

Office of River Protection
Project Managers' Meeting Minutes

2440 Stevens Center
Richland, Washington

July 19, 2018

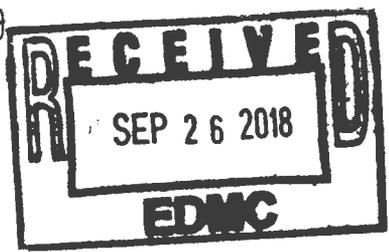
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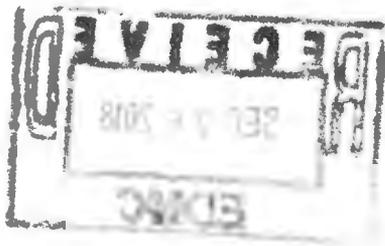
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CONCURRENCE SIGNATURES

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

Wahed Abdul 8/13/18 Date: 8/13/18
Wahed Abdul, DOE-ORP

JB Jan Bovier 8/14/2018 Date: 8/14/18
Jan Bovier, DOE-ORP

KW Kaylin Burnett Date: 8/22/18
Kaylin Burnett, DOE-ORP

PH Paul Hernandez Date: 8/16/18
Paul Hernandez, DOE-ORP

SP Steve Pfaff Date: 8/22/2018
Steve Pfaff, DOE-ORP

SS Jeff Rambo Date: 8/16/18
Jeff Rambo, DOE-ORP

SC Sahid Smith Date: 8/20/18
Sahid Smith, DOE-ORP

DM Dustin Stewart Date: 8/14/18
Dustin Stewart, DOE-ORP

RS Richard Valle Date: 8/14/2018
Richard Valle, DOE-ORP

JY Jason Young Date: 8/14/18
Jason Young, DOE-ORP

AS Annette Stephen Carlson

Annette Carlson (for Dan McDonald)
Washington State Department of Ecology

Date: 8-30-18

JJ [Signature]

Jeff Lyon, Project Manager,
Washington State Department of Ecology

Date: 9-25-2018

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, September 19, 2018, 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 August 16, 2018, from 8:45 a.m. to 11:00 a.m. at the Ecology office in Richland, Washington. The IAMIT meeting will precede the ORP quarterly review, starting at 8:00 a.m. ORP noted that the June 2018 PMM was canceled.

ORP announced a change in scheduling for future ORP PMMs and quarterly milestone review meetings, starting in December 2018, that will allow the Consent Decree report to be available during the PMMs (see discussion under action No. 6 (TF-18-04-01)).

Recent Items Entered/To Be Entered into the Administrative Record (AR)

U.S. Department of Energy (DOE), Office of River Protection (ORP) provided the monthly TPA report for July 2018, which covers progress during the period of June 1-30, 2018, and the earned value management system (EVMS) data for May 1-31, 2018. The July 2018 Consent Decree (CD) monthly summary report covering the same period as the July 2018 TPA report has not been issued and was not available for today's PMM. ORP noted that the June 2018 CD report was issued and is in the AR.

Tri-Party Agreement Milestone Status

ORP noted that a series of milestones were deleted that were associated with the tank farm barriers (see discussion under single-shell tank closure program).

Office of River Protection/Washington State Department of Ecology Tri-Party Agreement and Consent Decree Agreements, Issues and Action Items – July 2018

ORP noted that the June 2018 PMM was canceled, and the agreements, issues and action items table was rolled over from June 2018. 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 the results of the four tanks that were visually inspected at Effluent Treatment Facility (ETF) are anticipated for release to the public in July 2018. Ecology requested a copy of the results via email or on a CD. This action remains open.

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

ORP stated that a schedule has not been established for removal of the 242-A Evaporator diesel generator. ORP noted that Ecology will be conducting an inspection next week on the underground storage tank. This action remains open.

Action No. 4 (TF-18-11-03)

ORP stated that a meeting has not been scheduled with Ecology regarding the HNF-3484 DST pumping guide, due to higher priorities. This action remains open.

Action No. 5 (TF-18-02-01)

ORP stated that the HNF-EP-0182 waste tank summary report is being revised. This action remains open.

Action No. 6 (TF-18-04-01)

ORP reported that there was a discussion with Ecology about scheduling the PMMs on a different date based on the availability of the CD monthly report. The decision was made to move the PMM to the first Thursday of the month, and the current plan is to start the new schedule on December 6, 2018. ORP added that the time for the meeting has not been decided, but it will probably still be in the morning. ORP stated that the meetings will continue as scheduled for August (quarterly), September (PMM) and October (PMM) , but the agreement was that the November 2018 quarterly milestone meeting would not be held. ORP added that during the months that a quarterly meeting is scheduled, the monthly PMM will also be held. ORP stated that the quarterly meetings will revert to what was done in the past and provide a more high-level briefing, while the monthly PMM will provide a more detailed discussion. ORP noted that it has not been determined what paperwork would be provided for the quarterly meeting. This action was closed.

Action No. 7 (TF-18-04-02)

ORP reported that a meeting was held with Ecology in June 2018, and the leak rate in LERF Basin 43 was discussed. This action was closed.

Action No. 8 (TF-18-04-03)

This action was closed on 5/17/18, and it will be removed from the action item table.

2.0 SYSTEM PLAN

ORP noted that one change was made to the TPA report that was sent out on Monday (7/16/18) via email. There was an incorrect date listed for signatures under System Plan, and the sentence was removed. Otherwise, the information reported for System Plan remains the same.

ORP reported that System Plan 8 was finished on schedule. ORP and Ecology are working through negotiations regarding milestone M-062-45, and an extension was agreed to through August 15, 2018. ORP stated that there has been some dialogue with Ecology, but most of the

discussion has been directed toward understanding each other's proposal. ORP added that a meeting has not yet been scheduled with Ecology between now and August 8, 2018.

3.0 ACQUISITION OF NEW FACILITIES

ORP stated that there was no change in status, and negotiations that will drive these particular milestones are under way, as discussed under System Plan. ORP added that it is aware certain actions are needed on the secondary waste treatment side to support the Direct Feed Low Activity Waste (DFLAW) project, and that is being addressed by the Liquid Effluent Retention Facility and the 200 Area Effluent Treatment Facility (LERF/ETF) project to ensure the capability to treat all the Waste Treatment Plant (WTP) secondary waste.

ORP referred to the critical decision language under milestone M-047-07 for secondary liquid waste treatment, and noted that as the plan moving forward is better defined, improvements to the 200 Area ETF may no longer be identified as a capital project. ORP added that the negotiations will define the milestones, and if the work to equip ETF doesn't involve a capital project, then critical decisions (CD-1, 2, etc.) such as CD-1 and CD-2 will not be required. ORP added that the milestone needs to be properly defined and the work that will be done during the negotiations.

4.0 SUPPLEMENTAL TREATMENT AND PART B PERMIT APPLICATIONS

ORP stated that there was no change in status to report as the milestone negotiations continue.

5.0 DIRECT FEED LOW-ACTIVITY WASTE PROJECTS

Low Activity Waste Pretreatment System (LAWPS) Significant Past Accomplishments - ORP stated that the contractor WRPS progressed the LAWPS design up to 45 percent last month, and design reviews are currently in process. ORP is anticipating the 45 percent informal design review at the end of FY 2018.

LAWPS Significant Planned Actions in the Next Six Months – ORP stated that WRPS will be responding to a directive it sent earlier this month about how to slow down the LAWPS program and placing the 45 percent design materials under configuration control. ORP added that the long-term LAWPS capability will be revisited in 2021 when the second alternatives analysis will be performed to reevaluate an elutable LAWPS design, the 45 percent optimized LAWPS, as well as the tank-side cesium removal (TSCR) system.

ORP provided clarification regarding the LAWPS project, noting that the project was always more than just the cesium removal facility. ORP stated that the LAWPS project continues, and the TSCR is the cesium removal capability part of LAWPS. ORP added that transfer pumps, transfer lines and other infrastructure will also need to be installed to complete the entire LAWPS project. ORP stated that the current effort with TSCR, infrastructure upgrades and feed delivery is phase 1 of the LAWPS project, which is new, since a phase 1 and phase 2 had not previously been specifically identified. ORP stated that TSCR and the necessary tank farm upgrades will be done in order to provide the first feed for the Low Activity Waste (LAW) melters. ORP added that phase 2 will be revisited in an alternative analysis beginning in 2021, as noted above.

ORP pointed out that the design work done to date will not be a wasted effort. ORP stated that currently there is a 75 percent elutable design and a 45 percent nonelutable design that are both for more permanent type facilities, and there will be operating history on the tank side cesium removal, which will provide good information to bring into the alternative analysis in 2021. ORP added that by 2021, there may also be a throughput rate available out of TSCR as well as what the WTP LAW is able to take.

Tank-Side Cesium Removal (TSCR) Significant Past Accomplishments – ORP reported that official approval was received for CD-3A, which authorizes procurement of the TSCR system. ORP noted there was a caveat with the approval to revisit the 60 percent design with regard to expenditure of funds, particularly with the methodology for long-lead procurements. The plan was to start long-lead procurements at 60 percent design, but ORP will ensure approval from DOE-Headquarters since DOE-Headquarters requested that the supplemental analysis accurately reflects the plans.

ORP reported that WRPS awarded a subcontract to AVANTech to design and fabricate the TSCR system. The AVANTech team includes Mid-Columbia Engineering (MCE) and AEM Consulting. MCE will be performing the factory acceptance testing, and AEM will provide regulatory guidance to AVANTech.

6.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments - ORP reported that the EC-09 evaporator campaign was initiated in late June 2018. Due to the failure of the PB-1 recirculation pump, the campaign only ran a few days, and the preliminary waste volume reduction from the campaign was 20,000 gallons.

Significant Planned Actions in the Next Six Months – ORP stated that the fire alarm control panel upgrade had been planned, and that work was started as soon as the PB-1 pump failed and the EC-09 campaign was suspended. An evaluation is underway on the path forward to either rebuild the existing PB-1 pump or purchase a new pump. ORP stated that if a new pump is purchased, it would be a like-for-like replacement. ORP stated that the PB-1 pump was a specialty built pump, and the original manufacturer is lined up as part of the evaluation. ORP noted that the manufacturer has some of the original casting for the pump, and some of the staff who worked on the pump are still employed by the manufacturer.

Oregon Department of Energy (ODOE) asked if there is an estimated time of arrival for a new pump. ORP responded that there is not, and the path forward is still being evaluated. Ecology noted that there has been some communication about the decision regarding replacement in kind, and asked whether an Independent Qualified Registered Professional Engineer (IQRPE) review would be required. ORP responded that Ecology's most recent email was forwarded to the contractor, and the contractor is addressing the issue by reviewing the regulations about which replacement systems have to be IQRPE tested and which systems do not.

Ecology raised the subject of the test bed initiative (TBI), which will take place at the 242-A Evaporator, and asked if the TBI would occur before the PB-1 pump has been repaired or replaced. ORP responded that a firm schedule has not been established for the TBI, but the PB-1 pump is not needed to do the TBI. ORP added that because of the TBI, the next evaporator

campaign would not be scheduled until next year, so there would not be any conflicts in terms of scheduling. Ecology asked if the TBI would be done in the pump room of the evaporator. ORP responded that the TBI is currently slated to go on the cover blocks in the pump room, and it has a schedule. ORP added that when all of the TBI scheduling was done, it was prior to the PB-1 pump failure, and the details need to be addressed about how the TBI and the PB-1 pump replacement will interact. ORP added that it is not anticipated the issue with PB-1 pump will have a substantial impact on the TBI schedule.

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 provided an update on the cover replacement project for LERF Basin 42. A temporary dewatering pump was installed in Basin 42 to fully reduce the inventory in the basin since the permanent transfer pump's capability doesn't go down to that level. Basin 42 was placed out of service on June 1, 2018, in support of the cover replacement project, and removal of the cover is currently about 70 percent complete. ORP stated that a tour has been scheduled with Ecology in August 2018, and the Basin 42 cover should be removed at that point, with installation of the new replacement cover in process. ORP added that the Basin 42 cover replacement project is on track to be completed this fiscal year in September 2018.

ORP noted that at the end of June 2018, the volume processed for FY 2018 was just under two million gallons. ORP added that currently the volume is above two million gallons processed, and the facility is tracking towards a goal of three million gallons being processed for FY 2018.

Significant Planned Actions in the Next Six Months – ORP stated that when processing out of Basin 43 is done, a plant cleanout/outage will be entered for corrective maintenance activities, which is expected to start in August 2018, and to continue for a couple of months. ORP noted that the outage will allow completion of the field work in support of the integrity assessment and to gather all the necessary data for the IQRPE in FY 2019.

ORP noted that the permanently installed air compressor in ETF has not worked optimally, although it is operating, and there are portable air compressors available to install if the permanent compressor goes down. ORP stated that a new air compressor system is planned to be installed at ETF, and the compressors have been procured and are being designed.

8.0 TANK SYSTEM UPDATE

Double-Shell Tank (DST) Integrity – Significant Past Accomplishments: ORP stated that the Tank Integrity Expert Panel (TIEP) met at the end of June 2018, and a productive follow-up meeting was held with Ecology last week to discuss some of the topics from the TIEP.

DST Integrity - Significant Planned Actions in the Next Six Months: ORP noted that the enhanced annulus visual inspections for the single-shell tanks (SSTs) were planned and completed during the first part of FY 2018, and the DST enhanced annulus visual inspections are currently under way, with one DST completed. The second DST is almost done, and the crew will be moving to the third DST by next week.

ORP reported that the third of the three DSTs planned for ultrasonic testing (UT) is in the final stages, and the crew will then move to AP-107.

Secondary Liners - ORP stated that the activities continue that are listed in today's handout. ORP noted that the investigation and development of nondestructive examination (NDE) methods has shown that the NDE work for targeting the primary tank bottoms will also work quite well for the secondary liners. ORP added that field testing of the NDE methods will be conducted next year.

Single-Shell Tanks (SST) Integrity - ORP stated that the SST integrity assessment, which is a Tri-Party Agreement milestone (M-045-911), is under way and on schedule. ORP stated that the draft SST integrity assessment is in review, and it will be finalized and issued by September 2018.

ORP reported that the leak assessment for tank S-104 was completed, which was a CHEM-D-42 leak assessment. ORP stated that CHEM-D-42 leak assessments are done if it not clear whether the evidence of contamination around the tank was the result of a past leak or some other activity. ORP noted that during the investigation it was determined that the liner did not leak, and the conclusion is that it was due to some past overflow of a spare inlet nozzle, and that S-104 is officially not a leaking tank. Ecology suggested that ORP include the CHEM-D-42 acronym in the monthly summary.

ORP noted that all of the SST video inspections have been completed, and the reports are being prepared.

Independent Qualified Registered Professional Engineer Activities (IQRPE) – ORP stated that the ETF report was released to the IQRPE. ORP noted that UT testing was done at ETF as part of the data being gathered for the integrity assessment scheduled for FY 2019, and the report provided to the IQRPE was a consolidation of the testing into one report.

ORP stated that the 242-A IQRPE was provided to Ecology, and comment resolution is under way. ORP noted that efforts towards the 219-S IQRPE will pick up after the 242-A Evaporator and SST IQRPEs are completed.

9.0 SINGLE-SHELL TANK INTEGRITY ASSURANCE

ORP noted that the SST integrity assessment is in progress and on schedule to be transmitted to Ecology in September 2018, meeting the milestone due date.

10.0 IN-TANK CHARACTERIZATION SUMMARY

Significant Past Accomplishments – ORP noted that three reports have been completed and several reports were released.

ORP stated that a grab sample was taken on the AZ-102 post recirculation. ORP stated that the grab sample results showed that it was very well-mixed, which indicates the recirculation is an effective means of mixing the top two-inch layer with the rest of the body of supernate. ORP stated that a new operation procedure has been implemented that requires recirculation if there is any condensate, water or flush water that reaches an inch over a 30-day period. ORP noted that

if there is a small amount of condensate, water or flush water, it has been determined that it diffuses quite well within the tank and no recirculation will be required. ORP stated that the sampling done before and after recirculation in AY-101 and AZ-102 provided the information and informed the decision regarding the new operations procedure for recirculation.

Ecology referred to the grab sample in AZ-102 and inquired about the size of the recirculation pump and the discharge capacity. ORP responded that the recirculation pump is a regular transfer pump. Ecology stated that the pump would have a fairly high rate of flow and discharge pressure. ORP concurred with Ecology's statement. Ecology asked if a grab sample is taken underneath a riser. ORP stated that grab samples are taken at a riser. Ecology indicated that flows are generally lower and slower along the tank wall than at the immediate discharge, and asked if ORP had ever considered taking a sample closer to the wall. ORP responded that the risers are fairly well buried along the tank, but there are risers right next to the walls and some are located within a couple feet. ORP added that the AZ-102 grab sample was intentionally taken from a riser that is fairly close to the wall and next to the drop leg where the condensate falls into AZ-102.

Ecology stated that its interpretation of a sample taken close to the wall is less than two inches. ORP responded that the samples taken are not that close to the wall. Ecology noted that as the specific gravity increases in a tank, the flow characteristics of the liquids change, and stated that it might be useful to ensure that the concentration of the chemicals and/or the nature of the waste adjacent to the wall have been compared to a grab sample taken two feet away from the wall. Ecology stated that the purpose of the comparison would be to confirm the goal of ensuring reduced corrosion on the wall is achieved, and requested that ORP take the suggestion to the corrosion panel. ORP responded that it would take an action to bring Ecology's suggestion to the corrosion panel regarding an evaluation of the chemical concentration at the tank wall versus two feet in from the wall.

ORP Action: ORP will bring Ecology's suggestion to the corrosion panel regarding an evaluation of the chemical concentration at the tank wall versus two feet in from the wall.

ORP stated that the transfer pump runs for three days during recirculation, with the goal of completing three turnovers. Ecology asked if the recirculation is run internally within the transfer pump or if it is recirculated through a loop and then makes a return. ORP explained that the drop leg is in the center pit where the pump is located, and the recirculation goes from the bottom to the top and never leaves the pit. Ecology noted that the sampling results showed quite a bit of change in the numbers from before recirculation and after recirculation. ORP stated that no matter what depth the sample was taken, the concentrations were the same after recirculation.

ORP pointed out that tank A-105 is scheduled for sampling in August 2018, and the crew will try to take some samples of the remaining waste in A-105 as part of the retrieval planning operations. ORP added that the A-105 tank sampling plan is currently in review. ORP reported that a grab sample is being taken for the test bed initiative (TBI) on AW-102.

11.0 SINGLE-SHELL TANK CLOSURE PROGRAM

ORP reported that negotiations were completed with Ecology for the near term M-045-92 milestones via TPA change control form M-045-18-03, which was finalized on June 28, 2018. ORP added that as a result of that change control form, M-045-92O, 92T, 92N, 92Q, 92U, 92P and 92R were deleted (see pgs. 22 & 23 of today's TPA monthly summary report). The change control form added M-045-92V. ORP pointed out that the milestones listed on page 24 of today's monthly summary report were added via the change control form, and all the dates are associated with the SX barriers, barrier 3, which is TX Farm, and barrier 4, which is U Farm. ORP stated that the milestones provide the dates for design, construction, and the maintenance and monitoring plans for the barriers.

ORP provided an update on M-045-56N, which is the annual meeting with Ecology to discuss interim measures that is due by 7/31. ORP stated that the meeting is on schedule, with the understanding that the meeting will be held August 9, 2018.

Ecology referred to a meeting that was held yesterday with DOE-RL and the discussion about integrating some groundwater modeling and remedial design decision-making with 200-BP-5 Operable Unit. Ecology suggested that ORP take an action to discuss with DOE-RL integrating the groundwater modeling from the Waste Management Area C Performance Assessment with the 200-BP-5 remedial design for pump and treat at C Farm. ORP agreed to take the action.

ORP Action: ORP to discuss with DOE-RL integrating the groundwater modeling from the Waste Management Area C Performance Assessment with the 200-BP-5 remedial design for pump and treat at C Farm.

12.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

ORP stated that with the completion of C-105 retrieval, a date for the retrieval data reports (RDR) will be identified and reported on next month, and the date is expected to be within a year.

13.0 TANK OPERATIONS CONTRACT OVERVIEW

ORP reported that the overall schedule and cost variances for base operations (5.1) are well within bounds, with the schedule performance index (SPI) of 0.98 and the cost performance index (CPI) of 0.97 for the month of May 2018. ORP noted that the unfavorable schedule variance associated with the ETF main treatment train has resulted in small delays through the year. ORP stated that the processing goals at LERF/ETF are broken into one million gallon batch campaigns, and if the campaigns are delayed, then it is reflected as an unfavorable schedule variance. ORP noted that it is still planning on the processing goal, but it will occur at different times than originally planned.

ORP reported that the delay with installation of the safety significant air flow instrumentation resulted in an unfavorable cost variance under base operations, but all of the air flow instrumentation has been installed. ORP stated that the amount of flow that is exiting each of the primary tank head spaces can now be verified, and the situation has been rectified so that all the flow will not be going through one tank via an exhaustor, but now will flow through all of the tanks and ensure there is hydrogen removal from all of the DSTs. ORP noted that there was

vacuum instrumentation on each tank so it was known that a vacuum was being pulled on all the DSTs, but it couldn't be verified how much air flow was going through each tank.

ORP noted that there was a positive schedule variance in the past months under waste feed delivery/treatment (5.03), but the current schedule is now coming back as a negative variance. The positive cost variance is due to reduced cost relative to staffing and the improvements in some of the melter installation.

ORP stated that the LAWPS project work is being done under treat waste (5.05), and the transition process that has taken place during the year is reaching closure. ORP stated that FY 2018 began with a large, complex and expensive elutable cesium removal capability for the LAWPS project, and it transitioned to pursuing the TSCR project as well as a more optimized nonelutable form of a permanent facility. As a result, there has not been a set schedule. ORP noted that a 45 percent design review, which is not normally done at that point, was conducted with Ecology and other stakeholders as a convenient point to update them on the move to a nonelutable design. ORP stated that extra resources were devoted to the transitions, and the 45 percent design reviews delayed other work.

ORP stated that the 45 percent design reviews will be completed and the design will be archived for the alternative analysis that will start in 2021. ORP added that the TSCR project and other tank farm upgrades will be pursued as phase 1 of the LAWPS project, and the goal is to establish a schedule by the end of FY 2018 that can be followed in FY 2019.

Ecology asked if the new subcontractor AVANTech will be using the crystalline silicotitanate (CST) nonelutable resin for the TSCR system. ORP responded that the CST ion exchange media will be used. ORP noted that AVANTech has been providing hundreds of ion exchange columns with the CST media to Japan as part of the Fukushima cleanup. AVANTech also supported Savannah River in the 2011 time frame by providing a different kind of ion exchange system called a small column ion exchange where the columns using CST were inserted in the tank risers to take advantage of the tank shielding and not having to build a facility around any ion exchange columns. AVANTech did the work and supported the testing at Savannah River. ORP noted that AVANTech has been used more recently as the column designer for the elutable design and the nonelutable design on the more permanent facilities for LAWPS.

ORP stated that it will now have a team that includes AVANTech, which has experience within the DOE complex and outside of it; Mid-Columbia Engineering, which has been doing the technology testing for the LAWPS project; and AEM, which has been consulting on tank farm cleanup for several years.

CONSENT DECREE MONTHLY SUMMARY REPORT REVIEW

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

ORP stated that the Consent Decree (CD) monthly summary report has not been available during the project manager meetings (PMMs) due to internal reviews, and the briefings during the past few months have been presented without the CD report. ORP added that the CD report is submitted by the end of the month, in compliance with the CD, via email with a link to the Administrative Record (AR). ORP noted that the June 2018 PMM was canceled, but the CD monthly summary report for June 2018 has been provided to Ecology. Ecology stated that it did not have any questions from the June CD report.

ORP stated that a meeting was held with Ecology, and the decision was made to schedule the PMMs on the first Thursday of each month so the CD report will be available for the PMM. The current agreement is to not have the November 2018 meeting, and to start scheduling the PMMs on the first Thursday of the month on December 6, 2018. ORP added that there will be 12 monthly PMMs, and when a quarterly meeting is on the schedule, that meeting will also occur during the same month. ORP stated that the quarterly meeting will revert to the format that was used several years ago as more of a high-level meeting for Ecology and EPA senior management, and the more detailed presentation and discussion will occur during the PMMs. ORP noted that a decision has not been made about what type of report will be presented at the quarterly meeting.

It was noted that the November 2018 meeting is a quarterly meeting, and there is time for feedback on the new schedule. ORP stated that if the Oregon Department of Energy (ODOE) has any issues with the new schedule, that it is to contact Ecology.

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

Action No. 1 (WTP-17-10-01)

ORP stated that the maintenance plan was provided to Ecology, and noted that the plan had been approved by DOE. Ecology acknowledged receipt of the maintenance plan, adding that it was not aware that the plan had been approved. ORP stated that it would send Ecology the letter approving the maintenance plan and the date it was approved. This action was closed.

Action No. 2 (WTP-18-04-01)

ORP stated that Ecology provided available dates for scheduling a meeting on the DSA/TSR briefing for the LAW facility, and a briefing will be scheduled. This action remains open.

Action No. 3 (WTP-18-05-01)

ORP stated that it is waiting on Ecology to provide a list of specific items from the quarterly report for discussion with ORP. ORP noted that the next quarterly report is due to Ecology by

August 14, 2018, and suggested that Ecology may want to wait until the report is issued before scheduling a meeting. Ecology stated that it would follow up with an internal discussion and provide a response to ORP. This action remains open.

2.0 SPARE REBOILER REQUIREMENT STATUS

ORP reported that on May 8, 2018, the spare reboiler was received and is in the 2101 warehouse. Delivery of the spare reboiler completes the CD requirements for purchasing and having the spare reboiler available. ORP stated that Ecology will be provided formal notification that the CD requirements were met.

ORP stated that the June 2018 CD monthly summary includes information on receipt of the spare reboiler, and the spare reboiler section will be eliminated from the July 2018 CD monthly summary. ORP pointed out that in one of the first sections in the CD monthly summary, under CD Reports/Reviews, the spare reboiler requirement will be listed as completed, along with the date it was received.

3.0 SINGLE-SHELL TANK RETRIEVAL

ORP reported that milestone D-16B-01 is considered complete regarding tank C-105 via the retrieval completion certification and subcertification. ORP is preparing formal correspondence notifying Ecology that the milestone has been met.

Significant Accomplishments During the Prior Month - ORP stated that the engineering evaluations continue on the videos of A-104 and A-105, and part of the evaluation is to take a sample of A-105 next month. Direct push piping is being installed, and there is an angle pipe going under A-105 down to about 45 feet, with the goal of 270 feet, to obtain more data from underneath the tank.

Significant Planned Activities in the Next Month - ORP provided an update on plans for the R5B pump in AX-104. It has been determined that the R5B pump could not be safely removed from AX-104. The only connection to the pump is the power cord, and a tool has been developed that will remove some of the waste and move the R5B pump aside while lifting the cord by putting tension on it. When enough waste and the R5B pump have been pushed aside, the transfer pump can be placed in AX-104. ORP noted that a successful test of the process with the tool was conducted recently at the cold test facility, and that effort will be done in AX-104 this weekend or next week, which will allow installation of the transfer pump.

4.0 TANK WASTE RETRIEVAL WORK PLAN (TWRWP) STATUS

There was no change in status to report on the TWRWPs.

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

ORP reported that the schedule performance index (SPI) was fairly low at 0.79, but the cost performance index (CPI) continues quite well at 0.97. ORP noted that the unfavorable schedule variance was due to a delay with the SX barrier work and the discovery of unexpected subsurface contamination in a number of places in AX Farm. ORP stated that during excavation in AX

Farm for installing the electrical system backbone, subsurface contamination of less than two feet has been encountered. The contamination has to be dug up by hand and surveyed and disposed of, keeping the area covered and immobilized. Ecology asked if the contamination is located in an identified waste site. ORP responded that it is not. ORP added that contamination was found near the new A Farm gate that was finished last year, and during the work on the gate no contamination had been found. The speculation is that a truck was parked near the gate area, and something leaked out into the soil that got covered up and never logged in.

Ecology asked about the volume of waste that has been disposed of from the unexpected contamination areas. ORP responded that so far there is one drum, but the excavation work has not been completed and there will likely be more drums filled with contaminated soil.

ORP stated that the unfavorable cost variance was also due to the unexpected soil contamination encountered during excavation of the electrical system backbone. ORP stated that another issue contributing to the unfavorable cost variance was the coating material on the water and caustic piping in AX Farm had to be taken out and redone.

6.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

ORP stated that the percentages being reported overall for WTP are for the Direct Feed Low Activity Waste (DFLAW) project and the combined Low Activity Waste Facility, Balance of Facilities, and the Analytical Laboratory (LBL). ORP noted that the percentages aren't being updated for the Pretreatment Facility (PT) and the High Level Waste Facility (HLW) since those two facilities have been on hold. DFLAW overall is 45 percent complete, with engineering/design at 78 percent complete, procurement at 38 percent complete, and construction at 31 percent complete. ORP noted that LBL includes the Effluent Management Facility (EMF), which explains the lower percentages for LBL. The LBL facilities are 65 percent complete overall, with engineering/design at 89 percent complete, procurement at 77 percent complete, construction at 76 percent complete, and startup and commissioning at 31 percent complete.

ORP reported that additional funding of \$50 million was received for PT and HLW for FY 2018. Efforts are under way to plan work, mainly in HLW, while most of PT remains in preservation and maintenance mode. Bechtel has started some engineering work for HLW, but it is waiting on the amount of resources that will become available as DFLAW reduces its engineering resources. A more detailed plan will be developed for FY18 and FY19 when there is a clearer indication of the amount resources that will be available for HLW.

Ecology inquired about the work scope for HLW. ORP responded that the main work scope will be focused on engineering, which will include incorporating the Preliminary Documented Safety Analysis (PDSA) requirements into the System Design Documentation (SDD). ORP noted that before funding was curtailed for HLW, the PDSA was approved, which changed a number of requirements to be incorporated into the SDD and into some of the high-level flow sheet documentation. ORP stated that the second piece of work scope for HLW will be the rebaselining activity, and the third piece will be some long-lead procurement. ORP added that if more resources are obtained, they will be used for some backlog construction.

Ecology asked if part of the funding will be used for continued preservation and maintenance of HLW and PT. ORP responded that funding was allocated for preservation and maintenance in

the existing budget, and if the plan moves forward for additional work at HLW, the preservation and maintenance portion will get reduced for HLW. ORP added that PT is not in a position to start production engineering work, and the full budgeted amount will continue with preservation and maintenance at PT. ORP noted that the overall cost benefit evaluation that was conducted for PT in terms of procurements that were in suspension showed that termination is the better alternative, although there will be costs incurred for terminating the contract with the subcontractor.

ODOE asked how much of the \$50 million will be spent for the rest of FY 2018 as opposed to FY 2019. ORP responded that there has been no additional funding for FY 2019, even though the funding was requested, so the planning will be on the conservative side since the amount of funding received in 2019 is unknown at this time. ORP stated that about 25 percent of the \$50 million will be spent in 2018, and about 75 percent will be carried over into 2019. ORP stated that there will be efforts to ramp up sufficiently by the end of FY 2018, with the carryover being used in 2019. ORP stated that more ramp-up will be done if additional funding is received in 2019, as long as the funding notification is early enough in the fiscal year.

Earned Value Management System (EVMS) – ORP noted that the EVMS reporting for WTP is in terms of DFLAW and the LBL facilities, which reflect both positive cost and schedule variances. ORP added the caveat that DFLAW and LBL have been working to the forecast and target, and the baseline is not in alignment with the actual working schedule, whereas the formal variances are incorporated in the baseline.

Ecology asked if performance against target was available. ORP responded that it was not available for the cost performance, but the schedule performance is routinely monitored. ORP added that frequently there is a negative schedule variance as a result of the misalignment within a given month, but there was also a large baseline change proposal (BCP) that came through in an effort to realign some of the schedule misalignment. ORP pointed out that the same general activities that have been discussed with Ecology have been lagging or leading over the past months, and those activities have been continuing along the same path with no dramatic shifts in schedule. ORP added that the BCP that recently came through and the misalignment have been distorting the variances somewhat, and the numbers don't accurately reflect the overall picture.

Ecology responded by reiterating its interest in seeing the performance against target. ORP stated that most of the discussions on the individual pieces and parts reflect what is occurring and what is driving the variances. ORP added that performance against target cannot be shown until the schedule is realigned completely, because that data is where the cost and schedule variances are derived. Ecology asked if there is a time frame for a baseline change to coalesce all the schedule activities. ORP responded that there is a tentative time frame targeting the end of September 2018 to have a rebaseline, but it may go into October 2018. ORP stated that there are a number of comments that Bechtel submitted on the forecast schedule in terms of schedule duration logic. ORP senior management is also requesting that the schedule performance reflects more stability before making it a baseline.

ORP clarified that the rebaseline will be a realignment of the existing scope of work that is currently defined within Bechtel's contract, and certain activities will be worked in a different order. ORP cited an example of the continued negative schedule variance due to the delay in the waste transfer piping installation. ORP stated that installation of the piping was a planned delay

as it existed in the initial schedule because it would interfere with the heavy equipment and staging associated with the buildout of the EMF facility. Ecology acknowledged the logic for rebaselining, but expressed an interest in knowing when the tracking for the schedule will catch up. ORP agreed with Ecology about the tracking, but added that a schedule needs to be put forward that Bechtel can maintain. ORP stated that when Bechtel can demonstrate that it is tracking well to the schedule and provide numbers that show progress by reducing the level of effort accounts, then ORP will have confidence that the numbers have the appropriate margins built in and can be accomplished. ORP stated that at that point, it could start tracking to the sets of numbers.

ORP stated that another piece impacting the rebaselining effort is associated with Bechtel's contract milestone date of January 2020. Initially Bechtel's schedule had a November 2019 date for the contract milestone, and the latest reforecast was January 2022. At ORP's request, Bechtel conducted a schedule risk analysis, which showed a low probability of Bechtel meeting the 2022 date. ORP cited that example as to why it is requesting Bechtel to come up with more realistic dates, even if a contract milestone is to be missed.

ORP stated that there was a positive schedule variance for some LAW construction subcontracts. LAW engineering also reported a positive schedule variance after a BCP was processed. ORP noted that the BCP was internal and not an overall BCP. DFLAW reported a positive schedule variance with the early receipt of the 242-A Evaporator reboiler and partial receipt of centrifugal pumps.

ORP stated that DFLAW construction craft reported a positive cost variance. ORP noted that the LAB plant management reported a positive cost variance due to delaying receipt for some actual costs associated with plant system air refurbishment, which is not representative of discrete work going on in the field. ORP added that it is an example of a level of effort account, and the goal to reduce the overall amount of level of effort accounts to improve the replanning for the baseline approach.

7.0 PRETREATMENT FACILITY

ORP stated that the U.S. Army Corps of Engineers (USACE) parametric analysis report for PT/HLW was received, and it is in internal management review. ORP indicated that a briefing could be set up with Ecology in the near future regarding the USACE report and the results of ORP's review of the report.

ORP reported that technical issue resolution regarding corrosion/erosion (T5) and structural integrity (T7) is being delayed. ORP stated that the delay with T5 is due to the number of comment resolutions between ORP and Bechtel, and T7 has been delayed due to resources being utilized for DFLAW. ORP stated that T5 and T7 were slated to be completed in the May-July 2018 time frame, but it has been pushed out to the end of September 2018, although an effort is being made to finish by August. ORP noted that there is agreement with the technical issue resolutions, and it is a matter of completing all the paperwork.

8.0 HIGH-LEVEL WASTE FACILITY

ORP noted that receipt of the USACE report was discussed under PT, and the funding for HLW was discussed under the overall WTP section.

9.0 LOW-ACTIVITY WASTE FACILITY

ORP stated that percentages complete have improved for the LAW facility, and engineering design is at 90 percent complete, procurement is 83 percent complete, construction 92 percent complete, and startup and commissioning is 20 percent complete.

Significant Accomplishments During the Prior Month - ORP reported that in May 2018, Bechtel submitted as complete the contract milestone for the final LBL physical plant complete, which was due by June 28, 2018. ORP stated that as part of the validation process, comments and questions are being provided to Bechtel, and Bechtel has been responding with comment resolutions and completing any needed actions in the field. ORP added that its final report will be issued by the end of July 2018, which will confirm the milestone was met or there are a few items that need to be addressed. ORP noted that this contract milestone does not represent the overall LAW plant completion, and there are a number of exclusions in the contract milestone, including the revisions that will be done associated with the PDSA/DSA effort and aging and obsolescent equipment.

ORP noted that there are several startup activities under way. ORP stated that the DSA is being incorporated into the design, and procurements are being made based on the design. ORP noted that in June 2018, Bechtel requested authorization for three key procurements since DOE-Headquarters approval is required after the DSA has been incorporated. ORP stated that approval was given to Bechtel after engineering and nuclear safety reviewed the request for the safety significant equipment and determined it was a low risk that DOE-Headquarters would not approve the request. *ORP stated that it would send Ecology an email regarding the equipment that was approved for early procurement.*

Significant Planned Activities in the Next Month - ORP stated that Bechtel will be moving forward with updating the 90 percent design and incorporating the DSA.

ORP stated that another key activity under way is turnover from the construction organization to the startup organization. ORP noted that the turnover activity starts with an eight-week walk down of systems that identifies what needs to be done, and is followed by a three-week walk down to confirm the actions identified are being completed or to identify any new items that need to be done. ORP stated that four systems were turned over to startup, and a fifth system is getting ready for turnover. There are nine systems undergoing the three-week walk down, and they are expected to be turned over in the next month.

10.0 BALANCE OF FACILITIES

ORP provided an explanation for the significant decrease in the overall percent complete for the Balance of Facilities (BOF), stating that it is represented by the large BCP that was incorporated. When the new contract for DFLAW was developed, the dollar value associated with site finishing work was left in risk space during the effort to define what portion of that work would be done as part of the overall DFLAW activity. ORP stated that 90 percent of the work was rolled in as part of this last BCP, which represents close to \$50 million. ORP added that since

the percentage completions are based on dollar value, when the dollars were incorporated, the overall percent completion numbers went down, and it does not mean there has been backwards movement of any activity.

ORP stated that Bechtel is progressing well towards the main goal in BOF to complete the Effluent Management Facility (EMF) design through confirmed design by the end of the year.

ORP expressed appreciation to Ecology for its support on the permitting process for EMF. ORP noted that the public comment period concluded yesterday (7/18/18) for permit modification No. 3 for the equipment installation. ORP added that approval for installation was received associated with equipment package No. 2. ORP stated that a nitrate tank and a caustic tank have been set in the northeast corner of the EMF building.

ORP stated that the current focus in EMF is application of special protective coatings, which will be followed by placement of racks. The grillage has been installed ahead of schedule for both the low point drain tank and the evaporator feed tank area in EMF, and installation of the stainless steel liner plate is underway.

ORP noted that currently there aren't a lot of physical changes to the EMF processing facility, but there is a lot of work being done outside the footprint. The evaporator tower has been completed, and the evaporator has been placed inside the tower. Electrical tray and piping are being preinstalled in large rack modules, which will reduce the amount of work needed once the racks are being installed.

ORP stated that another main goal is to move all of the BOF systems into the startup organization's control, and currently about 84 percent of the systems have been turned over to startup. ORP noted that several buildings have been turned over to the commissioning organization, which represents a handover and not a change to what is being done, but it is an important step in the overall process of moving the paperwork and system readiness through the transition. The commissioning organization will continue to support the ongoing startup process until all systems have been turned over to commissioning.

ORP reported that all of the startup testing has been done for the following buildings and systems: Building 87, which is the main switch gear building; Building 91, which is the BOF switch gear building; the water treatment building; the nonradioactive liquid drains building; and the fire water service system.

ORP stated that the current focus in BOF is to get the process cooling water up and running for the cooling tower, which will then support some testing of the chillers and compressors within the chiller compressor plant. ORP stated that the steam plant has progressed, with the majority of the systems either turned over or on the verge of being turned over to the startup organization. ORP noted that the glass former facility has been turned over as well as the high pressure steam system within the steam plant, and the ammonia facility is planned for turnover next month.

11.0 ANALYTICAL LABORATORY

ORP stated that there is a lot of scaffolding in the LAB to enable access to systems as part of the startup testing, and most of the systems run through the overheads in various rooms. ORP stated that the C1V and C5V ventilation systems have been turned over for startup testing, and the C1V

system is close to being energized. ORP noted that transitioning the LAB systems into the test organization and then getting set up for energization is a major step in working through the overall testing protocols for LAB. ORP stated that 21 of 33 systems have been turned over to the startup organization.

ORP stated that the servers, which were in the test engineering work station that was supporting startup testing, have been moved over to the main control room at the LAW facility that will be used for DFLAW.

ORP reported that all of the equipment has been installed at the offsite lab space that is being leased from Columbia Basin College, and the staff is starting to work through the testing procedures and methods development. ORP stated that work is being accelerated at the Analytical Lab, and the last part of methods development may be occurring in the LAB, which would accelerate the schedule for installing equipment and getting it verified and certified within the LAB.

ORP noted that Bechtel is continuously working to accelerate the schedule. ORP pointed out that at one point the EMF powerhouse was on the critical path, and by working with the vendor, Bechtel pulled the schedule back a couple months to where the powerhouse is no longer on the critical path for EMF. ORP added that Bechtel has been showing negative float on their schedule for the past several months, which points to where the efforts need to be focused, and Bechtel brought the schedule back to where it's showing no remaining negative float. ORP noted that Bechtel added a float bar to their schedule, which had about four to five months of float that was used up, and they are working to grow the float bar. ORP expressed satisfaction with the field management team as they work through the startup process, which is inherently a very challenging process that is made more difficult by working on old equipment.

Ecology asked for clarification about the turnover in the LAB, noting that the hot cell is not complete. ORP responded that the discussion was not about turnover of LAB, but about the turnover of the BOF buildings. ORP stated that the LAB will have a certain operational configuration in DFLAW that has already been established, and during DFLAW operations, the LAB will only use the radiological portions. ORP added that the hot cell will be isolated and will not be in operation, but the rest of the facility will be fully operational. Ecology asked if construction will be completed on the hot cell during DFLAW operations. ORP responded that it will not be completed, and pointed out that the hot cell will be used in support of HLW and PT, and the analytical equipment won't be installed until HLW and PT are ready to operate. ORP noted that the hot cells are completely built out, and the remaining activity will be installation of the analytical equipment.

ODOE asked about right-sizing the piping for the hot cells. ORP responded that the piping won't need to be changed, and the right-sizing would be associated with the equipment and how many samples per day could be put through a certain piece of equipment. ORP stated that after DFLAW has been in operation for a period of time and the decision is made that some portion of the hot cells need to be brought up to support HLW, that portion of the hot cell would be blocked off so it could be accessed without interfering with the rest of the system. ORP noted that there is a plan to work through that process.

ORP added that when systems are turned over and fully operational from a DFLAW perspective, the process is to finish construction turnover to startup, and startup will finish component testing and turn over to commissioning. ORP stated that commissioning will take the individual systems and operate them as a joint entity as part of the commissioning process, which will be referred to as integrated system operations.

Ecology inquired about the operational readiness review (ORR) strategy and when it might occur. ORP stated that there has been a lot of work associated with the ORR strategy, and suggested that a briefing could be set up with Ecology as an action.

ORP Action: ORP to set up a briefing with Ecology on ORR commissioning strategy.

ORP/Ecology TPA and CD Agreements, Issues, and Action Items –July 2018

#	Action ID Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
1	WTP-17-10-01 10/19/17	ORP to provide Ecology a copy of the maintenance plan	Overall long-term maintenance plan not approved by DOE yet. Waiting for final long-term preservation plan (pending internal legal review). Maintenance (what needs to be done) vs Preservation mode (why it needs to be done) (03/14/18) Sign off is expected within by May 25, 2018, then it will be provided to Ecology (05/17/2018)	Wahed Abdul	Open
2	WTP-18-04-01 04/19/18	Schedule early June DSA/TSR comprehensive briefing for LAW Facility. Ecology engineering shall be included.	Signing ceremony was on May 17, 2018. Briefing to Ecology pending.	Wahed Abdul	Open
3	WTP 18-05-01 05/17/18	Ecology meeting with WTP to review quarterly report in depth. One meeting with key players to discuss facility specific items, schedule, and quality of BNI responses. Include Dan McDonald, Jay Decker. Expect a 5-6 Ecology personnel will participate.	Jason/Wahed will set up the meeting.	Wahed Abdul	Open
4					

ORP/Ecology TPA and CD Agreements, Issues, and Action Items –July 2018

ORP/Ecology TPA and CD Agreements, Issues, and Action Items –July 2018

#	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. (05/17/2018)	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	Internal review complete. On track to be released for public in July 2018. (05/17/2018)	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.	Provide layout of phased plan to include short and long term activities. Schedule has not been established yet. (05/17/2018)	Paul Hernandez	Open
4	TF-18-11-3 12-1-17	ECY requests ORP to meet on HNF-3484 Double Shell Tank Pumping Guide		Jeremy Johnson	Open
5	TF-18-02-01 02-15-18	ORP to revise the leak loss estimates in the HNF-EP-0182, <i>Waste Tank Summary Report</i> to be consistent with the most current estimates from vadose zone characterization reports.	Waste Tank Summary Report will be corrected. The volume of waste leaked from tanks will be reviewed and updated to match other reports. (05/17/2018)	Jeremy Johnson	Open
6	TF-18-04-01 04-19-18	ORP to propose different time for the monthly meeting based on the availability of the CD Monthly Report		Bryan Trimmerger	Open
7	TF-18-04-02 04-19-18	Schedule meeting to discuss leak rate in LERF Basin 43	Meeting with Ecology scheduled for June 12, 2018 (05/17/2018)	Richard Valle	Open
8	TF-18-04-03 04-19-18	Provide briefing to Ecology on AY-102 sampling.	No third technology implemented. No action required. Ecology resolved per meeting with tank farm personnel. (05/17/2018)	Jan Bovier	Closed 05/17/18
9					
10					

ORP/Ecology TPA and CD Agreements, Issues, and Action Items –July 2018

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:

From May meeting: Ecology will not be available for the June 21 meeting. Recommend moving meeting to the last week of the month. The Tank Integrity Expert Panel is meeting June 26-28 so there may be a conflict. June 2018 meeting cancelled per agreement between the parties.

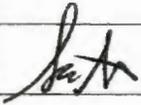
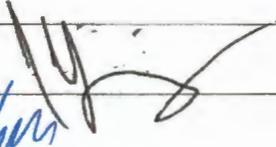
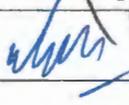
July 19, 2018
Office of River Protection
Tri Party Agreement Consent Decree Monthly Meeting

PRINT NAME	SIGN NAME	ORG
Abdul, Wahed	<i>Wahed Abdul</i>	ORP
Alzheimer, Jim		ECY
Barnes, Mike		ECY
Beehler, Steve	<i>Steve Beehler</i>	ORP
Bovier, Jan	<i>Jan Bovier</i>	ORP
Brasher, Stephanie		MSA
Brown, Dennis		ORP
Burnett, Kaylin	<i>Kaylin Burnett</i>	ORP
Cameron, Craig		EPA
Carlson, Annette	<i>Annette Carlson</i>	ECY
Cimon, Shelley	<i>Shelley Cimon</i>	OR State
Decker, Jay	<i>Jay Decker</i>	ECY
Diediker, Janet		ORP
Doughty, John		WRPS
Einan, Dave		EPA
Evans, Rana	<i>Rana Evans</i>	ORP
Fletcher, Tom		ORP
Gao, Tracy	<i>Tracy Gao</i>	ECY
Grindstaff, Joni		ORP
Hall, Katie	<i>Katie Hall</i>	ECY
Hernandez, Paul	<i>Paul Hernandez</i>	ORP
Johnson, Jeremy		ORP
Jones, Mandy		ECY

July 19, 2018
Office of River Protection
Tri Party Agreement Consent Decree Monthly Meeting

PRINT NAME	SIGN NAME	ORG
Joyner, Jessica		WRPS
Keith, Colleen		ORP
Kemp, Christopher		ORP
Knox, Kathy	<i>Kathy Knox</i>	Court Reporter
Lobos, Rod		EPA
Lowe, Steven	<i>Stan Lowe</i>	ECY
Lucatero, Yoana		ECY
Lyon, Jeffery		ECY
Martell, John		DOH
Mathey, Jared		ECY
Mattlin, Ellen		ORP
McDonald, Dan		ECY
Menard, Nina		ECY
Parker, Dan		WRPS
Pfaff, Stephen H		ORP
Pomiak, Andrew		ECY
Price, John		ECY
Rambo, Jeffrey	<i>Jeff Rambo</i>	ORP
Richardson, John		ECY
Rochette, Beth		ECY
Schleif, Stephanie		ECY
Schmidt, John		DOH
Serafin, Shane		ORP

July 19, 2018
Office of River Protection
Tri Party Agreement Consent Decree Monthly Meeting

PRINT NAME	SIGN NAME	ORG
Skorska, Maria		ECY
Smith, Alex		ECY
Smith, Sahid		ORP
Stewart, Dustin		ORP
Trenchard, Glyn		ORP
Trimberger, Bryan		ORP
Turner, Michael		MSA
Turner, Vanessa		ORP
Utley, Randell		DOH
Valle, Richard		ORP
Van Mason, Eric		WRPS
Walmsley, Mign		ECY
Wang, Oliver S		ECY
Whalen, Cheryl		ECY
Whitelely, Craig		ORP
Wold, Kristi		ECY
Yasek, Donna		BNI
Young, Jason		ORP
Mulkey, Charles		WRPS

