2019 Annual Interim Surface Barrier Monitoring Report, RPP-RPT-62684, Revision 0,” dated December 23, 2020.
- Submitted revisions and comment responses to Ecology for RPP-RPT-59389, *Tier 2 Resource Conservation and Recovery Act (RCRA) Closure Action Plan for Waste Management Area C*; RPP-RPT-59390, *Tier 3 Resource Conservation and Recovery Act (RCRA) Component Closure Activity Plan for 241-C-200 Series Tanks*; and RPP-RPT-58858, *Tier 1 Closure Plan Single-Shell Tank System*.
- Continued permitting workshops with Ecology for the SST closure plans in the Hanford Sitewide permit. The workshops are currently being conducted as teleconferences.

Significant Past Accomplishments (cont.)

- Held a data quality objective meeting for defining the WMA A/AX boundary with Ecology and EPA, September 1, 2020. Held two follow-up meetings for defining the WMA A/AX boundary with Ecology on September 16 and November 3, 2020.
- Held a data quality objective sampling meeting for WMA A/AX with Ecology on September 29, 2020.
- Completed installation of change and break trailers installations, as well as construction mobilization for TX Tank Farm Barrier construction on March 11, 2021.
- Initiated subgrade modifications for TX Tank Farm Barrier construction on March 10, 2021.
- Completed southeast subgrade modifications on Tanks 241-TX-101, 241-TX-102, 241-TX-105, 241-TX-106, 241-TX-109, and 241-TX-110 for the TX Tank Farm Barrier construction on May 27, 2021.

Significant Past Accomplishments (cont.)

- Continued southwest subgrade modifications on Tanks 241-TX-103, 241-TX-104, 241-TX-107, 241-TX-108, 241-TX-111, and 241-TX-112.
- Ecology approved RPP-RPT-61684, *Maintenance and Performance Monitoring Plan for the Interim Barriers Program*, Rev. 2, via letter 21-NWP-021, “Approval of *Maintenance and Performance Monitoring Plan for the Interim Barriers Program*, RPP-RPT-61684, Revision 2,” on February 3, 2021.
- Completed direct push activities for WMAA/AX Focus Area 2.
- Began direct push activities at T Tank Farm for the Tank 241-T-102 and Tank 241-T-105 investigation.
- Completed Milestone M-045-56 annual meeting on June 17, 2021. Meeting notes were approved by DOE and Ecology and are now with DOE to sign.

Significant Planned Actions

- Resolve Ecology's comments on RPP-RPT-59389, RPP-RPT-59390, and RPP-RPT-58858.
- Release updated TPA Appendix I Performance Assessment documents, incorporating Ecology comments as appropriate for WMA-C.
- Submit WMAA/AX Integration Study 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."
- Complete southwest and north subgrade modifications for TX Tank Farm Barrier construction.
- Complete TX Tank Farm Barrier protective structure installation and initiate barrier placement for TX Tank Farm Barrier construction.

Issues

- Issues available in the report.



THE HANFORD SITE

Office of River Protection Consent Decree Monthly Report

Monthly Reporting Period
July 1 – 31, 2021

Significant Accomplishments during the Prior Month

Completed Accomplishments:

- Completed Tank AX-103 construction installation activities

Significant Accomplishments during the Prior Month

Ongoing Activities:

- Began preparation of the Tank AX-102 retrieval completion certification for submittal to the Washington State Department of Ecology
- Continued preparation of Tank AX-104 post first and second technology retrieval activities including preparation of a retrieval completion report for first and second technologies, post retrieval residual volume measurement system data evaluation, and post retrieval sampling
- Continued Tank AX-103 construction acceptance testing, operational readiness checklist activities, system leak tests, and calibrations
- Continued Tank A-101 equipment removal activities in preparation for new retrieval equipment installation
- Continued the A Tank Farm electrical infrastructure installation

Significant Planned Activities in the Next Month

- Complete construction acceptance testing, operations acceptance testing, and the readiness assessment to begin Tank AX-103 retrieval operations

Issues

- Issues available in the report

Office of River Protection
Monthly Tri-Party Agreement Project Managers Meeting
September 9, 2021

ATTENDEES

Wahed Abdul, DOE-ORP
Briana Lindberg, DOE-ORP
Rod Lobos, DOE-ORP
Erik Nelson, DOE-ORP
Larry Romine, DOE-ORP
Jason Young, DOE-ORP
Bibek Tamang, DOE-ORP
Mat Irwin, DOE-ORP
Rana Evans, DOE-ORP
Becky Blackwell, DOE-ORP
Glyn Trenchard, DOE-ORP
Rana Evans, DOE-ORP
Geoffrey Morse, DOE-ORP
Janet Diediker, DOE-ORP
Ricky Bang, DOE-ORP
Maria Lopez, WRPS

Dan Parker, WRPS
Ryan Flynn, WRPS
Eric Van Mason, HLMI
Stephanie Brasher, HMIS
Michael Turner, HMIS
Deirdra Hahn, Ecology
Dan McDonald, Ecology
Jeff Lyon, Ecology
Maria Skorska, Ecology
Jim Alzheimer, Ecology
Kyle Rucker, Ecology
Andrew Pomiak, Ecology
John Temple, Ecology
Nina Menard, Ecology
Shelley Cimon, State of Oregon