

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

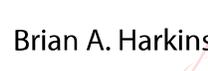
February 11, 2021

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.


Digitally signed by Brian A. Harkins
Date: 2021.03.10 06:53:22 -08'00'

Brian Harkins, Project Manager
DOE-ORP

Date: _____

(Not in Attendance)
Jason Young, Project Manager
DOE-ORP

Date: _____


Digitally signed by WAHED ABDUL
Date: 2021.03.10 08:24:46 -08'00'

Wahed Abdul, Project Manager
DOE-ORP

Date: _____


Digitally signed by Lyon, Jeffery (ECY)
Date: 2021.03.15 07:57:33 -07'00'

Jeff Lyon, Project Manager
Washington State Department of Ecology

Date: _____


Digitally signed by Decker, Jay (ECY)
Date: 2021.03.10 14:40:36 -08'00'

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

Date: _____


Digitally signed by Temple, John (ECY)
Date: 2021.03.11 12:13:11 -08'00'

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

**SPECIAL NOTE: The Tank Farms/TPA meeting featured the addition of several new action items (which are captured below). As a result of lengthy discussion on those items, and because of the time allotted for the meeting, there were minimal status updates. For more detailed project updates, please see the Office of River Protection Tri-Party Agreement and Consent Decree monthly reports for the period of December 1 – December 31, 2020.*

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 March 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 December 1 – December 31, 2020, were entered into the Hanford Administrative Record on January 27, 2021.

Tri-Party Agreement Milestone Status

ORP stated all Tri-Party Agreement (TPA) milestones reported on were either Complete, On Schedule or In Dispute Resolution (for details on specific milestones, see pages 3-6 of the December 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 – February 2021 Meeting."

Action No. 1 (TF-20-02-02): Ecology confirmed receiving information on the tank AP-106 repurposing, and agreed to close the action. *The action was closed.*

Action No. 2 (TF-20-10-01): There was no status update/change. Ecology will work with ORP to find time for a meeting/briefing. *This action remains open.*

Action No. 3 (TF-20-10-02): There was no status update/change. Ecology will work with ORP to find time for a meeting/briefing. *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. Ecology recommitted 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-20-12-01): ORP provided a briefing as part of a groundwater meeting in 2020. Ecology agreed that the action could be closed. *The action was closed.*

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

Action No. 7 (TF-20-12-02 – noted as #9 on attachment): ORP noted that meetings had been held on this subject, which Ecology acknowledged and agreed would close the action. *The action was closed.*

Action No. 8 (TF- 20-12-03 – noted as #10 on the attachment): Ecology acknowledged receiving information from ORP on the A farm infrastructure and agreed the action could be closed. *The action was closed.*

New Actions

The following were introduced as new actions and will be formally numbered by the March 11, 2021 ORP Project Managers Meeting.

- Ecology requested a 'dry run' meeting for a proposed informational meeting with Tribes regarding the upcoming SST/WMA-C RCRA closure permitting Actions. ORP was also asked to provide a target date for a proposed public informational workshop briefing on permitting activities associated with WMA-C closure, which will take place prior to formal public comment. ORP will also identify a date for a proposed dry-run of this meeting. Ecology proposed an August 2021 target for the dry-run, but ORP stated it will have a better estimate on that date after discussions with the DOE and Ecology permitting groups.
- ORP was asked to provide Ecology a status on when it will be submitting the remaining draft addenda (specifically Addendum J) in support of the Part V Closure Units, Single-Shell Tank System Closure Unit Group Permit modification. ORP noted that there was an upcoming workshop on this topic. Ecology asked that ORP provide an update at the Project Manager's Meeting following the workshop.
- ORP was asked to provide Ecology with its concept for the submittal of the WMA-A/AX Performance Assessment (i.e. one volume or more), and if ORP will be proposing TPA milestones for this (or these) submittals, per Section 2.5 of the TPA. ORP questioned the need for milestones, but agreed to discuss.
- Regarding letter 21-TF-00357 (subject: WMA-A/X Integration Study Outline), Ecology asked ORP to provide Ecology more details on the statement, "information required to complete many of the sections identified by Ecology for inclusion will not be available". ORP responded that the issues stemmed mainly from the as-yet-determined WMA A/AX boundary, but agreed to provide Ecology with more details.
- Ecology would like to elevate the WMA-A/X Integration Study to the TPA Interagency Management Integration Team (IAMIT). ORP noted that the WMA-A/AX boundary issue was already a topic on the IAMIT agenda, but if Ecology wanted to also include the WMA-A/AX Integration Study, ORP suggested Ecology author and share with ORP, a white paper outlining its issues with both the boundary and the integration study, prior to it being elevated to the IAMIT.
- Ecology would like to expand the length of the monthly ORP TPA Project Manager Meeting to include more on-the-record discussion. (Note: ORP TPA Project Manager

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

Meeting minutes are signed by the parties, unlike other meetings.) ORP agreed to discuss the issue further.

- Ecology requested an update on RPP-9937 (“Single Shell Tank System Leak Detection and Monitoring Functions and Requirements”). ORP agreed to provide an update.
- Ecology would like information regarding mitigation actions taken, and planned to be taken, after DST 241-AY-102 was declared a leaking/unfit tank. ORP responded that it had submitted a plan as part of documentation that it had retrieved the waste from tank. Also that the tank would be remediated, cleared, cleaned, and closed as part of the AY/AZ farm closure process. Further, ORP stated, it was not practical for it to take any further actions than have been done, other than continue to monitor that tank. Ecology asked for the specific documentation ORP referenced. ORP agreed to provide that documentation.
- Ecology offered two draft TPA Change Control Forms to a) Require Ground Water Monitoring Plans (GWMP’s) for all of the Waste Management Areas (WMAs) in the Single Shell Tank (SST) System, for incorporation into the RCRA Rev 8C Site-wide permit and, b) Deletion of milestone M-045-62 for submittal of a Tier 3 closure plan to implement the Phase 2 Corrective Measures Implementation Work Plan (CMIP). ORP commented that some of the scope and proposed changes would be more aptly conducted by DOE-RL, under the existing groundwater milestone series. ORP also asked Ecology what impacts might result from the foregoing of the CMIP. ORP and Ecology agreed to discuss this further during an upcoming ORP Project Managers Meeting, or in the case of the groundwater change control form, the applicable TPA Project Managers Meeting.

2.0 SYSTEM PLAN

Significant Past Accomplishments

- No update provided

Significant Planned Actions in the Next Six Months

- No update provided

Issues/Other Items

- None

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

Significant Past Accomplishments

- No update provided

Significant Planned Actions in the Next Six Months

- No update provided

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Issues/Other Items

- None

4.0 TANK-SIDE CESIUM REMOVAL SYSTEM

Significant Past Accomplishments

- ORP reported that the last concrete pour at TSCR is complete and the shield walls are up.
- ORP reported that the Ion-Exchange Forklift path is complete.

Significant Planned Actions in the Next Six Months

- Testing on the Ion-Exchange Columns is projected to begin in August 2021, and the acceptance of actual tank fluid possibly by December 2021.

Issues/Other Items

- None

5.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments

- No update provided

Significant Planned Actions in the Next Six Months

- No update provided

Issues/Other Items

- None

6.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY

Significant Past Accomplishments

- ORP reported on the Basin 44 cover replacement, noting that it had gone through a very methodical process to figure out what the composition of the solid material in the basin, and its level of radioactivity. Readings came back favorable, and ORP expects to be able to proceed with the cover replacement this spring/summer.

Significant Planned Actions in the Next Six Months

- ORP reported ETF will begin a planned outage.

Issues/Other Items

- None

7.0 TANK SYSTEM UPDATE

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

7.1 Double-Shell Tank Integrity

Significant Past Accomplishments

- No update provided.

Significant Planned Actions in the Next Six Months

- No update provided.

Ultrasonic Testing Report Status

- No update provided.

Issues/Other Items

- None

7.2 Single-Shell Tank Integrity

Significant Past Accomplishments

- No update provided

Significant Planned Actions in the Next Six Months

- No update provided

Issues/Other Items

- Ecology asked about the status of the Tank 241-B-109 Leak Assessment Report. ORP responded that it expected the report to be released soon.

8.0 IN-TANK CHARACTERIZATION AND SUMMARY

8.1 Reports Completed or Released

- No update provided.

8.2 Tank Sampling

Significant Past Accomplishments

- No update provided.

Significant Planned Actions in the Next Six Months

- No update provided.

Issues/Other Items

- None

8.3 Best-Basis Inventory Updates

Significant Past Accomplishments

- No status updated was provided.

**OFFICE OF RIVER PROTECTION TRI-PARTY AGREEMENT/CONSENT
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Significant Planned Actions in the Next Six Months

- No status updated was provided.

Issues/Other Items

- None

9.0 SINGLE-SHELL TANK CLOSURE PROGRAM

Significant Past Accomplishments

- ORP reported that the TX Evapotranspiration Basin work is complete, and that the transfer pipe between the tank farm and the basin is installed.

Significant Planned Activities in the Next Six Months

- No update provided.

Issues/Other Items

- None

11.0 TANK OPERATIONS CONTRACT OVERVIEW

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

12.0 DIRECT FEED LAW UPDATE

- No update was provided.

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 2-4 of the ORP December 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 February 2021 Meeting."

Action Items

Action No. 1 (WTP-21-1-01): ORP and Ecology continue to discuss verification and whether a meeting or a walkdown of the LAW Facility (or both) will close this action. *The action remains open.*

2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Significant Past Accomplishments

- ORP reported that on tank 241-AX-104 retrieval there had been roughly four transfers where waste was moved and the tank sluiced, and or was re-circulated for a length of time and then transferred out. After these actions, ORP did not see any increase in specific tank gravity. In addition, the dose rate on the material moving from or out of the tank is very minimal. ORP is now evaluating whether it has met the limits of retrieval technology for two technologies.

Significant Planned Actions in the Next Six Months

- No update provided

Issues/Other Items

- None

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 activity.

4.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

As a general overview of the project, ORP reported the project is adapting to Covid-19 protocols and startup testing completion percentages continue to rise, while the site remains in Phase II. ORP also noted that WTP HLW Treatment Analysis of Alternatives (AoA) team continues working and has added a new scenario.

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Project Schedule and Cost Variance Performance

The earned value data can be viewed in the December 2020 ORP Consent Decree Monthly Report on page 19

Issues/Other Items

- Ecology asked about a rebaseline of the project to accommodate for lost schedule due to impacts from the Covid-19 site slowdown. ORP projected that it would begin reporting on the new baseline in March 2021.

5.0 PRETREATMENT FACILITY

Project Schedule and Cost Variance Performance

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

Significant Accomplishments during the Prior Month

ORP reported it had completed vendor negotiations for termination of two additional priority two purchase orders (for a total of 15 of 37) that have been in suspension, to reduce the procurement liabilities

Significant Planned Activities in the Next Month

- 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

6.0 HIGH-LEVEL WASTE FACILITY

Project Schedule and Cost Variance Performance

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

Significant Accomplishments during the Prior Month

- ORP reported it successfully completed the feasibility assessments for the emergency operational management approach to support the increased ashfall criteria to reduce the potential cost impact to the project significantly. ORP has briefed the Defense Nuclear Facilities Safety Board on this topic, with no feedback from them to date.

Significant Planned Activities in the Next Month

- ORP reported it will continue activities to formalize the path forward for the updated (increased) ashfall criteria.

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- ORP reported for fiscal year 2020, it is planning for four systems to have a 60% design review completed, and four systems to have a 90% design review completed.

Issues/Other Items

- None

7.0 LOW-ACTIVITY WASTE FACILITY

Project Schedule and Cost Variance Performance

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

Significant Accomplishments during the Prior Month

- ORP reported an increased percentage in the start-up testing complete rate, at 40%, as of November 2020.

Significant Planned Activities in the Next Month

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

Issues/Other Items

- None

8.0 BALANCE OF FACILITIES

Project Schedule and Cost Variance Performance

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

Significant Accomplishments during the Prior Month

- ORP reported The Startup organization completed handover of the glass former storage system to the Plant Management organization for operations; and
- Construction completed handover of the remaining EMF systems to the Startup organization for testing.

Significant Planned Activities in the Next Month

- Nothing reported

Issues/Other Items

- None

9.0 ANALYTICAL LABORATORY

Project Schedule and Cost Variance Performance

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

Significant Accomplishments during the Prior Month

- DOE approved completion of contract milestone for “LAB Readiness to Operate.”

Significant Planned Activities in the Next Month

- Nothing reported

Issues/Other Items

- Ecology asked if ORP knew the last “gate” or date for LAB’s readiness to operate. ORP replied it is still assessing that date as is still aligning with the integration with DFLAW.

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

Agreements:

1. Per an Ecology standing request (4/21/2016), ORP agrees to include any written directives given by DOE to the contractors for work required by the CD in future quarterly CD Reports (see CD Section IV-C-1-e).
2. The ORP and Ecology PMs have developed, signed, and entered an outline for the CD Tank Completion Certification into the TPA Administrative Record. A briefing to senior management will occur if any follow-on actions arise.
3. Ecology and ORP have agreed to move the TPA/CD PMM meeting to the second Thursday of the month starting in December 2019. The TPA and CD monthly reports distribution will occur by the end of each month via link to the Admin Record. Ecology requested at the December 2019 meeting that this form be included with the email that includes the links to the monthly reports. This will be the format for report distribution and monthly meetings going forward.

Issues:

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

¹ Washington State Department of Ecology

² Environmental Protection Agency

³ Resource Conservation & Recovery Act

⁴ RCRA Facility Investigation

⁵ Corrective Measure Study

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

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

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

⁶ 1984 Hazardous and Solid Waste Amendments

⁷ Applicable or Relevant and Appropriate Requirements

⁸ Treatment, Storage, and/or Disposal

ORP/Ecology TPA and CD Agreements, Issues, and Action Items – February 2021 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-20-12-01 10-Dec-20	ORP to schedule meeting with Ecology to discuss Tribal involvement/workshops on the			Open

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
		Waste Management Area C Closure Plan			
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 – February 2021 Meeting

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	WTP-21-1-01 14-Jan-20201	Setup meeting to discuss LAW Construction Complete Verification		Wahed Abdul	OPEN



THE HANFORD SITE

Office of River Protection Tri-Party Agreement

Monthly Reporting Period
December 1 – 31, 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. There was one negotiation session held in December.
- 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 Negotiation” 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

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

Significant Planned Actions in the Next Six Months

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

Issues

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

Significant Past Accomplishments

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

Significant Past Accomplishments

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

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 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.

Significant Past Accomplishments (continued)

- 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.

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

- 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 was 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 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.

Significant Planned Actions

- 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.
- 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

- 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.

LERF Volumes

Description	242AL-42 (Basin 42)	242AL-43 (Basin 43)	242AL-44 (Basin 44)
AZ-301 Condensate	-	-	-
Mixed Waste Trench 31 and 34	+ 2,000	-	-
Other ¹	-	-	-
Processing Campaign(s)	- 897,000	-	-
Total Volume	1,631,000	6,518,000	768,000

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 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

- 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

- 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.

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

- 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

- 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. 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.

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 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.

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

- 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.

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 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 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.

Significant Past Accomplishments (continued)

- 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 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.
- Formally award construction subcontract for TX Tank 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
December 1 – 31, 2020

Significant Accomplishments during the Prior Month

- Completed Tank AX-104 readiness activities.
- Started Tank AX-104 waste retrieval operations.
- Installed Tank AX-103 03B pit sluicer.

Ongoing Activities

- Work continued on the development of a Tank AX-102 third retrieval technology practicability evaluation. The alternative mechanical retrieval options study was completed, 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.
- Continue AX-104 waste retrieval operations.

Ongoing Activities (continued)

- 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

- Install the AX-103 03D pit sluicer.

Issues

- Issues available in the report.

Office of River Protection
Monthly Tri-Party Agreement Project Managers Meeting
February 11, 2021

ATTENDEES

Brian Harkins, DOE-ORP
Wahed Abdul, DOE-ORP
Briana Lindberg, DOE-ORP
Rod Lobos, DOE-ORP
Paul Hernandez, DOE-ORP
Ricky Bang, DOE-ORP
Glyn Trenchard, DOE-ORP
Erik Nelson, DOE-ORP
Ricky Bang, DOE-ORP
Craig Whiteley, DOE-ORP
Mike Cline, DOE-RL
Gordon Warwick, WRPS
Dan Parker, WRPS
Maria Lopez, WRPS
Robin Varljen, WRPS
Eric Van Mason, WRPS

Michael Turner, HMIS
Stephanie Brasher, HMIS
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