

***Office of River Protection
Project Managers' Meeting Minutes***

April 4, 2019

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.



Wahed Abdul, DOE-ORP

Date: 5/9/19



Kaylin Burnett, DOE-ORP

Date: 5/8/19



Janet Diediker, DOE-ORP

Date: 5/1/19



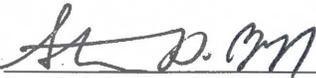
Paul Hernandez, DOE-ORP

Date: 5/6/19



Rod Lobos, DOE-ORP

Date: 5/7/19



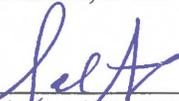
Steve Pfaff, DOE-ORP

Date: 5/7/2019



Jeff Rambo, DOE-ORP

Date: 5/1/2019



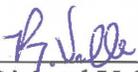
Sahid Smith, DOE-ORP

Date: 5/1/2019



Dustin Stewart, DOE-ORP

Date: 5/1/19



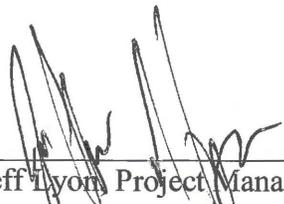
Richard Valle, DOE-ORP

Date: 04/30/2019



Jason Young, DOE-ORP

Date: 5/10/19



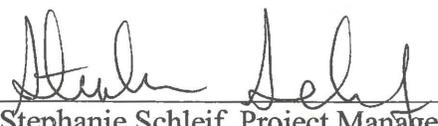
Jeff Lyon, Project Manager
Washington State Department of Ecology

Date: 5-15-19



Dan McDonald, Project Manager
Washington State Department of Ecology

Date: 5-14-19



Stephanie Schleif, Project Manager
Washington State Department of Ecology

Date: 5/20/19

TERMS

BOF	Balance of Facilities
CERCLA	<i>Comprehensive Environmental Response, Compensation and Liability Act</i>
CD	Consent Decree
CD-3B	critical decision
DEP	Direct Feed LAW Effluent Management Facility Process System
DFLAW	direct feed low-activity waste
DOE	U. S. Department of Energy
Ecology	Washington State Department of Ecology
EM-1	DOE Office of Environmental Management, Assistant Secretary
EMF	Effluent Management Facility
EPA	U.S. Environmental Protection Agency
ETF	Effluent Treatment Facility
ERSS	Extended Reach Sluicer System
EVMS	earned value management system
FY	fiscal year
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
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
TPA	Tri-Party Agreement
TSCR	tank-side cesium removal
UT	Ultrasonic Test
WRPS	Washington River Protection Solutions LLC

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TRI-PARTY AGREEMENT MONTHLY REPORT

The U.S. Department of Energy (DOE), Office of River Protection (ORP) reported on changes to a number of point of contacts (POC) in the near future as a number of staff have been pulled into other functions. These changes will be noted in the next monthly report.

1.0 ADMINISTRATIVE ITEMS/MILESTONE STATUS

Upcoming Meetings

The next project managers' meeting (PMM) is scheduled for Thursday, May 2, 2019, from 9:00 a.m. to 11:30 a.m. at the DOE-ORP building in Richland, Washington.

Recent Items Entered/To Be Entered into the Administrative Record

ORP provided the monthly Tri-Party Agreement (TPA) and Consent Decree (CD) reports for February 2018, which cover progress during the period of February 1-28, 2019, and the earned value management system (EVMS) data for January 1-31, 2019.

Tri-Party Agreement Milestone Status

ORP stated all TPA milestones reported on were either on schedule or in abeyance (see pgs. 3-5 in the monthly TPA report).

Tri-Party Agreement and Consent Decree Agreements, Issues and Action Items

(See agreements, issues and action item table):

Action No. 1 (TF-16-11-04): ORP reported they are trying to move forward on this but there is no change and this action remains on hold.

Action Item No. 2 (TF-18-07-01): ORP reported there was no change in the status of this action item from the previous month and this action remains open. The actionee was changed from Jan Bovier to Rod Lobos.

Action Item No. 3 (TF-18-10-01): ORP reported there was no change in the status of this action and it remains open; however, Washington State Department of Ecology (Ecology) expressed further concerns with unanswered questions on the engineering side of the Tank-Side Cesium Removal (TSCR) system. This action item has been expanded and meetings between ORP and Ecology are anticipated by the end of April 2019.

Action Item No. 4 (TF-18-10-02): ORP reported there was no change in the status of this action and it remains open.

Action Item No. 5 (TF-19-01-01): ORP reported this action is closed and it will be removed from the list.

Action Item No. 6 (TF-19-01-02): ORP reported this action is closed and it will be removed from the list.

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Action Item No. 7 (TF-19-02-01): ORP reported that briefings were held and this item can be closed and removed from the list. Ecology concurred.

2.0 SYSTEM PLAN

ORP reported negotiations are continuing relative to milestone M-062-45 and the current extension date is to April 19, 2019.

3.0 ACQUISITION OF NEW FACILITIES

ORP reported there has been no change in this activity and all milestones continue in Abeyance.

4.0 SUPPLEMENTAL TREATMENT AND PART B PERMIT APPLICATIONS

ORP reported there was no change in the status of the Supplemental Treatment and Part B Permit Applications and all milestones continue in Abeyance.

5.0 TANK-SIDE CESIUM REMOVAL SYSTEM

Significant Past Accomplishments

ORP noted the TSCR 60% design review was completed and the waste feed delivery system 60% design review was initiated. ORP personnel have been meeting with staff from DOE-Savannah site gathering lessons learned on their system, which is very similar to TSCR.

Significant Planned Actions in the Next Six Months

ORP reported on the following significant actions:

- 90% design review for TSCR system scheduled to begin April 15, 2019
- Fabrication and inspection plans for non-safety significant material scheduled to start the week of April 8-11, 2019
- Critical Decision (CD-3B) package is at headquarters with DOE Office of Environmental Management, Assistant Secretary (EM-1) for approval and ORP anticipates approval by April 15, 2019
- 60% design review for the Ion Exchange storage pad scheduled to begin April 15, 2019
- Efforts to create CD-2/3 package is continuing, which are deliverables specified in DOE Order 413.3B and includes the baseline schedule, risk registers, project cost estimate and preparation for the external independent review team evaluation and independent cost estimate (scheduled for late summer).
- 90% design review for the TSCR infrastructure is scheduled for May 13, 2019, and will include the feed pump, the jumper, hose-in-hose transfer lines, and drop legs.

Issues

No changes

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6.0 242-A EVAPORATOR STATUS

ORP reported no change to the status of campaign EC-10, which is on schedule for June 2019.

Significant Past Accomplishments

ORP reported that the rebuild of the spare PB-1 pump is near complete and should be reflected in next month's reporting.

Significant Planned Actions in the Next Six Months

ORP reported they are making progress and moving closer to initiating the 60% design review for the 242-A Evaporator slurry line replacement.

Issues

ORP reported resolution of Ecology's concern on testing of line DR 335 that will be used during the EC-10 campaign. A meeting was held with Ecology, and ORP provided them with documentation on historical pressure testing and activities. ORP noted it had received email from Ecology concluding ORP was in compliance with permits and could proceed as planned.

Ecology expressed additional concern on the Independent Qualified Registered Professional Engineer (IQRPE) Integrity Assessment Report for the 242-A Evaporator. A letter was issued from Ecology (18-NWP-114) indicating the 2018 integrity assessment was not adequate or complete. ORP responded they were aware of Ecology's concerns and provided answers to some of their concerns last month. Additional meetings between ORP, Washington River Protection Solutions LLC (WRPS) and Ecology are scheduled.

7.0 LIQUID EFFLUENT RETENTION FACILITY AND 200 AREA EFFLUENT TREATMENT FACILITY

ORP reported on the Liquid Effluent Retention Facility (LERF) basin volumes for the month ending February 2019. ORP noted most of the contents of basin 44 was transferred into basin 42; however, there is still 0.63 Mgal (630,000) gallons left in Basin 44 of what is called the heel, which is scheduled to be removed by mid-May 2019, in advance of cover replacement.

ORP noted they are currently updating next month's reporting volumes in next month's reporting.

Significant Past Accomplishments

ORP reported that total waste processed through Effluent Treatment Facility (ETF) at large still sits at 0 gallons, but processing is scheduled to start by mid-April.

ORP reported the replacement of three surge pumps has begun.

ORP reported the air compressor upgrade is complete and has been turned over to Operations and will be reflected in the next reporting period.

TRI-PARTY AGREEMENT MONTHLY REPORT

Significant Planned Actions in the Next Six Months

ORP reported on the continuance of plant cleanout and corrective maintenance outage, which has been the main activity delaying the start of processing. The Project hopes to be complete with this activity by mid-April 2019.

ORP reported on the continuance of fieldwork in support of the ETF integrity assessment with a handful of visual inspections and leak-tests performed in March. An IQRPE report is expected by the end of fiscal year (FY) 2019.

ORP reported on the following activities scheduled for FY 2019:

- Development of a Radiological Work Permit to gain better understanding of the radiological content/inventory in Basin 44 for the cover replacement, and to perform inspection of the remaining contents to inform the permit.
- On the rad survey of Basin 44, Ecology asked if ORP already had an idea of what to expect or if they are just doing confirmatory surveys to get ready. ORP responded they have the influent history of all the waste streams, but when they drain it down and are left with sediment or sludge, they are not certain what those readings will be, especially when the water is gone so it can't act as a shield.
- For the ETF Brine Stabilization permit, preliminary design has been completed, and a meeting with Ecology is scheduled to go over the high-level aspects.
- Installation of a system bypass on the ETF peroxide decomposer vessel upgrade is scheduled for April.
- ORP noted the decision has been made to add a fourth basin. The process will start this year, although it may take some time. The goal is for additional capacity to deal with either fluctuations or flow issues with the operability of the plant or in the likelihood of a leak developing in one of the other three basins. ORP noted that Ecology can expect to see the permitting process begin soon.

8.0 TANK SYSTEM UPDATE

8.1 Double-Shell Tank Integrity

Significant Past Accomplishments

ORP reported on the completion of a comprehensive inspection of tank AY-101 in January 2019. Tank and Pipeline Integrity is currently reviewing the inspection. ORP reported that two ultrasonic test (UT) inspections have been performed in FY 2019 (tanks AP-107, AP-108).

Significant Planned Actions in the Next Six Months

ORP reported enhanced visual inspections are planned in eight tanks for FY 2019.

ORP reported that two more UTs are planned for the remainder of FY 2019: tanks AP-102 (Annulus floor only) and AN-102 (full inspection). Tank AP-102 is expected to play a small role in the Direct-Feed Low-Activity Waste process.

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ORP reported work is continuing on procuring/designing floor cleaning technology in FY 2019 to clean the annulus floor of Tank AY-101.

Ecology stated that they are still waiting for a complete list of the visual inspections of the AP tanks from last year. ORP responded they have provided some of these but are themselves waiting on others, as this is a long process. ORP will work on getting these to Ecology in the next 60 to 90 days.

8.2 Single-Shell Tank Integrity

Significant Past Accomplishments

ORP reported visual inspections on seven tanks were completed in February 2019.

Significant Planned Actions in the Next Six Months

ORP reported visual inspections on eight tanks are scheduled for completion in the remainder of FY 2019. ORP reported visual inspections of three Miscellaneous Underground Storage Tanks (MUST) are planned for FY 2019, which have yet to be identified. ORP noted that one TFC-ENG-CHEM-D-42, *Tank Leak Assessment Process* has been completed and one is ongoing.

The State of Oregon asked about the visual camera inspections on the three planned MUSTs and how soon ORP needs to make a decision on which tanks they will inspect. The State of Oregon also enquired on the number of MUSTs there were on the site. ORP responded it is the same crew who performs the visual inspections for single-shell tanks (SST) and double-shell tanks and the MUST inspections will occur after those are completed. ORP noted they have a pretty good idea which tanks will be inspected and the soonest they could be performed is August 2019. ORP also stated that the list of MUSTs has been established and verified and they will provide that list to the State of Oregon.

8.3 Independent Qualified Registered Professional Engineer Activities

Double-Shell Tank System – ORP stated there is nothing new to report on this activity.

Single-Shell Tank System – ORP stated there is nothing new to report on this activity.

242-A Evaporator – Ecology voiced concern on the recent IQRPE recommendation that the next integrity assessment be conducted in 15 years, even though the permit requires a timeframe of 10 years. ORP responded this was merely a recommendation by the IQRPE and DOE has no plans to pursue a modification to the *Resource Conservation and Recovery Act* (RCRA) permit. Considering the age of the facility, past usage and future planned usage, it is a good management practice to stay in the 10-year timeframe.

ETF - ORP reported Meir Architecture Engineering is actively engaged with ETF engineering on facilities and processes.

219-S Tank System – ORP stated there is nothing new to report on this activity.

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9.0 IN-TANK CHARACTERIZATION AND SUMMARY

9.1 Reports Completed or Released

ORP stated two reports have been completed and three reports have been released.

9.2 Tank Sampling

Significant Past Accomplishments

ORP reported that solid grab sampling from Tank 241-A-105, in support of retrieval, was completed and three samples were sent to the laboratory.

Significant Planned Actions in the Next Six Months

ORP highlighted a core sample on tank 241-AY-101 that is planned for April 2019. This will be the first core sample in over 3 years and more core grab sampling will be planned for FY 2020 if this one goes well. Ecology enquired if ORP is essentially using this first core sample as a beta test to determine what will or will not work for future core sampling. ORP responded yes, and to determine costs, duration, resources and further recommendations received from the integrity group moving forward.

9.3 Best-Basis Inventory Updates

Significant Past Accomplishments

ORP reported that two best-basis inventory updates were performed in February 2019 for tanks 241-T-101 and 241-T-107.

Significant Planned Actions in the Next Six Months

ORP reported that March was a makeup month as inclement weather in February slowed work progress and therefore 11 tanks are planned for March 2019.

10.0 SINGLE-SHELL TANK CLOSURE PROGRAM

ORP reported there are no changes to the milestones for the SST Closure Program.

Significant Past Accomplishments

ORP reported construction of the SX Tank Barrier 1 (South) and Barrier 2 (North) have been completed.

Significant Planned Activities in the Next Six Months

ORP reported tiers 1, 2 and 3 RCRA closure plans are scheduled for completion in the next 6 months and are currently with Ecology for comment. Ecology stated they are in the process of reviewing these plans; however, TPA, Appendix I talks about the integration and coordination of the *Comprehensive Environmental Response, Compensation, and Liability Act* (CERCLA) and RCRA and all activities related to those areas. The closure plans received are specifically only

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RCRA. Ecology further stated that as the lead agency for closure from Appendix I, they have the responsibility to ensure that U.S. Environmental Protection Agency (EPA) requirements for RCRA and CERCLA on all sites are being met. Ecology enquired if there are other closure plans yet to be submitted by DOE. ORP responded that the way things are currently setup, there are the RCRA closure plans, tier 1, tier 2, and tier 3 and then there is going to be DOE Order 435.1 closure plans for the radionuclides. ORP stated it believed if the CERCLA process is applied, then a resulting Record of Decision would be required. Ecology further stated they would like to know how the requirements of tier 1, tier 2, and tier 3 closure plans required in the TPA, Appendix I for the RAD components will be submitted to Ecology to ensure EPA requirements are met. ORP agreed that subsequent discussions between DOE and Ecology on the CERCLA aspects will be scheduled.

ORP reported the permitting workshops with Ecology for the SST closure plans have begun.

ORP reported construction of the SX Tank farm expansion barrier has been pushed up and will be completed soon.

Issues

ORP reported the clean closure practicability demonstration for the SST has been submitted to Ecology and is awaiting their approval. ORP further stated this will go a long way in resolving some of the comments on the tier 1, tier 2, and tier 3 closure plans, as they are tied together.

11.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

ORP reported on milestone M-045-86 – the tank 241-C-105 retrieval data report is on schedule and will be completed sometime this summer, even though there were some issues with the lab.

12.0 TANK OPERATIONS CONTRACT OVERVIEW

5.01 - Base Operations – ORP reported the January 2019 numbers show a schedule variance of negative 1.7 million dollars, which is primarily due to re-sequencing work in the ETF basins. ORP requested WRPS do more of the maintenance in an outage mode in hopes of getting the facility back up to its processing levels sooner. ORP said it intended to run ETF at levels projected for supporting WTP to ensure readiness. ORP noted the cost variances for January 2019, were relatively minor, but the numbers for February 2019 will be considerably different due to the impacts of the snowy conditions experienced.

5.03 - Waste Feed Delivery/ Treatment Planning – ORP noted there is a tremendous amount of work scheduled and anticipated as the weather warms (summer).

CONSENT DECREE MONTHLY REPORT

1.0 CONSENT DECREE MILESTONE STATISTICS/STATUS – CONSENT DECREE REPORTS/REVIEWS

The reports, agreements, issues, and actions were discussed and updated as follows (there were no Consent Decree (CD) action items this month).

2.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

Significant Accomplishments during the Prior Month

ORP reported on the following completed accomplishments:

- Completed engineering work for removal of a stuck shield plug in the AX-102 02B pit; however, after several attempts to remove the stuck shield plug failed, the work was terminated. Tank AX-102 retrieval will proceed with two Extended Reach Sluicer Systems (ERSS) rather than three.
- Completed the excavation of hose-in-hose transfer lines from the conversion boxes to the AX-102 A and B pits.
- Completed the north/south electrical backbone conduit install and backfill.
- Started and completed installation of the Cathodic Protection System, after a long delay in which new parts were required.
- Completed removal of the A-104 thermocouple assembly in A-104, which is a tie-in for the A-farm ventilation system.

Ongoing Activities

ORP reported on the following ongoing activities:

- Continue electrical infrastructure installations throughout the farm.
- Continue field activities for removal of thermocouple from AX-103 R7C.
- Continue installation of AX-102 boreholes for sampling of soils underneath tanks A-104 and A-105.
- Continue installation of A-farm ventilation system (set the manifolds, installed supports and moved thermocouples to tie-in).
 - Continue installation of the high-resolution resisting resistivity leak detection monitoring equipment (some delays experienced in acquiring the necessary wire).

Significant Planned Activities in the Next Month

ORP reported on the following planned activities:

- Complete installation of some hose-in-hose transfer lines, shield plates and hose barns for tank AX-102 in support of retrieval operations.
- Complete Phase II of electrical work in control room trailers POR471 and 498.
- Complete installation of caustic and water piping systems from POR496 to the AX Farm - through diversion boxes.
- Complete removal of themocouple AX-103 R7C.
- Complete the A-103-C pit inspection.

CONSENT DECREE MONTHLY REPORT

Issues

ORP reported there are no significant changes from last month, except adverse weather conditions had a negative impact during the reporting period.

3.0 TANK WASTE RETRIEVAL WORK PLAN STATUS

Significant Planned Activities in the Next Month

ORP reported on one modification to the tank AX-102 schedule and vapor monitoring sections that were on hold pending resolution of the stuck shield plug. Since that work has been terminated, modification will be made to the retrieval system to go down to two ERSSs rather than three, which will undoubtedly impact the length and duration of retrieval operations.

4.0 RETRIEVE AND CLOSE SINGLE-SHELL TANKS

WBS 5.02 EVMS Data - ORP reported that the amount of work performed was ahead of the amount of work scheduled. There were some recovery actions taking place, but the cost of work performed was considerably higher than the final due to the SX tank farm barrier expansion. Some favorable variance schedule recovery in January 2019 was due to the mild weather and the nature of work performed (the AX slurry pump was installed sooner than planned). ORP reported on an unfavorable cost variance due to additional engineering construction hours needed for utility line and site grading over the SX tank farm barrier. ORP noted that problems were encountered with the A-tank farm exhaust structural steel rework when safety-significant bolts had to be replaced and landings repaired along with other minor fabrication errors.

5.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

ORP reported as of January 2019, Direct Feed Low-Activity Waste (DFLAW) modifications were 61% complete, engineering design was at 89% complete, procurement at 66%, and construction at 46%.

ORP reported total LAW Facility, Balance of Facilities, and Lab (LBL) facilities were 70% complete overall, project engineering design at 93% complete, procurement at 86%, construction at 87%, and startup and commissioning at 32% complete.

ORP reported that regular discussions are ongoing between Ecology and ORP management on the various topics associated with the U.S. Army Corp of Engineers report.

ORP reported on an upcoming contract award of an analysis alternative to the high-level waste treatment mission. Ecology stated it was their understanding that this analysis will be for the scoping portions and not the alternatives analysis itself. ORP responded Ecology's understanding was correct.

Project Schedule and Cost Variance Performance

ORP reported for January 2019, it had a net unfavorable schedule performance of 4.7 million dollars, mostly driven by Effluent Management Facility construction. ORP reported an

CONSENT DECREE MONTHLY REPORT

unfavorable schedule variance mostly due to the ongoing challenges with waste transfer piping and the significant defects received from the manufacturer. ORP reported an unfavorable schedule variance due to delays with rigor level detection instrumentation for low-activity waste (LAW) commissioning partly due to some realignment within the commissioning schedule for LAW to ensure it is correct with startup. ORP reported a net favorable cost trend of 2.8 million dollars.

6.0 PRETREATMENT FACILITY

ORP reported pretreatment (PT) continues to be focused on technical issue resolution. ORP reported the facility is down to T4 and T5 (technical issues 4 and 5) resolution, both of which are taking longer than anticipated. ORP reported the expected completion for both in the May timeframe, which will allow DOE to finalize a response back to the Defense Nuclear Facilities Safety Board that the technical issues are adequately resolved. ORP reported a slightly unfavorable cost variance in this area as it is taking longer to get through the review. Currently an outside technical group is performing the final check of the documentation and support closure. Ecology requested a comprehensive briefing in the June/July timeframe on all the technical issues to address where the facility stands, what resolution means, and the path forward.

7.0 HIGH-LEVEL WASTE FACILITY

ORP reported design is progressing and a 60% design review for the Radioactive Liquid Waste Disposal (RLD) system and the high-level waste feed process system is scheduled for this calendar year. ORP reported that a briefing to Ecology has been planned for April on the RLD system to discuss Ecology's holds. ORP reported the main focus in the facility is to continue monitoring maintenance and long term maintenance to ensure the facility is protected and all of the documentation has been developed and maintained. ORP reported on the hydrogen mitigation study, which has a targeted April completion date. ORP reported that although the facility has been understaffed they have been able to accomplish more work and currently have a favorable cost variance.

8.0 LOW-ACTIVITY WASTE FACILITY

ORP reported as of January 2019, the Low-Activity Waste (LAW) facility is at 74% complete overall, design at 93%, procurement at 90%, construction at 96%, and startup commissioning at 19%. ORP reported to date 54 of the 94 systems have been turned over to the startup organization, and five of those systems have gone through plant testing and are in the hands of plant management. Ecology enquired whether construction items, punch list items, will be moved to the startup organization now or if ORP plans to complete everything before it is turned over. ORP responded that all punch list items are reviewed to determine if they are A items, which cannot be turned over, or B items, which are separate. The startup organization is proactive in making sure all items are ready to go before they are turned over.

CONSENT DECREE MONTHLY REPORT

ORP reported on the following key items completed by the startup organization during the prior month:

- Energization of C1, Part 2 of the C1 ventilation system
- C5 ventilation system
- Auto-sampling system
- Plant cooling system

ORP reported between now and into summer there will be a big push of turnovers in the startup organization's hands and then into the early to late fall a big push to turnover. ORP will be following the activities closely and developing matrices, as appropriate.

ORP reported that continued focus will be on finalization walk downs, punch-list walk downs, moving forward on turnovers, and ensuring handovers are appropriate.

9.0 BALANCE OF FACILITIES

ORP reported on the receipt of Direct Feed LAW Effluent Management Facility Process System (DEP) 4 A/B, which are two large vessels that will receive the overheads from the Effluent Management Facility (EMF) evaporator, and in the in the month of April very large vessel 5s will be arriving, which will work as lag storage vessels for the EMF. ORP reported the main focus is continuing the installation of large and small bore piping. Some installation of HVAC and electrical commodities are being done as time and space allow in between the piping work. ORP reported that Bechtel National, Inc. has been running two shifts on piping, with much more limited scope on the back shift.

ORP reported the powerhouse is ready to ship (in three sections). Some of the acceptance testing was done at the factory, which will reduce the amount of startup testing that needs to occur once it hits the site.

ORP stated that for the balance of facilities the main focus continues to be on startup testing within the steam plant and chiller compressor plant. A subcontractor with a great deal of familiarity and expertise with these systems and this particular equipment has been hired to run part of the testing for the steam plant.

For the Analytical Laboratory, ORP reported all systems are in startup and startup is working through the systems with no major roadblocks.

ORP/Ecology TPA and CD Agreements, Issues, and Action Items –April 4, 2019

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 first Thursday of the month starting in January 2019. The TPA and CD monthly reports distribution will occur by the end of December via link to the Admin Record. This will be the format for report distribution and monthly meetings going forward for calendar year 2019.

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 associated RCRA units and it will outline the manner in which RCRA closure/post-closure plan requirements will be met in the work

¹ Washington State Department of Ecology

² Environmental Protection Agency

³ Resource Conservation & Recovery Act

⁴ RCRA Facility Investigation

⁵ Corrective Measure Study

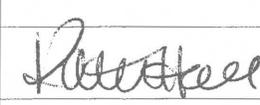
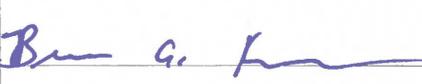
ORP/Ecology TPA and CD Agreements, Issues, and Action Items –April 4, 2019

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	TF-16-11-04 11-17-16	ORP to provide Ecology the T-112 work plan	In legal review. (07/19/2018) No change (01/03/2019)	Dusty Stewart	On Hold
2	TF-18-07-01 07/19/18	Integrate the ground water modeling for WMA-C PA with BP-5 remedial design for pump and treat at WMA-C (Jeff Lyon)	Held several meetings with RL/ORP on this and other integration issues in July and August. RL has the lead for groundwater monitoring program. ORP proposes closing. (10/18/2018) Ecology wants clarification when BP-5 Interim Record of Decision (IROD) is expected to be issued and that there is action from RL to address technetium-99 contamination. Action item to remain open (10/18/2018) No change (01/03/2019)	Rod Lobos	Open
3	TF-18-10-01 10/18/18	Follow up meetings for discussion and resolution of tank-side cesium removal (TSCR) related activities.	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 a invite to witness the tall column test. No change (01/03/2019)	Sahid Smith	Open
4	TF-18-10-02 10/18/18	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	Rod Lobos	Open

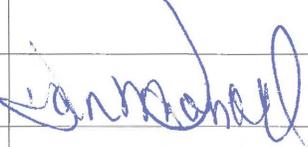
ORP/Ecology TPA and CD Agreements, Issues, and Action Items –April 4, 2019

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	WTP-19-			Wahed Abdul	
2					
3					

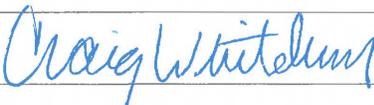
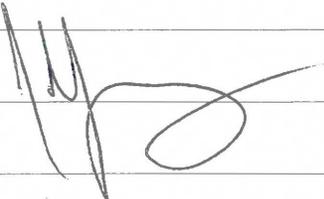
April 4, 2019
Office of River Protection
Tri Party Agreement Consent Decree Meeting

PRINT NAME	SIGN NAME	ORG
Abdul, Wahed		ORP
Alzheimer, Jim		ECY
Barnes, Mike		ECY
Beehler, Steve		ORP
Brasher, Stephanie		MSA
Brown, Dennis		ORP
Burnett, Kaylin		ORP
Cameron, Craig		EPA
Carlson, Annette		ECY
Cimon, Shelley		OR State
Decker, Jay		ECY
Diediker, Janet		ORP
Einan, Dave		EPA
Evans, Rana		ORP
Fletcher, Tom		ORP
Gao, Tracy		ECY
Grindstaff, Joni		ORP
Hall, Katie		ECY
Harkins, Brian		ORP
Hastings, Rob		ORP
Hernandez, Paul		ORP
Irwin, Mat		ORP
Johnson, Jeremy		ORP

April 4, 2019
Office of River Protection
Tri Party Agreement Consent Decree Meeting

PRINT NAME	SIGN NAME	ORG
Jones, Mandy		ECY
Joyner, Jessica		WRPS
Keith, Colleen		ORP
Kemp, Christopher		ORP
Lobos, Rod		ORP
Lopez, Maria		WRPS
Lowe, Steven		ECY
Lucatero, Yoana		ECY
Lyon, Jeffery		ECY
Martell, John		DOH
Mathey, Jared		ECY
McDonald, Dan		ECY
Menard, Nina		ECY
Mulkey, Charles		WRPS
Parker, Dan		WRPS
Pfaff, Stephen H		ORP
Pomiak, Andrew		ECY
Price, John		ECY
Qualheim, Jane		MSA (note taker)
Rambo, Jeffrey		ORP
Rochette, Beth		ECY
Schleif, Stephanie		ECY
Schmidt, John		DOH

April 4, 2019
Office of River Protection
Tri Party Agreement Consent Decree Meeting

PRINT NAME	SIGN NAME	ORG
Serafin, Shane		ORP
Skorska, Maria		ECY
Smith, Sahid		ORP
Stewart, Dustin		ORP
Trimberger, Bryan		ORP
Turner, Michael		MSA
Turner, Vanessa		ORP
Utley, Randell		DOH
Valle, Richard		ORP
Van Mason, Eric		WRPS
Waimsley, Mign		ECY
Wang, Oliver S		ECY
Whalen, Cheryl		ECY
Whitelely, Craig		ORP
Yasek, Donna		BNI
Young, Jason		ORP