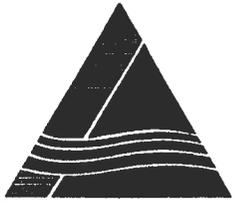


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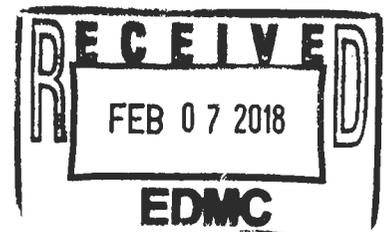


Tri-Party Agreement

Office of River Protection
Project Managers' Meeting Minutes

2440 Stevens Center
Richland, Washington

October 19, 2017



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CONCURRENCE SIGNATURES

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers' Meeting.

 12/14/17

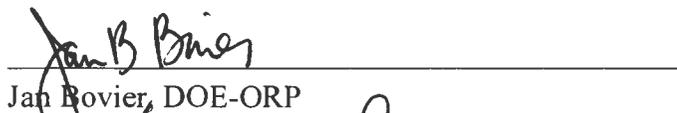
Wahed Abdul, DOE-ORP

Date: 12/14/17



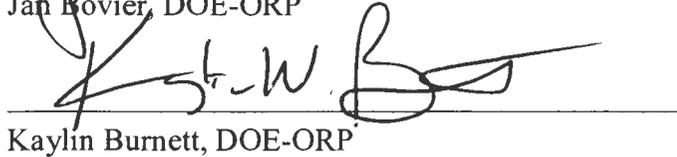
Jeff Bruggeman, DOE-ORP

Date: 12/14/17



Jan Bovier, DOE-ORP

Date: 11/14/2017



Kaylin Burnett, DOE-ORP

Date: 1/24/18



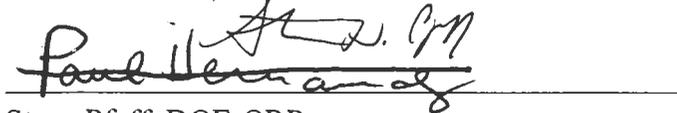
Joni Grindstaff, DOE-ORP

Date: 1/18/18



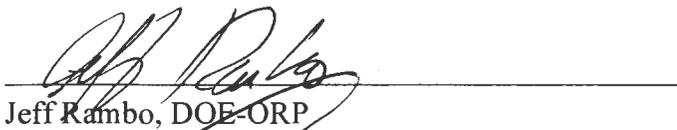
Paul Hernandez, DOE-ORP

Date: 1/18/18



Steve Pfaff, DOE-ORP

Date: 1/24/2018
~~11/20/2017~~



Jeff Rambo, DOE-ORP

Date: 11/20/2017



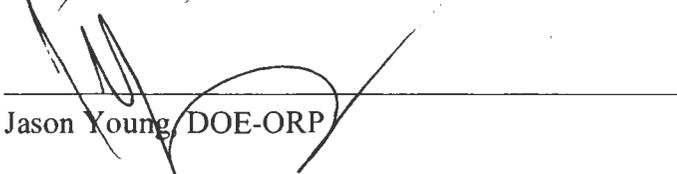
Dustin Stewart, DOE-ORP

Date: 11/16/17



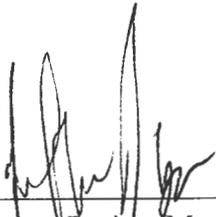
Richard Valle, DOE-ORP

Date: 11/14/2017



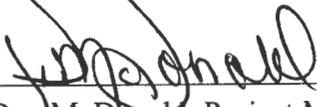
Jason Young, DOE-ORP

Date: 12/14/2017



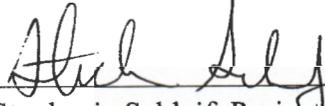
Jeff Lyon, Project Manager,
Washington State Department of Ecology

Date: 1-30-18



Dan McDonald, Project Manager,
Washington State Department of Ecology

Date: 1-30-18



Stephanie Schleif, Project Manager,
Washington State Department of Ecology

Date: 1/31/18

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TRI-PARTY AGREEMENT MILESTONE REVIEW AND MONTHLY SUMMARY REPORT

1.0 ADMINISTRATIVE ITEMS/MILESTONE STATUS

Upcoming Meetings

The next project managers meeting (PMM) is scheduled for Wednesday, December 20, 2017, from 1:00 p.m. to 3:30 p.m. at the ORP office in Richland, Washington. The ORP quarterly milestone review is scheduled for November 16, 2017, from 8:00 a.m. to 10:00 a.m. at the Ecology office in Richland, Washington.

Recent Items Entered/To Be Entered into the Administrative Record

U.S. Department of Energy (DOE), Office of River Protection (ORP) provided the monthly TPA and CD reports.

Tri-Party Agreement Milestone Status

ORP noted that milestones M-045-91E2 and M-045-92S were completed at the end of fiscal year 2017.

Office of River Protection/Washington State Department of Ecology Tri-Party Agreement and Consent Decree Agreements, Issues and Action items – October 2017

The action items were discussed and updated as follows (see agreements, issues and action items table):

Action No. 1 (TF-16-11-04)

ORP stated that there was no change in the status of this action. This action remains on hold.

Action No. 2 (TF-16-11-05)

ORP stated that there was no change in the status of this action, and it has been elevated to the engineering manager. ORP added that it will be elevated again if needed. This action remains open.

Action No. 3 (TF-17-04-01)

ORP reported that there was a 180-day extension on the Class 2 permit modification associated with the 242-A Evaporator diesel generator. This action remains open.

Action No. 4 (TF-17-08-01)

Ecology stated that internal discussions are still in progress regarding the Tier 1, 2 and 3 closure plans for Waste Management Area C (WMA-C). ORP noted that Ecology sent a letter stating that comments will be transmitted towards the end of November 2017. This action remains open.

Action No. 5 (TF-17-08-02)

ORP stated that the Ecology and ORP project managers have not had an opportunity to meet and discuss the path forward about re-establishing a pre-project manager meeting before the quarterly milestone meeting. This action remains open.

Action No. 6 (TF-17-08-03)

ORP noted that this action was closed last month and it will be removed from the action table. This action is closed.

Action No. 7 (TF-17-08-04)

ORP stated that it still is planning to schedule a meeting with Ecology in November 2017 to discuss AY-102. Ecology noted that the AY-102 video inspection had been made available. This action remains open.

Action No. 8 (TF-17-08-05)

ORP stated that this action was closed last month and it will be removed from the action table. This action is closed.

Action No. 9 (TF-17-08-06)

ORP stated that this action was closed last month and it will be removed from the action table. This action is closed.

Action No. 10 (TF-17-08-07)

ORP stated that this action was closed last month and it will be removed from the action table. This action is closed.

Action No. 11 (TF-17-09-01)

ORP reported that there was a brief discussion with Ecology regarding this action, but a resolution was not agreed to. This action remains open.

2.0 SYSTEM PLAN

ORP stated that System Plan 8 is on schedule to be transmitted to Ecology on or before the milestone due date of October 31, 2017. ORP noted that some editorial changes were made to the System Plan 8 document, but there were no changes to the data or the technical substance of the scenarios. ORP stated that the System Plan 8 document is currently in legal review at DOE-Headquarters. Ecology inquired about any concerns that the DOE-Headquarters legal review would impact the submittal date. ORP responded that if the legal review is not completed in time, System Plan 8 will still be submitted to Ecology by October 31, 2017. Ecology asked if submittal of System Plan 8 would be considered an official submittal if ORP had not received a response from the DOE-Headquarters legal review. ORP responded that it will be considered an official submittal, and that DOE-Headquarters would not be changing any of the data in System

Plan 8. ORP added that if there were any changes in status between now and the submittal date, Ecology will be notified.

3.0 ACQUISITION OF NEW FACILITIES

ORP noted that the status of the milestones listed in the monthly summary report continue to be in abeyance. ORP added that negotiations will be initiated in the near future, based on the system Plan 8 results that will impact the descriptions and timing of the milestones.

4.0 SUPPLEMENTAL TREATMENT AND PART B PERMIT APPLICATIONS

ORP stated that the status of the milestones continue to be in abeyance. ORP noted that there are seven elements to be negotiated under milestone M-062-45, and the timing of tank retrieval sequencing and supplemental treatment selection are included in those seven elements, which will be negotiated based on the results of System Plan 8.

5.0 LOW-ACTIVITY WASTE PRETREATMENT SYSTEM (LAWPS)

Significant Past Accomplishments - ORP stated that it has been working through the design process for LAWPS, and the contractor Washington River Protection Solutions (WRPS) has submitted all the necessary documents to obtain authorization for Critical Decision 3A (CD-3A). ORP noted that CD-3A authorizes site preparation and limited procurement and fabrication of some of the long-lead equipment components. ORP added that CD-3 authorizes full construction. ORP stated that the CD-3A process is currently not moving forward, and that a further description would be provided under significant planned actions. ORP noted that a CD-3A independent cost estimate review was conducted.

ORP stated that from a nuclear safety basis standpoint, another key deliverable for the design process is a Preliminary Safety Design Report, which was submitted by WRPS. ORP conducted an extensive review of the report, and it was approved via ORP's Preliminary Safety Validation Report. ORP noted that there are a couple more documents that will be required before the final Documented Safety Analysis is approved, and those documents are on track to be produced.

Significant Planned Actions in the Next Six Months – ORP referred to the on-site meeting on August 15, 2017, between the DOE Acting Assistant Secretary for Environmental Management (EM-1), the Director of Ecology and the Ecology Nuclear Waste Program manager regarding EM-1's initiatives to improve the progress with tank farm cleanup. EM-1 followed up with a letter to the Ecology director regarding the August 15, 2017 meeting and the plan for future discussions.

ORP stated that one of the items discussed during the August 15, 2017 meeting was the activity associated with LAWPS. ORP noted that LAWPS has been on a very aggressive schedule from the beginning of the project, and there have been some design challenges. ORP stated that testing has shown that the hydrogen mitigation strategies were not working, and efforts are under way with the fourth plan to ensure the whole facility is in a safe state in the event of a hydrogen buildup in the ion exchange vessels. ORP noted that with changes in DOE direction, design challenges and more safety systems than originally anticipated at conceptual design, the cost for LAWPS has increased substantially and also places the schedule delivery at some risk.

ORP stated that to date, the LAWPS schedule delivery has been on track to allow the Waste Treatment Plant (WTP) Low Activity Waste (LAW) facility to complete its hot commissioning on time. ORP noted that when a baseline is done for a project, it is done at an 80 percent confidence level, and 80 percent confidence reflects a conservative risk analysis. ORP stated that the 80 percent confidence level delivery date of LAWPS is in the 2025 time frame, taking into account all of the risk analyses. ORP added that it is aiming for schedules much earlier than the 2025 time frame, but EM-1 expressed concerns regarding schedule delivery. As a result, an external expert review team was commissioned, which conducted a review during the last week of September 2017. ORP noted that the team was made up of representatives from AECOM and other contractor companies working in the DOE complex, and representatives from the nuclear industry, including several personnel who worked in Japan on the ion exchange processes to clean up contaminated water from the Fukushima accident.

ORP stated that the expert review team provided recommendations for scaling back LAWPS while still preserving the functionality, but ultimately delivering a lower cost project. The use of a tank-side cesium removal capability was also recommended as a near-term effort to produce low activity waste feed on time to allow the WTP LAW facility to complete hot commissioning.

ORP stated that no direction has been given to WRPS to change the current LAWPS design, which would have Consent Decree (CD) milestone implications, but WRPS has been directed to provide a contract proposal on the tank-side cesium removal capability. ORP stated that direction was also given to WRPS to define a rescope of LAWPS using both elutable and non-elutable ion exchange media.

ORP stated that a letter was sent to the Undersecretary for Management Performance (S-3), which provides approval for the LAWPS project, requesting a suspension of selected design and testing activities while the path forward is determined for LAWPS. Ecology requested a copy of ORP's letter to S-3.

ORP Action: ORP to provide Ecology a copy of the letter to S-3.

ORP referred to the tank closure cesium removal skid that is being assembled at the local Columbia Energy and Environmental Services. The skid uses four ion exchange columns with non-elutable media, and it is designed for one particular tank at Savannah River as a technology demonstration. ORP stated that the salt cake in the tank will be dissolved, and the liquid will be processed through the ion exchange columns to produce a decontaminated salt solution, which is, in a sense, low activity waste feed. ORP noted that the tank closure cesium removal skid doesn't have the same capabilities that are needed to process the double-shell tank liquids, but there would be lessons learned if a decision is made to use a tank-side cesium removal system.

Ecology asked if ORP was declaring that the CD milestone is at risk, based on the information that ORP just shared. ORP responded that it was not declaring the CD milestone is at risk.

Ecology referred to the first bullet under significant planned actions in the TPA monthly report, and expressed concern that the statement implies an expectation for Ecology to respond. Ecology stated that there are different forums at a senior management level where the discussion needs to be tracked as opposed to tracking it in the PMMs. ORP responded that the intent of the first bullet is to indicate there will be future conversations. Ecology agreed that future

conversations are a likely possibility, but Ecology should not be responsible for responding as a significant planned action in the PMM forum. Ecology added that senior management is in agreement with the concern. ORP responded that Ecology's concern was understandable.

Regarding the second bullet under significant planned actions, Ecology requested a copy of the report from the external expert review team as soon as possible. Ecology noted that ORP may potentially be pursuing parallel paths for a scaled-back LAWPS and tank-side cesium removal capability. Ecology stated that LAWPS, as baselined, may not meet the 2023 delivery schedule, and asked how the pursuit of a tank-side cesium removal capability could meet a 2023 schedule. Ecology noted the crowded conditions at tank farms as they currently exist, and asked about the physical configuration of a tank-side cesium removal system, how it would fit into tank farms, and whether it would be useful for what is to be accomplished. Ecology pointed out that if a non-elutable waste form is chosen for use in a tank-side cesium removal system, it would result in another secondary waste for disposition. Ecology added that it is not aware of any technical information that proves the waste could be fed into the high level waste stream as a viable option.

Ecology continued that it had not seen a business case from ORP that indicates the alternatives being considered are valid, and asked if a business case is in process. ORP stated that a business case analysis will need to be done, but since the information from the EM-1 discussion is so recent, ORP was not aware of a business case currently in progress. ORP added that there are several discussions with local management as well as the headquarters management team to ensure all the necessary activities are initiated.

Ecology responded that ORP has essentially 72 months until 2023 for schedule delivery in order for hot commissioning to be complete. Ecology added that backing up 12 months from the 72 months to meet cold commissioning, that leaves 60 months to be ready to support direct LAW feed. Ecology stated that based on what little information ORP is providing today, meeting the schedule for cold and hot commissioning appears untenable.

Ecology stated that as soon as possible, when ORP can turn the business case into a technical case and a baseline, Ecology would like to review it to determine whether or not what is being suggested is reasonable. Ecology added that it would also like to know at what point ORP would be considering a go/no-go decision, either with direct LAW feed with LAWPS as currently configured, or discontinuing the LAWPS initiative and going in another direction. Ecology pointed out that if ORP decides to pursue a new system other than LAWPS, there are many factors to consider that will take time, such as the permitting process and reviewing SEPA impacts and compliance with NEPA. Ecology added that the new system would need to be designed and constructed, and there are roughly 60 months to complete everything, which is a very aggressive schedule.

ORP acknowledged that it shares many of Ecology's concerns and questions. ORP stated that those concerns and questions will need to be worked through, particularly the idea of using non-elutable ion exchange media. ORP noted that the discussions between EM-1 and Ecology have been informal and not in an official manner that constitutes any commitment on either side in terms of the path forward.

Ecology expressed an interest in the full lifecycle view of the cost for a tank-side cesium removal system. Ecology pointed out that although the tank-side cesium removal may be a short-term fix in terms of accelerating operations, if there is a large amount of waste that was not planned for, and the cost is substantial to manage and dispose the waste, there would not be any cost savings over the long term.

ORP agreed with Ecology, and provided some perspective regarding discussions going forward. ORP stated that from the start of the LAWPS project, there has been discussion about the best way to manage cesium that is currently in the tank farms. ORP noted that the cesium/strontium currently make up about 98 percent of the radioactivity in the tank farms and are the two main radionuclides of concern. ORP stated that both cesium and strontium have about a 30-year half-life, and do not represent the contaminants of concern in terms of an environmental impact statement. ORP added that for safe management of tank farms and processing equipment and protection of workers, the cesium/strontium are an important concern. ORP stated that to produce low activity waste feed, the cesium and strontium are removed to the maximum extent practicable so a lesser radioactive waste stream can be produced to make the glass.

ORP noted that in the direct feed LAW effort, there have been many discussions about whether it is appropriate to capture the cesium on elutable ion exchange media, strip it off every week and send it back to the tank farms where it can be safely managed, or if it makes more sense to capture the cesium on non-elutable ion exchange media. ORP pointed out that there were discussions with Ecology, and three alternative analyses were done. The Hanford Advisory Board (HAB) conducted a separate analysis of alternatives about how to do the direct feed LAW program. ORP stated that all of the reports concluded that it made more sense to use elutable media and manage the cesium in tank farms. ORP noted that it was not the ideal solution, but it was considered a high confidence, practical solution.

ORP pointed out that the discussion has never stopped regarding the approach to capturing the cesium, and the use of non-elutable media has been explored in terms of both using it as well as grinding it up and introducing it as high level waste melter feed. ORP indicated that it will likely be a subject of future discussion between EM-1 and the director of Ecology.

ORP noted that the tank closure cesium removal pretreatment skid that has been designed and fabricated at Columbia Energy and Environmental Services for use at Savannah River will be deployed within a two-year time frame under a technology demonstration permitting arrangement. ORP stated that the cost is about \$25 million for the design and fabrication and installation, and it includes the equipment to dissolve the salt cake. ORP noted that the cost is a vastly smaller amount than what is being considered so far with the LAWPS. ORP pointed out that the skid does not take the place of the much larger salt waste processing facility that is in commissioning at Savannah River, but it was an effort that was requested by the regulators to explore as a possibility.

ORP stated that if the tank-side cesium removal capability is pursued at the Hanford Site as more than a technology demonstration and undertaken as a capital asset project, that multi-year effort would preclude it from being available on time. ORP added that if the opportunity is pursued to use it as a technology demonstration to produce near-term LAW feed and explore how tank-side cesium removal could work at tank farms and be assembled safely, there is a potential opportunity to be successful. ORP stated that continued discussions and decisions will occur at a

senior management level and the project manager level to determine the path for the permitting strategy. ORP noted that a tank-side cesium removal system is not being discussed as a replacement for LAWPS, but it has the potential to provide a higher confidence and opportunity to meet low activity waste feed requirements for hot commissioning. Ecology stated its understanding that there are a variety of alternatives, such as a LAWPS only project, a tank-side cesium removal capability, or a combination of both. Ecology noted that there are continued funding constraints and CD milestone schedules that need to be adhered to, so it is reasonable to expect the parties to move forward in the best way possible.

Ecology expressed a concern with tank-side capability in a non-elutable form with regard to the amount of cesium that can be removed until it becomes very hot and a remote-handled system, resulting in a set of its own problems. Ecology requested copies of process flow sheets and mass balances as soon as possible in order to get a sense of whether or not what ORP is suggesting is viable. ORP responded that the intent is to share the information with Ecology. ORP stated that the columns in the system that was built at Columbia Energy and Environmental Services are self-shielded with lead shielding around the column. ORP noted that if it were to design that kind of a system, the type of shielding would have to be evaluated to consider whether there are other materials that might be more amenable. ORP continued by explaining that the columns would be extracted after a predetermined amount of cesium had been loaded on each column, and a new column would be plugged in and connected. The columns with non-elutable media would be flushed and dried out before they're removed from the box that encloses the columns and then placed on a storage pad, with a provision for natural ventilation to remove any heat coming off the cesium decay in the ion exchange column. ORP stated that if it were to do a tank-side cesium removal system with non-elutable media, then a similar type of layout would be used.

ORP referred to a separate DOE-RL operations project that is considering dry storage of the 1,936 cesium and strontium capsules that are currently in a pool of water at the Waste Encapsulation Storage Facility (WESF) at the end of B Plant. ORP indicated there are about 70 to 100 million curies of radioactivity in the capsules, and the plan under consideration is to put the capsules in dry cask storage on a storage pad on the site. ORP stated that if a tank-side cesium removal demonstration is done using tank AP-107, the tank has 700,000 curies of radioactivity, which is less than one million curies of radioactivity that can be captured on non-elutable ion exchange media. ORP indicated that the non-elutable media could be stored on the same pad as the cesium/strontium capsules, or a different pad in the same location.

ORP stated that the point is an evaluation is needed about what is being done, not just in tank farms but across the Hanford Site, and taking into account the risk analysis as to what makes the most sense. ORP stated that the evaluation of using a tank-side cesium removal system should consider where the ion exchange units would be stored, how it compares to other items that are being considered for storage, or if the cesium should be returned to tank farms for storage until the high level waste melters are available.

Oregon Department of Energy (ODOE) inquired about the estimates on the number of ion exchange units that would be needed to capture the cesium and the frequency of changing out the units. ORP responded that there are four columns for the tank closure and cesium removal system at Savannah River, and the system will be used on a tank that has about 70,000 curies, which is one-tenth of the curies in AP-107. ORP added that the four columns will handle all the

cesium in the tank at Savannah River, and it is not anticipated that the columns will have to be changed out. ORP stated that if the system were to be implemented in tank farms using Savannah River's design and conservative limitations for cesium loading on the columns, the potential would be to go through 40 columns. ORP stated that if a tank-side cesium removal capability were designed, it would be designed to match the needs in tank farms. Ecology noted that the vendor information available so far is that under current configurations, the resins can only be loaded to about 40 to 50 percent before reaching a tipping point in the ability to handle them safely.

Ecology inquired about the objective of the Savannah River demonstration project. ORP responded that the project was an agreement between Savannah River and their regulator to demonstrate the technology. ORP noted that Savannah River is already operating a different pretreatment system, the actinide removal process and the modular caustic solvent extraction process (ARP/MCU) for producing the saltstone feed as well as diverting the cesium to their high level waste melter that is in operation. ORP added that it did not have the details regarding the agreement that Savannah River made, but it provides a greater assurance of producing low activity waste feed on time for the direct feed LAW effort. Ecology indicated that a tank-side cesium removal system would likely have a significant impact on tank farms as well as the effluent treatment focus.

Ecology inquired about the maturity of Savannah River's technology demonstration project. ORP responded that in lieu of trying to speak to Savannah River's technology demonstration, it noted that extensive testing has been done with the spherical resorcinol formaldehyde (SRF) resin, which is the ion exchange media that was going to be used for LAWPS. ORP added that the ion exchange media that Savannah River is using in their tank closure cesium removal system is crystalline silicotitanate (CST) media, which is mature as well and has been used in Japan for the Fukushima cleanup along with a number of other ion exchange media. ORP noted that Japan's cleanup is being done with relatively neutral pH, and the Hanford tank farms and Savannah River's waste are highly caustic. ORP added that CST media works well in a high caustic environment and has been tested with actual waste. ORP stated that Savannah River pursued using the CST media in previous technology demonstrations in prior years that were ultimately cut off due to funding, and ORP participated with Savannah River in considering some of the possibilities in earlier iterations of the LAWPS project.

ORP summarized that there is a reasonable level of maturity in terms of using the media. ORP noted that CST media does not have to be customized for different vats of tank feed. ORP stated that there is one vendor for the CST media and one vendor for the SRF resin that was going to be used in LAWPS. ODOE inquired about a bottleneck for acquiring the media since there is only one vendor. ORP responded that there has been no issue with acquiring the SRF resin from the vendor in Norway, and several years of supply are being stocked. ORP noted that the SRF resin is the resin designed for use in the WTP Pretreatment Facility. ORP added that the CST media has been produced in significant quantities for the Japan cleanup. ORP pointed out that all the appropriate steps need to be taken to make the alternative selections and begin the design, and it is not at the point of making firm product decisions, although there is reasonable confidence that there are good options that can be purchased that will work with the tank waste.

Ecology suggested that ORP consider the potential impacts, not only on tank farms, but on the whole lifecycle. Ecology pointed out that tank farms or WTP processing do not represent the

whole story, and that design, construction, characterization, management of ultimate waste forms and a variety of other items need to be considered. Ecology reiterated the importance of the process flow sheet being available as soon as possible.

6.0 242-A EVAPORATOR STATUS

ORP reported that the EC-07 campaign was completed in early September 2017, and the total waste volume reduction for FY17 was about 525,000 gallons. The next planned campaign is EC-08, and it is planned in the March/April 2018 time frame. ORP stated that the evaporator is in an electrical outage to do corrective and preventative maintenance activities. The control room air conditioning unit and the fire alarm control panel will be replaced, and a new sampling station will be installed. ORP noted that there have been issues with the S-2 gas air purge line, and it will be cleared out. Ecology inquired when unplugging of the gas air purge line will be completed. ORP responded that the work plan involves entry into the evaporator room, and the line should be cleared within a few weeks, possibly by next month.

Note: See discussion under the CD section regarding the spare reboiler requirement status.

7.0 LIQUID EFFLUENT RETENTION FACILITY/200 AREA EFFLUENT TREATMENT FACILITY (LERF/ETF)

ORP noted that the AZ-301 tanker shipments into Basin 42 were the first AZ-301 shipments received since September 2016. ORP stated that the FY17 total waste volume reduction in the LERF basins was about four million gallons. Ecology inquired about the margin of error on the numbers for the LERF basins. ORP responded that the only margin of error would be from the flow totalizer at the surge tank, and it would be less than two percent. ORP pointed out that WRPS did not stop when it met the FY17 goal for waste volume reduction of four million gallons, and the number has exceeded the four million gallons.

ORP reported that WRPS will continue the campaign and outage scheduling during the next six months, and it has been tasked with the goal of achieving four million gallons waste volume reduction in FY18, which is already being credited.

ORP stated that efforts are under way to replace the failed LERF Basin 44 pump. The old pump has been removed, and the new pump should be installed this week. ORP noted that Basin 43 has been out of service, and the plan is to move the contents of Basin 42 into the newly upgraded Basin 43 and bring it back into service. When the new pump is installed in Basin 44, the transfer from Basin 42 to Basin 43 will be initiated.

ORP stated that the Basin 42 cover replacement will be done in FY18, and the design effort is expected to start in the December 2017 time frame. Ecology asked if an update on Basin 42 cover replacement would be provided during the December 2017 PMM. ORP responded that the information will be included in the monthly summary report.

8.0 TANK SYSTEM UPDATE

Single-Shell Tanks (SST) Integrity – ORP noted that the Independent Qualified Registered Professional Engineer (IQRPE) subcontract was awarded for the SST integrity assessment, and the kick-off meeting was held on September 11, 2017. Ecology indicated that it was not invited

to the kick-off meeting, and requested the outputs from the meeting. Ecology noted that it had viewed the scope of work. ORP stated that it will follow up with WRPS to ensure Ecology is invited to future meetings.

ORP Action: ORP to provide Ecology outputs from the SST integrity IQRPE kick-off meeting held September 11, 2017.

Significant Planned Actions in the Next Six Months - DST Integrity - ORP stated that the ultrasonic testing (UT) inspections have been completed on the three SY tanks, and the report is being prepared. ORP noted that Ecology had requested to review the report, and it will be provided as soon as it is released.

Ecology referred to the A-105 inspection and the information that there had been a lot of contamination that interfered with the inspection. Ecology asked if that was a different inspection than the one in the A-105 report that has been completed. ***ORP responded that it would follow up with Ecology's inquiry regarding the A-105 inspection and contamination that might have interfered with the inspection.***

Ecology initiated a discussion regarding the path forward for addressing the AP-102 annulus floor thinning. ORP responded that there was a discussion in a meeting regarding AP-102 and the secondary liner thinning. A letter was sent to Ecology stating that it may be appropriate to include some further planned actions in the TPA monthly summary report. ORP added that it is working on the process, and an email was sent to Ecology. Ecology stated that a formal letter to senior management at Ecology is needed, and Ecology has the information to be able to make a decision about where AP-102 should be addressed.

Independent Qualified Registered Professional Engineer Activities - ORP noted that the 242-A Evaporator IQRPE was discussed under the 242-A Evaporator. Ecology inquired about the results of the fluorescein dye leak test for the E-A-1 reboiler. ORP responded that the final results have not been issued, but the preliminary results were similar to the last rate from several years ago, which means there was positive result but not at the level of a leak. ***Ecology requested the final results for the fluorescein dye leak test for the E-A-1 reboiler when it becomes available. ORP agreed to provide Ecology the final results.***

ORP reported that preparations are under way for the ETF IQRPE integrity assessment in 2019. ORP stated that the necessary steps are being taken to collect more data, which includes UT testing, leak checks, visual inspections, and a few other analyses. ORP noted that Rev. 0 of the ETF Integrity Program Plan will be released soon, which will provide a baseline for updating Rev. 1. Ecology inquired about the progress of the UT scanning that is under way. ORP responded that all of the UT scanning has been completed, and the data is being interpreted. Ecology asked if all of the tanks were scanned or only specific tanks. ORP responded that a select few tanks were scanned that were missing information. ORP explained that the program plans for scanning some tanks on a certain frequency, and the tanks that were scanned did not have the information readily available. ***ORP stated that it would provide Ecology the tanks where the scanning was completed.***

ORP reported that the 219-S and 222-S IQRPE is on schedule, and the contract should be awarded during the second quarter of FY18.

9.0 SINGLE-SHELL TANK INTEGRITY ASSURANCE

ORP noted that the kick-off meeting for the SST IQRPE was held on September 11, 2017, and ORP has an action to provide Ecology the outputs from the meeting.

10.0 IN-TANK CHARACTERIZATION SUMMARY

Significant Planned Actions in the Next Six Months - ORP stated that the AY-102 solids grab sample that is shown in today's monthly summary report as planned for November 2017 may be pushed out to February 2018. ORP noted that the AY-102 video has been taken, and the path forward has been identified that may make the grab sample unnecessary. ORP added that the AY-102 grab sample may provide information that could relate to other tanks, and it may be worthwhile to take the sample.

11.0 SINGLE-SHELL TANK CLOSURE PROGRAM

ORP noted that agreement was reached with Ecology on M-045-92S regarding the location for barriers 3 and 4, and ORP and Ecology signed a letter that barrier 3 will be the TX Farm and barrier 4 will be the U Farm. ORP stated that a TPA change control form package for the M-045-92 milestone series is being prepared for transmittal to Ecology. The change package will include the SX Farm barrier addition and the dates going forward.

Ecology reiterated its request from last month's PMM to include the status of M-045 84 in the monthly summary report. Ecology noted that the milestone is associated with initiating negotiations, but the negotiations have not been completed. ORP acknowledged Ecology's request.

Significant Planned Activities in the Next Six Months – ORP referred to Ecology's request regarding the first bullet, which was discussed today under the LAWPS section, and stated that this bullet item will be removed from the TPA monthly summary report.

Issues – ORP noted that the reports listed are in Ecology review and comment. ORP stated that a meeting was held with Ecology regarding the path forward for the practicability demonstration (first bullet report), and ORP is working on a response.

Regarding the third and fourth bullet reports, ORP stated that there is agreement that Ecology would provide comments on the RFI/CMS after the Performance Assessment (PA) comments are completed. ORP added that weekly meetings will be scheduled with Ecology to begin discussing the PA comments.

ORP stated that with regard to the RCRA Tier 2 and 3 closure plans, another letter was received from Ecology requesting an extension to the comment period until the end of November 2017 (fifth and sixth bullet).

12.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

ORP noted that the C-111 retrieval data report (RDR) was transmitted to Ecology, and there are no RDRs planned for the next six months. ORP added that it will probably be close to a year before the C-105 RDR is ready for transmittal to Ecology.

13.0 TANK OPERATIONS CONTRACT OVERVIEW

ORP reported that waste feed delivery (5.03) performance was able to recover schedule towards the end of the fiscal year due to waste feed qualification and hot cell testing activities, and also planning associated with the AP-105 tank upgrade planning. ORP stated that the positive cost variance was due to budgeting for some management that wasn't needed and cost offsets associated with work by Savannah River National Lab.

ORP noted that the treat waste section (5.5) is associated with LAWPS activities. ORP stated that less work was done than planned, and the cost was more than planned, resulting in unfavorable schedule and cost variances. ORP stated that the discussion today under the LAWPS section noted that the contractor went through several different strategies for hydrogen mitigation. Testing of a gas removal system proved to not reliably remove enough flammable gas off the ion exchange column to ensure the column is kept in a safe state. ORP stated that the contractor has moved to a vented ion exchange type of design. ORP stated that as the hydrogen bubbles develop, they will be vented out of the ion exchange columns during a loss of flow situation and go to a much larger head space tank in the building.

Ecology asked if the vented ion exchange is an-all passive design. ORP responded that it is passive and there is nothing purposely stripping the hydrogen off the ion exchange column. ORP noted that because there is the potential of having a flammable atmosphere in the ion exchange column during a sustained loss of flow situation, that head space could be developed and exceed the flammable gas limits. ORP stated that the ion exchange vessels would be designed to withstand any kind of a deflagration or detonation that could occur from hydrogen. ORP added that by keeping the vessels at atmospheric pressure instead of allowing pressure to build up in the vessel, then a flammable event could be safely sustained.

ORP noted that the vented ion exchange design still applies, regardless of pending decisions in terms of what is being done at LAWPS, but the change in design has caused delays in the overall design process, which is reflected in the schedule variance. Ecology inquired about the activities that have been placed on hold due to the design change. ORP responded that the design activities were associated with the gas removal system that testing showed would not be successful. The design activities were placed on hold while transitioning the design team to explore a vented ion exchange column system. ORP pointed out that the design is primarily being done in Denver, Colorado by the AECOM and Atkins team, but a different company was contacted that has done the type of design work with a vented ion exchange column system.

CONSENT DECREE MONTHLY SUMMARY REPORT REVIEW

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

The reports, agreements, issues, and actions were discussed and updated as follows:

Action No. 1 (WTP-15-01-01)

ORP stated that the standardized high solids vessel conceptual design study is anticipated to be received by the contractor in November, and the briefing to Ecology would be later in November 2017. This action remains open.

Action No. 2 (WTP-17-05-01)

Ecology stated that an internal discussion is still needed regarding the forum for discussing the Quarterly Report. This action remains open.

Action No. 3 (WTP-17-08-01)

ORP requested clarification on this action, noting that a corrosion report has not been provided to Ecology. Ecology stated that a corrosion report is in process for T5, and when the report is issued, there will be a variety of calculations in the report. Ecology stated that the action is specifically requesting a discussion to understand how the margins in the report were developed and what kinds of calculations were developed and used to reach what is believed to be appropriate margins in corrosion. ORP stated that the corrosion report is anticipated to be available in December 2017, and the meeting date with Ecology should be moved to January 2018. This action remains open.

2.0 SPARE REBOILER REQUIREMENT STATUS

ORP stated that the finite analysis work was completed that was used to finalize the design for the spare reboiler. The material procurement for the spare reboiler has been initiated, and as soon as the material is received, ABW Technologies will start fabricating the spare reboiler. ORP stated that the spare reboiler remains on schedule for the December 2018 milestone delivery date.

3.0 SINGLE-SHELL TANK RETRIEVAL

Significant Accomplishments During the Prior Three Months - ORP noted that there has been a significant amount of work accomplished, particularly in the last two months in A/AX Farm. ORP stated that several long-lead procurements have been received, such as demisters, pressure relief valves and assemblies, and HEPA filter assemblies.

ORP stated that the C-105 third retrieval is under way, and preparations are being made to start the second caustic dissolution. There are 15,000 gallons of caustic available for immediate use in C-105. A remaining volume estimate of the waste in C-105 was recently done, and it is about 4,700 gallons. Process engineering is doing calculations on how much of the caustic will be put into C-105 in the effort to finish the final dissolution phase. When the final dissolution is

completed, more water flushing and a high pressure water washing will be done. ORP estimated that C-105 will be completed by the end of November or first part of December 2017.

ODOE asked how long the caustic will sit in C-105. ORP responded that the first caustic dissolution process was calculated at about 200 hours for recirculation and dissolution, with periodic measurements of the liquid to determine how much caustic was being consumed. ORP stated that the first caustic iteration went over 387 hours before it was determined that enough caustic had been consumed and it could be pumped out. ORP noted that C-105 has responded differently than other tanks in C Farm, with no increase observed in the double-shell receiver tank, and mass flow indicators showing very little material moving across.

ORP reported that at the end of September 2017, an evaluation was done of the remaining waste in C-105, and it was at 9,700 gallons. ORP stated that more water was then added and pumped down, and two days ago another evaluation was done, which was the 4,700 gallons. ORP noted that the decrease in volume can be explained, but the lack of increase in the receiver tank is that a lot of the material is dissolved within the water and the caustic.

4.0 TANK WASTE RETRIEVAL WORK PLAN STATUS

ORP stated that the AX Tank Waste Retrieval Work Plans (TWRWPs) have been released, and the next set of TWRWPs will be for A Farm.

5.0 SINGLE-SHELL TANK RETRIEVAL MONTHLY FISCAL YEAR EARNED VALUE MANAGEMENT SYSTEM (EVMS) DATA

ORP stated that for the month of August 2017, more work was performed than scheduled and cost significantly less, due to recovery of the previous months that were behind schedule and over budget.

6.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

ORP noted the WTP continues to focus on completion of the LAW, BOF and LAB (LBL) facilities.

Significant Planned Activities in the Next Three Months – ORP referred to the first bullet regarding the discussion between the Acting Assistant Secretary for Environmental Management (EM-1) and the Director of Ecology and the Ecology Nuclear Waste Program manager, and that a meeting has been scheduled with the three managers in November 2017 to continue their discussion. Ecology stated that senior management is requesting removal of this bullet information from the CD monthly summary report and tracking it at a more senior level in another venue. ORP responded that inclusion of the bullet was a recommendation from its legal department, and it is also an effort to maintain transparency in communication with Ecology. Ecology acknowledged ORP's perspective, and pointed out that it could be perceived as obligating Ecology to a particular course of action under significant planned actions. Ecology reiterated its position that it should be tracked in another forum.

ORP noted that the same discussion was held during the tank farm portion of today's meeting, and an internal meeting will be held to further discuss Ecology's position. Ecology stated that it would inform its legal department of ORP's comments. MSA asked Ecology about where the

information should be tracked, and suggested the Inter-Agency Management Integration Team (IAMIT) or the Senior Executive Committee (SEC). Ecology responded that it did not have an answer about where the information should be tracked, and the question would be posed to legal.

August 2017 Earned Value Management System Reporting Period – ORP provided a brief overview of the net unfavorable schedule and cost variances for August 2017, which are discussed on page 18 of the CD monthly summary report.

7.0 PRETREATMENT FACILITY

ORP stated that most of the work in PT continues to be focused on the technical issue resolutions. ORP noted that the pulse jet mixing (PJM) controls testing (T4) has been completed, and the results have been preliminarily determined as highly successful. ORP stated that reports are being prepared for technical issues T4, T5 (erosion/corrosion), T6 (optimization), and T7 (vessel structural integrity), and the reports are anticipated by December 2017, although receipt of the T5 report may go beyond December 2017. Ecology asked if the reports will be provided. ORP responded that all of the reports will be shared with Ecology.

ORP stated that other than technical issue resolution activities, preservation and maintenance for the PT facility is ongoing.

8.0 HIGH-LEVEL WASTE FACILITY

ORP stated that most of the work at HLW has been in support of reaching the D2 decision, which is resumption of full production for HLW. A key activity to support D2 has been the Preliminary Documented Safety Analysis (PDSA) update for HLW, which was completed and approved on September 27, 2017. Another requirement for D2 was the Design and Operability (D&O) comment resolutions, which were submitted by Bechtel. ORP stated that it reviewed and approved the D&O resolutions, and full production was authorized on September 27, 2017, following approval of the PDSA.

ORP stated that another key activity is fabrication of the RLD-7/8 vessels, which is in progress.

ORP noted that long-range planning updates and preservation and maintenance are activities that will continue for the HLW facility. Ecology asked if ORP has a target for the future baseline associated with the long-range planning document. ORP responded that there is not a target, and the updates are based on yearly planning. ORP noted that the planning depends on funding scenarios, which are unknown at this time. Ecology asked if that meant ORP would continue with the internal forecast. ORP responded that the plan is to continue with the internal forecast, at least through FY19.

Ecology inquired about the preservation and maintenance activity, asking if it would result in a list of items that would need to be replaced. ORP responded that there is not a replacement list, but there is a new Enhanced Plan for Preservation and Maintenance. ORP noted that Bechtel is currently doing monthly walk-downs as part of the regular preservation and maintenance. ORP stated that Bechtel recently provided their Enhanced Plan that provides for a systematic review of all the commodities to determine what needs to be repaired or replaced. ORP indicated that replacement of commodities is very minimal at this point in time.

ORP added that there was a meeting yesterday with Ecology, and the agenda included a discussion on the new Enhanced Plan for Preservation and Maintenance, which was briefed at a very high level. ORP stated that during the meeting Ecology requested a more detailed briefing on the plan and a walk-down of the HLW facility. Ecology inquired about the availability of the new enhanced plan. ORP responded that since the new plan was signed off just last week, it was not available for the meeting, and it will be provided to Ecology. Ecology requested a copy of the plan via email.

ORP Action: ORP to provide Ecology the recently approved Enhanced Plan for Preservation and Maintenance at HLW.

9.0 LOW-ACTIVITY WASTE FACILITY

ORP stated that the LAW facility is 64 percent complete overall. ORP noted that most of the activities under significant past accomplishments have been discussed with Ecology, including approval of Bechtel's performance-based incentive milestone A-3 for completing final assembly of melter No. 2.

Significant Planned Activities in the Next Three Months - ORP stated that Ecology is on the attendee list for the 90 percent design review of the primary and secondary offgas systems, which is scheduled in February 2018. ORP noted that the hilltop fittings have been installed in the offgas pipe spools.

ORP stated that process hazard analysis (PRHA) evaluations identified additional controls and components that need to be redrafted to make them safety significant. ORP noted that the PRHA is associated with developing the chapters for the Preliminary Documented Safety Analysis (PDSA) and eventually the Documented Safety Analysis (DSA). ORP stated that the PRHA tables are going through the final Safety Basis Review Team (SBRT) reviews. ORP added that based on the progress with the PRHA tables, a working schedule has been established that puts the interim milestone in the contract on track to complete the DSA. ORP noted that a second letter was issued, authorizing Bechtel to proceed with procurements on the new controls identified from the PRHA evaluations.

ORP reported that Bechtel declared completion of interim milestone A-4 on October 16, 2017, which is to complete the bulk cable at the 48-foot elevation. ORP stated that Bechtel's letter is due October 23, 2017, and there is a 30-day review period. ORP noted that its review has already started, and there are no issues at this time. ORP stated that approval of the A-4 interim milestone will complete all the interim milestones that were identified in the contract for the construction complete milestone, and the focus will turn to evaluating the construction complete milestone.

ORP stated that the glass pour seal head assembly continues for melter No. 1. Ecology asked why the assembly is not part of the complete final assembly for melter No. 1. ORP responded that the glass pour seal head assembly work was not included in the contract definition of final assembly of the melter. ORP added that contract milestones have very clear definitions on what it takes to meet the progress milestone, and final melter assembly is more of a progress milestone towards construction complete. ORP noted that the connections to the melters are not part of the final assembly milestone. ORP stated that there will be continued work on the melters, and even

after construction complete is declared, there will be continued construction work. Ecology stated that the contract milestone definition may or may not match up with what Ecology believes is complete or what is called out in a CD or TPA milestone or some other agreement. Ecology pointed out that LAW has a contract date, a project date, and a CD date, and there is the question of which date should be followed or looked at. Ecology added that the details are different for all three dates. ORP agreed with Ecology's assessment of the different dates. Ecology asked if there was any concern regarding the life span of the melters in terms of heating them up before hot commissioning. ORP responded that there will be a lot of testing before the melters are heated up, and all of the support systems will have to be in place.

Ecology noted the time it takes to assemble a melter, and raised the issue of melter replacement. ORP responded that melter replacement is outside of the Bechtel contract, and it is future work being tracked by the One System. Ecology stated that there is a need for planning of the ongoing operations and maintenance protocols. ORP agreed with Ecology, adding that there are expectations in the contract in terms of having spare parts established when the operations contractor takes over. ORP added that there is a transition plan that will be developed, which is due two years before the operations contractor takes over, and the transition plan will define a lot of what is being discussed today. ORP stated that in addition to the One System organization, there is a WTP Startup and Integration and a Commissioning and Operations division that will assist in planning when the project reaches the CD-4 level.

ORP reported that all of the bands have been installed around the cooling jackets on the feed vessels. Ecology inquired about four or five additional cooling jackets had been observed during a site visit. ORP responded that there had been a decision made about two months ago to not install those cooling jackets.

10.0 BALANCE OF FACILITIES

ORP stated that startup testing is under way in BOF. ORP reported that the functional testing and certification was completed for Building 91, which is the BOF switchgear building. Ecology inquired about ORP's definition of certification, and asked if the certification was ensuring that Building 91 was built as designed and operates correctly. ORP responded that the certification for Building 91 was that it meets its functional operational needs. Ecology clarified that certification to ensure Building 91 is built according to the permit or a variety of other requirements is not included in the functional testing and certification of Building 91. ORP responded that it is for the point of handover within the Bechtel systems, and it is not the final certification for transition to an operating contract or toward the Operational Readiness Review (ORR).

ORP continued by explaining that with each individual facility within BOF, there is a general process as the completion and construction turnover to the startup organization is done. ORP stated that each of the systems go through their own startup testing, starting with de-energized testing and then moving into energized testing, followed by functional testing within the systems. ORP stated that when all of the functional testing is done, each facility will reach a point where it is ready to be turned over and is available for use.

ORP stated that the certification of Building 91 was for the electrical distribution system, and currently there is a fully operational electrical distribution system that is ready to transmit power

out to any of the facilities as needed. ORP noted that each of the facilities have a switchgear section that takes power from Building 91 and distributes it through its facility.

ORP reported that the energized testing was completed for the water treatment facility process service water system. ORP noted that the process service water is important because it will feed the de-ionized water system, which is the reverse osmosis unit. ORP stated that there were some issues with the reverse osmosis unit that had some cracking in the end caps. There was speculation it may have been the result of metal plugs that were installed in a plastic housing, and the issue is being remedied. ORP stated that the potable water systems have been flushed, and the process of energized testing is currently under way. ORP stated that one of the fiscal year 2018 goals is to get all the major systems within the water treatment facility operational and available for use.

ORP stated that another area of focus is the cooling tower. The cooling tower is separated into three distinct startup areas: 1) the underground piping that need to be filled and then complete pressurization checks; 2) the low voltage electricity and any component associated with it that will allow operation of the motors that will run the fans on top of the cooling tower. ORP noted that the system has been turned over and the check-outs of the system are being done; 3) the medium voltage electrical equipment, which include the 800 horsepower motors that sit in front of the cooling tower. The motors run the main pumps that transport the process cooling water throughout the site. ORP stated that the final components are expected within two weeks to rebuild the motor control center located in the small switchgear building associated with the cooling tower. When the motor control center is rebuilt, the motors will be energized and the check-outs will be done. ORP noted that there have been several mechanical checks on the pumps and motors, and the intent is to get ahead as much as possible and evaluate any material conditions that may exist.

ORP reported on the status of the smaller recirculation pumps for the motor control center. When the pumps were being evaluated, some corrosion was noted on the inside. The decision was made to refurbish the pumps, and the contract is being let to send the pumps to the vendor to be refurbished.

ORP stated that the next step in BOF will be to work through the chiller compressor plant and the steam plant. ORP stated that completion of the process service air system and the chilled water system, which are the two primary systems in the chiller compressor plant, is the current effort under way. ORP stated that the majority of the effort for the steam plant is the installation of the modifications necessary to support Direct Feed LAW (DFLAW). There are piping sizes that need to be adjusted, and pumps that need different types of recirculation due to a much smaller volume of steam and makeup water that will be provided. ORP noted that all of the major procurements have been received for the modifications.

ORP stated that another step that will be needed is to start walking down systems and completing refurbishments that may be needed on equipment that has been sitting, and then getting the equipment ready to start going through sub-system startups.

ORP provided an update on the Effluent Management Facility (EMF). ORP noted that the informal review of equipment package No. 1 was completed with Ecology, and the formal review of equipment package No. 1 is being prepared. ORP stated that the public review and

comment period for equipment package No. 1 is scheduled to start on November 6, 2017. ORP stated that Bechtel has been focusing on the permitting process for the upcoming equipment packages that have been discussed with Ecology. ORP noted that there is a substantial amount of information needed from the vendors to move the design to the next stage, and Bechtel has taken a proactive approach by assigning resident engineers to key vendor shops.

ORP stated that construction on the EMF continues to progress, and the current effort is to complete installation of the ring beams and any secondary steel needed so the topping slab can be placed, which is targeted for the November/December 2017 time frame. The topping slab needs to be in place so the rack supports can be installed. The racks and piping will be staged as much as possible outside of EMF in an effort to be ready for installation when the first equipment package is approved. ORP noted that the next stage will be to make preparations to bring in the large AL6XN vessels.

ORP provided an update on the cathodic protection system and the supplemental system that was installed since the original system was only working at about a 30 to 40 percent effective level. ORP stated that the supplemental system consisted of direct vertical anodes in key areas, which resulted in tremendous improvement as it was brought up and combined with the existing cathodic protection system. ORP stated that currently the cathodic protection system is at about an 80 percent success rate meeting the target, and it is a balancing act as some of the energy coming out of the rectifiers push over their limit and some of it is running under the limit. ORP indicated that additional anodes may be installed, and resistors will be installed where the energy is pushing over the limit.

11.0 ANALYTICAL LABORATORY

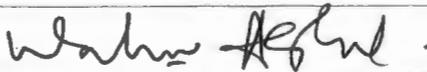
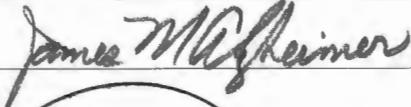
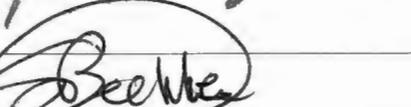
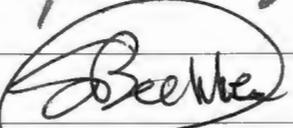
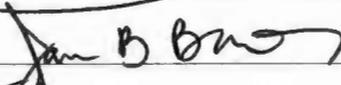
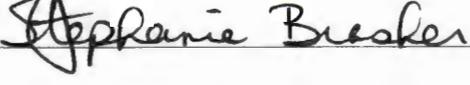
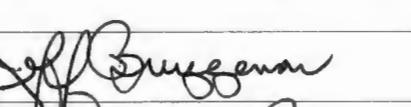
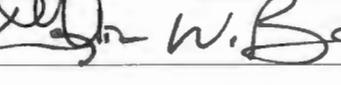
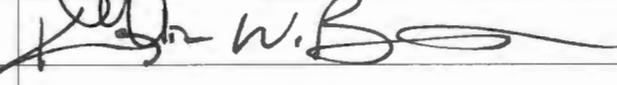
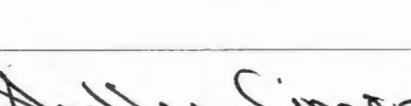
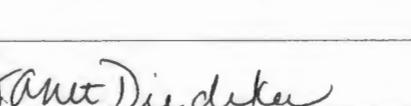
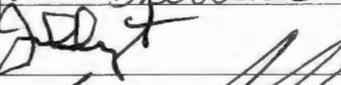
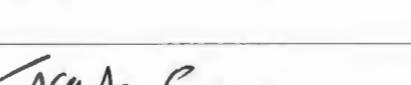
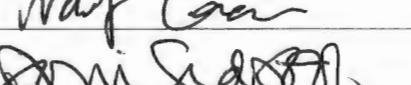
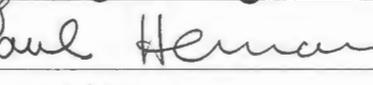
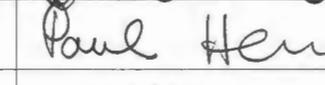
ORP stated that the Analytical Lab continues to be in a very complete status, and the next stage will be to walk down systems and install isolations in support of DFLAW. There will be off-site work occurring at Columbia Basin College (CBC) for methods development. ORP stated that currently there is a lot of work being put into defining what equipment will be needed for the LAB.

ORP stated that as the methods development matures, there will be a better understanding of what the incoming feed stream will look like and what process samples will need to be taken. ORP indicated that there may be a reduction in the amount of samples needed. ORP noted that the rooms originally designated for process improvements and other types of R&D sampling have been maintained amid a concern they would be lost due to a potential growth of sampling needs.

ORP stated that there will be ongoing discussions regarding the LAB ventilation system, and efforts continue to determine the best path forward regarding the C2/C3 and C5 ventilation systems. ORP stated that there has been an ongoing effort with some of the development work that was done with the HEPA filters and some of the project decisions that are needed. ORP noted that the conditions the HEPA filters are designed to survive in other parts of the WTP are not the same conditions in the LAB, and the cost of those filters is not practical. As a result, an additional filter development is in progress. Ecology asked if there was a generic filter that has broad use. ORP responded that there is a filter that can be used anywhere, but the filters cost \$10,000 apiece and are designed for high humidity and higher heat loads that are not required in

the LAB. Ecology acknowledged the cost for the filter, and asked about the tradeoff with designing and fabricating a new filter. ORP responded that the filter issue is being discussed, and there are likely to be some generic filters identified at a tremendously reduced cost, even if it is a specifically designed filter. Ecology asked if the qualification testing for a generic filter would be for an off-the-shelf filter. ORP responded that it would be closer to a standard AG-1, and the intent is to avoid buying 100 filters at \$10,000 apiece for the LAB when the actual need is about 12 filters at that qualification level.

October 19, 2017
 ORP TPA CD Meeting

PRINT NAME	SIGN NAME	ORG
Abdul, Wahed		ORP
Alzheimer, Jim		ECY
Barnes, Mike		ECY
Beehler, Steve		ORP
Bovier, Jan		ORP
Brasher, Stephanie		MSA
Brown, Dennis		ORP
Bruggeman, Jeff		ORP
Burnett, Kaylin		ORP
Cameron, Craig		EPA
Cimon, Shelley		OR State
Curn, Barry		BNI
Diediker, Janet		ORP
Doughty, John		WRPS
Eakins, Reggie Jr		ORP
Evans, Rana		ORP
Gao, Tracy		ECY
Grindstaff, Joni		ORP
Hall, Katie		ECY
Hernandez, Paul		ORP
Jeremy, Johnson	N/A	ORP
Jones, Mandy		ECY
Joyner, Jessica		WRPS
Keith, Colleen	N/A	ORP

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PRINT NAME	SIGN NAME	ORG
Kemp, Christopher		ORP
Knight, Dan		ORP
Knox, Kathy	<i>Kathy Knox</i>	Court Reporter
Kriskovich, Ellen	<i>N/A</i>	ORP
Lobos, Rod		EPA
Lowe, Steven		ECY
Lyon, Jeffery		ECY
Martell, John		DOH
Mathey, Jared		ECY
Mattlin, Ellen	<i>Did not attend</i>	ORP
McDonald, Dan	<i>Donna McDonald</i>	ECY
Menard, Nina		ECY
Parker, Dan		WRPS
Pfaff, Stephen H	<i>Stephen H Pfaff</i>	ORP
Piippo, Robert E	<i>ROB PIIPPO</i>	MSA
Pomiak, Andrew		ECY
Price, John	<i>John Price</i>	ECY
Rambo, Jeffrey	<i>Jeff Rambo</i>	ORP
Rochette, Beth		ECY
Schleif, Stephanie		ECY
Schmidt, John		DOH
Serafin, Shane	<i>Shane Serafin</i>	ORP
Skorska, Maria	<i>Maria Skorska</i>	ECY
Smith, Alex		ECY

ORP/Ecology TPA and CD Agreements, Issues, and Action Items –October 2017

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. Senior management will continue to be briefed if any follow-on actions arise.

Issues:

1. Ecology disagrees with ORP's letter 15-WSC-0027 and the System Plan.

ORP/Ecology TPA and CD Agreements, Issues, and Action Items –October 2017

#	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. (4/20/2017)	Dusty Stewart	On Hold
2	TF-16-11-05	11-17-16	ORP to provide Ecology results of the four tanks that were visually inspected at ETF	In clearance process (07/13/2017)	Richard Valle	Open
3	TF-17-04-01	4-20-17	ORP to provide Ecology with schedule updates on the removal of the 242-A Evaporator diesel generator.	Pending Class 2 modification approval (8/17/2017)	Paul Hernandez	Open
4	TF-17-08-01	8-8-17	Ecology to communicate to ORP the outcome of internal meetings related to internal SST Tiers 1-3 meetings		Jeff Lyon	Open
5	TF-17-08-02	8-17-17	Will a pre-project manager meeting be re-established to occur before the quarterly meeting? (5/18/2017)		Bryan Trimberger	Open
6	TF-17-08-03	8-17-17	In accordance with TPA 4.1, Ecology requests that section for LAWPS be added to the monthly reports that will be described similar to other facilities to include: identifying the Federal Program Manager, Significant Past Accomplishments, and Significant Planned Actions In The Next Six Months		Bryan Trimberger	Closed 9-20-17
7	TF-17-08-04	8-17-17	Schedule a meeting to discuss AY102 future actions (repair vs close) after the second HD video report is complete -	Meeting is expected to be scheduled for November 2017 (8/17/2017)	Dusty Stewart	Open
8	TF-17-08-05	8-17-17	ORP and Ecology to resolve locations for barriers 3 and 4.		Jan Bovier	Closed 9-20-17

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#	Action ID	Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
9	TF-17-08-06	8-17-17	Please clarify when Basin 43 will be back in use.		Richard Valle	Closed 9-20-17
10	TF-17-08-07	8-17-17	Is there a report or other documentation regarding the condition of the Basin 43 liner? Ecology would like a copy of the report.		Richard Valle	Closed 9-20-17
11	TF-17-09-01	9-20-17	ORP and Ecology will meet to discuss appropriate venue for requests related to DSTs		Bryan Trimberger	Open

#	Action ID	Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	WTP-15-01-01	1/22/15	Ecology requests a presentation on standardized high-solids vessel design (SHSVD) to include impacts and optimization in planning area 2, 3, and 4	Conceptual design study from Bechtel is expected around Sept 2017 Ecology is requesting a summary briefing in November 2017 as soon as the testing results are available (8/17/2017)	Wahed Abdul	Open
2	WTP-17-05-01	05/18/17	Quarterly Report Issues: Ecology noted that there is significantly more information in the CD Quarterly Report than in the monthly. There are noted delays. Eight items were identified with no recovery plans discussed. Delays to contract dates do not indicate a delay to CD dates.	Ecology is asking for forum to discuss these issues. Looking ahead: Will be quarterly report be the topic of discussion at the quarterly meetings?(5/18/2017) Decision for stand-alone meeting on the quarterly report was made in June meeting. Need Ecology confirmation to close the action.(7/20/2017)	Joni Grindstaff	Open

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#	Action ID	Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
3	WTP-17-08-01	8/17/17	Ecology requests ORP to set up a meeting to discuss how the margins were developed for the T5 corrosion report.	Plan for a meeting in November.	Wahed Abdul	Open