

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

January 14, 2021

Meeting held virtually, via MS TEAMS

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CONCURRENCE SIGNATURES

The undersigned TPA Project Managers (or their delegates) indicate by their signatures that these meeting minutes reflect the actual occurrences of the above-dated Tri-Party Agreement Project Managers' Meeting.

Brian A.
Harkins

Digitally signed by Brian A.
Harkins
Date: 2021.02.18 10:54:10
-08'00'

Brian Harkins, Project Manager
DOE-ORP

Date: _____

Jason Young

Digitally signed by Jason
Young
Date: 2021.02.18 10:57:24
-08'00'

Jason Young, Project Manager
DOE-ORP

Date: _____

(Not in attendance)

Wahed Abdul, Project Manager
DOE-ORP

Date: _____

(Not in attendance)

Jeff Lyon, Project Manager
Washington State Department of Ecology

Date: _____



Digitally signed by Decker, Jay
(ECY)
Date: 2021.02.18 12:33:03 -08'00'

Jay Decker for,
Dan McDonald, Project Manager
Washington State Department of Ecology

Date: _____



Digitally signed by Temple,
John (ECY)
Date: 2021.02.18 11:18:22
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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-3B	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
EM-1	DOE Office of Environmental Management, Assistant Secretary
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
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-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 11, 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 November 1 - November 30, 2020, were entered into the Hanford Administrative Record on December 21, 2020 and December 28, 2020, respectively.

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 November 2020 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 2021 Meeting."

Action No. 1 (TF-20-01-03): There was no status update/change. *This action remains open.*

Action No. 2 (TF-20-10-01): There was no status update/change. *This action remains open.*

Action No. 3 (TF-20-10-03): There was no status update/change. *This action remains open.*

Action No. 4 (TF-20-11-01): ORP reported it had sent Ecology (J. Lyon) an email on 12/10/20 to help define this action and the criteria for closing. *This action remains open.*

Action No. 5 (20-11-02): There was no status update/change. *This action remains open.*

Action No. 6 (TF-20-11-03): ORP provided information at the 12/10/20 ORP PMM. Ecology agreed item could be closed, but would like to get an update later in the year (2021). *The action was closed.*

Action No. 7 (TF-20-11-04): This action was mutually closed by the parties at the 12/10/20 ORP PMM.

Action No. 8 (TF- 20-12-01): There was no status update/change. *This action remains open.*

Action No. 9 (TF-20-12-02): There was no status update/change. *This action remains open.*

Action No. 10 (20-12-03): There was no status update/change. *This action remains open.*

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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. The November negotiation session was cancelled by DOE.
- On November 13, 2020, DOE transmitted the final River Protection Project System Plan, Rev. 9, to Ecology per letter 20-ORP-0016, “Transmittal of the River Protection Project System Plan, Revision 9.”

Significant Planned Actions in the Next Six Months

- 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,” on October 23, 2020, to Ecology.

Significant Planned Actions in the Next Six Months

- Refer to “System Plan” (Section 2.0), Significant Planned Actions

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

4.0 TANK-SIDE CESIUM REMOVAL SYSTEM

Significant Past Accomplishments

- Completed Tank AP-107 conduit run.
- Completed Tank-Side Cesium Removal (TSCR) wiring tie-ins and piping insulation to prepare for power-up.

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- Completed ultrasonic testing of primary piping welds for SN-637 and SN-700 routing between W-211 portions of piping and ICD-30/31.
- Placed the first six SN-637 transfer line spools into the trench at AP Tank Farm, routing between the AP-06A pit to outside the tank farm fence.

Significant Planned Actions in the Next Six Months

- ORP will review the Documented Safety Analysis (DSA) addendum, Technical Safety Requirements, and TSCR Readiness Plan of Action for approval.
- Receive the Resource Conservation and Recovery Act (RCRA) Permit from Ecology.
- Complete TSCR construction activities and commence readiness activities.

Issues/Other Items

- None

5.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments

ORP reported it had:

- Completed replacement of the 242-A Failed Sock Filter assembly.
- Completed 100 percent design for the 242-A Evaporator transfer line replacement.
- Continued wall nozzle fabrication for the 242-A Evaporator slurry and feed transfer line replacement.
- Completed actuator fabrication and functional testing.
- 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.
- Completed work on the resolution of the buried pipe potential inadequacy in the safety analysis. The calculations for Nuclear Safety to perform the safety basis amendment were completed.
- Completed development of the 100 percent engineering design for the 242-A Evaporator DSA upgrades.
- 242-A Evaporator DSA upgrades hardware and software procurement initiated.
- Completed AW-B pit work and excavation for wall nozzle installation in support of 242-A Evaporator transfer line replacement.
- Installed new wall nozzle in the AW-B pit in support of the new 242-A Evaporator slurry line and feed transfer lines.
- Completed 242-A K1 Ventilation Continuous Air Monitor calibration and functional test.
- Completed 242-A overhead crane preventive maintenance to support slurry line replacement.
- Completed replacement of the third, and final, set of pre-filters on the building exhaust plenums.

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Significant Planned Actions in the Next Six Months

- Procure new PB-1 and PB-2 replacement pumps.
- Initiate DSA safety system upgrades construction phase.
- Complete wall nozzle fabrication for the 242-A Evaporator slurry and feed transfer line replacement.
- Initiate 242-A Ventilation Control System upgrades.
- Install new wall nozzles in the AW-02E, and AW-02A pits in support of the new 242-A Evaporator slurry line and feed transfer lines.

Issues/Other Items

- Initial testing revealed an issue with the original universal joints on the actuators used to drive the tank farm double isolation valves. A potential inadequacy in the safety analysis was written. Testing of different universal joints has now been completed, and the vendor has incorporated the new universal joints into the calculations, engineering change notices, and drawings.
- Following universal joint determination, 92 universal joints/actuators will need to be replaced. Project team and facility operations personnel are initiating phased planning of replacement to support tank transfer operations.

6.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY

Significant Past Accomplishments

ETF:

- Total fiscal year (FY) 2021 processing volume: approximately 1.63 million gallons.
- Began final design for the ETF supplemental organic treatment system (i.e., acetonitrile treatment).
- Began conceptual design of the ETF modular grout system.
- Began conceptual design of the ETF brine storage tanks.
- Completed conceptual design of the ETF carbon dioxide membrane contactors.
- Began conceptual design of the ETF motor control center upgrade.
- Completed conceptual design of the ETF freeze protection upgrade.

LERF Basin 41:

- Nothing reported

Significant Planned Actions in the Next Six Months

ETF:

- Complete waste processing operations to reduce LERF Basin 42 to minimum liquid level.
- Complete design of the ETF supplemental organic treatment system (i.e., steam stripper) 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 storage tanks to provide the capacity to manage the WTP DFLAW effluent.

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- Complete design of the ETF carbon dioxide membrane contactors 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.
- Receive material procurements for the ETF Monitoring and Control System, Ultraviolet/Oxidation, Redundant Filtration, and Vessel Off-gas system upgrade projects.

Issues/Other Items

- ORP reported work has paused on the LERF Basin 44 cover replacement project while nuclear safety evaluations are performed by Washington River Protection Solutions, LLC and ORP. Evaluations are being performed due to visual indication of solid material in the basin and sample results from that material. ORP has provided approval to implement the approach that will pump down the remaining volume in LERF Basin 44 to perform a radiological analysis of the solids.

7.0 TANK SYSTEM UPDATE

7.1 Double-Shell Tank Integrity

Significant Past Accomplishments

ORP noted the following activities:

- Released RPP-RPT-34311, *Double-Shell Tank Integrity Inspection Report for 241-AY Tank Farm*, in December 2020.
- Completed fieldwork for nine of nine enhanced annulus visual inspections in FY 2021 of Tanks 241-AP-101; 241-AP-102; 241-AP-103; 241-AP-104; 241-AP-105; 241-AP-106; 241-AP-107; 241-AP-108; and 241-AY-101.
- Completed ultrasonic testing at 241-AW-105 Double-Shell Tank (DST).
- Completed mobilization for ultrasonic testing at 241-AW-104 DST.

Significant Planned Actions in the Next Six Months

- Draft report for Tank 241-AW-105 ultrasonic testing inspection.
- Complete the FY 2021 ultrasonic testing inspections at Tanks 241-AW-104 and 241-AP-103.
- Complete report development for the nine DST annulus visual inspections performed in FY 2021.
- Complete fabrication/receipt of Southwest Research Institute Guided Wave system.

Ultrasonic Testing Report Status

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- Tank 241-AW-106 ultrasonic testing is in release process with projected release in February 2021.
- Tank 241-AW-105 ultrasonic testing report is in the drafting phase with release projected in March 2021.

Issues/Other Items

- None

7.2 Single-Shell Tank Integrity

Significant Past Accomplishments

- Performed TFC-ENG-CHEM-P-57, *Intrusion Notification and Tank Leak Assessment Process*, on the following tanks in FY 2021:
 - Tank 241-TX-113.
- Visual inspections for CHEM-P-57 tank leak assessment:
 - Tank 241-B-109 (completed September 2020).
- Completed work package planning for visual inspection of five miscellaneous underground storage tanks.
- Completed the in-tank laser scan for dome spalling extent of condition, as a result of Tank 241-SX-112 findings in February 2020:
 - Tank 241-SX-112 Leica laser scan (August 2020).
 - Tank 241-SX-111 Leica laser scan (September 2020).
 - Tank 241-SX-109 Leica laser scan (September 2020).
- Visual inspections were completed for the following tanks:
 - Tank 241-B-106 (completed November 2020).
 - Tank 241-B-108 (completed December 2020).
 - Tank 241-BY-112 (completed December 2020).

Significant Planned Actions in the Next Six Months

- Perform TFC-ENG-CHEM-P-57 on Tank 241-B-109 (in progress).
- Perform FY 2021 visual inspections of SSTs: 241-BY-108, 241-BY-104, 241-S-102, 241-S-112, 241-TY-101, 241-U-108, 241-U-110, 241-U-112, 241-U-201, 241-U-202, 241-U-203, and 241-U-204.

Issues/Other Items

- Tank 241-SX-112 was inspected visually in late February 2020. The concrete dome was inspected fully, and there were three spots of spalled concrete in the dome. While there have been past inspections of the tank, they did not include the full dome; and this was the first inspection to reflect the spalling. There was no evidence of structural issues; however, the dome loading is being limited to current levels until further analysis is complete. The full analysis may take several months to complete, but a structural analysis contract is in place with the Pacific Northwest National Laboratory. Tank 241-SX-112 was inspected visually again in late July. The inspection did not identify any changes in the condition of the spalled locations. Concrete was noted on the waste surface under the

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spalled locations, suggesting that the spalling took place after 1969 when the tank was pumped and taken out of service. On August 17, 2020, a laser scan of Tank 241-SX-112 was performed to assist with analysis of dome spalling. Tank 241-SX-112 analysis is ongoing.

- Tank 241-SX-109 was inspected visually in late July 2020. Spalled concrete was identified in the northeast portion of the tank dome next to a rectangular construction manhole. Additional small/shallow spalling locations, similar to those in Tank 241-SX-112, were noted on the tank dome. Concrete was noted on the waste surface and, comparing to past visual inspections, suggests that the spalling occurred post-1996. In September 2020, a laser scan of Tank 241-SX-109 was also performed to assist with analysis of dome spalling. Tank 241-SX-109 analysis is ongoing.
- Tank 241-SX-108 was inspected visually in early August 2020. Minor spalled concrete was identified on the tank dome.
- Tank 241-SX-111 was inspected visually in mid-August 2020. Spalled/Cracked concrete was identified in various locations on the tank dome. Concrete was noted on the waste surface and, when comparing to past visual inspections, suggests that the spalling occurred post-1987. On September 1, 2020, a laser scan of Tank 241-SX-111 was performed. Review of the laser scan results identified a new spalling location since the visual inspection.

8.0 IN-TANK CHARACTERIZATION AND SUMMARY

8.1 Reports Completed or Released

ORP completed nine reports and released one. For details, please refer to page 26 of the November 2020 TPA monthly report.

8.2 Tank Sampling

Significant Past Accomplishments

For December 2020, the following tank sampling was conducted:

- Performed Tank 241-AN-106 core sampling segments 18, 19-1, 19-2, 20, and 21-1; and shipped to 222-S Laboratory.
- Performed Tank 241-AP-107 second large-volume grab sampling on December 3, 2020. Eighteen liquid grab samples were obtained and shipped to Pacific Northwest National Laboratory for testing.

Significant Planned Actions in the Next Six Months

- Complete Tank 241-AN-106 core sampling January 2021.
- Tank 241-AP-107 large-volume liquid grab sampling is planned for February 2021.
- Tank 241-AN-106 liquid grab sampling is planned for January 2021.
- Catch Tank C-301 grab sampling is planned for March 2021.

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Issues/Other Items

- ORP reported that sampling on tank 241-AN-106 is taking longer than anticipated. The State of Oregon asked what the delay was caused by. ORP noted that there are limited lab personnel working in the lab hot cell and a positive COVID-19 case resulted in a staff shortage.

8.3 Best-Basis Inventory Updates

Significant Past Accomplishments

Best-basis inventory updates for the following tanks were completed in November 2020:

Tank 241-AN-107
Tank 241-B-107
Tank 241-BX-109
Tank 241-BX-112
Tank 241-BY-103
Tank 241-T-105
Tank 241-TX-108
Tank 241-TX-114

Significant Planned Actions in the Next Six Months

- None reported

Issues/Other Items

- None reported

9.0 SINGLE-SHELL TANK CLOSURE PROGRAM

Significant Past Accomplishments

ORP reported the following completed activities:

- Submitted RPP-RPT-62684, FY 2019 Annual Interim Surface Barrier Monitoring Report, Rev. 0, to Ecology via letter 20-TF-0095, "The U.S. Department of Energy, Office of River Protection, Transmittal of RPP-RPT-62684, Fiscal Year 2019 Annual Interim Surface Barrier Monitoring Report, Rev. 0, to Meet Hanford Federal Facility Agreement and Consent Order Milestone M-045-92AD" on October 7, 2020. This completed the M-045-92AD Milestone.
- 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 Site-wide permit. The workshops are currently being conducted as teleconferences.

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- Submitted RPP-ENV-61497, Preliminary Performance Assessment of Waste Management Area A-AX, and RPP-ENV-62206, Analysis of Post-Closure Groundwater Impacts From Hazardous Chemicals in Residual Wastes in Tanks and Ancillary Equipment at Waste Management Area A-AX, on September 29, 2020, to meet the M-045-99 Milestone.
- 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.
- Held a sample depth meeting for D0006 in WMA A/AX with Ecology on October 14, 2020.
- Completed liner installation on the TX Evapotranspiration Basin on August 31, 2020.
- Completed the storm water drainage system and stabilization of the Waste Isolation Division site for the TX evapotranspiration basin on November 17, 2020.
- Completed hydro seed application for the TX evapotranspiration basin on November 18, 2020.
- Issued limited notice to proceed to construction subcontractor for TX Tank Farm Barrier construction.
- On December 1, 2020, DOE submitted to Ecology the updated document via letter 20-TF-0106, "Reissue – The U.S. Department of Energy, Office of River Protection, Transmittal of RPP-RPT-61684, *Maintenance and Performance Monitoring Plan for the Interim Barriers Program*, Rev. 2." In the Ecology letter dated December 21, 2020 (20-NWP-202, "Extension of the Department of Ecology's [Ecology] Comment Review Period for the *Maintenance and Performance Monitoring Plan for the Interim Barriers Program*, Revision 2"), Ecology extended their comment review period to February 15, 2020.

Significant Planned Activities in the Next Six Months

ORP reported the following planned activities:

- Resolve Ecology's comments on RPP-RPT-59389, RPP-RPT-59390, and RPP-RPT-58858.
- Respond to Ecology's comments on RPP-RPT-61684.
- Release updated TPA Appendix I Performance Assessment documents, incorporating Ecology comments as appropriate for WMA-C.
- Hold additional WMAs A/AX boundary meetings for the purpose of reaching agreement.
- Formally award construction subcontract for TX Tank Farm Barrier and commence barrier construction.

Issues/Other Items

- See pages 32-34 of the November 2020 ORP TPA Monthly Report

10.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

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Significant Past Accomplishments

Refer to the Consent Decree portion of these meeting minutes (page 15 section 2.0).

Significant Planned Activities in the Next Six Months

Refer to the Consent Decree portion of these meeting minutes (page 15, section 2.0).

Issues

Refer to the Consent Decree portion of these meeting minutes (page 15, section 2.0).

11.0 TANK OPERATIONS CONTRACT OVERVIEW

The earned value data can be viewed in the November 2020 ORP TPA Monthly Report on pages 38-39.

12.0 DIRECT FEED LAW UPDATE

No update was provided. However, ORP did include the latest DFLAW Integrated Schedule as part of this meeting minute package. (Please see attachment.)

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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 2020 Consent Decree Monthly Report).

Consent Decree Issues and Action Items

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

Action Items

No actions at this time.

2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Significant Accomplishments during the Prior Month

- Completed Tank AX-104 construction acceptance testing and operational acceptance testing
- Completed Tank AX-103 on-dome electrical system installation
- Completed the residual volume measurement (laser-based system) of Tank AX-102
- Completed Tank AP-102 jumper removal and removal of remaining two sections (inside of AP Tank Farm) of the AY to AP hose-in-hose transfer line in support of future A Tank Farm hose-in-hose transfer line installation.
- The chemical dissolution (acid) study for 241-AX-102 samples was issued: RPP-RPT-62647, AX and A Farm Third Retrieval Technology Chemical Dissolution Options Evaluation.

On-Going Activities

- Work continued on the development of a Tank AX-102 third retrieval technology practicability evaluation. An alternative mechanical retrieval options study is underway, which in addition to the completed chemical analysis of the Tank AX-102 post retrieval samples, will support the request to forgo a third retrieval technology in Tank AX-102.
- Continued work on the Tank AX-101 on-dome electrical system installation.
- Continued Tank AX-103 waste retrieval system installation, sluicers, pump, hose-in-hose transfer lines.
- Continued Tank A-101 equipment (A-01H pump) removal activities.
- Continued new trailer and tent installation to mitigate COVID-19 social distancing impacts.

Significant Planned Activities in the Next Month

- Complete Tank AX-104 readiness activities
- Start Tank AX-104 waste retrieval operations
- Install the AX-103 03B pit sluicer.

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Issues/Other Items

- ORP referred to pages 9-10 of the November 2020 Consent Decree Monthly Report for the complete listing of issues.

3.0 TANK WASTE RETRIEVAL WORK PLAN STATUS

Significant Accomplishments during the Prior Month

ORP reported no activity.

Significant Planned Activities in the Next Month

ORP reported no new activity.

4.0 RETRIEVE AND CLOSE SINGLE-SHELL TANKS

Significant Accomplishments during the Prior Month

ORP reported no activity.

Significant Planned Activities in the Next Month

ORP reported no new activity.

5.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

As a general overview of the project, ORP reported the project is adapting to COVID-19 related protocols, social distancing and reaction to positive cases (i.e. staff quarantines and facility cleanings), which is lessening schedule impacts somewhat.

Issues/Other Items

- ORP reported that the WTP Simulator had been brought on-line. The State of Oregon asked if there were cyber concerns with adding the simulator to the Hanford Local Area Network (HLAN), in light of a recent cybersecurity breach of government networks, including Hanford. ORP responded that simulator is not related to or affected by the breach in any way.
- ORP reported that the LAW Facility Room is being cleaned on a daily basis

6.0 PRETREATMENT FACILITY

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the November 2020 ORP Consent Decree Monthly Report on page 22.

Significant Accomplishments during the Prior Month

- None

Significant Planned Activities in the Next Month

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- 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.

Issues/Other Items

- None reported

7.0 HIGH-LEVEL WASTE FACILITY

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the November 2020 ORP Consent Decree Monthly Report on page 25.

Significant Accomplishments during the Prior Month

- None reported

Significant Planned Activities in the Next Month

- None reported

Issues/Other Items

- None

8.0 LOW-ACTIVITY WASTE FACILITY

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the November 2020 ORP Consent Decree Monthly Report on page 28.

Significant Accomplishments during the Prior Month

- WTP simulator received authorization to operate from the DOE cybersecurity organization

Significant Planned Activities in the Next Month

- Startup organization will continue punch list resolution and system testing for the LAW Facility

Issues/Other Items

Ecology asked about the completion criteria for Consent Decree milestone, D-00A-07 (“LAW Facility Construction Substantially Complete”), and requested access to ORP’s construction “Punch List. ORP responded that that the term “punch-list” is slightly misleading, but agreed to share details of the remaining items and associated schedule with Ecology. ***ORP took the action to discuss the LAW Completion Consent Decree milestone further with Ecology.***

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9.0 BALANCE OF FACILITIES

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the November 2020 ORP Consent Decree Monthly Report on page 30.

Significant Accomplishments during the Prior Month

- Plant Management returned the chilled water system to operation following expansion tank and chiller repairs.

Significant Planned Activities in the Next Month

- Engineering will continue to support EMF construction, EMF system walkdowns, and EMF system startup testing.
- Plant Management will continue operations, testing, and tuning of the Steam Plant.
- Construction will continue onsite road preparation and paving.

Issues/Other Items

- None

10.0 ANALYTICAL LABORATORY

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the November 2020 ORP Consent Decree Monthly Report on page 32.

Significant Accomplishments during the Prior Month

- Plant Engineering completed review of LAB method validation reports.
- Plant Management completed the recertification process for LAB fume hoods.
- BNI and ORP completed a joint effort to implement safety, health, and operations programs in support of LAB operations.
- BNI management performed the management readiness assessment in support of declaring completion of the LAB ready to operate contract milestone.

Significant Planned Activities in the Next Month

- ORP is expected to initiate the review of the LAB ready to operate contract milestone.

Issues/Other Items

- None

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2020 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 2020 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 – January 2020 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	TF-20-02-02 13 Feb 2020	ORP to send Ecology the AP-106 Repurposing Report to ECY		Brian Harkins	Open
2	TF-20-10-01 08-Oct 2020	ORP to provide Ecology (Jeff Lyon) the contract associated with Request for Proposal for the Primary Tank Volumetric Inspection/Tertiary Leak Detection Tool		Brian Harkins	Open
3	TF-20-10-03 08-Oct 2020	ORP To provide Ecology with the report associated with R&D work performed by PNNL related to tank bottom volumetric inspection system.		Brain Harkins	Open
4	TF-20-11-01 12-Nov 2020	ORP and Ecology to schedule a meeting to discuss the issues at the beginning of this document pertaining to TPA Appendices H, I.	Email sent to J. Lyon 12/10/20 to help define this action and the criteria for closing.		Open
5	TF-20-11-02 12-Nov-2020	Ecology to status change notice associated with RPP-12711 (“Temporary Waste Transfer Line Management Program Plan”)		Jeff Lyon	Open
6	TF-20-11-03 12-Nov-2020	DOE to send Ecology if there is any information related to equivalent material (permit condition 2R) on the fire suppression system at the 242-	ORP provided information at the 12/10/20 ORP PMM. Ecology agreed item could be closed, but would like to get an update later in the year (2021).	Paul Hernandez	Closed 12/10/20

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2020 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		A Evaporator. Also for dump values and controls.			
7	TF-20-11-04 12-Nov-2020	DOE to verify if Ultrasonic testing is done on Single Shell Tanks and if the report is accurate.	ORP noted this stemmed from a mistake in the November 2020 TPA Monthly Report. No ultrasonic testing is performed on SSTs. ORP amended the November 2020 report, which Ecology concurred with via email (D. Stewart to Lyon, Alzheimer).	Dusty Stewart	Closed 12/10/20
8	TF-20-12-01 10-Dec-20	ORP to schedule meeting with Ecology to discuss Tribal involvement/workshops on the Waste Management Area C Closure Plan			Open
9	TF-20-12-02 10-Dec-20	ORP to schedule meeting with Ecology to discuss WMA-A/AX Boundary			Open
10	TF-20-12-03 10-Dec-20	ORP to provide Ecology (Lyon) details on the current retrieval infrastructure installed in A Tank Farm.			Open

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – January 2020 Meeting

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



THE HANFORD SITE

Office of River Protection Tri-Party Agreement

Monthly Reporting Period
November 1 – 30, 2020

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. The November negotiation session was cancelled by DOE.
- On November 13, 2020, DOE transmitted the final *River Protection Project System Plan*, Rev. 9, to Ecology per letter 20-ORP-0016, “Transmittal of the River Protection Project System Plan, Revision 9.”

Significant Planned Actions in the Next Six Months

- Discuss disputes with regard to 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 negotiations” mediated sessions began in June, 2020 to resolve these disputes.

Comments applicable to each issues section in this presentation:

- DOE authorized the Hanford Site to transition to Phase 2 beginning August 31, 2020.
- On March 24, 2020, the Hanford Site moved to an essential mission-critical operations posture in recognition of increasing COVID-19 concerns. While the majority of the Hanford Site workforce continues to telework, there are a limited number of workers reporting to the site to perform activities necessary to maintain the site in a safe condition, continuing to protect the community, region, and the environment. Additional work on planning for remobilization, engineering analysis, permitting documentation development, etc. by both the DOE and site contractors progresses as conditions allow.
- 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.
- 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

- Submitted CD-1 for Facility to Store Spent Ion Exchange Columns Prior to DFLAW.

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

- The Tank-Side Cesium Removal (TSCR) shield walls were completed.
- The forklift was shipped to the site.
- Washington River Protection Solutions LLC (WRPS) completed the disposition of the ORP review comments on the Documented Safety Analysis (DSA) addendum and Technical Safety Requirements.
- Installation of primary piping for the route between W-211 and ICD-30/31 is in progress. Twenty spools were placed in the trench and eleven piping welds were completed.
- Completed preparations for an electrical outage for AP Farm starting December 10, 2020, to support the power tie-in of the TSCR system. Continued electrical infrastructure installation.
- Completed the excavation of the portion of the waste transfer line inside of AP Farm. Installed the cathodic protection anode. Work continues on setting pipe supports in the trench, which will be followed by placement of the transfer line spools.

Significant Planned Actions in the Next Six Months

- ORP will review the DSA addendum, Technical Safety Requirements, and TSCR Readiness Plan of Action for approval.
- TSCR construction activities will be completed and readiness activities will commence.
- ORP will approve the TSCR DSA.

Significant Past Accomplishments

- Completed replacement of the 242-A Failed Sock Filter assembly.
- Completed 100 percent design for the 242-A Evaporator transfer line replacement.
- Continued wall nozzle fabrication for the 242-A Evaporator slurry and feed transfer line replacement.
- Completed actuator fabrication and functional testing.
- Completed work on the resolution of the universal joint potential inadequacy in the safety analysis. Universal joint testing has been completed, and the vendor has incorporated the new universal joints into the calculations, engineering change notices, and drawings.
- Completed work on the resolution of the buried pipe potential inadequacy in the safety analysis. The calculations for Nuclear Safety to perform the safety basis amendment were completed.
- Completed development of the 100 percent engineering design for the 242-A Evaporator DSA upgrades.
- 242-A Evaporator DSA upgrades hardware and software procurement initiated.
- Initiated AW-B pit work and excavation for wall nozzle installation in support of 242-A Evaporator transfer line replacement..

Significant Planned Actions in the Next Six Months

- Complete replacement of the third, and final, set of pre-filters on the building exhaust plenums.
- Procure new PB-1 and PB-2 replacement pumps.
- Initiate DSA safety system upgrades construction phase.
- Complete wall nozzle fabrication for the 242-A Evaporator slurry and feed transfer line replacement.
- Install new wall nozzles in the AW-B, AW-02E, and AW-02A pits in support of the new 242-A Evaporator slurry line and feed transfer lines.

Issues

- Initial testing revealed an issue with the original universal joints on the actuators used to drive the tank farm double isolation valves. A potential inadequacy in the safety analysis was written. Testing of different universal joints has now been completed, and the vendor has incorporated the new universal joints into the calculations, engineering change notices, and drawings.
- Following universal joint determination, 92 universal joints/actuators will need to be replaced. Project team and facility operations personnel are initiating phased planning of replacement to support tank transfer operations.

Significant Past Accomplishments

- Total fiscal year (FY) 2021 processing volume: approximately 0.315 million gallons.
- Began final design for the Effluent Treatment Facility (ETF) supplemental organic treatment system (i.e., acetonitrile treatment).
- Began conceptual design of the ETF modular grout system.
- Began conceptual design of the ETF brine storage tanks.
- Began conceptual design of the ETF carbon dioxide membrane contactors.
- Began conceptual design of the ETF motor control center upgrade.
- Began conceptual design of the ETF freeze protection upgrade.

Liquid Effluent Retention and 200 Area Effluent Treatment Facilities

Significant Planned Actions

- Complete design of the ETF supplemental organic treatment system (i.e., ETF acetonitrile treatment) 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 storage tanks to provide the capacity to manage the WTP DFLAW effluent
- Complete design of the ETF carbon dioxide membrane contactors 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
- Receive material procurements for the ETF monitoring and control system, Ultraviolet/Oxidation, Redundant Filtration, and Vessel Off-gas system upgrades.

Issues

- Work has paused on the LERF Basin 44 cover replacement project while nuclear safety evaluations are performed by WRPS and ORP. Evaluations are being performed due to visual indication of solid material in the basin and sample results from that material. ORP has provided approval to implement the approach that will pump down the remaining volume in LERF Basin 44 to perform a radiological analysis of the solids

Liquid Effluent Retention and 200 Area Effluent Treatment Facilities

LERF Volumes

Description	242AL-42 (Basin 42)	242AL-43 (Basin 43)	242AL-44 (Basin 44)
AZ-301 Condensate	-	+ 4,000	-
Mixed Waste Trench 31 and 34	+ 11,000	-	-
Other ¹	+ 900	-	-
Processing Campaign(s)	- 315,000	-	-
Total Volume	2,515,000	6,484,000	738,000

Data Date: December 1, 2020
 Values shown in gallons

¹ 325 retention process sewer.

Significant Past Accomplishments

- Released RPP-RPT-34311, *Double-Shell Tank Integrity Inspection Report for 241-AY Tank Farm*, in November 2020. Completed two of nine enhanced annulus visual inspections in FY 2021:
 - 241-AP-101
 - 241-AP-103.
- Continued Ultrasonic testing at AW-105 DST.

Significant Planned Actions

- Complete the FY 2021 ultrasonic testing inspections at tanks 241-AW-105, 241-AW-104, and 241-AP-103
- Complete DST annulus visual inspections at nine tanks
- Complete fabrication/receipt of Southwest Research Institute Guided Wave system.

Ultrasonic Testing Report Status

- Released RPP-RPT-62123, *Ultrasonic Inspection and Air Slot Visual Inspection Results for Double-Shell Tank 241-AW-102 – FY 2020*, in June 2020
- 241-AW-101 ultrasonic testing report released in August 2020
- 241-AW-106 ultrasonic testing is in release process with projected release in December..

Significant Past Accomplishments

- Performed TFC-ENG-CHEM-P-57, *Intrusion Notification and Tank Leak Assessment Process*, on the following tanks in FY 2021:
 - 241-TX-113.
- Visual inspections for CHEM-P-57 tank leak assessment:
 - 241-B-109 (completed September 2020).
- Completed work package planning for visual inspection of five miscellaneous underground storage tanks.
- Completed the in-tank laser scan for dome spalling extent of condition, as a result of Tank 241-SX-112 findings in February 2020:
 - Tank 241-SX-112 Leica laser scan (August 2020)
 - Tank 241-SX-111 Leica laser scan (September 2020)
 - Tank 241-SX-109 Leica laser scan (September 2020).
- Visual inspections were completed for the following tanks in FY 2021:
 - 241-B-106 (completed November 2020)
 - 241-B-108 (completed November 2020).

Significant Planned Actions

- Perform TFC-ENG-CHEM-P-57 on tanks 241-B-109 (in progress)
- Perform FY 2021 visual inspections of SSTs.

Issues

- Tank 241-SX-112 was inspected visually in late February 2020. The concrete dome was inspected fully, and there were three spots of spalled concrete in the dome. While there have been past inspections of the tank, they did not include the full dome; and this was the first inspection to reflect the spalling. There was no evidence of structural issues; however, the dome loading is being limited to current levels until further analysis is complete. The full analysis may take several months to complete, but a structural analysis contract is in place with the Pacific Northwest National Laboratory. Tank 241-SX-112 was inspected visually again in late July. The inspection did not identify any changes in the condition of the spalled locations. Concrete was noted on the waste surface under the spalled locations, suggesting that the spalling took place after 1969 when the tank was pumped and taken out of service. SX-112 analysis is ongoing.
- Tank 241-SX-109 was inspected visually in late July 2020. Spalled concrete was identified in the northeast portion of the tank dome next to a rectangular construction manhole. Additional small/shallow spalling locations, similar to those in Tank 241-SX-112, were noted on the tank dome. Concrete has been noted on the waste surface, and, comparing to past visual inspections, suggests that the spalling occurred post-1996.

Issues (continued)

- Tank 241-SX-108 was inspected visually in early August 2020. Minor spalled concrete was identified on the tank dome.
- Tank 241-SX-111 was inspected visually in mid-August 2020. Spalled/Cracked concrete was identified in various locations on the tank dome. Concrete has been noted on the waste surface, and, when comparing to past visual inspections, suggests that the spalling occurred post-1987. On September 1, 2020, a laser scan of SX-111 was performed. Review of the laser scan results identified a new spalling location since the visual inspection..

Significant Past Accomplishments

- For November 2020, the following tank sampling was conducted:
 - Performed Tank 241-AN-106 core sampling November 17, 2020. One core sample was received at the laboratory. Note that no material was extruded from this core sample, and consequently another sample is planned to be taken.
 - Performed Tank 241-AP-107 first large volume grab sampling between November 18 and November 24, 2020.

Significant Planned Actions

- Complete Tank 241-AN-106 core sampling December 2020.
- Tank 241-AP-107 large-volume liquid grab sampling is planned for December 2020
- Tank 241-AN-106 liquid grab sampling is planned for January 2021
- Tank 241-AP-107 qualification liquid grab sampling is planned for January 2021
- Catch Tank C-301 grab sampling is planned for January 2021.

Significant Past Accomplishments

- Best-basis inventory updates for the following tanks were completed in November 2020:
 - 241-AZ-101
 - 241-B-201
 - 241-BX-111
 - 241-SY-101.

Significant Planned Actions

- Best-basis inventory updates for the following tanks are currently planned to be completed in December 2020:
 - 241-AN-107
 - 241-B-107
 - 241-BX-109
 - 241-BX-112
 - 241-BY-103
 - 241-T-105
 - 241-TX-108.

Significant Past Accomplishments

- Submitted RPP-RPT-62684, *FY 2019 Annual Interim Surface Barrier Monitoring Report*, Rev. 0, to Ecology via letter 20-TF-0095, “The U.S. Department of Energy, Office of River Protection, Transmittal of RPP-RPT-62684, Fiscal Year 2019 Annual Interim Surface Barrier Monitoring Report, Rev. 0, to Meet Hanford Federal Facility Agreement and Consent Order Milestone M-045-92AD” on October 7, 2020. This completed the
- M-045-92AD Milestone.
- 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.
- Submitted RPP-ENV-61497, *Preliminary Performance Assessment of Waste Management Area A-AX*, and RPP-ENV-62206, *Analysis of Post-Closure Groundwater Impacts From Hazardous Chemicals in Residual Wastes in Tanks and Ancillary Equipment at Waste Management Area A-AX*, on September 29, 2020, to meet the M-045-99 Milestone.

Significant Past Accomplishments (continued)

- Held a data quality objective meeting for defining the WMAA/AX boundary with Ecology and EPA, September 1, 2020. Held two follow-up meetings for defining the WMAA-AX boundary with Ecology on September 16 and November 3, 2020.
- Held a data quality objective sampling meeting for WMAA/AX with Ecology on September 29, 2020.
- Held a sample depth meeting for D0006 in WMAA/AX with Ecology on October 14, 2020.
- Completed liner installation on the TX Evapotranspiration Basin on August 31, 2020.
- Completed the storm water drainage system and stabilization of the Waste Isolation Division site for the TX evapotranspiration basin on November 17, 2020.
- Completed hydro seed application for the TX evapotranspiration basin on November 18, 2020.

Significant Past Accomplishments (continued)

- Report RPP-RPT-61684, Rev. 00B, was delivered to Ecology on October 10, 2019, to complete the M-045-92AC Milestone. Submitted RPP-RPT-61684, *Maintenance and Performance Monitoring Plan for the Interim Barriers Program*, Rev. 1, to Ecology via letter 20-TF-0069, “The U.S. Department of Energy, Office of River Protection, Transmittal of RPP-RPT-61684, Maintenance and Performance Monitoring Plan for the Interim Barriers Program, Rev. 1,” on July 23, 2020. Ecology extended its review of the document until September 18, 2020 (20-NWP-137, “Extension of the Department of Ecology’s (Ecology) Comment Review Period for the *Maintenance and Performance Monitoring Plan*, RPP-RPT-61684, Revision 1, for the Interim Barriers Program”). ORP received Ecology comments on the document on September 18, 2020 (20-NWP-159, “Department of Ecology’s [Ecology] Comments on the United States Department of Energy – Office of River Protection’s [USDOE-ORP] *Maintenance and Performance Monitoring Plan for the Interim Barriers Program* [RPP-RPT-61684, Rev. 1]”). On October 8, 2020, ORP requested an additional 60 days past October 18, 2020 to provide responses to Ecology’s comments on the primary document (20-TF-0101, “Response to 20-NWP-159 from the Washington State Department of Ecology”). On October 9, 2020, Ecology approved ORP’s request for a 60-day extension (20-NWP-164, “Approval of the United States Department of Energy’s 60-day Extension Request for Comment Response on the *Maintenance and Performance Monitoring Plan for the Interim Barriers Program*, RPP-RPT-61684, Rev.1”).

Significant Planned Actions

- Resolve Ecology's comments on RPP-RPT-59389, RPP-RPT-59390, and RPP-RPT-58858
- Respond to Ecology's comments on RPP-RPT-61684
- Release updated TPA Appendix I Performance Assessment documents incorporating Ecology comments as appropriate for WMA-C
- Hold additional WMAs A/AX boundary meetings for the purpose of reaching agreement
- Award construction subcontract for TX Farm Barrier and commence barrier construction

Issues

- Issues available in the report



THE HANFORD SITE

Office of River Protection Consent Decree Monthly Report

Monthly Reporting Period
November 1 – 30, 2020

Significant Accomplishments during the Prior Month

- Completed Tank AX-104 construction acceptance testing and operational acceptance testing
- Completed Tank AX-103 on-dome electrical system installation
- Completed the residual volume measurement (laser-based system) of Tank AX-102
- Completed Tank AP-102 jumper removal and removal of remaining two sections (inside of AP Tank Farm) of the AY to AP hose-in-hose transfer line in support of future A Tank Farm hose-in-hose transfer line installation.
- The chemical dissolution (acid) study for 241-AX-102 samples was issued: RPP-RPT-62647, *AX and A Farm Third Retrieval Technology Chemical Dissolution Options Evaluation*.

Ongoing Activities

- Work continued on the development of a Tank AX-102 third retrieval technology practicability evaluation. An alternative mechanical retrieval options study is underway, which in addition to the completed chemical analysis of the Tank AX-102 post retrieval samples, will support the request to forgo a third retrieval technology in Tank AX-102.
- Continued work on the Tank AX-101 on-dome electrical system installation.
- Continued Tank AX-103 waste retrieval system installation, sluicers, pump, hose-in-hose transfer lines.
- Continued Tank A-101 equipment (A-01H pump) removal activities.
- Continued new trailer and tent installation to mitigate COVID-19 social distancing impacts.

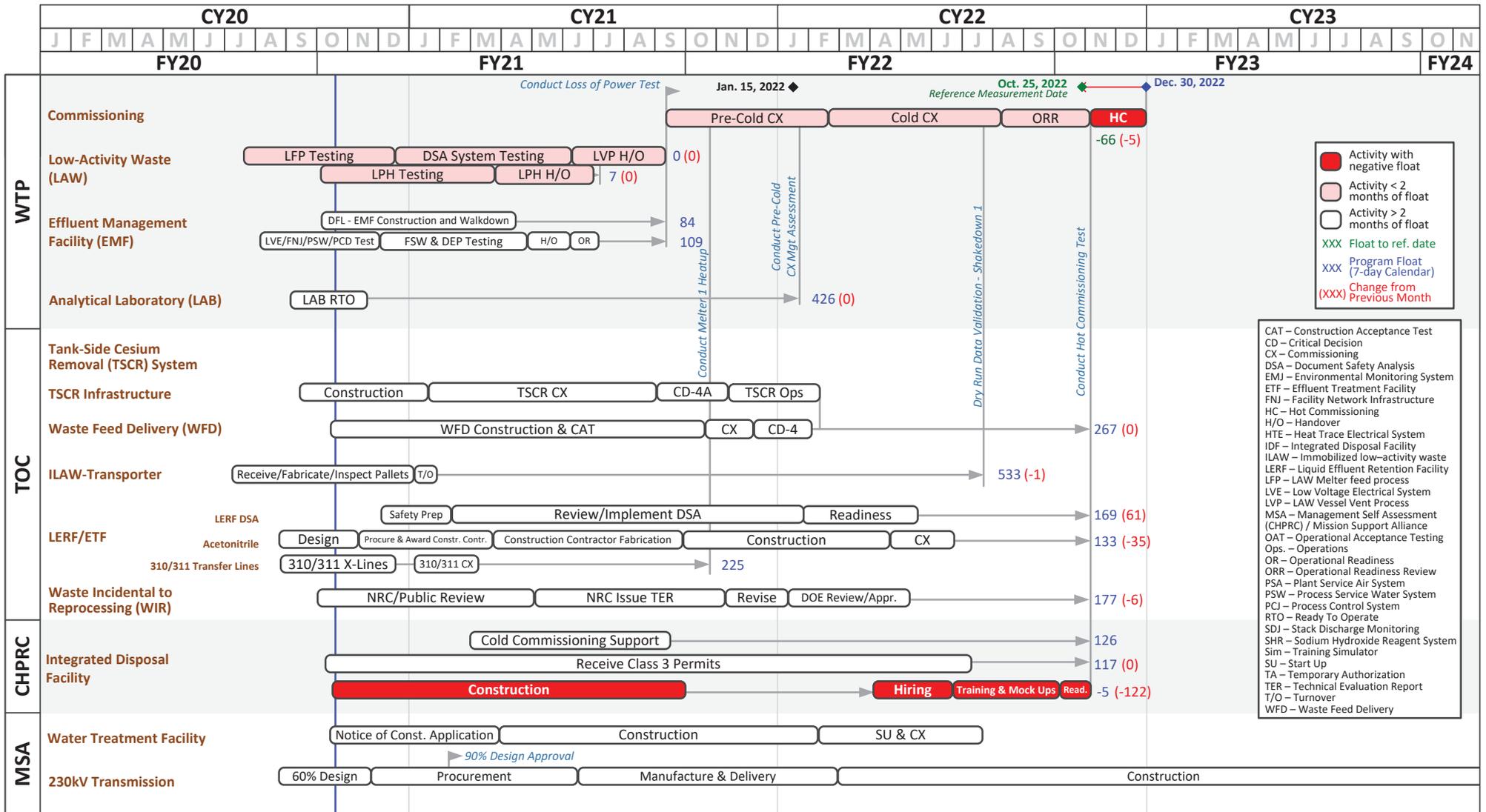
Significant Planned Activities in the Next Month

- Complete Tank AX-104 readiness activities
- Start Tank AX-104 waste retrieval operations
- Install the AX-103 03B pit sluicer.

Issues

- Issues available in the report.

DFLAW Integrated Schedule – October 2020



October Month End Summary: Successful demonstration of hot commissioning slipped 5 days from the previous month. The new anticipated completion date for Hot Commissioning is December 30, 2022.

Working level schedule subject to change.

Data Date:
October 19, 2020



DFLAW Integrated Schedule Analysis - October 2020

Project	Owner Fed/Contractor	Float	Trend	Current Month Remarks	Project-Specific Critical Path
LAW	W. Abdul/ S. Miller	-5	-5	The WTP Project remains in Phase 2 of the Hanford Site Remobilization Plan with protocols resulting from the COVID -19 Pandemic still required. The Project Team remains focused on working the critical project activities, challenging the completion teams to advance the schedule, mitigating impacts, and getting to Loss of Power as soon as practical. However, because the full extent of impacts haven't been completely assessed the duration of Conduct Loss of Power –Test Prerequisites has been extended a total of 7 weeks to account for COVID impacts while they continue to be assessed and incorporated into the forecast schedule, no additional time has been added for October month end. Integrated Disposal Facility's hiring, training, and readiness activities impacted the start of Hot Commissioning Test by 5 days, causing a 5 day slip to the completion of hot commissioning.	LAW Melter Feed Process & LAW Vessel Vent Process, Document Safety Analysis System Testing, LAW Vessel Vent Process Handover
EMF	W. Abdul/ J. Andreatta	84	N/A	As of November 11, startup testing is complete for 15 systems that have been handed over to plant management. Startup testing is underway for 53 systems, and construction is nearing completion for the remaining 9 systems.	DFL - EMF Construction and Walkdown
LAB	J. Young/ G. Nemeth	426	0	During the October 2020 reporting period there was no change to the LAB RTO milestone completion date. The ORP/BNI team was focused on preparations for the upcoming BNI Management Assessment to demonstrate / evaluate LAB readiness. Inconsistency of Steam Plant availability challenged the certification schedule for the LAB fume hoods but at this time has not impacted the projected milestone completion date.	LAB Ready to Operate
TSCR/TFU/ WFD	J. Diediker/ K. Smith/ J. Follett	267	0	On track.	Fabrication, Construction Acceptance Testing, Commissioning, CD-4, TSCR Operations
ILAW	B. Tamang/ B. Cunningham	533	-1	On track.	Receive, Inspect, and Fabricate Pallets, Turnover
LERF/ETF	R. Valle (DOE) J. Foster (DSA) J. Filip (ACN) T. Sackett (310/311)	133	N/A	LERF DSA: The forecast finish for completion of the LERF DSA effort was accelerated as near-term activities were resequenced to be performed concurrently. ETF Acetonitrile: The forecast finish for completion of the ETF Acetonitrile project was delayed due to re-extending the Final (90%) Design deliverable due date. In addition, the current FY21 activities were revised to update (a) the procurement and award of the construction subcontract, and (b) the corresponding construction activities. 310 & 311-PL Transfer Lines: The forecast finish for completion of the 310 & 311-PL Transfer Lines was delayed due to updating the project schedule to include the performance of an Operational Readiness Checklist (ORC) to commission the lines in FY21.	LERF DSA: Safety Basis Prep, Review/Implementation, Readiness ETF ACN: Design, Procure Constructor, Fabrication, Construction, Commissioning 310/311: Fieldwork, Commissioning
WIR	R. Bang/ M. Wheeler	177	-6	Minor change to the Public Meeting dates that impacted the overall WIR review/approval schedule	NRC/Public Review, NRC Issue TER, Revise WIR, DOE Review & Approval
IDF	B. Stetter/ R. Havenor	-5	-122	IDF received the RCR comments back from Ecology on the Class III permit for the active life of the facility. The team will continue to work on resolving the RCRs with Ecology and the team appreciates the feedback from WRPS. Schedule ties are being resolved to fix the -122 days of float, the level 1 schedule reflected a tie to an old activity 1W1500 that drove the negative float. Construction on the Pallet and Transporter inspection buildings are nearing completion, phase 2 security fencing initiated, and utility installs are ongoing with tie-ins expected shortly.	Receive Class 3 Permits, Hiring, Training, IDF Management Self Assessment
WTF*	C. Smith/ C. Burke	N/A	N/A	On track.	Notice of Construction Application, Manufacturing/Construction, and Startup/Commissioning
230kV Transmission Line*	C. Smith/ C. Burke	N/A	N/A	The 60% Design approval slipped 2 days from the previous month, but is still on track for the baseline schedule dates. Formal design review meetings between MSA/DOE and BPA have taken place.	60% Design, Contract Award, Construction, Procurement, SU & CX, Manufacture and Delivery, Construction, Closeout
Hot CX Completion	T. Fletcher/ V. McCain	-66	-5	Successful demonstration of hot commissioning slipped 5 days from the previous month. The new Hot Commissioning Completion date is December 30, 2022. There are negative 66 days of float to the Reference Measurement date of Oct 25, 2022.	LAW Melter Feed Process & Radioactive Liquid Waste Disposal testing, Document Safety Analysis System Testing, LAW LVP Handover, Pre-Cold CX, Cold CX, ORR, Hot CX

Note * MSA reliability projects will support sustained DFLAW operations and are not tied to commissioning, and therefore Total Float will not be compared in this table.

October 2020 ME Status

Schedule Data Date: October 19, 2020

Office of River Protection
Monthly Tri-Party Agreement Project Managers Meeting
January 14, 2021

ATTENDEES

Brian Harkins, DOE-ORP
Bryan Trimberger, DOE-ORP
Jeff Rambo, DOE-ORP
Erik Olds, DOE-ORP
Briana Lindberg, DOE-ORP
Rod Lobos, DOE-ORP
Paul Hernandez, DOE-ORP
Ricky Bang, DOE-ORP
Glyn Trenchard, DOE-ORP
Mike Cline, DOE-RL
Holly Bowers, WRPS
Gordon Warwick, WRPS
Dan Parker, WRPS
Maria Lopez, WRPS
Robin Varljen, WRPS

Eric Van Mason, WRPS
Michael Turner, MSA
Stephanie Brasher, MSA
Amena Mayenna, Ecology
Steve Lowe, Ecology
Maria Skorska, Ecology
Jay Decker, Ecology
Jeff Lyon, Ecology
John Price, Ecology
Jim Alzheimer, Ecology
Kyle Rucker, Ecology
Andrew Pomiak, Ecology
John Temple, Ecology
David Bowen, Ecology
Shelley Cimon, State of Oregon