

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

August 13, 2020

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: 2020.09.29 10:16:48
-07'00'

Brian Harkins, Project Manager
DOE-ORP

Date: _____

Jason Young

Digitally signed by Jason Young
Date: 2020.09.29 10:08:44 -07'00'

Jason Young, Project Manager
DOE-ORP

Date: _____

Not in attendance

Wahed Abdul, Project Manager
DOE-ORP

Date: _____

Lyon, Jeffery
(ECY)

Digitally signed by Lyon, Jeffery
(ECY)
Date: 2020.10.05 15:58:56
-07'00'

Jeff Lyon, Project Manager
Washington State Department of Ecology

Date: _____



Digitally signed by Decker, Jay
(ECY)
Date: 2020.10.07 08:12:02
-07'00'

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

Date: _____

Not in attendance

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 September 10, 2020, 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 June 1- June 30,, 2020, were entered into the Hanford Administrative Record on July 27, 2020.

Tri-Party Agreement Milestone Status

ORP stated all Tri-Party Agreement (TPA) milestones reported on were either Complete, On Schedule or In Dispute Resolution (for details on specific milestones, see pages 3-5 of the June 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 – August 2020 Meeting."

Action No. 1 (TF-18-10-01): *Action was closed July 9, 2020.*

Action No. 2 (TF-20-01-01): ORP noted that this action is stasured in the TPA monthly report under milestone M-062-50. Ecology expressed that it expected more than just whether the milestone was on schedule or not, and wanted to have more detail on progress. *The action remained open.*

Action No. 3 (TF-20-01-02): ORP reported it had met this milestone (M-062-54A). *The action was closed July 9, 2020.*

Action No. 4 (TF-20-01-03): ORP reported this action would be discussed in the Waste Treatment Plant action items. *The action remains open.*

Action No. 5 (TF-20-02-01): ORP stated that the TSCR was nearly ready to be moved into place in the field, making a walk-down difficult. Ecology agreed, but needed to get the final approval to close the action from its project manager, who was not in attendance today. *The action remains open.*

Action No. 6 (TF-20-02-02): ORP reported WRPS had drafted the AP-106 Repurposing Report and would check status on providing to Ecology. *The action remains open.*

Action No. 7 (TF-20-03-01): The parties indicated they would seek to clarify the intent on this action. Ecology asked ORP if it had a Double Shell Tank Permitting Plan. ORP replied it did not have that information available at today's meeting. *The action remains open.*

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Action No. 8 (TF-20-03-02): *The action was closed July 9, 2020.*

Action No. 9 (TF-20-07-01): ORP stated it needed clarification if this was a request related to a RCRA permit modification and if so, which modification – possibly the transfer lines between AW tank farm and the 242-A Evaporator, If so, ORP reported it was not at the 90% design stage yet, but said it would get an answer to Ecology.

OPENNING STATEMENT

ORP reported that the following statement applies to all “Past Accomplishments” in the June 2020 TPA Report:

“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 Coronavirus Disease 2019 (COVID-19) protocols to infrastructure and facilities, required training, medical evaluations, and limited construction activities were added.”

2.0 SYSTEM PLAN

Significant Past Accomplishments

ORP reported that the U.S. Environmental Protection Agency, ORP and Ecology met in the first mediated session of the holistic negotiations on June 25, 2020. This session was an opportunity for each party to express its desired outcomes from the mediation. ORP also reported that, as of June 2020, the draft of the River Protection Project System Plan, Rev. 9, was completed and was in internal ORP review. Lastly, ORP reported that as of May 2020, cost and schedule development of the selected scenarios under System Plan 9 was completed, and the results were presented to Ecology representatives and that development of the System Plan, Rev. 9, document is ongoing.

Significant Planned Actions in the Next Six Months

ORP reported that essential mission-critical operations and Phase 1 activities will continue in light of COVID-19-related restrictions and DOE’s authorization for the Hanford Site to move to Phase 1. Additional work on planning for remobilization, engineering analysis, permitting documentation development, etc. by both DOE and site contractors will progress as conditions support. In addition:

- Discuss disputes with regard to milestone M-062-45 and its associated milestones during “Holistic Negotiations.”
- The first working session of the holistic negotiations is expected to be scheduled the last week of July or in early August. ORP updated this to note that the parties had met, as of early August 2020.
- Ecology and ORP will continue discussions in support of *River Protection System Plan*, Rev. 9, development, due October 31, 2020.

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

Issues/Other Items

ORP noted that Ecology ended System Plan 8 negotiations with remaining issues and TPA disputes unresolved, but were to be possibly resolved via the Holistic Negotiations.

3.0 ACQUISITION OF NEW FACILITIES

ORP reported no change in this activity, but that there could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

4.0 TANK-SIDE CESIUM REMOVAL SYSTEM

Significant Past Accomplishments

ORP reported that Tank-Side Cesium Removal (TSCR) system completed an acceptance test of the TSCR simulator, which included software changes made as a result of the factory acceptance testing; also that the Balance of Facilities pad conduit and structural backfill were completed, and forming work to prepare for the mud mat pour is in progress. ORP also reported that the Ion Exchange Column storage pad backfill was completed, and forming work to prepare for the mud mat pour is in progress. ORP provided a update that as of August 12, 2020, the TSCR concrete pad had been poured.

Significant Planned Actions in the Next Six Months

ORP reported that operations and progress could be impacted by the COVID-19 pandemic and resulting site shutdown.

Issues/Other Items

None.

5.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments

ORP reported it had:

- Completed removal of aqueous makeup unit room in E-101 and E-104 tanks and set instrument air dryer in place.
- Completed 90 percent design for the transfer line replacement.
- Continued wall nozzle fabrication for the slurry and feed transfer line replacement.
- Completed actuator fabrication and functional testing.
- Awarded Documented Safety Analysis upgrades panel design and fire modeling contracts.
- Completed development of the 45 percent engineering design for the Documented Safety Analysis upgrades and initiated development of the 90 percent engineering design.

Significant Planned Actions in the Next Six Months

- Procure new PB-1 and PB-2 replacement pumps (which will be stored until/if needed).
- Complete 100-percent design for transfer line replacement.

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

- Complete Documented Safety Analysis panel design and fire modeling.
- Complete instrument air dryer tie-in and turnover.
- Continue wall nozzle fabrication for the slurry and feed transfer line replacement.

Issues/Other Items

Ecology asked if the 90% design review for the transfer line replacement had been provided to them. ORP said it would find out and get back to Ecology.

6.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY

Significant Past Accomplishments

ORP reported the following:

- Total FY20 processing volume: ~1 million gallons
- Completed ETF:
 - Chiller upgrade
 - Tank repair verification
 - Ultraviolet/oxidation system upgrade detailed design review
 - Monitoring and control system upgrade detailed design review
 - Load-in station building expansion detailed design review
 - Vessel off-gas system upgrade conceptual design review
 - Redundant filtration upgrade conceptual design review
 - Dilute caustic tank vendor repair and delivered to site for installation
 - Project support for brine loadout, reverse osmosis, load-in station drain and filter, and cooling tower system upgrade
- Completed LERF Basin 41:
 - Installation final design
 - Project support for cover repair/replacement

Significant Planned Actions in the Next Six Months

Complete ETF:

- Final design modifications for the brine loadout system upgrade
- Final design of the ultraviolet/oxidation system upgrade
- Final design of the monitoring and control system upgrade
- Final design of the redundant filtration upgrade
- Final design of the load-in station building expansion
- Final design of the vessel off-gas system upgrade
- Detailed design of the supplemental organic treatment system
- Conceptual design of the carbon dioxide membrane contactors
- Conceptual design of the brine storage tanks
- Conceptual design of the modular grout system
- Conceptual design of the motor control center upgrade
- Conceptual design of the freeze protection upgrade

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Issues/Other Items

ORP reported that 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. Two options to repair/replace the LERF Basin 44 cover have been developed and issued to vendors for bid proposals.

7.0 TANK SYSTEM UPDATE

7.1 Double-Shell Tank Integrity

Significant Past Accomplishments

ORP noted the following activities:

- Installed a retractable corrosion monitoring probe in Tank 241-AY-101
- Completed ultrasonic testing inspections: 241-AW-102, 241-AW-101
- Completed enhanced annulus visual inspection: 241-AW-101, 241-AW-102, 241-AW-103, 241-AW-104, 241-AW-105, 241-AW-106, 241-SY-101, 241-SY-102, 241-SY-103
- Completed annulus visual inspection: AY-102 thru risers 88 & 89
- Released revision of RPP-RPT-31599, Double-Shell Tank Integrity Inspection Report for 241-AN Tank Farm
- Released RPP-RPT-62123, Ultrasonic Inspection and Air Slot Visual Inspection Results for DST 241-AW-102
- Issued contract to fabricate, test, and deliver a primary tank bottom volumetric inspection system
- Issued a competitive procurement contract to design and fabricate a tertiary leak detection inspection tool

Significant Planned Actions in the Next Six Months

- Complete Tank 241-AW-106 ultrasonic testing.

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: 241-SX-104, 241-T-109
- Completed visual inspections of: 241-TX-101, 241-TX-102, 241-TX-104, 241-TX-107, 241-S-103, and 242-2-110, 241-BX-112, 241, BY-107, 241-SX-112, 241-TX-110, 241-BX-109, 241-B-107, 241-BX-108, 241-BX-105
- Completed work package planning for visual inspection of five miscellaneous underground storage tanks.

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Significant Planned Actions in the Next Six Months

- Perform TFC-ENG-CHEM-P-57, Intrusion Notification and Tank Leak Assessment Process on Tank 241-TX-113 (in progress).

Issues/Other Items

- Ecology asked ORP about the CHEM-P-57 (intrusion notification/leak assessment) process ORP mentioned and if it were being done on tank 241-T-112. ORP replied that the intrusion notification leak/assessment process was done on tank 241-TX-113. ORP said it was also doing the intrusion notification/leak assessment on a tank in the BY tank farm (ORP did not have the exact tank number). Ecology asked if the BY tank was the same that was reported in a prior monthly report. ORP acknowledged that it was. Ecology asked if there was any other information available on the 241-TX-113 intrusion notification/leak assessment. *ORP took an action to find out what tanks were undergoing the intrusion notification/leak assessment and rely that information to Ecology.*
- Tank 241-SX-112 was visually inspected in late February. The concrete dome was fully inspected, and there were three spots of spalled concrete in the dome. Further investigation is ongoing and a path forward is being developed. The spalling is believed to have happened before 1969, when the tank was interim stabilized. While there have been past inspections of the tank, they did not include the full dome; this is the first inspection to reflect the spalling. There is 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.

8.0 IN-TANK CHARACTERIZATION AND SUMMARY

8.1 Reports Completed or Released

ORP completed five reports and released none. For details, please refer to page 25 of the June 2020 TPA monthly report.

8.2 Tank Sampling

Significant Past Accomplishments

- Nothing noted

Significant Planned Actions in the Next Six Months

- Tank 241-AX-102 post-retrieval solids grab sampling is planned for August 2020.
- Tank 241-AN-106 core sampling is planned for September 2020.
- Tank 241-AN-106 liquid grab sampling is planned for September 2020.
- Tank 241-AP-107 large volume grab sampling is planned for October 2020.
- Catch Tank C-301 grab sampling is planned for December 2020.

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Issues/Other Items

- None noted.

8.3 Best-Basis Inventory Updates

Significant Past Accomplishments

- Best-basis inventory updates for the following tanks were completed in June 2020: 241-AX-101, 241-AY-101, 241-SX-112

Significant Planned Actions in the Next Six Months

- Best-basis inventory updates for the following tanks are currently planned to be completed in July 2020: 241-AX-103.

Issues/Other Items

- None reported.

9.0 SINGLE-SHELL TANK CLOSURE PROGRAM

Significant Past Accomplishments

ORP reported the following completed activities:

- Mobilized subcontract labor and equipment to start field activities on the TX Evapotranspiration Basin. Potholing initiated to identify abandoned underground utility obstructions.
- A cultural resource review was prepared and submitted for Washington State Historic Preservation Officer and tribal review in support of barriers at the TX Barrier Special Emphasis Area and National Environmental Policy Act. Based on the determination, there are no cultural resource concerns related to construction of the Evapotranspiration barrier.
- Completed clearing and grubbing, as well as pot holing, and started mass excavation on the TX Evapotranspiration Basin. (ORP provided and update, that as of today's meeting, the excavation of the basin was complete.)
- Held M-045-56 milestone pre-meeting with Ecology, DOE, and WRPS staff on June 16, 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.
- Complete mass excavation and liner installation on the TX Evapotranspiration Basin.
- Revise RPP-RPT-61684, *Maintenance and Performance Monitoring Plan*, to incorporate comments received via Ecology letter 20-NWP-106.
- Conduct the M-045-56 milestone annual meeting on July 9, 2020.

Issues/Other Items

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- Interagency Management Integration Team decisions for the four issues on RPP-RPT-58329, Baseline Risk Assessment for Waste Management Area C, have been stalled since the February 21, 2019 meeting. (NOTE: this issue has been resolved).

10.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Significant Past Accomplishments

Refer to the Consent Decree portion of these meeting minutes (page 13 section 2.0).

Significant Planned Activities in the Next Six Months

Refer to the Consent Decree portion of these meeting minutes (page 13, section 2.0).

Issues

Refer to the Consent Decree portion of these meeting minutes (page 13, section 2.0).

11.0 TANK OPERATIONS CONTRACT OVERVIEW

The earned value data can be viewed in the June 2020 ORP TPA Monthly Report on pages 36-42.

WBS 5.01 – Base Operations

The earned value data can be viewed in the June 2020 ORP TPA Monthly Report on page 36.

WBS 5.02 – Retrieve and Close Single-Shell Tanks

The earned value data can be viewed in the June 2020 ORP TPA Monthly Report on page 38.

WBS 5.03 – Waste Feed Delivery/Treatment Planning

The earned value data can be viewed in the June 2020 ORP TPA Monthly Report on page 40.

WBS 5.05 – Treat Waste

The earned value data can be viewed in the June 2020 ORP TPA Monthly Report on page 42.

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 June 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 – July 2020 Meeting."

Action Items

There are no current actions.

2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Consent Decree Milestones

- A status of SST retrieval Consent Decree milestones can be found on page 6 of the June 2020 Consent Decree Monthly Report.
- ORP noted that it had sent a "Force Majeure" letter to the US Department of Justice on May 21, 2020, asking for a "day-for-day" slip on Consent Decree milestones impacted by the COVID-19 pandemic and resulting site posture.

Significant Accomplishments during the Prior Month

- Essential mission-critical operations and limited onsite activities in light of restrictions relating to COVID-19. Additional work by both DOE and site contractors progressed as conditions allowed.
- On May 20, 2020, DOE authorized the Hanford Site to move to Phase 1. Hanford Site operations began Phase 1 on May 26, 2020.
- Completed shipment of one long-length equipment removal (AX-101-01B pump) to Environmental Restoration Disposal Facility.
- Completed A Tank Farm exhauster and ventilation system hot operational acceptance testing.

Significant Planned Activities in the Next Month

- Continue essential mission-critical operations and Phase 1 activities in light of restrictions related to the COVID-19 pandemic and DOE's authorization for the Hanford Site to move to Phase 1.
- Complete A Tank Farm exhauster ventilation system readiness in preparation for turnover to Operations.

Issues/Other Items

- ORP referred to pages 7-9 of the June 2020 Consent Decree Monthly Report for the complete listing of issues.

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

- Ecology asked ORP how it was communicating COVID-19 related impacts to its contractor. ORP replied that it is conducting daily meetings with its contractor that go over schedule impacts and delays, as well as a series of letters that communicate how the charges are being accumulated for the COVID impact.

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

WBS 5.02

The earned value data can be viewed in the June 2020 ORP Consent Decree Monthly Report on page 11 (May data).

5.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the June 2020 ORP Consent Decree Monthly Report on pages 17-18.

6.0 PRETREATMENT FACILITY

ORP reported that the focus at the pretreatment facility was on asset preservation and maintenance, though work is hampered by the COVID-19 pandemic.

The earned value data can be viewed in the June 2020 ORP Consent Decree Monthly Report on page 21.

7.0 HIGH-LEVEL WASTE FACILITY

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the June 2020 ORP Consent Decree Monthly Report on page 24.

Significant Accomplishments during the Prior Month

Nothing reported (see page 23 of the June 2020 ORP Consent Decree Monthly Report for more detail).

Significant Planned Activities in the Next Month

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Nothing reported (see page 23 of the June 2020 ORP Consent Decree Monthly Report for more detail).

Issues/Other Items

- ORP reported that, due to the current site posture, and reduction in on-site/field work, it was able to devote more engineering resources to HLW/PT engineering activities.
- Ecology asked if ORP was planning on storing any equipment at HLW or PT to minimize storage costs. ORP did not have an immediate answer, but took an action get back to Ecology. *Action: ORP will brief Ecology on the possibility of storing equipment at HLW/PT.*

8.0 LOW-ACTIVITY WASTE FACILITY

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the June 2020 ORP Consent Decree Monthly Report on page 27.

Significant Accomplishments during the Prior Month

- ORP reported that, despite the site posture related to the COVID-19 pandemic, it was able to execute some engineering activities to support an eventual staged restart; however, ORP also reported it was unable to do the majority of the field related activities for construction startup, and as a result, there are associated negative schedule variances (see page 26 of the June 2020 ORP Consent Decree Monthly Report for more detail).
- ORP reported the Low Activity Waste Facility at 85% complete overall, with 96% of systems that have completed construction and initiated startup testing; and 39% of those systems that have then completed startup testing and have been handed over to plant management.
- ORP reported that its contractor continues the pressurization of the firewater service system within the Low Activity Waste Facility.

Significant Planned Activities in the Next Month

Nothing reported

Issues/Other Items

None reported.

9.0 BALANCE OF FACILITIES

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the June 2020 ORP Consent Decree Monthly Report on page 29.

Significant Accomplishments during the Prior Month

- ORP reported that site paving had been initiated.

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ORP reported it had limited field activities to “min-safe” activities, due to the site posture due to the COVID-19 pandemic.

Significant Planned Activities in the Next Month

- ORP reported that site paving will continue.
- ORP reported its focus continues to be on the startup and operation of the steam plant, which will support the balance of facilities.

Issues/Other Items

- ORP reported it had previously notified Ecology that it had temporarily extended the facility boiler stacks to be able to support testing and will return the stacks to their original configuration when testing is complete.
- Ecology asked about specific progress at the Effluent Management Facility (EMF). ORP did not have that information ready, but noted that it had added a night-shift to increase productivity (not just at EMF), though still adhering to COVID-19 workspace limitations.

10.0 ANALYTICAL LABORATORY

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the June 2020 ORP Consent Decree Monthly Report on page 31.

Significant Accomplishments during the Prior Month

ORP reported all startup testing was complete and all the systems have been handed over to plant management.

Significant Planned Activities in the Next Month

ORP reported that, in general, there are several key activities planned as the facility becomes fully operational, notably in the areas of methods validation and configuration management.

Issues/Other Items

Ecology asked if ORP if there was an Operation Readiness Review or Readiness Assessment planned for the Analytical Laboratory. ORP responded that there were several key assessments that will be conducted prior to the start of cold conditioning. ORP said there would also be similar assessments for the Balance of Facilities prior to commissioning, in addition to melter heat up and steam plant commissioning readiness assessments.



THE HANFORD SITE

Office of River Protection Tri-Party Agreement

Monthly Reporting Period
June 1 – 30, 2020

Significant Past Accomplishments

- The U.S. Environmental Protection Agency, DOE, and Ecology met in the first mediated session of the holistic negotiations on June 25, 2020. This session was an opportunity for each party to express its desired outcomes from the mediation.
- As of June 2020, the draft of the River Protection Project System Plan, Rev. 9, was completed and sent out for internal ORP review.
- As of May 2020, cost and schedule development of the selected scenarios was completed, and the results were presented to Ecology representatives. Development of the River Protection Project System Plan, Rev. 9, document is ongoing.

This comment is applicable to all past accomplishments in this presentation: 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 Coronavirus Disease 2019 (COVID-19) protocols to infrastructure and facilities, required training, medical evaluations, and limited construction activities were added.

Significant Planned Actions in the Next Six Months

- Discuss disputes with regard to milestone M-062-45 and its associated milestones during “Holistic Negotiations.”
- The first working session of the holistic negotiations is expected to be scheduled the last week of July or in early August.
- Ecology and ORP will continue discussions in support of River Protection System Plan, Rev. 9, development, due October 31, 2020.

This comment is applicable to all planned actions in this presentation: Essential mission-critical operations and Phase 1 activities will continue in light of COVID-19-related restrictions and DOE’s authorization for the Hanford Site to move to Phase 1. Additional work on planning for remobilization, engineering analysis, permitting documentation development, etc. by both DOE and site contractors will progress as conditions support.

Issues

- Ecology and ORP have ended negotiations related to the M-062-45 milestone and have initiated dispute. Holistic negotiations are planned to resolve these disputes.

This comment is applicable to all issues in this presentation: 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. 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 Tri Party Agreement (TPA) and, if other actions may be necessary.

Issues

- Ecology and ORP have ended negotiations related to the M-062-45 milestone and have initiated dispute. Holistic negotiations are planned to resolve these disputes.

Significant Past Accomplishments

- The Tank-Side Cesium Removal (TSCR) system completed an acceptance test of the TSCR simulator, which included software changes made as a result of the factory acceptance testing.
- The Balance of Facilities pad conduit and structural backfill were completed, and forming work to prepare for the mud mat pour is in progress.
- The Ion Exchange Column storage pad backfill was completed, and forming work to prepare for the mud mat pour is in progress.

Significant Past Accomplishments

- Completed removal of aqueous makeup unit room in E-101 and E-104 tanks and set instrument air dryer in place.
- Completed 90 percent design for the transfer line replacement.
- Continued wall nozzle fabrication for the slurry and feed transfer line replacement.
- Completed actuator fabrication and functional testing.
- Awarded Documented Safety Analysis upgrades panel design and fire modeling contracts.
- Completed development of the 45 percent engineering design for the Documented Safety Analysis upgrades and initiated development of the 90 percent engineering design.

Significant Planned Actions in the Next Six Months

- Procure new PB-1 and PB-2 replacement pumps.
- Complete 100-percent design for transfer line replacement.
- Complete Documented Safety Analysis panel design and fire modeling.
- Complete instrument air dryer tie-in and turnover.
- Continue wall nozzle fabrication for the slurry and feed transfer line replacement.

Significant Past Accomplishments

- Total FY20 processing volume: ~1 million gallons
- Completed ETF:
 - Chiller upgrade
 - Tank repair verification
 - Ultraviolet/oxidation system upgrade detailed design review
 - Monitoring and control system upgrade detailed design review
 - Load-in station building expansion detailed design review
 - Vessel off-gas system upgrade conceptual design review
 - Redundant filtration upgrade conceptual design review
 - Dilute caustic tank vendor repair and delivered to site for installation
 - Project support for brine loadout, reverse osmosis, load-in station drain and filter, and cooling tower system upgrade
- Completed LERF Basin 41:
 - Installation final design
 - Project support for cover repair/replacement

Significant Planned Actions

- Complete ETF:
 - Final design modifications for the brine loadout system upgrade
 - Final design of the ultraviolet/oxidation system upgrade
 - Final design of the monitoring and control system upgrade
 - Final design of the redundant filtration upgrade
 - Final design of the load-in station building expansion
 - Final design of the vessel off-gas system upgrade
 - Detailed design of the supplemental organic treatment system
 - Conceptual design of the carbon dioxide membrane contactors
 - Conceptual design of the brine storage tanks
 - Conceptual design of the modular grout system
 - Conceptual design of the motor control center upgrade
 - Conceptual design of the freeze protection upgrade

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. Two options to repair/replace the LERF Basin 44 cover have been developed and issued to vendors for bid proposals.

LERF Volumes

Description	242AL-42 (Basin 42)	242AL-43 (Basin 43)	242AL-44 (Basin 44)
AZ-301 Condensate	+5,500	-	-
Mixed Waste Trench 31 and 34	+13,800	-	-
Other (SWLL)	+600	-	-
Processing Campaign(s)	-	-	-
Total Volume	2,890,000	6,473,000	612,000

Data Date: June 30, 2020

Values shown in gallons

SWLL = Solid Waste Landfill Lysimeter leachate.

Significant Past Accomplishments

- Installed a retractable corrosion monitoring probe in Tank 241-AY-101
- Completed ultrasonic testing inspections: 241-AW-102, 241-AW-101
- Completed enhanced annulus visual inspection: 241-AW-101, 241-AW-102, 241-AW-103, 241-AW-104, 241-AW-105, 241-AW-106, 241-SY-101, 241-SY-102, 241-SY-103
- Completed annulus visual inspection: AY-102 thru risers 88 & 89
- Released revision of RPP-RPT-31599, *Double-Shell Tank Integrity Inspection Report for 241- AN Tank Farm*
- Released RPP-RPT-62123, *Ultrasonic Inspection and Air Slot Visual Inspection Results* for DST 241-AW-102
- Issued contract to fabricate, test, and deliver a primary tank bottom volumetric inspection system
- Issued a competitive procurement contract to design and fabricate a tertiary leak detection inspection tool

Significant Planned Actions

- Complete Tank 241-AW-106 ultrasonic testing.

Significant Past Accomplishments

- Performed TFC-ENG-CHEM-P-57, *Intrusion Notification and Tank Leak Assessment Process*, on: 241-SX-104, 241-T-109
- Completed visual inspections of: 241-TX-101, 241-TX-102, 241-TX-104, 241-TX-107, 241-S-103, and 242-2-110, 241-BX-112, 241, BY-107, 241-SX-112, 241-TX-110, 241-BX-109, 241-B-107, 241-BX-108, 241-BX-105
- Completed work package planning for visual inspection of five miscellaneous underground storage tanks.

Significant Planned Actions

- Perform TFC-ENG-CHEM-P-57, *Intrusion Notification and Tank Leak Assessment Process*, on Tank 241-TX-113 (in progress).

Issues

- Tank 241-SX-112 was visually inspected in late February. The concrete dome was fully inspected, and there were three spots of spalled concrete in the dome. Further investigation is ongoing and a path forward is being developed. The spalling is believed to have happened before 1969, when the tank was interim stabilized. While there have been past inspections of the tank, they did not include the full dome; this is the first inspection to reflect the spalling. There is 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.

Significant Planned Actions

- Tank 241-AX-102 post-retrieval solids grab sampling is planned for August 2020.
- Tank 241-AN-106 core sampling is planned for September 2020.
- Tank 241-AN-106 liquid grab sampling is planned for September 2020.
- Tank 241-AP-107 large volume grab sampling is planned for October 2020.
- Catch Tank C-301 grab sampling is planned for December 2020.

Significant Past Accomplishments

- Best-basis inventory updates for the following tanks were completed in June 2020: 241-AX-101, 241-AY-101, 241-SX-112

Significant Planned Actions

- Best-basis inventory updates for the following tanks are currently planned to be completed in July 2020: 241-AX-103.

Significant Past Accomplishments

- Mobilized subcontract labor and equipment to start field activities on the TX Evapotranspiration Basin. Potholing initiated to identify abandoned underground utility obstructions.
- A cultural resource review was prepared and submitted for Washington State Historic Preservation Officer and tribal review in support of barriers at the TX Barrier Special Emphasis Area and National Environmental Policy Act. Based on the determination, there are no cultural resource concerns related to construction of the Evapotranspiration barrier.
- Completed clearing and grubbing, as well as pot holing, and started mass excavation on the TX Evapotranspiration Basin.
- Held M-045-56 milestone pre-meeting with Ecology, DOE, and WRPS staff on June 16, 2020.

Significant Planned Actions

- Resolve Ecology's comments on RPP-RPT-59389, RPP-RPT-59390, and RPP-RPT-58858.
- Complete mass excavation and liner installation on the TX Evapotranspiration Basin.
- Revise RPP-RPT-61684, *Maintenance and Performance Monitoring Plan*, to incorporate comments received via Ecology letter 20-NWP-106.
- Conduct the M-045-56 milestone annual meeting on July 9, 2020.

Issues

- Interagency Management Integration Team decisions for the four issues on RPP-RPT-58329, *Baseline Risk Assessment for Waste Management Area C*, have been stalled since February 21, 2019.



THE HANFORD SITE

Office of River Protection Consent Decree Monthly Report

Monthly Reporting Period
June 1 – 30, 2020

Significant Accomplishments during the Prior Month

- Essential mission-critical operations and limited onsite activities in light of restrictions relating to COVID-19. Additional work by both DOE and site contractors progressed as conditions allowed.
- On May 20, 2020, DOE authorized the Hanford Site to move to Phase 1. Hanford Site operations began Phase 1 on May 26, 2020.
- Completed shipment of one long-length equipment removal (AX-101-01B pump) to Environmental Restoration Disposal Facility.
- Completed A Tank Farm exhauster and ventilation system hot operational acceptance testing.

Significant Planned Activities in the Next Month

- Continue essential mission-critical operations and Phase 1 activities in light of restrictions related to the COVID-19 pandemic and DOE's authorization for the Hanford Site to move to Phase 1.
- Complete A Tank Farm exhaust ventilation system readiness in preparation for turnover to Operations.

Issues

- Issues available in the report

ORP/Ecology TPA and CD Agreements, Issues, and Action Items –August 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 for calendar year 2020.

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 –August 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 –August 2020 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	TF-18-10-01 18 Oct 2018	Follow up meetings for discussion and resolution of tank-side cesium removal (TSCR) related activities.	<p>Schedule a meeting to further discuss concerns related to crystalline silicotitanate (CST) compatibility with HLW glass, long term storage, ion exchange column design, potential for resolution concepts (in the early stage). ORP will schedule first meeting within the next couple of weeks.</p> <p>Additionally Ecology would like an invite to witness the tall column test.</p> <p>4-4-19: ORP expects the meeting to occur prior to the end of April. Dan will provide list of Ecology names and available dates. The meeting should be scheduled for a couple of hours. Ecology would like clarification regarding the resin extracted from the column, which is purposed to be put in the high level waste stream. Currently there is no study to validated compatibility/treatment via HLW. Clarify disposition of the physical hardware.</p> <p>30 May 2019: Meeting held on May 20th. ORP recommends closing this action.</p> <p>6 June ORP Actions</p> <ol style="list-style-type: none"> 1. Provide Ecology with a copy of the Factory Acceptance Test (FAT) test plan once released. (TARGET Completion: October 2019) 2. Provide the opportunity for Ecology to observe the FAT once the FAT has commenced. (TARGET Completion: November 2019) Updated 09/20/2019) <p>12/12/2019: Ecology has not received updated plan, ORP to provide by email</p>	Janet Diediker	Close 7-9-2020

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
2	TF-20-01-01 9 Jan 2020	Provide a status update at next month's PMM on milestone M-062-50 "Submit to Ecology as a Secondary Document, a Mass Balance Flow Sheet"		Brian Harkins	Open
3	TF-20-01-02 9 Jan 2020	ORP to set up a discussion/meeting on the completion criteria for milestone M-062-54A "Submit Permit Application for AP Tank Farm Mods and Operation Necessary to support TSCR (due July 2020). A. Pomiak should also be included in this meeting		Brian Harkins	Close 7-9-2020
4	TF-20-01-03 9 Jan 2020	Ecology to be included in discussions on how ORP is dealing with the issue of ETF not being able to handle the amount of Iodine that would be produced from DFLAW operations, and ORP's options therein. Ecology understands it is early in the process however. Their POCs for this issue are Dan McDonald and Katie Hall	On January 21, 2020, there was a briefing to Ecology/Oregon on the path forward for Iodine 129 by the Fix It Now Team. ORP recommends closing this action.(31 Jan 2020)	Richard Valle	Open
5	TF-20-02-01 13 Feb 2020	ORP to schedule a walkdown on TSCR	ECY POC is Dan McDonald	Janet Diediker	Open
6	TF-20-02-02 13 Feb 2020	ORP to send Ecology the AP-106 Repurposing Report to ECY		Brian Harkins	Open

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
7	TF-20-03-01 13 Mar 2020	Provide Ecology notice when the DST permitting plan effort begins (related to T-111?)		Brian Harkins	Open
8	TF-20-03-02 13 Mar 2020	Clarify to Ecology when the discussion on RPP-9937 will start		Brian Harkins	close 7-9-2020
9	TF-20-07-01 09 July 2020	ORP to provide 90% Evaporator Design to Ecology	Need clarification if this is a request related to a RCRA permit modification and if so which modification.	Brian Harkins	open

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1			No actions for WTP		9 July 2020

Office of River Protection
Monthly Tri-Party Agreement Project Managers Meeting
August 13, 2020

ATTENDEES

Brian Harkins, ORP
Bryan Trimberger, ORP
Jeff Rambo, ORP
Erik Olds, ORP
Rana Evans, ORP
Mary Burandt, ORP
Kaylin Burnett, ORP
Rod Lobos, ORP
Jeff Rambo, ORP
Paul Hernandez, ORP
Becky Blackwell, ORP
Jason Young, ORP

Larry Romine, ORP
Roger Szelmezcza, WRPS
Michael Turner, MSA
Stephanie Brasher, MSA
John Temple, Ecology
Steve Lowe, Ecology
Jay Decker, Ecology
Jeff Lyon, Ecology
Andrew Pomiak, Ecology
Jim Alzheimer, Ecology
Kyle Rucker, Ecology
Maria Skorska, Ecology