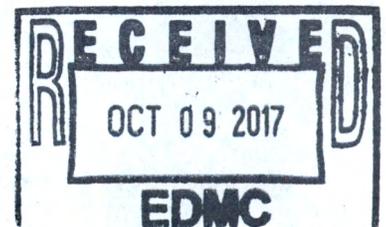


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Office of River Protection
Quarterly Milestone Review Meeting Minutes

Department of Ecology
Richland, Washington

August 17, 2017



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Office of River Protection
Tri-Party Agreement Milestone Review
Meeting Minutes
August 17, 2017

Approval: A.K. Smith Date: 9/27/17

A.K. Smith
Ecology IAMIT Representative

Approval: G.D. Trenchard Date: 9-8-17

G.D. Trenchard
DOE IAMIT Representative

Approval: D.A. Faulk Date: 10-5-17

Laura Buelow for **D.A. Faulk**
EPA IAMIT Representative

Minutes Prepared by: M.J. Turner Date: 9/5/17

M.J. Turner
Mission Support Alliance

PROJECT MANAGERS CONCURRENCE SIGNATURES

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated TPA Milestone Review Meeting.

Paul Hernandez Date: 9/13/17
Paul Hernandez, DOE-ORP

N/A Date: _____
Jeremy Johnson, DOE-ORP

Jeff Rambo Date: 9/19/2017
Jeff Rambo, DOE-ORP

Steve Pfaff Date: 9/20/2017
Steve Pfaff, DOE-ORP

Joni Grindstaff Date: 9/18/17
Joni Grindstaff, DOE-ORP

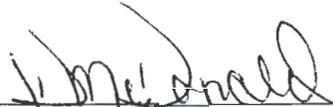
N/A Date: _____
Wahed Abdul, DOE-ORP

Kaylin Burnett Date: 9/20/17
Kaylin Burnett, DOE-ORP

Jason Young Date: 9/20/17
Jason Young, DOE-ORP

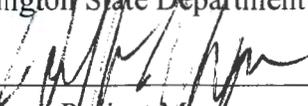
Jeff Bruggeman Date: 9/19/17
Jeff Bruggeman, DOE-ORP

Dustin Stewart Date: 9/12/17
Dustin Stewart, DOE-ORP



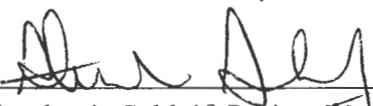
Dan McDonald, Project Manager,
Washington State Department of Ecology

Date: 9-26-17



Jeff Lyon, Project Manager,
Washington State Department of Ecology

Date: 9-26-17



Stephanie Schleif, Project Manager,
Washington State Department of Ecology

Date: 9/26/17

TRI-PARTY AGREEMENT MILESTONE REVIEW AND MONTHLY SUMMARY REPORT

1.0 ADMINISTRATIVE ITEMS/MILESTONE STATUS

Upcoming Meetings

The next 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. The next ORP project managers meeting is scheduled for Wednesday, September 20, 2017, from 1:00 p.m. to 3:30 p.m. at the ORP 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 Tri-Party Agreement (TPA) and Consent Decree (CD) reports, which will be submitted to the Administrative Record (AR).

Tri-Party Agreement Milestone Status

ORP noted that milestones M-045-56M and M-062-01AI were completed in July 2017.

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

(See agreements, issues and action items table).

Issue No. 2 – Will a pre-project managers meeting be re-established before the quarterly meeting? (5/18/17)

Ecology inquired about an agenda for today's meeting. ORP responded that an agenda is in the table of contents of the monthly report. Ecology raised the question again about holding a project managers meeting (PMM) before the quarterly milestone review meeting. Ecology noted that in the past, a small group of project managers held meetings prior to the quarterly meeting. *Ecology requested moving this issue to the action item log.* Ecology stated that a PMM is not held during the month when the quarterly meeting is held, and the PMM cannot be canceled unless agreement is reached by the parties. ORP stated that the quarterly meeting is being considered as the PMM. Ecology noted that in the past, it was generally agreed that the quarterly meeting did not go into the details of the project since senior management was attending the meeting. Ecology stated that the purpose for holding a pre-project managers meeting was to be prepared for the quarterly meeting and review the talking points.

It was noted that the start time of today's meeting was moved up a half hour to provide extra time for more detailed discussion, and Ecology suggested waiting until the end of the meeting to decide what the next step would be.

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

ORP stated that there was no change in status, and the T-112 work plan is still in legal review with no expected date for the review to be completed. This action remains on hold.

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

There was no update provided for the status of the results from the visual inspection of the four tanks at ETF. This action remains open.

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

ORP stated that the status of this action remains the same, and removal of the diesel generator is pending completion of the permit modification. This action remains open.

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

Ecology stated that it was determined no more meetings would be held with ORP until the understanding about how the SSTs will be permitted has been clarified. Ecology stated that two meetings with ORP have been held, and at least two more meetings will be scheduled. Ecology added it should be able to report an update at the next PMM about what the next step with ORP would be. This action remains open.

2.0 SYSTEM PLAN

ORP stated that the parties have been working towards System Plan 8 for about a year, and the end result is a draft product that was received from WRPS. ORP is currently going through the review process for transmittal of the System Plan 8 scenarios to Ecology.

3.0 ACQUISITION OF NEW FACILITIES

ORP stated that there was no change to the milestone dates, and the milestones remain in abeyance. ORP continues to develop a negotiation strategy, and recent guidance from senior management was received that will be incorporated into the negotiation strategy. ORP noted that part of the intent was to negotiate some of the seven items in milestone M-062-45 before system planning was issued, but some of the items require prior preparation. ORP will continue to work towards completing its negotiation strategy and make progress on the negotiations.

4.0 SUPPLEMENTAL TREATMENT AND PART B PERMIT APPLICATIONS

ORP stated that there was no change to the text in today's monthly summary, and that the discussion under Acquisition of New Facilities applies to these milestones as well.

Ecology initiated a discussion in reference to pages 6 and 31 of today's monthly summary report. Ecology stated that the Low Activity Waste Pretreatment System (LAWPS) is an important component to getting LAW feed, and that LAWPS is considered a key project task. Ecology requested that ORP add a LAWPS section to the monthly summary to include more substantial information than what is included on page 31. Ecology stated that the LAWPS information

should be in accordance with TPA action plan 4.1, and include the assistant manager, the federal project director, past accomplishments, significant planned actions, and issues.

ORP responded that it would discuss Ecology's request with management and the legal team. ORP noted that LAWPS is part of the negotiation strategy to look at the seven elements of M-062-45.

Ecology Request: ORP to establish a LAWPS section in the monthly summary report in accordance with TPA action plan 4.1.

5.0 242-A EVAPORATOR STATUS

ORP reported that the EC-06 campaign was completed in July 2017, and the waste volume reduction was 210,000 gallons. Preparations are under way for the EC-07 campaign, with an estimated start date to initiate feed on August 25, 2017. ORP noted that the AW-106 pump was installed, and the transfer from AW-106 to AW-102 was completed earlier this week.

ORP stated that an issue was noted during the EC-06 campaign when the flammable gas purge airline began to plug, which is part of the safety system. Efforts are under way to unplug the line, and the intent is to continue with EC-07 next week as planned. Ecology referred to the leak testing on the reboiler during EC-06, and inquired about the issue during the campaign and why it wasn't completed earlier. ORP responded that a new test station was fabricated to perform the tracer dye testing and take samples, but the configuration was not working and the decision was made to make another attempt in between EC-06 and EC-07. Ecology asked if the tracer dye testing is a new system. ORP responded that it is a new system, but the old system is still available as a backup.

Ecology noted that ORP had indicated earlier that the startup or operation of EC-07 had an impact on the integrity assessment, and it requested a status on the integrity assessment. ORP responded that the dye penetration testing is associated with the EC-07 startup, and it doesn't have an impact on the integrity assessment. Ecology requested an action item to have more discussion regarding the subject.

ORP Action: Schedule a meeting with Ecology to discuss any impacts on the integrity assessment associated with startup or operation of EC-07.

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

ORP noted that the new cover has been installed on Basin 43, and the remaining work is to tighten the tensioning wires to the cover. ORP stated that the hopper knocker, which knocks on the thin film dryer to drop the powder out, had failed and has since been repaired. ORP reported that plant cleanout is under way, and when it is completed, Basin 42 will be processed. Ecology asked when ORP is planning to start transfers to Basin 43. ORP responded that it would follow up with Ecology's question regarding Basin 43. Ecology noted that there was a plan to inspect the LERF basin liners, and the Basin 43 liner was to be inspected when the basin was empty. Ecology inquired about the inspection and if there was a follow-up report. Ecology noted that the availability of the LERF basins is critical for the Direct Feed Low Activity Waste (DFLAW)

project. ORP will follow up with Ecology's question regarding the inspection of the Basin 43 liner.

ORP to follow up on Ecology's Questions: 1) When will transfers to LERF Basin 43 start; 2) Was the liner of Basin 43 inspected and is there a report on the inspection.

7.0 TANK SYSTEM UPDATE

Double-Shell Tank (DST) Integrity - ORP stated that the Tank Integrity Expert Panel meeting was held in June 2017, and a report is being prepared and will be issued. Ecology referred to a discussion during the meeting regarding tank AY-102 and the question that was raised by DOE-RL about what more could be learned on the tank and whether any more money should be invested. Ecology added that WRPS had indicated there was nothing in the planning next year for AY-102. Ecology stated that at some point a decision needs to be made about either repairing or closing AY-102. ORP responded that sampling is planned for AY-102 that will provide some information regarding chemistry, and a video with an air gun is planned for either September (FY17) or in FY18. ORP noted that the air gun will shoot air in AY-102 to move some material around to allow a good view in the tank, and information from the results of the air gun video are needed before the next step can be determined. Ecology noted that there is waste in the annulus of AY-102 that cannot be removed.

ORP provided clarification to Ecology's comment about any future planning for AY-102. ORP noted that if it's stated there is nothing planned for AY-102 and it's not in the baseline, that doesn't mean that no action will be done. ORP pointed out that if an action is planned, a baseline change will be made to add the activity, but currently it is unknown what might be done. Ecology stated that ORP and Ecology will need to have a discussion at some point regarding AY-102. ORP agreed that a discussion will be needed. Ecology summarized that after the sample is taken and the video of the air gun occurs, there will be information available for the parties to make a decision regarding AY-102.

ORP noted that the Tank Integrity Expert Panel discussed the ultrasonic testing (UT) inspection, and the videos show corrosion from inside the tank, but there is the question about whether anything is on the outside of the inner tank. ORP added that it goes back to the question about how much more should be invested in AY-102, and whether the UT crawler should be put into the tank because the crawler could not be used again. ORP stated that it is aware of the recovery plan aspects and the information needed to make the decision regarding repair versus close the tank, and the scientific curiosity aspect shouldn't be allowed to delay what information is needed to make the decision. ORP noted that the repair versus close decision is called out in the settlement agreement. ORP and Ecology noted that certain activities or studies could continue after the repair versus close decision is made, unless it involves adding chemicals or water.

Ecology suggested that a meeting could be scheduled towards the end of calendar year 2017 to discuss the path forward for AY-102.

ORP Action: Schedule a meeting with Ecology in the November 2017 time frame to discuss path forward for repair versus close AY-102.

ORP noted that inspections continue for tanks AY-101 and AY-102. ORP stated that the eight enhanced annulus visual inspections listed in today's monthly summary have been completed. A

report has been issued on four of the tank inspections, and a report on the remaining four tank inspections will be issued in about two weeks.

Regarding the UT inspections for the DSTs, ORP noted that AN-106 was completed. There were complications with the UT in AZ-101 due to a contamination event, so the crew moved to the SY Farm and completed the UT inspection in SY-101. The UT inspection is in progress in SY-102, and mobilization efforts are under way for UT in SY-103. ORP stated that SY-102 and SY-103 are to be completed in FY17, and the crew will move back to AZ-101 and AY-101 in FY18. Ecology asked if any preparations were being made to get AZ-101 prepared for UT inspection in 2018. ORP responded that currently there are no preparations being made, although both of the crawlers have been removed and are being repaired, if possible. ORP noted that when the crew goes back to AZ-101 to do floor scans, it will not be on the side where the drip was, but on the other side where there were barely detectable amounts of contamination.

ORP stated that a tank integrity expert panel meeting is scheduled next week in Columbus, Ohio for two days. ORP noted that a corrosion sub-group, which is part of the tank integrity expert panel, will be present for the meeting. A call-in number is available for interested attendees.

Single-Shell Tanks (SST) Integrity – ORP noted that efforts are under way to select the Independent Qualified Registered Professional Engineer (IQRPE) to conduct the SST integrity assessment. ORP stated that not all of the tanks listed for in-tank video inspections will be completed in FY17, and that some of the inspections will be carried over into FY18.

Ecology inquired about the status of the intrusion mitigation data collection and reporting software. ORP responded that the software is not working that collects the data for the evaporation rates. ORP noted that the exhauster is still being operated, but it is difficult to determine precisely how much is being evaporated. Ecology asked if there are plans to repair the software. ORP responded that there are plans to repair the software, but it is a low priority due to other activities and available resources. ORP noted that over 7,000 gallons have been evaporated, and there are about 7,000 gallons of liquid remaining in tank T-111. ORP added that a video of the tank will be done soon, which will help determine the evaporation rate.

Independent Qualified Registered Professional Engineer (IQRPE) Activities – ORP noted that the IQRPE for the 242-A Evaporator is in progress and on schedule. The statement of work for the ETF IQRPE is being prepared, and the IQRPE integrity assessment is on schedule. ORP noted that the initial IQRPE planning is under way for the 219-S facility and the 222-S lab.

8.0 SINGLE-SHELL TANK INTEGRITY ASSURANCE

ORP stated that planning continues for the IQRPE SSTs structural integrity assessment in 2018, and responses to the request for proposals are being addressed.

9.0 IN-TANK CHARACTERIZATION SUMMARY

ORP stated that following internal discussions last week, agreement was reached on defining the status of a document as completed or released. If a document is completed, it is in the review process and not yet released for Ecology or public review. If a document is released, it is available to Ecology or the public to review.

ORP reported that grab sampling for AY-102, AN-107 and C-105 will be done this month, as planned. ORP noted that the C-105 sample is in support of retrievals.

10.0 SINGLE-SHELL TANK CLOSURE PROGRAM

ORP noted that two reports were submitted to Ecology to complete milestone M-045-61A. Ecology referred to M-045-92S that requires the need to reach agreement on the locations for barriers 3 and 4, noting that the milestone due date is September 2017. Ecology indicated that there had been discussions with ORP and agreement was reached, but the path to formal agreement had not been established. Ecology added that ORP was to write the change for the description in the milestone and send it to Ecology.

ORP Action: *ORP to provide Ecology formal write-up regarding agreement on barriers 3 and 4 under M-045-92S.*

11.0 SINGLE SHELL TANK RETRIEVAL PROGRAM

ORP stated that the C-111 retrieval data report (RDR) was transmitted to Ecology. Ecology confirmed receipt of the C-111 RDR.

12.0 TANK OPERATIONS CONTRACT OVERVIEW

ORP stated that the budgeted cost of work scheduled in tank farms for June 2017 was \$58.8 million, and the work performed was \$61.7, reflecting more work was performed than expected. However, the cost of work cost more than it should have, which resulted in a positive schedule variance and a negative cost variance. ORP noted that \$58 million represents a large amount of work, and compared it to the average of about \$49 million per month. ORP stated that the increase was due to getting more work done in the summer months and starting to operate under the annual FY17 budget starting in May 2017. ORP noted that prior to May 2017, the projects were operating under a continuing resolution since October 1, 2016.

ORP provided an overview of the cost and schedule variances for base operations and waste feed delivery as noted in today's monthly summary.

ORP stated that for waste feed delivery (5.03), the project had some challenges with schedules and cost due to the budget, and it started recovering in June 2017. ORP stated that most of the work that was done for less cost than originally planned was tied to the upgrade planning and getting the contracts in place for AP-107 and AP-105 and moving those activities forward. ORP added that from the cost aspect, there were benefits relative to the strategy for the Immobilized Low Activity Waste (ILAW) transporter by combining it with a design and construction contract. There were also benefits in the performance assessment (PA) work associated with the Integrated Disposal Facility (IDF) in terms of glass testing and other work to support the PA. ORP noted that the LAW mobilized glass work is the secondary waste and Effluent Management Facility (EMF) offgas stream testing relative to the glass support.

Ecology expressed appreciation for the detailed explanation ORP provided regarding waste feed delivery (5.03), and noted it was not included in the text of today's monthly summary. Ecology requested that ORP include more of that type of detail in the report. ORP agreed to include additional detail in the report for waste feed delivery.

ORP noted that there was a significant increase in the spending plan in June 2017 in relation to LAWPS (5.5), although it didn't translate to enough activity, resulting in unfavorable schedule and cost variances. Ecology referred to the contract-to-date cost performance index (CPI) of 0.96 for June 2017, and asked how the CPI translates to schedule float. ORP responded by explaining what the upcoming events are and how they will affect the schedule. ORP stated that the conceptual design and alternatives analysis was approved in 2015, and then the design phase started and proceeded to the 90 percent design complete. At that point, DOE-Headquarters directed ORP to lock in the cost and schedule baseline before authorizing full construction. ORP stated that from that point until the end of July 2017, it was experiencing a long in-between phase, but the contractor has submitted a package for long-lead procurements and site preparation. ORP stated it is reviewing the package of long-lead procurements. The plan is to purchase equipment early that takes time to fabricate, and it will be assembled at an offsite facility and tested with full-scale simulants before installing it in the facility on site.

ORP stated that DOE-Headquarters has to authorize the long-lead procurements and the site preparation work, and the authorization is scheduled to be completed by the end of October 2017. At that time, ORP should have permission to start fabricating equipment such as the cross-flow filters, the ion exchange columns, and a number of tanks and valves that go in the facility so that testing can be initiated.

ORP stated that the intent is to use a local contractor for site preparation, and an additional area near the Waste Treatment Plant (WTP) will be used for temporary buildings and lay-down yards for equipment. ORP noted that site infrastructure has been established for water, and electricity will soon be available.

ORP stated that by the end of July 2018, the intent is to have the 90 percent package ready to go to DOE-Headquarters to get authorization for bulk construction. ORP stated that leading up to July 2018, a 90 percent design review will be planned in the same way the 30 percent and 60 percent design reviews were conducted, which will include Ecology, DOE-Headquarters, Department of Health, and the Defense Nuclear Facilities Safety Board (DNFSB). ORP indicated that the timing of the 90 percent design review would be in the May/June 2018 time frame.

ORP stated that there have been some schedule slips in terms of resolving technical issues, and the primary driver is hydrogen mitigation. ORP noted that testing has been done at Pacific Northwest National Laboratory (PNNL) to understand how much hydrogen gas would be produced if site power is lost and the continuous flow of tank waste is stopped through the plant. ORP stated that safety systems are built into the design to mitigate hydrogen buildup, but the team is on the fourth iteration of that particular piece of the design. ORP noted that seeking authorization for full construction at the end of July 2018 is about six months later than originally planned, and it could reasonably be expected that there will be a slip in the ultimate delivery of the project.

ORP stated that it has been targeting August 2021 for LAWPS so that the LAW building could complete hot commissioning about two years prior to the Consent Decree deadline, and that target date will now change. ORP added that a specific end date was not currently available, but information is expected in September 2017 that would allow a date to be identified. ORP indicated that even with the schedule slip, there should be time to complete LAWPS and allow

the WTP LAW building be complete hot commissioning on time. ORP added that if the information shows significant changes in the schedule, there will be discussions with Ecology.

ORP summarized by stating that a specific number for schedule float could not be provided to Ecology. ORP noted that the original schedule for LAWPS was the most aggressive schedule possible, and it provided about two years of float in the Consent Decree deadline, and some of that float has been used. Ecology expressed appreciation with ORP's detailed explanation.

Ecology referred to the delays reviewing the critical decision 3A (CD-3A) design package (pg. 31 of the TPA monthly report), and stated that it has made several requests for a detailed listing of what will be included in the multiple submittals and the anticipated time frame for those submittals. ORP stated that the contractor submittals for the CD-3A design have been delivered, and noted that Ecology participated in the 30 and 60 percent design reviews, although a large group design review was not done for the CD-3A. ORP stated that a meeting will be scheduled with Ecology to determine what needs to be provided.

ORP noted that in parallel with the CD-3A effort, the permitting process was being conducted. ORP stated that the first submittal, which is the largest of the three documents, is in public comment. ORP pointed out that some of the documents as part of the permitting submittals contain the same information in the CD-3A package. ORP noted that a public comment meeting is scheduled August 21, 2017, in the Richland public library. ORP stated that the public comment period was originally scheduled through September 15, 2017, but the Yakama Nation requested an extension to the end of October 2017, which ORP is in agreement with. ORP anticipates that Ecology will respond to the Yakama Nation's request. When Ecology conducts their 45-day public comment period toward the end of the permitting process, ORP expects to hold that public comment period to the 45-day duration. Any extensions to this later public comment period would cause a day-for-day slip in the release of permits and could impact construction.

Ecology again expressed appreciation with the information ORP was providing today, and requested including that level of detail in the monthly summary report. Ecology stated that in lieu of an action item, it could expect a response from ORP regarding details of the CD-3A submittals. ORP stated that it will provide a response to Ecology.

CONSENT DECREE MONTHLY SUMMARY REPORT REVIEW

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

(See Agreements, Issues and Action Items Table):

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

ORP stated that the conceptual design study regarding the standard high solids vessel (SHSV) is still on track to be received from Bechtel in September 2017. Ecology asked if a summary briefing could be provided in the October 2017 time frame, regardless of how detailed it might be, and a follow-up briefing could be provided, if needed. ORP responded that the initial briefing would be a summary of the controls and mixing testing, but the conceptual design for planning areas 2, 3 and 4 won't resume until after the testing results are received. Ecology acknowledged that the briefing would only be in terms of the testing, but it would provide an idea of the design constraints.

ORP agreed to provide Ecology a briefing on the controls and mixing testing in the October 2017 time frame. This action remains open.

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

Ecology stated that its primary concern is if a separate meeting is not held to discuss the delays that are included in the quarterly report, that the delays are discussed during the monthly project managers meeting (PMM). Ecology added that ORP or contractor recovery plans should also be included in the discussion. ORP stated that the quarterly report includes impacts to milestones and recovery plans, and it is more specific to issues. ORP stated that the monthly report provides the earned value data, which discusses areas of the project that were delayed and the recovery plans. ORP indicated that some of the discussion in the quarterly report could be pulled into the monthly PMMs.

Ecology noted that sometimes there is a resulting cascade from an issue, and there is a need to identify cumulative issues and how they impact each piece of the cascade. Ecology indicated that more information is needed to better understand the impacts from a resulting issue cascade.

ORP noted that when the Consent Decree was amended in April 2016, a change was implemented regarding the summary reports. Before April 2016, a monthly report was not done when the quarterly report was issued. After April 2016, a monthly summary report is issued along with the quarterly report, and the decision was made that a briefing would not be done to both reports. Ecology noted that the quarterly report has value added in perspectives that are not always discussed in the monthly report. ORP pointed out that when it briefs on the Balance of Facilities (BOF), for example, all of the information in the quarterly report is touched on during the monthly meetings, and more in-depth details are covered in the monthly meetings. ORP added that no information is withheld during the monthly meeting that would be included in the quarterly report.

ORP noted that the quarterly versus monthly report issue was identified two months ago, and suggested that the parties continue with the briefings to determine what follow-on actions would be needed to satisfy Ecology. Ecology agreed with ORP, and requested leaving this action open to allow for further discussion on the topic. This action remains open.

Action No. 3 (WTP-17-07-01)

ORP indicated that the final HLW design and operability (D&O) report should have been transmitted to Ecology. ORP stated that it will transmit the D&O report to the Ecology point of contact. Ecology stated that this action could be closed. This action was closed.

2.0 SPARE REBOILER REQUIREMENT STATUS

ORP noted that there are two milestones associated with the spare reboiler, and the first milestone has been completed to award a contract for the design of the spare reboiler. ORP stated that the second milestone is due by December 31, 2018 to have the spare reboiler on site, and it is anticipated the reboiler will be delivered ahead of schedule in early 2018.

3.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

ORP reported that C-105 retrieval operations started last week (milestone D-16B-01), and about 13,200 gallons of waste have been removed from the tank. ORP noted that about 3,000 gallons was water that was added during construction activities, and the remaining 10,200 gallons was waste believed to be broken up by the Mobile Arm Retrieval System (MARS) that was not removed due to the hose failure. ORP stated that although approximately a third of the waste was removed from C-105, that rate is not expected to continue. Currently a water soak recirculation is under way in C-105 to dissolve the water soluble carbonates, and then waste will be pumped out this weekend.

ORP reported that five thermocouples have now been removed from AX-102 and AX-104, and the sixth thermocouple is still stuck in the riser, so the crew will move to an alternative riser. An old slucier will be pulled out of the alternative riser so that cameras and lights can be placed in the riser.

ORP stated that the A285 chemical and water services building is essentially complete, with all the work scope planned for this year done except for a couple of punch list items. The building will be left cold and dark until the end of 2018. Ecology asked if the A285 water skid is in support of A/AX retrievals. ORP responded that it is in support of A/AX retrievals. Ecology inquired about the size of the water skid. ORP explained that the water skid is in a 40-foot container that has two rows of piping, with valves and pumps, and it will be set inside the fence line in about six to eight months. ORP stated that the hard pipe will run from the A285 Building underground where the paths are for crane and personnel movement and driveways. The hard pipe will then go above ground and connect to the hose-in-hose lines that will go to individual tanks. Ecology asked if the system is described in the A/AX tank waste retrieval work plans (TWRWPs). ORP responded that it is in the TWRWPs. Ecology asked if ORP plans to keep the system in place for a number of years. ORP stated that the system will be in place until retrievals are done in A/AX Farm.

ORP stated that WRPS has been conducting stack modeling associated with the two stacks in A Farm, the two in AX Farm, and the one from the evaporator. The stack modeling is being done to determine and minimize vapor impacts from the five stacks to establish a final location. A redesign of the ventilation tie-ins and the path for electrical and condensate lines will be required once the modeling is completed.

ORP stated that the major fabrication of the two exhausters for A Farm has been completed, and during factory testing last week an issue with vibration in both exhausters was identified. One exhauster was fixed with shimming, and the other exhauster still has vibration. ORP indicated that the shop will probably do some disassembly and check the tolerance and balances on fans, etc., to get the exhauster running smoothly.

4.0 TANK WASTE RETRIEVAL WORK PLAN STATUS

ORP stated that the AX-101, AX-102, AX-103 and AX-104 TWRWPs are in legal review, and the TWRWP package will be sent to Ecology when the legal review is completed and all of the comments have been incorporated.

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

ORP stated that tank farms retrieval and closure posted a positive schedule variance and a negative cost variance for June 2017. The positive schedule variance was mainly due to accelerating work on C-105 and the crews working overtime. The negative cost variance was due in part to the higher cost associated with removing thermocouples from the risers. ORP noted that over time the corrosion developing in the risers, along with the tight tolerances when they were installed, created a challenge with removing the thermocouples.

6.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

ORP stated that for the overall WTP, there would usually be discussion regarding a rebaseline effort or any contract modifications that were done, but there are no efforts in those areas to report on, which relates to minimal past accomplishments or planned activities for discussion. ORP added that the areas of past accomplishments and significant planned activities will be deferred to the individual facilities. ORP stated that the WTP continues to focus on LAW, BOF and LAB (LBL), and the various percent completes were provided for LBL. Ecology pointed out that in terms of percentages as a whole, there is a formal baseline for LBL, but the formal baselines for HLW and PT were suspended in 2012, and they are operating under an internal baseline management system, which is equivalent to a formal baseline.

Ecology asked if the Effluent Management Facility (EMF) is included in the LBL baseline. ORP stated that the EMF is included in LBL. ORP pointed to the last page of today's CD report, and stated that the EMF is included in DFLAW, even though it is technically a BOF facility. Ecology noted that there is a requirement under the TPA to provide a life cycle cost and schedule report, although the milestone for 2018 was deleted, but it is required for 2019. Ecology stated that the 2019 life cycle report will be expected to include the schedule and cost for the whole WTP mission. ORP stated that the intent is to start the rebaselining for HLW next year, after the Preliminary Documented Safety Analysis (PDSA) and the Safety Design Strategy (SDS) are completed. The SDS feeds into the PDSA, and the PDSA will provide authorization for

construction. ORP added that closing higher risk system D&O vulnerabilities that were identified was critical to being able to move towards rebaselining HLW. ORP noted that there will be strategic discussions regarding System Plan 8, which will run several scenarios for DFLAW, although none of the scenarios are ready to plan to. Ecology pointed out that System Plan 8 will provide the basis for completing a life cycle report in 2019.

ORP touched on aspects of the unfavorable schedule variances for LBL, PT and HLW. ORP noted that although there were delays with simulant procurement associated with PT mixing testing, the testing is still progressing towards completion in September 2017.

7.0 PRETREATMENT FACILITY

ORP reported that there has been good progress with technical issue resolution. ORP noted that T1, T2 and T3 are in DOE-Headquarters and DNFSB discussions, working towards closure. ORP stated that T4, which is dealing with the pulse jet mixing (PJM), is proceeding well and on track to be completed by the end of September 2017. ORP noted that all of the mixing test results have been very positive, and the next step will involve the data analysis documentation, which will be done in FY18.

ORP reported that T5 to resolve erosion/corrosion is also proceeding well. Results have been satisfactory associated with pitting and cracking embeds on the corrosion aspect. Efforts continue with assessing erosion wear rates and the design and process changes resulting from the technical issue process. ORP noted that based on prioritization of WTP work, T5 efforts will fall beyond FY17. ORP added that a path to resolving T5 has been established, but there is not enough funding to finish in FY17. Ecology noted that the report on erosion has been issued, and it indicates there is enough margin in the steel. Ecology requested an action for a briefing on the process for determining the margins on the erosion side.

ORP Action: *ORP to set up a briefing with Ecology to discuss how the erosion margins were determined for steel (T5).*

ORP stated that the effort associated with T6 for the SHSV conceptual design study has evolved over the past few months, but the product has been defined, and the completion date is still expected at the end of September 2017. At that time, updated flow sheets, tank utilization results, some modeling runs, and a rough order of magnitude cost estimate on the difference between the SHSV versus the current design will be released. Ecology asked if all of the associated erosions will be imported into the study to ensure there will not be any cumulative issues. ORP responded that it has been factored in, with the exception of the T5 piece that will go into FY18. ORP noted that the erosion report is not a final report. Ecology stated its goal is to ensure that there are no potential cumulative effects that have been left out of the final decision making. ORP responded that there has been a lot of integration of actions and issues that go into all of the technical issues.

ORP stated that the analysis study has been completed for the vessel and equipment structural integrity (T7) and it is available. Bechtel is currently updating the design model with the as-built configuration from the SHSV to evaluate the waste feed receipt system stresses, and the stress specification is planned to be completed by the end of September 2017. ORP added that some of the efforts that are associated with erosion/corrosion, demobilization, and final documentation of

mixing testing will continue beyond FY17, but the bulk of the data needed to make decisions on the technical issues will be available by the end of September 2017. Ecology clarified that the data will support how the technical issues will be resolved, but resolution will not be completed. ORP concurred with Ecology's clarification, and noted that the DNFSB will likely weigh in for a period of time, after the data is completed, to accept the path to closure of the technical issues.

ORP noted that the results for the HEPA filter testing associated with T8 were outstanding, and a solid filter has been identified for both remote and safe change.

ORP stated that in anticipation of technical issue resolution, Bechtel is in the process of evaluating the strategy for moving forward to resume engineering, procurement and construction. Bechtel will be following a similar path to HLW by developing a facility completion plan and a strategy to get to a new baseline. Ecology stated that the initial facility completion plan is satisfactory, and suggested there would be a potential need to review the facility completion plan based on the outcomes of the technical issue resolutions. ORP pointed out that the facility completion plan that Ecology is referring to is for HLW, and a determination has been made that the PT technical issues no longer have an effect or pose a risk to the HLW facility. ORP reiterated that the PT facility completion plan will follow a similar path as HLW, and all of the technical issues will ultimately be driving the facility completion plan, which will go on into the next few years for PT.

ORP stated that testing results associated with erosion and hydrogen in piping and vessels are expected in the December 2017/January 2018 time frame, which will represent the path forward for resolution of all eight technical issues. ORP noted that the amended Consent Decree redefined the technical issues and combined some of them into five technical issues, but the projects have continued to manage them as eight technical issues.

8.0 HIGH-LEVEL WASTE FACILITY

ORP provided a clarification between HLW and PT in terms of technical issue resolution and rebaselining. ORP stated that HLW focused on the ventilation issue, which is why all of the HEPA filter testing was done. ORP noted that the LAW facility will receive liquids, which won't cause a mixing issue, but HLW (and PT) will receive solids, which creates an issue with mixing. ORP stated that the two vessels that will go in the lower level of HLW (RLD-7/8) are being fabricated, and the HLW facility cannot be built up until the vessels are received and installed in the spring of 2018. ORP added that all of the piping and equipment needed for the two vessels have been received. ORP pointed out that in terms of schedule, HLW's technical issues were not as significant as PT's, and since HLW's mixing issue is getting resolved in the near term, the rebaselining for HLW can be done next year.

ORP stated that the HLW facility completion plan is moving forward, which will allow full authorization for procurement and construction. ORP stated that there are two parallel paths for reaching full authorization: 1) nuclear safety documentation via the preliminary documented safety analysis (PDSA) effort; 2) Bechtel compliance with ORP's January 2016 letter of direction that identified about 20 different criteria that needed to be addressed. The criteria ranged from priority level 1 findings to D&O issues.

ORP reported that Bechtel has submitted the PDSA, which will be in review for the next four weeks to ensure all the comments have been incorporated, and that will allow the safety evaluation report to be issued by the end of September 2017. Ecology inquired about the resource constraints, noting that there had been delays due to a lack of resources. ORP responded that additional resources were brought in during July 2017. It was noted that there were no near-term milestones or Consent Decree deadlines that were impacted by the lack of resources.

ORP reported that Bechtel has submitted its response to the January 2016 letter, and ORP started an intensive assessment, surveillance and verification that Bechtel has met all the criteria in the letter. ORP stated that a report is being prepared for senior management that documents the basis for granting authorization for full release of engineering, procurement and construction for HLW. Ecology asked if the report would be available. *ORP responded that it would follow up on Ecology's request for the report documenting the basis for full authorization.*

ORP stated that at this point, Bechtel has met the criteria laid out in the letter and there is not any missing information. ORP noted that there are several remaining actions that are documented in the corrective actions program that are being tracked for closure since some of the priority level 1 findings on margin, calculations and quality are not HLW-specific. ORP added that those actions are more associated with programmatic issues that are being monitored for closure, but they are not serious enough to stop authorization for HLW. Ecology asked if those issues could cause concern with any of the other facilities in question. ORP indicated that they should not cause concern. Ecology clarified its inquiry by pointing to ORP's statement that the issues are not HLW-specific but are related to quality. ORP responded that programmatically, Bechtel is resolving the issues at an overarching level and not at the facility level, and Bechtel is aware of the closure status for the outstanding priority level 1 findings.

ORP stated that the plan is to issue the letter to Bechtel by the end of September 2017 for authorization to proceed, and once full authorization has been granted, a rebaselining effort will be initiated. ORP noted that Bechtel has started rebaselining pre-work by quantifying and estimating scope to finish design, procurement and construction, now that new processes and design changes are in place. Ecology asked if there will be three baselines to follow for LBL, HLW and PT, or if they will be rolled into one aggregate baseline. ORP responded that HLW will have an interim baseline that will merge into the WTP baseline, and PT will go through the same process. ORP added that there is only one baseline for the WTP capital asset project. ORP noted that the rebaseline for HLW will occur in the FY18/19 time frame.

9.0 LOW-ACTIVITY WASTE FACILITY

ORP stated that the interim contract milestone for assembly of melter No. 1 was completed, and the melter has been moved into its final position. The seismic restraints have been received, and they are being installed on melter 1.

ORP noted that the interim milestones are the result of a contract modification that was done in December 2016, which established a fee milestone structure towards making construction progress at LAW. ORP stated that the interim milestones are all progress construction complete milestones that lead to the main construction milestone due in June 2018. ORP pointed out that the contractor is expecting to meet the construction complete progress milestone in March 2018.

ORP noted that there has been discussion with Ecology about the difference between the construction progress milestones versus the construction substantially complete milestone in 2020 for LAW. ORP stated that the Consent Decree construction substantially complete milestone in 2020 represents transitioning the systems to the startup organization for commissioning and operations, which is not what is being done in March 2018.

Ecology asked why the budgeted cost of work scheduled for May 2017 is negative. ORP responded that there was a large baseline change proposal that adjusted the planning and the sequencing of work. ORP added that the adjustments pulled work to credit for work that was previously done and moved some work out. ORP stated that it reflected an anomaly in the data, and a review will be done to correct the adjustments because it skews the fiscal year calculations. ORP noted that it is common to see a large negative variance associated with equipment, which reflects receipt later than expected. ORP stated that some of the negatives reflect a one-month snapshot in time that will get corrected.

ORP stated that the focus has now turned to the interim milestone for melter No. 2. ORP noted that all of the jack bolts have been installed on melter 2, and that most of the remaining work has been completed on melter 2, with the exception of the refractory on the pour spout. It was clarified that the refractory will be replaced and not repaired, and the monthly summary report will be corrected to state it is being replaced.

ORP stated that approval of the PDSA interim change package will allow the PDSA development to move forward.

ORP noted that the 90 percent design review for the primary and secondary offgas systems is tentatively scheduled for November 2017, and as requested, Ecology has been included on the list of attendees.

ORP reported that the issue with fitting up the hilltop fittings between the melter and the area going into the process cells has been resolved. The hilltop fittings were sent to a local vendor, and the fittings are fitting up after being adjusted.

ORP reported that Bechtel is projecting all of the process hazards analyses will be completed by the end of August 2017, which represents a major step towards getting the PDSA issued and then issuing the documented safety analysis (DSA).

10.0 BALANCE OF FACILITIES

ORP stated that BOF is entering the startup testing phase for support services, including electrical distribution, water systems, and heat synchronization. Building 87 is the main electrical distribution hub from offsite power, and it tags into Building 91. The BOF distribution switch gear center is in Building 91, which is working toward functional testing completion. ORP stated that Building 91 provides mainly low voltage electrical power to the other facilities, although there are a couple other facilities that need medium voltage electrical power. ORP noted that an electrical outage will be required to complete some functional tests for Building 91, and an effort is under way to determine the right time for the outage that will not hold up other work.

ORP stated that the nonradioactive liquid drain system (NLD) receives all the system flushes. The NLD system has completed all of its testing, including functional testing, and it has been turned over to operations and is online. ORP stated that the interface control document (ICD) is working with the Treated Effluent Disposal Facility (TEDF), and there is capability for having a drain for all of the system flushes. Ecology noted that the ICDs are control documents that provide an agreement between the provider of goods and services and the receiver of the goods and services, and the ICDS also provide an understanding of the roles and interface point.

ORP stated that the water treatment facility has been undergoing testing and it is moving water around, and that potable water service should be available within a month or two. ORP stated that a heat sync is needed for all the pumps, and the cooling tower will be needed when the bigger systems start running to support the chiller compressor plant and the process service water system. ORP noted that the cooling tower isn't as important for the smaller pumps that run in the water treatment facility.

ORP stated that the water treatment facility has three main systems that are important: process service water, potable water and de-ionized (DI) water. Testing is under way for the process service water system, and it should be undergoing energized testing in the near future. ORP noted that there was an issue with leaks on the fitting on a filter in the process service water system, but the system is getting filled and tested. The potable water system is undergoing energized testing. ORP stated that the process service water and the potable water systems will support the final flushing when they become functional, and they will also support the functional testing on the DI water system.

ORP reported on a challenge with the motor controllers in the cooling tower facility. The motor controllers operate the two 800 horsepower pumps that sit in front of the cooling tower facility, and the motor controllers need to be refurbished. ORP stated that the challenge has been associated with receipt of the parts for the motor controllers, which were expected in September 2017, and this morning notification was received there may be a delay with receipt of the parts. ORP stated that it has been working closely with the vendor to get the parts.

Ecology asked if the Effluent Management Facility (EMF) is included in the overall percent complete number for BOF. ORP responded that on the last page of today's monthly summary report (pg 33), there is a control account for DFLAW, and the costs associated with EMF are rolled into the DFLAW control account. ORP added that the BOF account is a separate account. ORP noted that there was a discussion regarding this topic during last month's project managers meeting, and another paragraph could be added for DFLAW that has its own percent complete numbers. Ecology indicated that the percent complete numbers are for BOF and don't reflect EMF. ORP agreed that the numbers don't include EMF, and a follow up with project controls will be done so the percent complete numbers accurately reflect BOF, DFLAW and EMF. Ecology asked where LAWPS fits in since it is part of DFLAW. ORP responded that LAWPS falls under the tank farms operations contract. It was noted that LAWPS will be incorporated in the TPA side of the project and the DFLAW cost is tracked in the CD, and management of the projects is bifurcated. Ecology asked how the overall DFLAW is being tracked. ORP responded that the One System team maintains an integrated schedule that includes EMF, LAW, LAWPS, and DST upgrades that are needed.

ORP reported that the two main focuses with the EMF are design completion and procurement. ORP stated that the EMF design has progressed to a committed design, which has enough information on all the systems and how they will integrate with each other to go out for bids. ORP noted that achieving the committed design was a contractor milestone that was accomplished in May 2017. ORP stated that the next step will be to reach a confirmed status on the design, which reflects true design completion after feedback from the vendors has been received. ORP stated that rebar and stem walls for EMF are going up. ORP expressed appreciation to Ecology regarding receipt of the temporary authorizations via the permitting efforts which allowed initial concrete work as well as placing the topping slab. ORP noted that all of the ring beams have been received on site, and they are in the process of being placed. ORP added that placement of the ring beams and secondary steel is anticipated to be completed in the October 2017 time frame, with the topping slab placement in the November 2017 time frame. Ecology inquired about resolution of potential issues on the welding of the ring beams. ORP responded that the welding issue was resolved in July 2017, and all of the repairs have been made.

ORP stated that procurement for EMF will be a major effort in calendar year 2018 in terms of getting all the equipment delivered. ORP added that the current effort is to get all the contracts awarded by the end of September 2017. ORP stated that the next phase will be to work through the individual equipment packages and get the permit modifications in place.

ORP provided an update on the supplemental cathodic protection system that was installed to work with the original cathodic system and bring it up to performance level. ORP reported that currently the cathodic protection system is meeting more than 80 percent of the requirements and with another 15 percent or more, the system will be functioning above the requirement. ORP stated that there will be a lot of balancing with the system over the next several months as it is taken offline to do adjustments, but overall the cathodic protection system is seen as successful, based on the supplemental system that was installed.

11.0 ANALYTICAL LABORATORY

ORP stated that there is very little activity in the LAB. Efforts continue with the test engineer's work station that will support some of the startup testing in the field with BOF. ORP stated that the main focus is getting the temporary offsite lab space approved, which was anticipated to be completed in August 2017, but efforts are continuing to rent lab space from Columbia Basin College (CBC). Ecology asked if the delay in leasing the temporary lab space is impacting the schedule margin. ORP indicated that it is not impacting the schedule, and it will be beneficial to have the temporary lab and be able to start methods development instead of waiting for the Analytical Lab to be up and running. ORP noted that methods development, in terms of DFLAW, will not be developing new methods, but it will be more of a right-sizing type of activity that will assist with equipment selection.

Ecology asked about the time frame for when ORP would become concerned with schedule margin. ORP responded that methods development is not the area of concern, but getting equipment installed and qualified once it's in place represents the concern for the overall LAB operations. ORP stated that there will be some right-sizing of the system for DFLAW, which involves installing valves to isolate the hot cells.

Oregon Department of Energy (ODOE) asked if installation of the replacement for heating, ventilation and air-conditioning was specific to the test engineer's work station and not for the entire LAB. ORP responded that it was for the test engineer's work station, and an additional AC unit was needed after a series of servers were installed about two and a half years ago. ORP added installation of a toxicity refrigerant monitor is associated with getting the AC unit installed.

ATTENDEES:

DOE Office of River Protection:

W. Abdul
J. E. Cheadle
K. A. Ebert
R. L. Evans
J. M. Johnson
D. P. Knight
B. M. Mauss
A. C. McCartney
G. D. Trenchard
B. R. Trimberger
R. J. Valle
W. R. Wrzesinski

Washington State Department of Ecology:

J. Alzheimer
R. K. Biyani
N. Chandran
S. Lowe
J. D. McDonald
J. Price
M. Skorska

Mission Support Alliance/TPA:

R. E. Piippo
M. J. Turner

ORP/Ecology TPA and CD Agreements, Issues, and Action Items –August 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.
2. Will a pre-project manager meeting be re-established to occur before the quarterly meeting? (5/18/2017)

ORP/Ecology TPA and CD Agreements, Issues, and Action Items –August 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 permit mod.	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

#	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 (7/20/2017)	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

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

#	Action ID	Start Date	Action	Updates / Needs for Closure	Actionee(s)	Status/ Date Closed
3	WTP-17-07-01	07/20/17	ORP to provide Ecology a copy of final HLW D&O report.		Wahed Abdul	Open

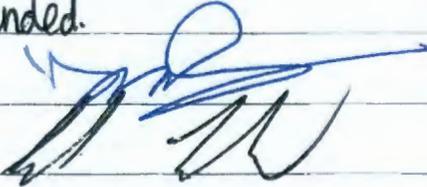
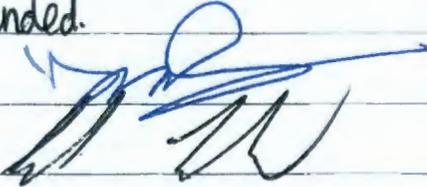
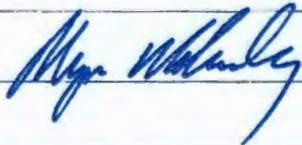
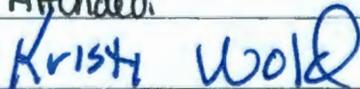
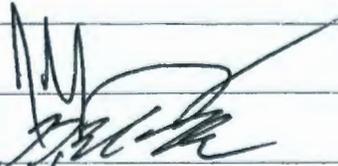
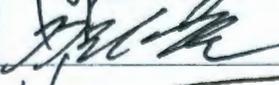
August 17 2017
 ORP TPA CD Meeting

PRINT NAME	SIGN NAME	ORG
WHITELEY, CRAIG Abdul, Wahed	Craig Whiteley For WAHED ABDUL	ORP
Alzheimer, Jim		ECY
Barnes, Mike		ECY
Beehler, Steve		ORP
Bovier, Jan		ORP
Brasher, Stephanie	Stephanie Brasher	MSA
Brown, Dennis		ORP
Bruggeman, Jeff	Jeff Bruggeman	ORP
Burnett, Kaylin	Attended.	ORP
Chandran, Nitya		ECY
Cimon, Shelley	Shelley Cimon	OR State
Curn, Barry		BNI
Diediker, Janet		ORP
Doughty, John	John	WRPS
Eakins, Reggie Jr		ORP
Evans, Rana	Rana	ORP
Faulk, Dennis	Dennis	EPA
Gao, Tracy		ECY
Grindstaff, Joni	Joni	ORP
Hall, Katie	Attended.	ECY
Hamilton, James		WRPS
Hernandez, Paul	Paul Hernandez	ORP
Jeremy, Johnson		ORP

August 17 2017
 ORP TPA CD Meeting

PRINT NAME	SIGN NAME	ORG
Jones, Mandy		ECY
Joyner, Jessica		WRPS
Keith, Colleen		ORP
Kemp, Christopher		ORP
Knox, Kathy	<i>Kathy Knox</i>	Court Reporter
Kriskovich, Ellen		ORP
Lobos, Rod		EPA
Lowe, Steven	<i>Attended.</i>	ECY
Lyon, Jeffery	<i>Attended.</i>	ECY
Martell, John		DOH
Mathey, Jared		ECY
Mattlin, Ellen		ORP
McCartney, Anne		ORP
McDonald, Dan	<i>McDonald</i>	ECY
Menard, Nina		ECY
Parker, Dan		WRPS
Pfaff, Stephen H	<i>Stephen H Pfaff</i>	ORP
Piippo, Robert E	<i>Robert E Piippo</i>	MSA
Pomiak, Andrew	<i>attended.</i>	ECY
Price, John	<i>Attended.</i>	ECY
Rambo, Jeffrey	<i>Jeffrey Rambo</i>	ORP
Rochette, Beth		ECY
Schleif, Stephanie		ECY

August 17 2017
 ORP TPA CD Meeting

PRINT NAME	SIGN NAME	ORG
Schmidt, John		DOH
Serafin, Shane		ORP
Skorska, Maria		ECY
Smith, Alex	Attended.	ECY
Stewart, Dustin		ORP
Trenchard, Glyn		ORP
Trimberger, Bryan		ORP
Turner, Michael		MSA
Utley, Randell		DOH
Valle, Richard		ORP
Walmsley, Mign		ECY
Wang, Oliver S		ECY
Whalen, Cheryl	Attended.	ECY
Wold, Kristi		ECY
Wrzesinski, Wendell		ORP
Young, Jason		ORP
Klein, Michael		MSA
Turner, Vanessa		ORP