

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

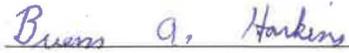
February 13, 2020

2440 Stevens Center
Richland, Washington

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CONCURRENCE SIGNATURES

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



Brian Harkins, DOE-ORP

Date: 3/12/20



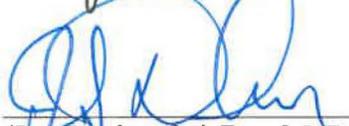
Jason Young, DOE-ORP

Date: 3/12/20



Jeff Lyon, Project Manager
Washington State Department of Ecology

Date: 3/17/20



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

Date: 3/18/20



John Temple, Project Manager
Washington State Department of Ecology

Date: 3/17/20

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
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

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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 12, 2020, at 2440 Stevens Center.

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, 2019, were entered into the Administrative Record on February 3, 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 December 2019 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 2020 Meeting."

Action No. 1 (TF-16-11-04): ORP reported no change in status. Action remains On Hold.

Action No. 2 (TF-18-10-01): ORP noted the factory acceptance testing (FAT) will start in April. ORP extended an invitation to Ecology to attend the testing, or in lieu, receive a briefing on it. Action remains Open.

Action No. 3 (TF-18-10-02): Ecology agreed to close this action; however, it wanted to open up a new action to clarify what the next steps are in understanding and coming to a mutual agreement on what the WMA-C/SST closure process entails. Ecology agreed to take the new action. Action is Closed.

Action No. 4 (TF-19-04-03): Action was Closed at the January 9, 2020 ORP Project Managers' Meeting.

Action No. 5 (TF-19-12-01): ORP provided a briefing to Ecology at the January 9, 2020 ORP Project Managers' Meeting. Action is now Closed.

Action No. 6 (TF-20-01-01): ORP had no updated information. The action remains Open.

Action No. 7 (TF-20-01-02): ORP had no updated information. The action remains Open.

Action No. 8 (TF-20-01-03): ORP reported that it held a briefing with Ecology and the State of Oregon on January 20, 2020, and requested the action be closed. Ecology agreed. The action was Closed.

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Action No. 9 (TF-20-01-04): ORP reported that it had added extra information to this month's report. Ecology approved of the added information. The action was Closed.

2.0 SYSTEM PLAN

ORP reported the System Plan 9 report had been submitted to Ecology in September 2019, and that Ecology had concurred with the selected scenarios. Discussions on the scenarios continue between ORP and Ecology. ORP also noted that other topics associated with the System Plan may 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.

4.0 SUPPLEMENTAL TREATMENT AND PART B PERMIT APPLICATIONS

ORP reported no change in this activity.

5.0 LOW-ACTIVITY WASTE PRETREATMENT SYSTEM

ORP reported no change in this activity.

6.0 TANK-SIDE CESIUM REMOVAL SYSTEM

Significant Past Accomplishments

ORP reported that the tank-side cesium removal (TSCR) system fabrication was completed in December 2019.

Significant Planned Actions in the Next Six Months

ORP reported that the TSCR system fabricated equipment has been shipped to Richland from South Carolina and factory acceptance testing (FAT) is expected to be completed by the end of February 2020. Ecology asked if it could observe portions of FAT. ORP agreed and took an action to schedule this.

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 reported that it had proposed a path forward to Ecology, but Ecology was not in complete agreement with the proposal. The two sides continue to talk.

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7.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments

ORP reported it had completed design for replacement of an instrument air dryer, received the new instrument air dryer, and completed a 60% design for transfer line replacement.

Significant Planned Actions in the Next Six Months

ORP reported it will procure new PB-1 and PB-2 replacement pumps and remove the feed line jumper from the pump room to support evaporator campaign 11. ORP also noted they will complete the 100 percent design for the 242-A Evaporator transfer line replacement, replace the sock filter assembly on the filtered raw water system, and initiate the 242-A Evaporator safety systems upgrades engineering design.

Issues/Other Items

None reported.

8.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY

Significant Past Accomplishments

ORP reported the following:

- Total FY 2020 processing volume: approximately 1 million gallons.
- Completed Effluent Treatment Facility (ETF) cleanout activities at the completion of Liquid Effluent Retention Facility (LERF) Basin 42 processing.
- Continued fieldwork for the upgrade of the ETF rough filter system. Completed installation of tube sheet and filters.
- Continued fieldwork for the upgrade of the ETF uninterruptible power supply. Began installation of new uninterruptible power supply unit.
- Continued fieldwork for the upgrade of ETF reverse osmosis system. Completed installation of new reverse osmosis membranes and demolition for piping replacement.
- Began fieldwork for the upgrade of the ETF cooling tower and redundant cooling water pump. Completed draining and isolation of system for removal.
- Began fieldwork for the upgrade of the ETF evaporator valve. Completed flushing and cleaning of evaporator in preparation for removal of old valve.
- Began fieldwork for the upgrade of ETF stairs and ladder replacements to improve personnel safety and ergonomics. Completed three of nine installations.
- Completed the 30% design review for LERF Basin 41 project (ORP is exploring potentially putting LERF Basin 41 into service to provide extra surge capacity and backup for existing basins).

Significant Planned Actions in the Next Six Months

ORP reported that the ETF is undergoing several upgrades and major reworks to support Waste Treatment Plant operations. Among the upgrades are:

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- Commissioning of the new peroxide decomposer vessel and media system; completing replacement of select facility stairs and ladders to improve safety; beginning upgrade of ETF reverse osmosis system to replace leak-prone and obsolete system pumps; replacing ETF evaporator drain valve; and beginning replacement of ETF uninterruptible power supply, rough filter system, chiller, and dilute caustic tank.

ORP reported that it plans to complete a system upgrade of the ETF brine load-out to manage secondary waste and a chiller upgrade to improve reliability. There is a complete listing of several planned projects on page 14 of the December 2019 TPA Monthly Report.

Issues/Other Items

Work has paused on the LERF Basin 44 cover replacement project while nuclear safety evaluations are performed. Evaluations are due to visual indication of solid material in the basin and sample results from that material. ORP is evaluating a repair or replacement of the cover. Pumping of the basin continues.

9.0 TANK SYSTEM UPDATE

9.1 Double-Shell Tank Integrity

Significant Past Accomplishments

ORP noted the status of the following activities:

- Received and installed a retractable corrosion monitoring probe in tank 241-AY-101
- Completed ultrasonic testing inspections for the following tanks:
 - 241-AP-107, 241-AP-108, 241-AN-102, 241-AP-106, and 241-AP-102 (annulus floor ultrasonic testing only).
- Completed enhanced annulus visual inspections for tanks:
 - 241-AN-101, 241-AN-102, 241-AN-103, 241-AN-104, 241-AN-105, 241-AN-106, 241-AN-107, 241-AZ-101, and 241-AZ-102.
- ORP showed pictures of the primary tank bottom inspection system deployed the day prior to today's meeting (02/12/20) on tank 241-AW-101 (see presentation attached to these meeting minutes).

Significant Planned Actions in the Next Six Months

- ORP plans to issue a contract to fabricate, test, and deliver a primary tank bottom volumetric inspection system to be deployed into the annulus of double-shell tanks (DST) and used to characterize regions of the primary tank bottom.
- ORP will fabricate two retractable corrosion monitoring probes for installation in the following tanks: 241-AW-104 and 241-AP-102.
- ORP will award 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.
- ORP plans to complete ultrasonic testing of the following tanks: 241-AW-101 (started in December 2019) and 241-AW-106.

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Issues/Other Items

None to report.

9.2 Single-Shell Tank Integrity

Significant Past Accomplishments

- ORP reported it had completed visual inspections for tanks: 241-AX-102, 241-B-102, 241-B-103, 241-B-110, 241-B-111, 241-B-112, 241-BX-104, 241-C-106, 241-SX-114, 241-SX-115, 241-T-103, 241-T-108, 241-T-202, 241-U-101, 241-U-106, 241-U-109, 241-TY-106, 241-TX-101, and 241-TX-102.
- ORP transmitted RPP-RPT-55202, *Dome Survey Report for Hanford Single-Shell Tanks*, Rev. 3, to Ecology in September satisfying TPA milestone M-045-91E3 via letter 19-TPD-0018, "Completion of Hanford Federal Facility Agreement and Consent Order Interim Milestone M-045-91E3 Deliverable," dated September 5, 2019.
- ORP performed TFC-ENG-CHEM-D-42, *Tank Leak Assessment Process*, on the following tanks: 241-T-101, 241-T-103, and 241-SX-104.

Significant Planned Actions in the Next Six Months

ORP plans to complete the TFC-ENG-CHEM-D-42, *Tank Leak Assessment Process* on tanks 241-SX-104, 241-T-109 and 241-T-113.

ORP reported visual inspections will be performed on tanks: 241-B-107, 241-BX-105, 241-BX-108, 241-BX-109, 241-BX-112, 241-BY-107, 241-S-103, 242-S-110, 241-SX-112, 241-TX-104, 241-TX-107, 241-TX-110, 241-TY-101, and 241-TY-104.

10.0 IN-TANK CHARACTERIZATION AND SUMMARY

10.1 Reports Completed or Released

ORP completed seven reports and released one. For details, please refer to pages 19-20 of the December 2019 TPA monthly report.

10.2 Tank Sampling

Significant Past Accomplishments

ORP reported the following sampling activities:

- Completed grab sampling of Tank AN-101 during December 2019. Nine samples were shipped to the laboratory.
- Completed Tank 241-AP-105 Phase 1 large volume grab sampling during December 2019. Eighteen samples were shipped to the laboratory.
- Completed Tank 241-AP-105 Phase 2 large volume grab sampling during December 2019. Eighteen samples were shipped to the laboratory.
- Completed Tank 241-AP-106, repurposing Step 6 grab sampling during December 2019. Eight samples were shipped to the laboratory. The sampling completed showed that the

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remaining waste in the tank meets the specifications for waste feed to WTP (acceptable levels of cesium). Ecology asked to see the results of the sampling, and ORP agreed to provide them.

Significant Planned Actions in the Next Six Months

ORP reported the following future tank sampling activities planned:

- February 2020: 241-AP-102
- April 2020: 241-AP-108 (if required)
- June 2020: Tank 241-AP-107

10.3 Best-Basis Inventory Updates

Significant Past Accomplishments

ORP reported that best-basis inventory updates for tanks 241-AP-102, 241-AP-106, 241-AZ-101, 241-SY-102, 241-U-101, and 241-U-109 were completed.

ORP reported, as of today's meeting (2/13/20), it had completed a best-basis inventory for tank 241-C-106 with new volume estimates, and that the report would be furnished to Ecology.

Significant Planned Actions in the Next Six Months

ORP reported no best-basis inventory updates were planned.

11.0 SINGLE-SHELL TANK CLOSURE PROGRAM

Significant Past Accomplishments

ORP reported the following activities:

- 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 single-shell tank closure plans in the Hanford Sitewide permit.
- DOE/ORP-2014-02, *Clean Closure Practicality Demonstration for the Single-Shell Tanks*, with supplemental information DOE/ORP-2014-02-SUPP-1 was approved via letter 19-NWP-090, "Transmittal of Supplemental Information to the *Clean Closure Practicality Demonstration for the Single-Shell Tanks*, DOE/ORP-2014-02-SUPP1, Revision 0," by Ecology on June 12, 2019.
- Submitted design for Barrier 3 in 241-TX Tank Farm to Ecology, which completed TPA milestone M-045-92W.
- Submitted the maintenance and performance monitoring plan for interim barriers to Ecology, on October 10, 2019, completing TPA milestone M-045-92AC.

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- Ecology approved the design for Barrier 3 in the 241 TX Tank Farm to allow the start of construction, which completed TPA milestone M-045-92X (October 17, 2019). ORP projects the start of construction of Barrier 3 in March.

Significant Planned Activities in the Next Six Months

ORP reported the following planned activities:

- Analysis of the Tank C-106 in-tank videos have yielded the Camera/Computer Aided Design Modeling System (CCMS) volume estimate of 285.98 cubic feet. WRPS is expected to review and verify the volume calculation by January 31, 2020.
- Resolve Ecology's comments on RPP-RPT-59389, RPP-RPT-59390, and RPP-RPT-58858.

Issues/Other Items

ORP noted the WMA-C Baseline Risk Assessment was still stalled, pending decisions by the TPA Inter-agency Management Integration Team.

ORP reported it was working to resolve 47 additional comments on RPP-RPT-59389 and RPP-RPT-59390. Both reports are related to the closure of WMA-C.

ORP reported the continuing dispute over the waste retrieval criteria waiver on tank 241-C-106 is now on appeal before the Washington State Pollution Control Hearings Board (PCHB). The hearing before the PCHB is scheduled for July 28, 2020.

12.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Significant Past Accomplishments

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

Significant Planned Activities in the Next Six Months

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

Issues

Refer to the Consent Decree portion of these meeting minutes (page 14).

13.0 TANK OPERATIONS CONTRACT OVERVIEW

The earned value data can be viewed in the December 2019 ORP TPA Monthly Report on pages 28-36.

WBS 5.01 – Base Operations

The earned value data can be viewed in the December 2019 ORP TPA Monthly Report on page 30.

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WBS 5.02 – Retrieve and Close Single-Shell Tanks

The earned value data can be viewed in the December 2019 ORP TPA Monthly Report on page 32.

WBS 5.03 – Waste Feed Delivery/Treatment Planning

The earned value data can be viewed in the December 2019 ORP TPA Monthly Report on page 34.

WBS 5.05 – Treat Waste

The earned value data can be viewed in the December 2019 ORP TPA Monthly Report on page 36.

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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 December 2019 ORP 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 2020 Meeting."

Action Items

Action No. 1 (WTP-19-12-01): ORP noted that this action was closed last month.

2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Consent Decree Milestones

A status of Consent Decree milestones can be found on pages 4-5 of the December 2019 Consent Decree Monthly Report.

Significant Accomplishments during the Prior Month

ORP reported it had lowered the remaining section of Tank A-101 R2 thermocouple to the bottom of the tank, that the A Tank Farm exhausters construction acceptance testing began, and that it was continuing Tank AX-103 long-length equipment removal.

Ongoing Activities

ORP reported the following ongoing activities:

- Continue removal of long-length equipment at Tank AX-101.
- Installation of A Tank Farm ventilation system.
- Continue Tank AX-102 waste retrieval operations with sluicing and high-pressure water (~71% retrieved). ORP also provided an update, noting that it believed it was at the limit of the second waste retrieval technology, and that it does not believe a third technology will be viable, but committed to working with Ecology on this process (see "Issues/Other Items" below for more information).
- Continue installation and testing of waste retrieval equipment in Tank AX-104. ORP provided an update that the extended reach slucier arm had been installed in the tank.
- Installation of electrical and support infrastructure at Tank AX-103.

Significant Planned Activities in the Next Month

ORP reported the following planned activities:

- Remove Tank A-103 03C saltwell screen.
- Complete core drilling of Tank A-101 to remove 1C Pit stuck shield plug and install air inlet station.
- Complete A Tank Farm ventilation system cold operational acceptance tests (OAT).

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- Install AX-104 Pit B extended reach sluicer system and initiate testing (ORP forecasted a June 2020 start of retrieval operations).
- Remove AX-101 Pit D Riser 24 pump.
- Perform initial volume displacement measurement of Tank AX-102.

Issues/Other Items

ORP reported that the volume displacement measurement of Tank AX-102 could produce some challenges stemming from the floor of the tank not being flat. Ecology and ORP had a discussion regarding this, where ORP and Ecology agreed that the floor was “mostly bare” and that waste was in piles. ORP also reported that it was using a laser detection system to do volumetric calculations along with comparisons from camera footage. ORP also noted that a similar system was previously deployed in tank 241-C-104. Ecology asked ORP if it was taking enough samples to satisfy requirements, and ORP replied that it was.

ORP reported that it was applying a different sluicing approach to tank 241-AX-104 as opposed to tank 241-AX-102, where a longer, more flexible hose was installed to avoid putting excess pressure on the sluicing arm. In addition, ORP is using “chem” joint nozzles in 241-AX-104 to avoid the issues it had with the PUREX joints in tank 241-AX-102.

3.0 TANK WASTE RETRIEVAL WORK PLAN STATUS

Significant Accomplishments during the Prior Month

ORP reported it had submitted a tank waste retrieval work plan modification for 241-AX-104 to Ecology for review and approval.

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 December 2019 ORP Consent Decree Monthly Report on page 11.

5.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

ORP reported many aspects of the project are being discussed in the Analysis of Alternatives.

Project Schedule and Cost Variance Performance

The earned value data can be viewed in the December 2019 ORP Consent Decree Monthly Report on page 16. ORP reported there is a negative schedule variance due to procurements lagging at the Low-Activity Waste Facility, though overall, the project continues to make up schedule where possible via extended shifts and flexible work planning. ORP also anticipates

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some negative cost impacts in the next few months as various facilities go from construction to startup and testing.

6.0 PRETREATMENT FACILITY

ORP reported that the focus at the pretreatment facility was on asset preservation and maintenance, but it is still working to the overall baseline.

The earned value data can be viewed in the December 2019 ORP Consent Decree Monthly Report on page 20.

7.0 HIGH-LEVEL WASTE FACILITY

Significant Accomplishments during the Prior Month

ORP reported it completed the 60% design review of the High-Level Waste (HLW) Facility melter feed process system.

Significant Planned Activities in the Next Month

See page 22 of the December 2019 ORP Consent Decree Monthly Report for a full listing.

The earned value data can be viewed in the December 2019 ORP Consent Decree Monthly Report on page 23.

8.0 LOW-ACTIVITY WASTE FACILITY

ORP reported that 91% of the Low-Activity Waste (LAW) Facility systems have been turned over from construction to startup, and of those, 38% have been turned over from startup to operations. ORP also noted that testing continues on the HVAC and other systems, and that it was applying several lessons-learned from the Analytical Lab. Ecology asked if the facility would be declared substantially complete by the end of the calendar year. ORP said it could not commit to that date with full certainty, but said its contractor was currently on schedule to meet that milestone.

Significant Accomplishments during the Prior Month

ORP highlighted the turnovers of the melter process system, section three, and the process control system, as well as the high-pressure steam system, each from the Construction to Startup organizations. The complete listing can be found on page 25 of the December 2019 ORP Consent Decree Monthly Report.

Significant Planned Activities in the Next Month

ORP expects to continue completing walk-downs on various systems in support of turning those systems over to the Startup organization, and the Startup organization expects to hand over LAW Facility systems to Plant Management.

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The earned value data can be viewed in the December 2019 ORP Consent Decree Monthly Report on page 26.

Issues/Other Items

The State of Oregon asked ORP if a significant amount of equipment at the LAW Facility needed to be retrofitted (or replaced) after sitting idle. ORP replied that there was a notable ongoing refurbishment effort, particularly with the facility's pumps. However, ORP noted that it had a robust spares program and that the project has been able to plan accordingly so far.

9.0 BALANCE OF FACILITIES

Significant Accomplishments during the Prior Month

ORP reported that 91% of the Balance of Facilities (BOF) systems had been handed over from the Startup organization to Plant Management. ORP highlighted the turnover of the cooling tower facility systems and the chiller compressor plant chilled system as noteworthy.

Significant Planned Activities in the Next Month

ORP reported that it is focusing on testing the former glass storage facility that is now loaded with silica, which simulates glass. However, there are equipment challenges the project is dealing with.

ORP reported pipe, roof, and electrical commodities installation continues at the Effluent Management Facility (EMF).

The earned value data can be viewed in the December 2019 ORP Consent Decree Monthly Report on page 29.

Issues/Other Items

ORP reported that there are operating challenges in the steam plant, but those were to be expected, and steam demand is still low.

ORP reported it was still dealing with residual rust in the pipes of the Non-Radioactive Drains Facility, which is limiting transfers to the Treated Effluent Disposal Facility (TEDF). To combat this, the contractor is bringing on an external skid to act as a "kidney" and thus allow transfers to TEDF. The skid is scheduled to be delivered the weekend of 02/21/20.

10.0 ANALYTICAL LABORATORY

Significant Accomplishments during the Prior Month

ORP reported all startup testing has been completed at the Analytical Laboratory – a major project milestone. A complete listing of accomplishments can be found on page 30 of the December 2019 ORP Consent Decree Monthly Report.

Significant Planned Activities in the Next Month

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ORP reported "punch list" items continue to be worked as Plant Management takes over the facility.

ORP reported that it will soon be moving operations from Columbia Basin College to the LAB itself.

The earned value data can be viewed in the November 2019 ORP Consent Decree Monthly Report on page 32.

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

Agreements:

1. Per an Ecology standing request (4/21/2016), ORP agrees to include any written directives given by DOE to the contractors for work required by the CD in future quarterly CD Reports (see CD Section IV-C-1-e).
2. The ORP and Ecology PMs have developed, signed, and entered an outline for the CD Tank Completion Certification into the TPA Administrative Record. A briefing to senior management will occur if any follow-on actions arise.
3. Ecology and ORP have agreed to move the TPA/CD PMM meeting to the second Thursday of the month starting in December 2019. The TPA and CD monthly reports distribution will occur by the end of each month via link to the Admin Record. Ecology requested at the December 2019 meeting that this form be included with the email that includes the links to the monthly reports. This will be the format for report distribution and monthly meetings going forward for calendar year 2020.

Issues:

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

¹ Washington State Department of Ecology

² Environmental Protection Agency

³ Resource Conservation & Recovery Act

⁴ RCRA Facility Investigation

⁵ Corrective Measure Study

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

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

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

⁶ 1984 Hazardous and Solid Waste Amendments

⁷ Applicable or Relevant and Appropriate Requirements

⁸ Treatment, Storage, and/or Disposal

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	TF-16-11-04 17 Nov 2016	ORP to provide Ecology the T-112 work plan	In legal review. (07/19/2018) No change (12/12/2019)	Dusty Stewart	On Hold
2	TF-18-10-01 18 Oct 2018	Follow up meetings for discussion and resolution of tank-side cesium removal (TSCR) related activities.	<p>Schedule a meeting to further discuss concerns related to crystalline silicotitanate (CST) compatibility with HLW glass, long term storage, ion exchange column design, potential for resolution concepts (in the early stage). ORP will schedule first meeting within the next couple of weeks. Additionally Ecology would like an invite to witness the tall column test.</p> <p>4-4-19: ORP expects the meeting to occur prior to the end of April. Dan will provide list of Ecology names and available dates. The meeting should be scheduled for a couple of hours. Ecology would like clarification regarding the resin extracted from the column, which is purposed to be put in the high level waste stream. Currently there is no study to validated compatibility/treatment via HLW. Clarify disposition of the physical hardware.</p> <p>30 May 2019: Meeting held on May 20th. ORP recommends closing this action.</p> <p>6 June ORP Actions</p> <ol style="list-style-type: none"> 1. Provide Ecology with a copy of the Factory Acceptance Test (FAT) test plan once released. (TARGET Completion: October 2019) 2. Provide the opportunity for Ecology to observe the FAT once the FAT has commenced. (TARGET Completion: November 2019) <p>Updated 09/20/2019)</p>	Sahid Smith	Open

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
			12/12/2019: Ecology has not received updated plan, ORP to provide by email		
3	TF-18-10-02 18 Oct 2018	Ecology and DOE to meet to discuss Ecology email (see Updates)	The HFFACO is the current working agreement and Ecology is confident that the HFFACO has adequately described our expectations for WMA-C Closure. USDOE and Ecology will meet and discuss the areas where USDOE have not fulfilled the TPA requirements for SST Closure or are inconsistent with Tri-Party agreements and understanding. USDOE and Ecology will agree to a resolution to those deficiencies where USDOE have not fulfilled the TPA Requirements. If USDOE has concerns regarding the HFFACO, then our respective senior managers should provide direction to the TPA Project Managers for resolving those concerns. (Email Jeff Lyon, Oct 22, 2018) Meeting between ORP and Ecology occurred on 11 Dec 2018 to discuss these issues. ORP is preparing a response for Ecology. No Change 09/20/2019) 12/12/2019 – ORP to provide Ecology an update by phone/email prior to next meeting	Rod Lobos	Open
4	TF-19-04-03 4 Apr 2019	Demonstrate compliance with Appendix I for SST closure. (Jim Alzheimer)	Clarify how integration between RL and ORP is being coordinated for consistent action and compliance related to closure for CERCLA/RCRA and rad on similar type tanks. Clarify if this is captured in Tier 1, Tier 2 or Tier 3 closure plans. How are the separate closure documents providing compliance with Appendix I How is EPA involved? No Change 09/20/2019) 12/12/2019 – ORP to provide Ecology an update by phone/email prior to next meeting	Rod Lobos	Closed 9 Jan 2020

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
5	TF-19-12-01 12 Dec 19	At the next PMM provide a briefing to Ecology on planned safety system changes, and emergency response improvements at 242-A Evaporator		Paul Hernandez	Closed 9 Jan 2020
6	TF-20-01-01 9 Jan 2020	Provide a status update at next month's PMM on milestone M-062-50 "Submit to Ecology as a Secondary Document, a Mass Balance Flow Sheet"		Brian Harkins	Open
7	TF-20-01-02 9 Jan 2020	ORP to set up a discussion/meeting on the completion criteria for milestone M-062-54A "Submit Permit Application for AP Tank Farm Mods and Operation Necessary to support TSCR (due July 2020). A. Pomiak should also be included in this meeting		Brian Harkins	Open
8	TF-20-01-03 9 Jan 2020	Ecology to be included in discussions on how ORP is dealing with the issue of ETF not being able to handle the amount of Iodine that would be produced from DFLAW operations, and ORP's options therein. Ecology understands it is early in the process however. Their POCs for this issue are Dan McDonald and Katie Hall	On January 21, 2020, there was a briefing to Ecology/Oregon on the path forward for Iodine 129 by the Fix It Now Team. ORP recommends closing this action.(31 Jan 2020)	Richard Valle	Open

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
9	TF-20-01-04 9 Jan 2020	Ecology wants DST integrity testing/inspection reports added to the TPA monthly report		Dusty Stewart	Open

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

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	WTP-19-12-01	ORP to provide Ecology with details on the PT/HLW equipment “post-contract actions”.	Ecology agreed this is covered in Analysis of Alternatives (AoA) space.	Wahed Abdul	Closed 9 Jan 2020



THE HANFORD SITE

Office of River Protection Tri-Party Agreement

Monthly Reporting Period
December 1 – 31, 2019

Significant Past Accomplishments

The selected scenarios for the *River Protection System Plan*, Rev. 9 were agreed upon by U.S. Department of Energy, Office of River Protection (ORP) and Washington State Department of Ecology (Ecology). ORP documented the agreement and transmitted letter 19-MIO-0020, “Request for Concurrence on Selected Scenarios for the River Protection Project System Plan, Revision 9,” dated September 25, 2019, to Ecology for concurrence. Ecology concurred on October 2, 2019, via letter 19-NWP-158, “Re: Transmittal of Signed Concurrence for Selected Scenarios for the River Protection Project System Plan, Revision 9, RPP-RPT-61707, Rev. 0.”

Significant Planned Actions in the Next Six Months

- 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 System Plan, Rev. 9 development, due October 31, 2020.

Issues

- Ecology and ORP have ended negotiations related to the M-062-45 Milestone and have initiated dispute. “Holistic Negotiations” is planning to resolve these disputes.

Significant Past Accomplishments

- Tank-side cesium removal system fabrication was completed by AVANTech and inspected by Washington River Protection Solutions LLC (WRPS) in December 2019.

Significant Planned Actions in the Next Six Months

- Tank-side cesium removal system factory acceptance testing is projected to be completed in the first quarter of calendar year 2020.

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.

Significant Past Accomplishments

- Completed design for replacement of instrument air dryer
- Received new instrument air dryer
- Completed 60% design for transfer line replacement.

Significant Planned Actions in the Next Six Months

- Remove feed line jumper from pump room to support EC-11
- Procure new PB-1 and PB-2 replacement pumps
- Install instrument air dryer upgrade, remove Tanks E101/E104
- Complete 100% design for transfer line replacement
- Replace the sock filter assembly on the filtered raw water system
- Initiate safety systems upgrades engineering design.

Significant Past Accomplishments

- Total FY 2020 processing volume: approximately 1 million gallons.
- Completed Effluent Treatment Facility (ETF) cleanout activities at the completion of Liquid Effluent Retention Facility (LERF) Basin 42 processing.
- Continued fieldwork for the upgrade of the ETF rough filter system. Completed installation of tube sheet and filters.
- Continued fieldwork for the upgrade of the ETF uninterruptible power supply. Began installation of new uninterruptible power supply unit.
- Continued fieldwork for the upgrade of ETF reverse osmosis system. Completed installation of new reverse osmosis membranes and demolition for piping replacement.

Significant Past Accomplishments continued

- Began fieldwork for the upgrade of the ETF cooling tower and redundant cooling water pump. Completed draining and isolation of system for removal.
- Began fieldwork for the upgrade of the ETF evaporator valve. Completed flushing and cleaning of evaporator in preparation for removal of old valve.
- Began fieldwork for the upgrade of ETF stairs and ladder replacements to improve personnel safety and ergonomics. Completed three of nine installations.
- Completed the 30% design review for LERF Basin 41 project.

Significant Planned Actions

- Perform commissioning of the new ETF peroxide decomposer system in preparation for the WTP direct-feed low-activity waste effluent
- Perform ETF brine load-out system upgrade to manage secondary waste
- Perform physical tie-in of transfer lines 200-E-310-PL (primary) and 200-E-311-PL(backup) at the interface points in preparation for the WTP direct-feed low-activity waste effluent
- Perform ETF chiller upgrade to improve reliability and reduce system maintenance
- Perform ETF dilute caustic tank upgrade with a tank of compatible material to the system piping
- Perform ETF verification tank repair to replace the interior protective epoxy coating

Significant Planned Actions continued

- Perform ETF load-in drain and filter system upgrade to install a new sump tank system
- Continue ETF stairs and ladder replacements to improve personnel safety and ergonomics
- Continue ETF reverse osmosis pumps and valving upgrade to replace leak prone valves and obsolete system pumps
- Continue ETF cooling tower and pump upgrade, which is subject to shut down due to the degraded condition
- Continue ETF uninterruptible power supply upgrade due to age and the occurrence of faults
- Continue ETF rough filter and hoist refurbishment to reduce processing down time

Significant Planned Actions continued

- Design ETF ultraviolet/oxidation system upgrade since the existing system is no longer supported by the manufacturer
- Design ETF monitoring and control system / hardware upgrade, which is currently operating on outdated systems
- Design LERF Basin 41 installation for additional capacity
- Design ETF redundant filtration upgrade to reduce processing down time
- Design ETF load-in station expansion to support enhanced facility operation
- Design ETF vessel offgas demister housing upgrade to repair degraded condition
- Design ETF supplemental organic treatment system in preparation for the WTP direct-feed low-activity waste effluent.

Issues

- Work has paused on the LERF Basin 44 cover replacement project while nuclear safety evaluations are performed by Washington River Protection Solutions LLC (WRPS). Evaluations are due to visual indication of solid material in the basin and sample results from that material.

Liquid Effluent Retention and 200 Area Effluent Treatment Facilities

LERF Volumes

Description	242AL-42 (Basin 42)	242AL-43 (Basin 43)	242AL-44 (Basin 44)
AZ-301 Condensate	+2,200	-	-
Mixed Waste Trench 31 and 34	+12,700	-	-
Other (325 RPS, SWL)	-	-	-
Processing Campaign(s)	-	-	-
Total Volume	2,720,000	6,480,000	650,000

Data Date: December 31, 2019

Values shown in gallons

RPS = retention process sewer

SWL = solid waste landfill leachate

Significant Past Accomplishments

- Received and installed a retractable corrosion monitoring probe in Tank AY-101
- Ultrasonic testing inspections were completed for the following tanks in FY 2019: 241-AP-107, 241-AP-108, 241-AN-102, 241-AP-106, 241-AP-102 (annulus floor ultrasonic testing only)
- Ultrasonic testing inspections have been completed for the following tanks in FY 2020: 241-AW-102
- Completed enhanced annulus visual inspection in FY 2019: 241-AN-101, 241-AN-102, 241-AN-103, 241-AN-104, 241-AN-105, 241-AN-106, 241-AN-107, 241-AZ-101, 241-AZ-102.
- Completed enhanced annulus visual inspection as of December of FY 2020: 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

Significant Planned Actions in the Next Six Months

- Issue a contract to fabricate, test, and deliver a primary tank bottom volumetric inspection system to be deployed into the annulus of double-shell tanks (DST) and used to characterize regions of the primary tank bottom.
- Fabricate two retractable corrosion monitoring probes for installation in the following tanks: 241-AW-104, 241-AP-102.
- Award 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.
- Complete ultrasonic testing of the following tanks: 241-AW-101 (started in December 2019), 241-AW-106.

Significant Past Accomplishments

- Completed visual inspections for: 241-AX-102, 241-B-102, 241-B-103, 241-B-110, 241-B-111, 241-B-112, 241-BX-104, 241-C-106, 241-SX-114, 241-SX-115, 241-T-103, 241-T-108, 241-T-202, 241-U-101, 241-U-106, 241-U-109, 241-TY-106, and 241-TX-101, and 241-TX-102
- Transmitted RPP-RPT-55202, *Dome Survey Report for Hanford Single-Shell Tanks*, Rev. 3, to Ecology in September satisfying TPA milestone M-045-91E3 via letter 19-TPD-0018, “Completion of Hanford Federal Facility Agreement and Consent Order Interim Milestone M-045-91E3 Deliverable,” dated September 5, 2019.
- Performed TFC-ENG-CHEM-D-42, *Tank Leak Assessment Process*, on the following tanks: 241-T-101, 241-T-103, and 241-SX-104

Significant Planned Actions in the Next Six Months

- Perform TFC-ENG-CHEM-D-42 on: 241-T-109 and 241-T-113
- Perform visual inspection on: 241-B-107, 241-BX-105, 241-BX-108, 241-BX-109, 241-BX-112, 241-BY-107, 241-S-103, 242-S-110, 241-SX-112, 241-TX-104, 241-TX-107, 241-TX-110, 241-TY-101, and 241-TY-104

Reports Completed or Released

- Completed seven reports and released one. For details, please refer to the monthly report

Significant Past Accomplishments

- Completed grab sampling of Tank AN-101 during December 2019. Nine samples were shipped to the laboratory.
- Completed Tank 241-AP-105 Phase 1 large volume grab sampling during December 2019. Eighteen samples were shipped to the laboratory.
- Completed Tank 241-AP-105 Phase 2 large volume grab sampling during December 2019. Eighteen samples were shipped to the laboratory.
- Completed Tank 241-AP-106 repurposing step 6 grab sampling during December 2019. Eight samples were shipped to the laboratory.

Significant Planned Actions in the Next Six Months

- February 2020: 241-AP-102
- April 2020: 241-AP-108 (if required)
- June 2020: Tank 241-AP-107

Significant Past Accomplishments

- Completed updates for 241-AP-102, 241-AP-106, 241-AZ-101, 241-SY-102, 241-U-101, 241-U-109.

Significant Planned Actions in the Next Month

- No updates planned for January 2020.

Significant Past Accomplishments

- 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 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 single-shell tank (SST) closure plans in the Hanford sitewide permit
- Approved DOE/ORP-2014-02, *Clean Closure Practicality Demonstration for the SSTs*, with supplemental information DOE/ORP-2014-02-SUPP-1 via letter 19-NWP-090, “Transmittal of Supplemental Information to the Clean Closure Practicability Demonstration for the SSTs, DOE/ORP-2014-02-SUPP1, Revision 0,” by Ecology on June 12, 2019.
- Submitted design for Barrier 3 in 241-TX to Ecology. This action completes milestone M-045-92W as noted by administrative record (AR-03145) signed October 17, 2019.

Significant Past Accomplishments continued

- Submitted the maintenance and performance monitoring plan for interim barriers to Ecology. This action completes milestone M-045-92AC.
- Ecology approved the design for Barrier 3 in 241-TX Tank Farm to allow the start of construction. This action completes milestone M-045-92X as noted by Administrative Record documentation (AR-03146) signed October 17, 2019.

Significant Planned Activities in the Next Six Months

- Analysis of the Tank C-106 in-tank videos have yielded the Camera / Computer Aided Design Modeling System (CCMS) volume estimate of 285.98 cubic feet. WRPS is expected to review and verify the volume calculation by January 31, 2020.
- Resolve Ecology's comments on RPP-RPT-59389, RPP-RPT-59390, and RPP-RPT-58858.

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.
- The U.S. Department of Energy received 47 additional comments on RPP-RPT-59389 and RPP-RPT-59390 via an email from Ecology on August 30, 2019. ORP is developing a path forward to resolve these additional comments.

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 important dates and litigation deadlines are set forth in the Pollution Control Hearings Board's Second Amended Pre-hearing Order. The hearing in this appeal is scheduled for July 28, 2020. As a result of CCMS improvements and possible evaporation of tank liquids since 2004, new in-tank videos were obtained in November 2019 and a new CCMS evaluation was performed.



THE HANFORD SITE

Office of River Protection Consent Decree Monthly Report

Monthly Reporting Period
December 1 – 31, 2019

Significant Accomplishments during the Prior Month

- Lowered remaining section of Tank A-101 R2 thermocouple to bottom
- A Tank Farm exhausters construction acceptance testing
- Tank AX-103 long-length equipment removal

Ongoing Activities

- Continue removal of long-length equipment at Tank AX-101
- Installation of A Tank Farm ventilation system
- Continue Tank AX-102 waste retrieval operations with sluicing and high pressure water (~71% retrieved)
- Continue installation and testing of waste retrieval equipment in Tank AX-104
- Installation of electrical and support infrastructure at Tank AX-103.

Significant Planned Activities in the Next Month

- Remove Tank A-103 03C saltwell screen
- Complete core drilling of Tank A-101 1C Pit stuck shield plug and install air inlet station
- Complete A Tank Farm ventilation system cold operational acceptance tests
- Install AX-104 Pit B extended reach sluicer system and initiate testing
- Remove AX-101 Pit D Riser 24 pump
- Perform initial volume displacement measurement of Tank AX-102.

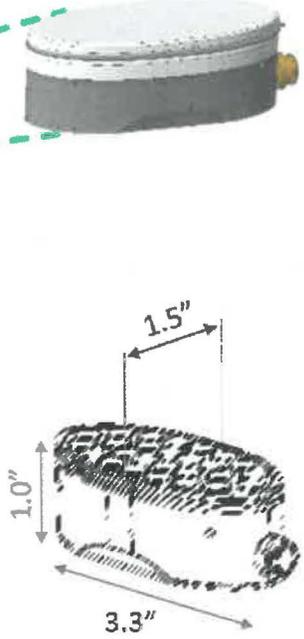
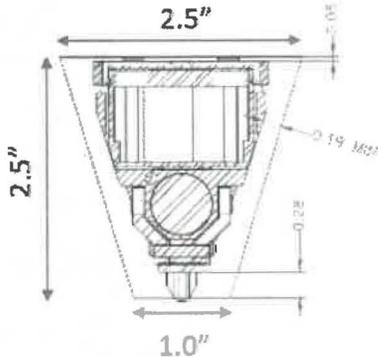
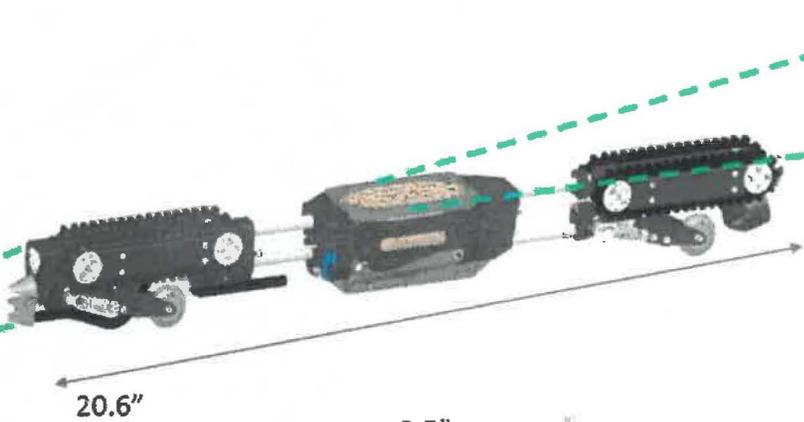
Issues

- Issues available in the report

Deployment crawler

Air-slot inspection crawler

Air-slot NDE sensor *Hanford-Probe A'*

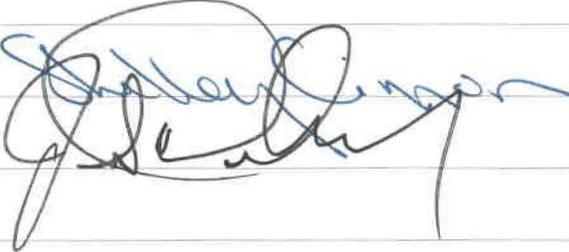
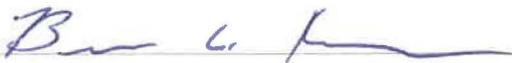








February 13, 2020
Office of River Protection
Tri Party Agreement Consent Decree Meeting

PRINT NAME	SIGN NAME	ORG
Abdul, Wahed		ORP
Alzheimer, Jim		ECY
Bang, Ricky		OEP
Barnes, Mike		ECY
Becky, Blackwell		ORP
Beehler, Steve		ORP
Brasher, Stephanie		MSA
Burnett, Kaylin		ORP
Cameron, Craig		EPA
Carlson, Annette		ECY
Cimon, Shelley		OR State
Decker, Jay		ECY
Diediker, Janet		ORP
Evans, Rana		ORP
Fletcher, Tom		ORP
Gao, Tracy		ECY
Hall, Katie		ECY
Harkins, Brian		ORP
Hastings, Rob		ORP
Hernandez, Paul		ORP
Irwin, Mat		ORP
Johnson, Jeremy		ORP
Jones, Mandy		ECY

February 13, 2020
Office of River Protection
Tri Party Agreement Consent Decree Meeting

PRINT NAME	SIGN NAME	ORG
Lobos, Rod		ORP
Lopez, Maria		WRPS
Lowe, Steven		ECY
Lucatero, Yoana		ECY
Lyon, Jeffery		ECY
McDonald, Dan		ECY
Menard, Nina		ECY
Mulkey, Charles		WRPS
Parker, Dan		WRPS
Pomiak, Andrew		ECY
Price, John		ECY
Rambo, Jeffrey		ORP
Serafin, Shane		ORP
Skorska, Maria		ECY
Stewart, Dustin		ORP
Temple, John		ECY
Trimberger, Bryan		ORP
Turner, Michael		MSA
Valle, Richard		ORP
Van Mason, Eric		WRPS
Walmsley, Mign		ECY
Wang, Oliver S		ECY
Whitelely, Craig		ORP

