

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

July 9, 2020

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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: 2020.08.10 08:16:17 -07'00'

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Brian Harkins, Project Manager  
DOE-ORP

Date: \_\_\_\_\_

 Digitally signed by Jason Young  
Date: 2020.09.16 13:57:45 -07'00'

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Jason Young, Project Manager  
DOE-ORP

Date: \_\_\_\_\_

Not in attendance

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Wahed Abdul, Project Manager  
DOE-ORP

Date: \_\_\_\_\_

 Digitally signed by Lyon, Jeffery (ECY)  
Date: 2020.09.17 12:48:31 -07'00'

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Jeff Lyon, Project Manager  
Washington State Department of Ecology

Date: \_\_\_\_\_

 Digitally signed by Decker, Jay (ECY)  
Date: 2020.09.16 16:14:40 -07'00'

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Dan McDonald, Project Manager  
Washington State Department of Ecology

Date: \_\_\_\_\_

Not in attendance

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John Temple, Project Manager  
Washington State Department of Ecology

Date: \_\_\_\_\_

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

**TERMS**

BBI	Best-basis inventory
BOF	Balance of Facilities
CD	Consent Decree
CD-3B	critical decision
CERCLA	<i>Comprehensive Environmental Response, Compensation and Liability Act</i>
DFLAW	direct feed low-activity waste
DOE	U. S. Department of Energy
DSA	Documented Safety Analysis
DST	double-shell tank
Ecology	Washington State Department of Ecology
EIS	Environmental Impact Statement
EM-1	DOE Office of Environmental Management, Assistant Secretary
EMF	Effluent Management Facility
EPA	U.S. Environmental Protection Agency
ERSS	Extended Reach Sluicer System
ETF	Effluent Treatment Facility
EVMS	earned value management system
FY	fiscal year
IAMIT	Inter-agency Management Integration Team
IMUST	Inactive Miscellaneous Underground Storage Tanks
IQRPE	Independent Qualified Registered Professional Engineer
LAW	Low-activity waste
LBL	LAW Facility, Balance of Facilities and Lab
LERF	Liquid Effluent Retention Facility
MUST	Miscellaneous Underground Storage Tank
ORP	U. S. Department of Energy, Office of River Protection
PA	Performance Assessment
PMM	project manager meeting
POC	Point of contact
PT	Pretreatment
RAD	Radiation absorbed dose
RCRA	<i>Resource Conservation and Recovery Act</i>
SST	single-shell tank
TC&WM	Tank Closure and Waste Management
TPA	Tri-Party Agreement
TSCR	tank-side cesium removal
TWRWP	tank waste retrieval work plan
UT	Ultrasonic Test
WMA-C	Waste Management Area C
WRPS	Washington River Protection Solutions LLC
WTP	Waste Treatment and Immobilization Plant

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

## 1.0 ADMINISTRATIVE ITEMS/MILESTONE STATUS/ACTIONS

### Upcoming Meetings

The next U.S. Department of Energy-Office of River Protection (ORP) Tri-Party Agreement Project Managers' meeting is scheduled for August 13, 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 May 1- May 31, 2020, were entered into the Hanford Administrative Record on June 23, 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 May 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 – July 2020 Meeting."

**Action No. 1 (TF-16-11-04):** This action *was closed* on March 12, 2020.

**Action No. 2 (TF-18-10-01):** Ecology acknowledged it attended the Factory Acceptance Testing (FAT), and agreed the action could be closed. ORP also noted there is a change in project managers for the Tank-side Cesium Removal project, with Janet Diediker replacing Steve Pfaff. *The action will be closed.*

**Action No. 3 (TF-20-01-01):** ORP indicated it was still working on this action. *The action remains open.*

**Action No. 4 (TF-20-01-02):** ORP reported it had met this milestone (M-062-54A), and asked that the action be closed. Ecology offered no objection. *The action will be closed.*

**Action No. 5 (TF-20-01-03):** ORP reported it had met interim deliverables on this action: one characterization of waste constituents important to ETF waste constituents important to Low Activity Waste processing, the other, characterization of waste, constituents important to Effluent Treatment Facility (ETF) processing. ORP also reported its contractor is making progress on the rough draft for the feed uncertainty report. ORP further reported that, despite the site shutdown for the COVID-19 pandemic, it was still on schedule to complete the preliminary ETF waste acceptance criteria draft for review. Ecology asked that it be kept abreast of activities. ORP committed to continuing to do so. There was also discussion that this action be moved to the Waste Treatment Plant action items. *The action remains open.*

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**Action No. 6 (TF-20-02-01):** ORP stated that the current Hanford site posture due to the COVID-19 pandemic would preclude a walk-down of the TSCR system. A walk-down may be possible when the site progresses to the Phase II posture. *The action remains open.*

**Action No. 7 (TF-20-02-02):** ORP reported it would check to see if the AP-106 Repurposing Report had been issued to Ecology. *The action remains open.*

**Action No. 8 (TF-20-03-01):** There was some confusion on this action, which originated in the March 2020 ORP Project Manager meeting. The parties indicated they would seek to clarify the intent. *The action remains open.*

**Action No. 9 (TF-20-03-02):** Ecology reported there had been a series of meetings on this issue and agreed that the action could be closed. *The action will be closed.*

## OPENING STATEMENT:

ORP opened the meeting by reporting that several operations had been impacted by the COVID-19 pandemic and the resulting shutdown of all non-essential operations on the Hanford site in mid-March 2020. ORP stated that the site was now in limited operations mode, or Phase I, as directed by the Department of Energy. In Phase I, some non-essential operations have been allowed to proceed, but the majority of fieldwork has been put on hold. ORP also noted that teleworking by non-essential employees continues and that a possible authorization to move to Phase II could come by the third week in July, but that was entirely dependent on the number of COVID-19 cases being reported in the region. ORP also noted that the pandemic will have wide-ranging impacts in other areas, such as supply chain, and in particular, retrieval equipment that has been sitting in tank 241-AX-104 since the shutdown and would need to be assessed regarding further use.

## 2.0 SYSTEM PLAN

ORP reported the System Plan 9 report had been submitted to Ecology in September 2019, and as of May 2020, Ecology had concurred with the selected cost and schedule scenarios. ORP also reported that talks continue with Ecology on the selected scenarios in support of the October 31, 2020 TPA milestone due date. Under "Issues": ORP noted that TPA negotiations on System Plan 8 had ended and remaining topics and/or disputed milestones associated with the System Plan 8 are expected to be discussed in the "Holistic Negotiations" between DOE and the State of Washington.

## 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.

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## 4.0 SUPPLEMENTAL TREATMENT AND PART B PERMIT APPLICATIONS

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

## 5.0 LOW-ACTIVITY WASTE PRETREATMENT SYSTEM

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

## 6.0 TANK-SIDE CESIUM REMOVAL SYSTEM

### Significant Past Accomplishments

ORP reported that Tank-Side Cesium Removal (TSCR) system factory acceptance testing was satisfactorily completed at the end of March 2020. ORP submitted the agreed-upon resolution to all Ecology comments and submitted the updated TSCR permit application on April 24, 2020. This submittal also contained all of the necessary information to complete TPA milestone M-062-54A. In response to a question from Ecology regarding fieldwork being completed during the COVID-19 site shutdown, ORP reported that the excavation and the conduit runs for the TSCR pad and the exchange column pad had been completed, and in doing so, the excess dirt was used to build a lay down area for the hose-in-hose transfer lines that are to be installed. ORP also reported that the TSCR "mud mat" for concrete had been poured as of the meeting today.

### 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

ORP cited the ongoing issue of the Hanford Ambient Air Boundary and its potential impact on TSCR permitting for air emissions (which will be vented to the AP Tank Farm). ORP also reported, however, that DOE and Ecology were close to an agreement in principle which would establish a new site ambient air boundary.

## 7.0 242-A EVAPORATOR STATUS

### Significant Past Accomplishments

ORP reported it had:

- replaced filtered raw water sock filter assembly;
- removed supernate jumper 13 – 13A and installed process blanks on exposed nozzles;

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- initiated replacement of instrument air dryer and removal of aqueous makeup unit room Tanks E101 and E104;
- initiated dismantlement of obsolete tanks for air dryer installation;
- continued wall nozzle fabrication for slurry and feed transfer line replacement;
- completed actuator fabrication and initiated functional testing;
- awarded Documented Safety Analysis (DSA) upgrades panel design and fire modeling contracts;
- developed the 45% engineering design for the DSA upgrades; and that
- operations and progress have been impacted by the COVID-19 pandemic and resulting site shutdown.

### **Significant Planned Actions in the Next Six Months**

- Procure new PB-1 and PB-2 replacement pumps.
- Complete 100% design for transfer line replacement.
- Complete Documented Safety Analysis panel design and fire modeling.
- Operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

### **Issues/Other Items**

Ecology asked if the 100% design review for the transfer line replacement would be complete by August 27, 2020. ORP verified that it would.

Ecology said a constituent had asked it when ORP would restart the 242-A Evaporator. ORP responded by noting it had sent Ecology a detailed email on the schedule, but reiterated that the Evaporator would undergo a Readiness Assessment in fiscal year 2021 that would run until late fiscal year 2022 or possibly early fiscal year 2023. The Readiness Assessment will consist of a line assessment, where the operating organization verifies that the systems are ready to operate and all training is current and complete. The organization then declares readiness. At that point, a readiness assessment team, which is independent from the organization, will verify that the facility is ready to safely start up and operate, verify that staff are trained and qualified, and that systems and maintenance are also ready to operate safely. The State of Oregon asked if a “cold run” would be performed this year, to which ORP replied that none were planned, unless one were needed for testing. Ecology followed up with a question on whether a cold run would be part of the Readiness Assessment. ORP responded, saying that a cold run could be part of a Readiness Assessment, but unlike cold runs in the past – which were done to maintain staff proficiency – a Readiness Assessment is much more detailed, so a cold run could be part of the Readiness Assessment, but a cold run to maintain the staff’s annual proficiency will not be done and will be replaced with by the more robust Readiness Assessment. The State of Oregon asked if this would be considered an Operational Readiness Review (ORR). ORP replied that it would not, saying that a Readiness Assessment is more tailored to specific systems, where an ORR is considered facility-wide. ORP said that it was taking the approach of doing a Readiness Assessment because it seemed prudent with a pending contractor change and the break from continuous operations due to the COVID-19 pandemic.

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Ecology asked a question regarding a recent ORP permit modification request for the tie-in to the backup for the effluent line coming from the Waste Treatment Plant (WTP) into the PC 5000 lines. The purpose of that permit modification was to drill for the connection to WTP to be made and that the line could be leak tested. Ecology asked if the testing had been completed. ORP responded that the testing had not been completed yet, due to the site shutdown from the COVID-19 pandemic.

## **8.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY**

### **Significant Past Accomplishments**

ORP reported the following:

- Operations have been impacted by the COVID-19 pandemic and resulting site shutdown.
- Total FY20 processing volume: approximately 1 million gallons
- Completed fieldwork for ETF chiller upgrade. Due to increasing temperatures, ORP granted approval for work to be performed during COVID-19 essential mission critical operations.
- Completed 30% design review for ETF vessel off-gas system upgrade.
- Completed 30% design review for ETF redundant filtration upgrade.
- Continued fabrication and procurement activities for ETF reverse osmosis system upgrade.
- Continued design of modifications for ETF brine load-out system.
- Continued work package planning for LERF Basin 44 cover repair/replacement.

### **Significant Planned Actions in the Next Six Months**

ORP reported the following:

- Operations have been impacted by the COVID-19 pandemic and resulting site shutdown.
- Complete design modifications for ETF brine load-out system upgrade.
- Complete design of ETF ultraviolet/oxidation system upgrade.
- Complete design of ETF monitoring and control system upgrade.
- Complete design of LERF Basin 41 installation.
- Complete design of ETF redundant filtration upgrade.
- Complete design of ETF load-in station building expansion.
- Complete design of ETF vessel off-gas system upgrade.
- Complete design of ETF supplemental organic treatment system.
- Begin design of ETF carbon dioxide membrane contactors.
- Begin design of ETF brine storage tanks.
- Begin design of ETF modular grout system.
- Begin design of ETF motor control center upgrade.
- Begin design of ETF freeze protection upgrade.

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- Operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

## Issues/Other Items

ORP noted that the repair of the ETF dilute caustic tank (noted in the accompanying slides under "Issues") was now complete. ORP also reported that there would be a meeting today with Ecology to discuss the path forward on the Basin 44 cover replacement.

## **9.0 TANK SYSTEM UPDATE**

### **9.1 Double-Shell Tank Integrity**

#### Significant Past Accomplishments

ORP noted the status of the following activities:

- Operations have been impacted by the COVID-19 pandemic and resulting site shut down.
- Installed retractable corrosion monitoring probe: 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*, which includes FY19 visual inspection results.
- Issued a contract to fabricate, test, and deliver a primary tank bottom volumetric inspection system to be deployed into the annulus of DST and used to characterize regions of the primary tank bottom.
- Issued a competitive procurement contract to a vendor to design and fabricate a tertiary leak detection inspection tool for deployment beneath the secondary liner of a DST.

#### Significant Planned Actions in the Next Six Months

- Operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

## Issues/Other Items

- Operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

### **9.2 Single-Shell Tank Integrity**

#### Significant Past Accomplishments

- Operations have been impacted by the COVID-19 pandemic and resulting site shut down.
- Performed TFC-ENG-CHEM-P-57, Intrusion Notification and Tank Leak Assessment Process, on: 241-SX-104, and 241-T-109.

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- 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.
- Initiated work package planning for visual inspection of 5 miscellaneous underground storage tanks.

### Significant Planned Actions in the Next Six Months

- Operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

### Issues/Other Items

- 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.
- Operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

## 10.0 IN-TANK CHARACTERIZATION AND SUMMARY

### 10.1 Reports Completed or Released

ORP completed six reports and released one. For details, please refer to page 25 of the May 2020 TPA monthly report.

### Issues/Other Items

- 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.
- Operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

### 10.2 Tank Sampling

### Significant Past Accomplishments

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- ORP reported that operations have been impacted by the COVID-19 pandemic and resulting site shut down.

## **Significant Planned Actions in the Next Six Months**

- ORP reported that operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

## **Issues/Other Items**

- ORP reported that operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

## **10.3 Best-Basis Inventory Updates**

### **Significant Past Accomplishments**

- Best-basis inventory updates for the following tanks were completed in May 2020: 241-A-105, 241-AN-102, 241-AX-104, 241-C-105, 241-SX-104, 241-TY-104.
- ORP reported that operations have been impacted by the COVID-19 pandemic and resulting site shut down.

### **Significant Planned Actions in the Next Six Months**

- ORP reported that operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

### **Issues/Other Items**

- ORP reported that operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

## **11.0 SINGLE-SHELL TANK CLOSURE PROGRAM**

### **Significant Past Accomplishments**

ORP reported the following completed activities:

- Analysis of the Tank 241-C-106 in-tank videos have yielded the Camera/Computer Aided Design Modeling System volume estimate of 285.98 cubic feet, actual volume(calculation) 316.66 cubic feet, and 95 percent upper confidence level 334.92 cubic feet.
- 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,

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there are no cultural resource concerns related to construction of the Evapotranspiration barrier.

- ORP reported that operations have been impacted by the COVID-19 pandemic and resulting site shut down.

## **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.
- ORP reported that operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

## **Issues/Other Items**

ORP noted the following 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 the February 21, 2019 meeting. (NOTE: this issue has been resolved).
- ORP formally initiated the TPA dispute resolution process with Ecology over Ecology's "Denial of Request for Waiver for TPA Waste Retrieval Criteria for SST 241-C-106" (C-106). A Director's Determination by the Director of Ecology was made on June 26, 2019 (19-NWP-101). ORP appealed the Director of Ecology's determination to the Pollution Control Hearings Board (PCHB) on July 26, 2019. The parties participated in mediation on October 28, 2019. The parties were unable to successfully negotiate and resolve the appeal on October 28, but have agreed to one additional negotiation meeting in November 2019. The hearing in this appeal is scheduled for July 28, 2020. New in-tank videos were obtained in November 2019 and a new CCMS evaluation was performed. (NOTE: this issue has been resolved. The PCHB has dismissed the appeal on April 7, 2020. No further action is planned and tank C-106 has been deemed "retrieved").
- ORP reported that operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

ORP reported that it had received Ecology letter 20-NWP-062, and is under the assumption that Ecology is supplementing its regulatory role with contractor expertise. As such, ORP wanted to document that ORP had provided Ecology numerical input files to facilitate Ecology's review, um, and it was formally asking Ecology to communicate a plan or schedule for the contractors review at the TPA project manager meetings. ORP also stated that it expected that Ecology will communicate any impacts from the review that it was having its contractor do to any TPA milestones or any milestones that are under negotiation. Ecology agreed to do so.

## **12.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM**

### **Significant Past Accomplishments**

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

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## **Significant Planned Activities in the Next Six Months**

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

## **Issues**

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

## **13.0 TANK OPERATIONS CONTRACT OVERVIEW**

The earned value data can be viewed in the May 2020 ORP TPA Monthly Report on pages 34-38-42 (data reflects end of April 2020).

### **WBS 5.01 – Base Operations**

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

### **WBS 5.05 – Treat Waste**

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

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## 1.0 CONSENT DECREE MILESTONES/ADMINISTRATIVE ACTIONS

### Consent Decree Milestones

ORP reported milestones as On Schedule, At Risk, or Under Analysis (see pages 3-4 of the ORP May 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 May 2020 Consent Decree Monthly Report.

### Significant Accomplishments during the Prior Month

- ORP reported the following accomplishments:  
Essential mission-critical operations and limited onsite activities in light of COVID-19-related restrictions. Additional work on planning for remobilization, engineering analysis, permitting documentation development, etc. by both DOE and site contractors progressed as conditions allowed.
- Completed shipment of two long-length equipment removals (AX-01- 01D pump and A-03 saltwell screen) to Environmental Restoration Disposal Facility.
- On May 20, 2020, DOE authorized the Hanford Site to move to Phase 1. Hanford Site operations began Phase 1 on May 26, 2020 – essential mission-critical operations were continued and targeted mobilization and low-risk work scope, such as implementation of COVID-19 protocols to infrastructure and facilities, required training, medical evaluations, and limited construction activities were added.

### Significant Planned Activities in the Next Month

ORP reported the following planned activities:

- Essential mission-critical operations and Phase 1 activities will continue in light of restrictions related to the COVID-19 pandemic 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.
- Complete A Tank Farm exhauster ventilation system hot operations acceptance testing and miscellaneous construction punch list activities.
- Note: This was accurate as of the end of the reporting period, but due to changes in Phase 1 work posture decisions, this activity will be delayed.

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## Issues/Other Items

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

*(NOTE: This applies to all ORP work, but the question was asked at this point in the meeting and again during the Consent Decree portion.)* Ecology asked if ORP had begun work on an overall integrated, multi-level schedule to account for the impacts caused by the COVID-19 pandemic partial site shutdown, notably in the startup of Direct-Feed Low Activity Waste and supporting activities. ORP responded that it did not, as of now, because there is no forecasted end to the Phase I site work posture caused by the pandemic. ORP did say, however, that the site would apply to enter Phase II (with more personnel allowed on site), but that was entirely based on the local and regional COVID-19 case rate. As such, ORP has been planning for the first two weeks of Phase II, but not beyond that. As for the Waste Treatment Plant and associated work, ORP said it had not put together a multi-level schedule for operations when the site is approved for Phase II, but the project has been working closely with its contractor to focus on items that can be done via teleworking, and had identified several improvements and efficiencies while fieldwork was paused. ORP stated that a reasonable guess for when a true schedule for a path forward could be produced would most likely be the end of the calendar year.

## **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 May 2020 ORP Consent Decree Monthly Report on page 11.

## **5.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT**

### Project Schedule and Cost Variance Performance

The earned value data can be viewed in the May 2020 ORP Consent Decree Monthly Report on page 18. ORP reported a negative schedule variance of \$12.3m, due in most part to the COVID-19 pandemic site shutdown.

## **6.0 PRETREATMENT FACILITY**

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ORP reported that the focus at the pretreatment facility was on asset preservation and maintenance, though work is hampered by the COVID-19 pandemic, primarily in trying to reach the various subcontractors.

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

### **Significant Accomplishments during the Prior Month**

Design activities and hazard analysis for the key mechanical and process systems continue.

### **Significant Planned Activities in the Next Month**

See page 23 of the May 2020 ORP Consent Decree Monthly Report for a full listing.

### **Issues/Other Items**

None reported.

## **8.0 LOW-ACTIVITY WASTE FACILITY**

### **Project Schedule and Cost Variance Performance**

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

### **Significant Accomplishments during the Prior Month**

ORP reported that the implementation of daily meetings and four-week look-aheads are proving value as the project progress, notably in resource allocation. ORP also reported:

- Completed handover of the radiological personnel monitoring system (RPJ-L-01) to the Plant Management organization.
- Completed turnover of the safety component portion of the C3 ventilation system (C3V-L-02) to the Startup organization for testing.
- Completed turnover of the safety component portion of the LAW Facility vessel vent system (LVP-L-03) to the Startup organization for testing.
- Initiated pressurization of the LAW Facility fire water service system.
- Continued punch list resolution and preparations for LAW Facility system testing where possible via telework.

### **Significant Planned Activities in the Next Month**

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

- ORP reported that operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

## 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 May 2020 ORP Consent Decree Monthly Report on page 29.

### Significant Accomplishments during the Prior Month

ORP reported it had initiated limited system walkdowns to support turnover to the Startup organization, that it was continuing limited system maintenance to ensure safe shutdown conditions, and that project Engineering continued design support and punch list resolution activities for the Effluent Management Facility where possible via telework.

### Significant Planned Activities in the Next Month

- ORP reported that operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

## Issues/Other Items

None reported.

## 10.0 ANALYTICAL LABORATORY

### Project Schedule and Cost Variance Performance

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

### Significant Accomplishments during the Prior Month

ORP reported that as of today's meeting, in support of the analytical lab to continue testing, the steam plant was up and running, the diesel fuel oil system was operational, as well as the plant cooling water system was operational to support the steam plant. The chiller compressor plant up is also operational.

### Significant Planned Activities in the Next Month

ORP reported that operations could be impacted by the COVID-19 pandemic, the resulting site shutdown, and the phased re-start of site operations.

## Issues/Other Items

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

Ecology asked if ORP was noticing any potential negative trends or degradation on equipment. ORP replied it had not, but was using the time of the site shutdown to look for trends or items that may not have come to light while fieldwork was in full mode.



# THE HANFORD SITE

## Office of River Protection Tri-Party Agreement

Monthly Reporting Period  
May 1 – 31, 2020

## Significant Past Accomplishments

- 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 System Plan document is ongoing.
- 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.<sup>1</sup>

<sup>1</sup>Hereafter referred to as COVID-19 comment #1

## Significant Planned Actions in the Next Six Months

- 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.<sup>2</sup>
- Discuss disputes with regard to milestone M-062-45 and its associated milestones during "Holistic Negotiations."
- Ecology and ORP will continue discussions in support of River Protection System Plan, Rev. 9 development, due October 31, 2020.

<sup>2</sup>Hereafter referred to as COVID-19 comment #2

## 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.
- 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.<sup>3</sup>

<sup>3</sup>Hereafter referred to as COVID-19 comment #3

## Significant Past Accomplishments

- COVID-19 comment #1

## Significant Planned Actions in the Next Six Months

- COVID-19 comment #2

## Issues

- COVID-19 comment #3

## Significant Past Accomplishments

- COVID-19 comment #1

## Significant Planned Actions in the Next Six Months

- COVID-19 comment #2

## 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.
- COVID-19 comment #3

## Significant Past Accomplishments

- COVID-19 comment #1

## Significant Planned Actions in the Next Six Months

- COVID-19 comment #2

## Issues

- COVID-19 comment #3

## Significant Past Accomplishments

- Tank-Side Cesium Removal (TSCR) system factory acceptance testing was satisfactorily completed at the end of March 2020.
- ORP submitted the agreed-upon resolution to all Ecology comments and submitted the updated TSCR permit application on April 24, 2020. This submittal also contained all of the necessary information to complete TPA milestone M-062-54A.
- COVID-19 comment #1

## Significant Planned Actions in the Next Six Months

- COVID-19 comment #2

## Issues

- Operations Office letter 18-NWP-177, “Hanford Site Ambient Air Boundary Concerns,” regarding the Hanford Site ambient air boundary. Ecology expressed its belief that the ambient air boundary appears to have changed as a result of increased public access to parts of the Hanford Site. ORP, Ecology, and the Washington State Department of Health have met several times to attempt to develop a shared understanding of existing conditions and a path forward.
- COVID-19 comment #3

## Significant Past Accomplishments

- Replaced filtered raw water sock filter assembly.
- Removed supernate jumper 13 – 13A and installed process blanks on exposed nozzles.
- Initiated replacement of instrument air dryer and removal of aqueous makeup unit room Tanks E101 and E104.
- Initiated dismantlement of obsolete tanks for air dryer installation.
- Completed 90-percent design for transfer line replacement.
- Continued wall nozzle fabrication for slurry and feed transfer line replacement.
- Completed actuator fabrication and initiated functional testing.
- Awarded DSA upgrades panel design and fire modeling contracts.
- Developed the 45% engineering design for the DSA upgrades.
- COVID-19 comment #1

## Significant Planned Actions in the Next Six Months

- COVID-19 comment #2
- Procure new PB-1 and PB-2 replacement pumps.
- Complete 100% design for transfer line replacement.
- Complete DSA panel design and fire modeling.

## Issues

- COVID-19 comment #3

## Significant Past Accomplishments

- Total FY20 processing volume: approximately 1 million gallons.
- Completed fieldwork for ETF chiller upgrade. Due to increasing temperatures, ORP granted approval for work to be performed during COVID-19 essential mission critical operations.
- Completed 30% design review for ETF vessel off-gas system upgrade.
- Completed 30% design review for ETF redundant filtration upgrade.
- Continued fabrication and procurement activities for ETF reverse osmosis system upgrade.
- Continued vendor repair of ETF dilute caustic tank (see “Issues”).
- Continued design of modifications for ETF brine loadout system.
- Continued work package planning for LERF Basin 44 cover repair/replacement.
- COVID-19 comment #1

## Significant Planned Actions

- COVID-19 comment #1
- Complete ETF chiller system upgrade.
- Complete design modifications for ETF brine loadout system upgrade.
- Complete design of ETF ultraviolet/oxidation system upgrade.
- Complete design of ETF monitoring and control system upgrade.
- Complete design of LERF Basin 41 installation.
- Complete design of ETF redundant filtration upgrade.
- Complete design of ETF loadin station building expansion.
- Complete design of ETF vessel off-gas system upgrade.
- Complete design of ETF supplemental organic treatment system.
- Begin design of ETF carbon dioxide membrane contactors.
- Begin design of ETF brine storage tanks.

## Significant Planned Actions continued

- Begin design of ETF modular grout system.
- Begin design of ETF motor control center upgrade.
- Begin design of ETF freeze protection upgrade.

## Issues

- The ETF dilute caustic tank was received at the Hanford Site in January. However, the tank was found to have deficiencies when inspected by ETF engineering in February. The tank was delivered back to the vendor in March for repair prior to the upgrade project continuing.
- 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. Two options to repair/replace the LERF Basin 44 cover have been developed and issued to vendors for bid proposals.
- COVID-19 comment #3

## LERF Volumes

Description	242AL-42 (Basin 42)	242AL-43 (Basin 43)	242AL-44 (Basin 44)
AZ-301 Condensate	+6,700	-	-
Mixed Waste Trench 31 and 34	+19,000	-	-
Other (SWLL)	-	-	-
Processing Campaign(s)	-	-	-
<b>Total Volume</b>	<b>2,876,000</b>	<b>6,469,000</b>	<b>608,000</b>

Data Date: June 1, 2020

Values shown in gallons

SWLL = Solid Waste Landfill Lysimeter leachate.

## Significant Past Accomplishments

- Installed retractable corrosion monitoring probe: 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*, which includes FY19 visual inspection results.
- Issued a contract to fabricate, test, and deliver a primary tank bottom volumetric inspection system to be deployed into the annulus of DST and used to characterize regions of the primary tank bottom.

## Significant Past Accomplishments continued

- Issued a competitive procurement contract to a vendor to design and fabricate a tertiary leak detection inspection tool for deployment beneath the secondary liner of a DST.
- COVID-19 comment #1

## Significant Planned Actions

- COVID-19 comment #2

## Issues

- COVID-19 comment #3

## 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
- Initiated work package planning for visual inspection of 5 misc. underground storage tanks.
- COVID-19 comment #1

## Significant Planned Actions

- COVID-19 comment #2

## 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.
- COVID-19 comment #3

- **Significant Past Accomplishments**

- COVID-19 comment #1

## **Significant Planned Actions**

- COVID-19 comment #2

## **Issues**

- COVID-19 comment #3

## **Significant Past Accomplishments**

- Best-basis inventory updates for the following tanks were completed in May 2020: 241-A-105, 241-AN-102, 241-AX-104, 241-C-105, 241-SX-104, 241-TY-104
- COVID-19 comment #1

## **Significant Planned Actions**

- COVID-19 comment #2

## **Issues**

- COVID-19 comment #3

## Significant Past Accomplishments

- Analysis of the Tank 241-C-106 in-tank videos have yielded the Camera/Computer Aided Design Modeling System volume estimate of 285.98 cubic feet, actual volume(calculation) 316.66 cubic feet, and 95 percent upper confidence level 334.92 cubic feet.
- 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.
- COVID-19 comment #1

## Significant Planned Actions

- Resolve Ecology's comments on RPP-RPT-59389, RPP-RPT-59390, and RPP-RPT-58858.
- COVID-19 comment #2

## 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 the February 21, 2019, meeting.

## Issues continued

- ORP formally initiated the TPA dispute resolution process with Ecology over Ecology's "Denial of Request for Waiver for TPA Waste Retrieval Criteria for SST 241-C-106" (C-106). A Director's Determination by the Director of Ecology was made on June 26, 2019 (19-NWP-101). ORP appealed the Director of Ecology's determination to the Pollution Control Hearings Board on July 26, 2019. The parties participated in mediation on October 28, 2019. The parties were unable to successfully negotiate and resolve the appeal on October 28, but have agreed to one additional negotiation meeting in November. The hearing in this appeal is scheduled for July 28, 2020. New in-tank videos were obtained in November 2019 and a new CCMS evaluation was performed.
- COVID-19 comment #3



# THE HANFORD SITE

## Office of River Protection Consent Decree Monthly Report

Monthly Reporting Period  
May 1 – 31, 2020

## Significant Accomplishments during the Prior Month

- Essential mission-critical operations and limited onsite activities in light of COVID-19-related restrictions. Additional work on planning for remobilization, engineering analysis, permitting documentation development, etc. by both DOE and site contractors progressed as conditions allowed.
- Completed shipment of two long-length equipment removals (AX-01-01D pump and A-03 saltwell screen) to Environmental Restoration Disposal Facility.
- On May 20, 2020, DOE authorized the Hanford Site to move to Phase 1. Hanford Site operations began Phase 1 on May 26, 2020 – essential mission-critical operations were continued and targeted mobilization and low-risk work scope, such as implementation of COVID-19 protocols to infrastructure and facilities, required training, medical evaluations, and limited construction activities were added.

## Significant Planned Activities in the Next Month

- Essential mission-critical operations and Phase 1 activities will continue in light of restrictions related to the COVID-19 pandemic 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.
- Complete A Tank Farm exhaust ventilation system hot operations acceptance testing and miscellaneous construction punch list activities. Note: This was accurate as of the end of the reporting period, but due to changes in Phase 1 ramp up decisions this activity will be delayed.

## Issues

- Issues available in the report

July 9, 2020 ORP PMM  
Attendee List  
(Meeting conducted virtually via MS TEAMS)

Diediker, Janet - ORP  
Lopez, Maria J – WPRS  
Turner, Michael J - MSA  
Warwick, Gordon J - WRPS  
Trimberger, Bryan R - ORP  
Harkins, Brian A - ORP  
Rambo, Jeffrey J - ORP  
Hernandez, Paul R - ORP  
Van mason, Eric J - WPRS  
Jim Alzheimer - Ecology  
Andrew Pomiak - Ecology  
Steve Lowe - Ecology  
Jeff Lyon, Ecology  
Amena Mayenna, Ecology  
Shelley Cimon – State of Oregon  
Mandy Jones, Ecology  
Kyle Rucker, Ecology  
Kaylin Burnett, ORP  
Dan McDonald, Ecology  
Evans, Rana, ORP  
Young, Jason D, ORP  
Olds, Theodore E (Erik), ORP  
Romine, Larry D, ORP