

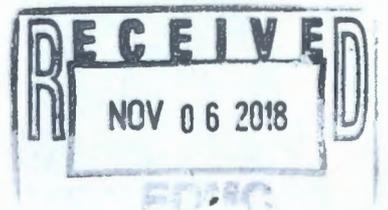
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Office of River Protection
Project Managers' Meeting Minutes

2440 Stevens Center
Richland, Washington

September 19, 2018



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PROJECT MANAGERS CONCURRENCE SIGNATURES

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Tri-Party Agreement Quarterly Milestone Review Meeting.

Wahed Abdul Date: 10/15/18
Wahed Abdul, DOE-ORP

JB Jan B Bries Date: 10/16/18
Jan Bries, DOE-ORP

KW Kaylin Burnett Date: 10/31/18
Kaylin Burnett, DOE-ORP

PR Paul Hernandez Date: 10/16/18
Paul Hernandez, DOE-ORP

SH Steve Pfaff Date: 10/31/2018
Steve Pfaff, DOE-ORP

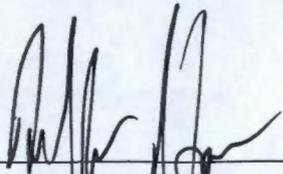
J Jeff Rambo Date: 10/17/18
Jeff Rambo, DOE-ORP

SC Sahid Smith Date: 10/17/18
Sahid Smith, DOE-ORP

DM Dustin Stewart Date: 10/16/18
Dustin Stewart, DOE-ORP

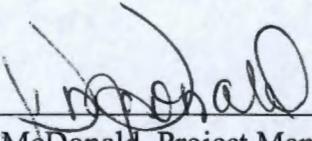
RV Richard Valle Date: 10/16/2018
Richard Valle, DOE-ORP

JY Jason Young Date: 10/16/18
Jason Young, DOE-ORP

W 

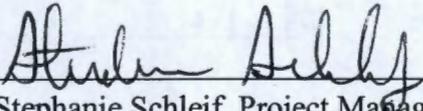
Jeff Lyon, Project Manager
Washington State Department of Ecology

Date: 11-2-18

W 

Dan McDonald, Project Manager
Washington State Department of Ecology

Date: 11-1-18

SN 

Stephanie Schleif, Project Manager,
Washington State Department of Ecology

Date: 11-6-18

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TRI-PARTY AGREEMENT MILESTONE REVIEW AND MONTHLY SUMMARY REPORT

1.0 ADMINISTRATIVE ITEMS/MILESTONE STATUS

Upcoming Meetings

The next project managers meeting (PMM) is scheduled for Thursday, October 18, 2018, from 9:00 a.m. to 11:30 a.m. at the ORP office in Richland, Washington. The Interagency Management Integration Team (IAMIT) will precede the PMM at 8:30 a.m. The ORP quarterly milestone review is scheduled for November 15, 2018, from 8:45 a.m. to 11:00 a.m. at the Ecology office in Richland, Washington. The IAMIT will precede the ORP quarterly review, starting at 8:00 a.m.

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 September 2018, which covers progress during the period of August 1-31, 2018, and the earned value management system (EVMS) data for July 1-31, 2018. The September 2018 Consent Decree (CD) monthly summary report covering the same period as the September 2018 TPA report has not been issued and was not available for today's PMM.

Tri-Party Agreement Milestone Status

(See pgs. 3-4 in the monthly TPA report.)

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

(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. ORP noted that this action item represented a larger issue involving condensate that has been dealt with for decades and asked if Ecology wanted to keep this action open. Ecology referred to the recent "vapors" settlement agreement that was issued and asked if the condensate issue was mentioned. ORP responded that the summary for the 51-page settlement agreement did not refer to the condensate issue. Ecology suggested that ORP follow up on the settlement agreement in terms of any influence on the condensate issue. Ecology noted that this action item was due to ORP's intent to start ventilating tank T-112 in an effort to dry out the liquids. ORP stated that it is still the intent to ventilate T-112, and money has already been invested in the piping. Ecology asked for clarification about which entity, DOE or Ecology (or both), is conducting the legal review on the T-112 work plan. ORP responded that the legal review is being done by ORP.

Ecology requested keeping this action item on the action table, and suggested the parties review the Consent Decree and then follow up with senior management to decide what the next steps should be for T-112. ORP responded that the action represents a high-level discussion since it

involves the definition of condensate. ORP agreed to follow up with its senior management in an effort to move this action forward. This action remains on hold.

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

This action was closed on August 16, 2018 and will be removed from the table next month.

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

ORP stated that there is no schedule for removal of the 242-A Evaporator diesel generator, but it is anticipated there will be action taken with the schedule in the next few months after the fiscal year starts October 1, 2018. Ecology noted that the Yakima Ecology office conducted an inspection of the underground diesel storage tank. ORP confirmed that the Yakima Ecology office did come out to the site. A craftsman accompanied the group and pulled the cover off the tank fill area so the area could be inspected. The Yakima Ecology office also looked at the controls, was satisfied with the inspection and indicated there were no findings. 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 Double Shelled Tank pumping guide as it awaits information on the annulus emergency pumping and what the path forward will be. ORP stated that a meeting could be scheduled anytime if Ecology prefers to start a discussion. ORP added that there are other activities that are being worked, and suggested further discussion offline regarding which activities Ecology would prefer to prioritize. This action remains open.

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

ORP stated that the HNF-EP-0182 waste tank summary report has been revised and suggested closing this action. Ecology stated its preference to leave the action open until it has reviewed the revised report. This action remains open.

Action No. 6 (TF-18-07-01)

ORP stated that it has been working with the DOE-RL office on several issues associated with groundwater modeling, and noted that DOE-RL has access to ORP's data. Ecology stated that it is an ORP/DOE-RL issue that both parties need to continue in an effort to assist Ecology in working through integrating the groundwater modeling for the WMA-C PA with the BP-5 remedial design for pump and treat and WMA-C for closure. ORP agreed to continue working on the issue with DOE-RL. Ecology noted that this action is also relying on issuance of the Interim Record of Decision (IROD), and the parties need more information about the IROD. This action remains open.

Action No. 7 (TF-18-07-02)

ORP stated that this action was discussed with the Tank Integrity Evaluation Panel (TIEP), and the TIEP's conclusion was that it had confidence in the flow mix and that sampling did not need to be varied. ORP stated that there were notes from the TIEP's discussion that could be provided

to Ecology. ORP and Ecology stated their recollection during last month's meeting was to close this action, and it was agreed that this action could be closed. This action was closed.

2.0 SYSTEM PLAN

ORP stated that there were no new updates to report on the System Plan. ORP noted that the M-062-45 negotiations were extended to November 15, 2018. Ecology stated that it had released a letter that speaks in general to actions Ecology has taken and items that the parties will need to consider as they move forward with the M-062-45 negotiations. Ecology noted that the letter states that ORP had relayed the Assistant Energy Secretary's request to be involved with the negotiations, and the negotiations were extended to accommodate the Secretary's request to be involved. Ecology added that the letter provides ORP two different options to facilitate the Secretary's involvement, which include one (or more) all-day meeting or several two-hour video conferences. Ecology noted that the letter was stamped September 14, 2018, and specifies a date of September 21, 2018 for a response from ORP.

Ecology offered to send ORP a .pdf file of the letter. MSA provided a copy of Ecology's letter to ORP during today's meeting. MSA noted that Ecology's letter was submitted to the Administrative Record today.

3.0 ACQUISITION OF NEW FACILITIES

ORP stated that there were no updates to report, other than this area is covered by the same milestone negotiations that are tied to the System Plan.

4.0 SUPPLEMENTAL TREATMENT AND PART B PERMIT APPLICATIONS

ORP stated that the status is unchanged as the milestone negotiations continue that are tied to the System Plan.

5.0 DIRECT FEED LOW-ACTIVITY WASTE PROJECTS

Low Activity Waste Pretreatment System (LAWPS) Significant Past Accomplishments - ORP noted that the comment about the direction given to WRPS to ramp down the design for the permanent cesium removal capability was in the prior monthly summary report, as well as the current. ORP added that the LAWPS project continues because there are a number of project activities within that system, including the tank-side cesium removal (TSCR).

ORP stated that the 45 percent design review for the LAWPS permanent cesium removal capability was completed the first week of September 2018, and the design media will be shelved but available for a future alternative analysis, which is tentatively planned for 2021. ORP noted that there are a couple of designs available for a permanent cesium removal capability, and by 2021, there should be experience from the TSCR module to contribute to the alternative analysis.

LAWPS Significant Planned Actions in the Next Six Months – ORP noted that today's TPA report states that the 45 percent design review will be done, but it is now complete.

Tank-Side Cesium Removal (TSCR) Significant Past Accomplishments – ORP noted that the subcontract was awarded to AVANTech for design and fabrication of TSCR. ORP reported that

the 30 percent design review of TSCR was completed at the end of August 2018, and comments are being dispositioned by AVANTech this week. ORP has received an early version of some of the dispositions for review.

TSCR Significant Planned Actions in the Next Six Months – ORP stated that 60 percent design review is scheduled for November 16 through December 5, 2018. A preliminary hazards meeting is scheduled next week for a thorough review of the TSCR system, which may result in design changes for the 60 percent design review.

Ecology stated that there are several open questions stemming from the 30 percent design review in terms of the configuration of the unit and the process for incorporating the resin into high level waste. Ecology expressed concern about the ability to incorporate the resin and whether it will be compatible with high level waste. Ecology stated that there are solubility issues with the crystalline silicotitanate (CST) resin and high level waste, and there are other questions that lead to uncertainty about the final configuration of the TSCR unit. ORP responded that there have been studies that CST can be integrated with the glass formers for the High Level Waste (HLW) facility. ORP added that as part of the factory acceptance test for the TSCR unit, a component of the testing will be to demonstrate retrievability of the ion-exchange media. ORP stated that it will be addressing the concerns and issues that Ecology is raising. ORP added that without having a definitive plan in place, those issues are viewed as a weakness of the overall system.

Ecology stated that the configuration of the unit has a blind flange with rings around the top that essentially obstruct anyone from opening up the blind flange, and it appears that the whole top area has to be peeled back to gain access. Ecology added that there are ALARA issues, questions about the retrievability of the resin and feeding it into HLW, and whether the HLW facility is adaptive to receipt of the resin. Ecology stated that from its perspective, there are a fair number of open questions that need to be resolved.

ORP asked for clarification about what it would mean to resolve Ecology's questions. Ecology cited the example of studies indicating that CST is amenable to high level waste glass and information about the ability to retrieve the resin, which Ecology has not seen. Ecology noted that the intent of its questions and concerns is not to denigrate any of the work that ORP has done. ORP acknowledged that Ecology is raising good points, and asked if there are any decisions pending within Ecology, such as permitting, that would be based on obtaining the level of information being discussed today. Ecology responded that the answer to ORP's question was not known at this time since this is the first time the questions have been raised. Ecology added that it considers the issues significant enough that they have been raised to senior management.

ORP reiterated its acknowledgement that Ecology has expressed reasonable concerns. ORP pointed out that while it believes retrieval of the media and incorporation into the high level waste glass stream represents a plausible approach to disposition of the media, a comparable example would be the environmental impact statement and what was anticipated for the cesium and strontium capsules. ORP noted that the cesium and strontium capsules were sequenced to be incorporated into the high level waste stream after the tank waste solids and liquids were dispositioned through the high level waste melter building. ORP stated the presumption that the media from the ion exchange columns would follow the same kind of timing, which represents a disposition path well into the future. ORP added that while it can be speculated as to what the

disposition path will be, there are no definitive answers to what modifications the facility would need.

Ecology expressed the understanding about what ORP was pointing out, and that it was part of the reason for raising its concerns and questions. Ecology stated that ultimately the concern is to not have another orphan waste stream onsite, and there is the concern about the lack of sufficient information. ORP acknowledged Ecology's concerns, and stated that what information is available could be provided to Ecology to further the discussion.

ORP referred to Ecology's past request for an integrated schedule, which is not on the action items list, and noted that there is a version of an integrated schedule which is being reviewed by its lawyer. ORP stated it is anticipated that the integrated schedule could be provided to Ecology in the near future, and the schedule reflects the integration of activities for tank farms and the Waste Treatment Plant (WTP) to begin hot commissioning of the Direct Feed Low Activity Waste (DFLAW) mission. Ecology responded that an integrated schedule would be appreciated as soon as possible. Ecology noted that depending on which schedule is looked at and what the technical discussion is, the schedule float varies from zero days to 40 days or 80 days. Ecology stated that the integrated schedule is needed to understand where permitting and commissioning needs to happen. ORP responded that the integrated schedule reflects all the areas that Ecology is pointing to.

Ecology inquired about the time frame for starting up TSCR and the storage space for the canisters. ORP responded that the projected start of TSCR is the summer of 2021, and the plan is to run at least three to six months prior to when hot commissioning starts for WTP to ensure there is enough stock to support hot commissioning. ORP added that a storage pad is being built to store the spent ion exchange columns as part of the DFLAW upgrades project. ORP noted that another storage pad will be built for the smaller TSCR configuration, and there may be a need for a third storage pad when LAWPS becomes operational. Ecology asked how long the storage pad would be used. ORP responded that there is not a definitive time frame, but it would be for a long period of time.

6.0 242-A EVAPORATOR STATUS

Significant Past Accomplishments - ORP stated that two evaporator campaigns were done in FY 2018. ORP noted that the old spare PB-1 recirculation pump, which had been stored in the loadout room, was relocated to a new tent that has been erected in back of the facility. ORP stated that the spare PB-1 pump will be rebuilt inside the tent, and that will free up the loadout room for any activities that will need to be done for the test bed initiative (TBI). ORP explained that the spare PB-1 pump was an old pump that had failed and had not been repaired, but it had been called a spare pump. A new PB-1 pump will be procured, and whichever pump is completed first (new or rebuilt) will be installed in the facility. ORP stated that there is not a current plan to address the failed PB-1 pump that is still located in the evaporator and will need to be removed when the new or refurbished pump is installed.

Ecology inquired about the tent where the PB-1 pump will be refurbished. ORP responded that a new tent was purchased, and it will be provided with electrical, heat and lighting. The tent will be 26 feet tall to accommodate the PB-1 pump, which is about 12 to 15 feet tall. Ecology stated that the description was not clear about relocating the spare B-1 pump to allow for TBI activities,

and suggested that the text could be more definitive about the activities. ORP agreed that the description could be confusing, and stated that storing the old PB-1 pump in the loadout room would interfere with loading in and out during the TBI activities.

Ecology pointed out that there are two rooms next to the PB-1 pump, and one room is a loading room and one room is the hot equipment loadout room. Ecology added that the loadout room may be a misnomer, and suggested that ORP refer to the permit to ensure the appropriate name is used for each room where equipment is stored.

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

Significant Past Accomplishments - ORP noted that approximately 37,000 gallons were received in LERF Basin 43 during the month of August 2018. ORP reported that as of today, 3 million gallons had been processed. ORP stated that the LERF Basin 42 cover has been installed, and after about two feet of liquid has been added to the basin, the remaining tension on the guy wires will be done to complete the project.

Significant Planned Actions in the Next Six Months – ORP stated that processing out of Basin 43 will continue, and a plant cleanout/outage will be entered for corrective maintenance activities.

8.0 TANK SYSTEM UPDATE

Field Activities

ORP noted that the format was changed in the monthly summary report to reflect field activities, which are then split into waste disturbing and other major field activities.

Significant Past Accomplishments

Waste Disturbing Activities - ORP stated that there were no waste disturbing activities conducted through August 2018.

Major Field Activities – ORP noted several activities that were completed in FY 2018 (see handout).

Significant Planned Actions in the Next Six Months

Waste Disturbing Activities – ORP noted that no waste disturbing activities are currently planned, and if there are any changes, it will be reported next month.

Major Field Activities – Ecology referred to the installation of power to the cross-site transfer line and asked if something was being done with the cross-site transfer line. ORP responded that there is funding to look at the cross-site transfer line to make a determination what will be done. ORP noted that whatever would be done with the cross-site transfer line would occur in FY 2019.

Double-Shell Tank (DST) Integrity

Significant Past Accomplishments - ORP noted that there was a TIEP meeting on August 22-23, 2018. ORP stated that several topics were covered, including action item No. 7 (TF-18-07-02), which was discussed earlier today.

ORP reported that the new primary tank bottom visual inspection tools were deployed in AP-107, and both of the tools made it to the center of the tank, which was considered a success. ORP noted that there is a video that is available to Ecology.

Significant Planned Actions in the Next Six Months - ORP reported that a total of six enhanced annulus visual inspections have now been completed, and the crew is currently working on AW-101.

Secondary Liner Integrity - ORP noted that the investigation and development of nondestructive examination (NDE) methods will be done with the primary tank bottoms, and it will be applicable to the secondary liners as well.

Independent Qualified Registered Professional Engineer Activities (IQRPE)

ORP stated that preparations are under way for the ETF IQRPE, which will occur in FY 2019. ORP noted that the SST structural integrity report has been completed and will be transmitted to Ecology in the near future.

9.0 SINGLE-SHELL TANK INTEGRITY

ORP stated that this topic has been separated out from the Tank System Update due to the associated milestone M-045-91I. ORP added that this milestone will be completed by the end of September 2018, and this section will be rolled into Tank System Update.

10.0 IN-TANK CHARACTERIZATION SUMMARY

Significant Past Accomplishments – ORP stated that four reports have been completed and several reports were released. ORP noted that no sampling was conducted in August 2018. Ecology asked why the A-101 best basis inventory (BBI) was done in August 2018. ORP responded that no sampling was done nor waste added in A-101, and the BBI was updated when decay was flagged by the computer.

11.0 SINGLE-SHELL TANK CLOSURE PROGRAM

ORP noted that none of the milestones on pages 22-23 in today's monthly summary report have changed from last month, and the significant past accomplishments have all been previously reported.

ORP provided the current status of the SX barrier. ORP stated that the south panel was about 95 percent complete when the paver broke down. A work plan is being prepared, due to the location of the paver, to allow access so it can be repaired. ORP noted that there is another paver that is being used to pave the north panel, and the forecast is the paving will be done by the end of next week. When that paving is done, the plan is to follow with paving of the expansion barrier.

Issues – ORP pointed out that a new sentence was added at the end of the two issues. ORP noted that the sentence added to the end of the first issue states “ORP is providing a revision to be included as an appendix to the report,” and it is for the clean closure practicability demonstration. Ecology asked when the clean closure information would be issued. ORP responded that it would follow up internally and then provide a response to Ecology.

ORP stated that the sentence added to the second issue states that “ORP to initiate a meeting for mutual understanding of status.” ORP indicated that following an internal meeting to reach agreement on a resolution, a meeting will be scheduled with Ecology regarding the Tier 1 closure plan SST system.

12.0 SINGLE-SHELL TANK RETRIEVAL PROGRAM

ORP stated that the retrieval data report (RDR) for C-105 is being prepared and should be issued by June 2019.

13.0 TANK OPERATIONS CONTRACT OVERVIEW

ORP stated that base operations (5.1) EVMS data for July 2018 reflected more work was done than planned and it cost less than planned, resulting in both a favorable schedule and cost variance. The favorable schedule variance was due to schedule recovery associated with installation of the ten wide trailer, LERF processing campaigns, and the LERF Basin 42 cover replacement. ORP noted that the Basin 42 cover replacement has been installed, and the final tightening of the top cover is being done. The favorable cost variance was due to efficiencies with field testing chemical cartridges.

ORP noted that there was a positive schedule and cost variance under waste feed delivery/treatment (5.03) for the month of July 2018. The favorable schedule variance was due to recovery of feed delivery scope and design work. ORP noted that glass testing is done on a regular basis with simulants and sometimes with actual waste, and the favorable cost variance was due to efficiencies associated with testing glasses that are intended to be sent to the Integrated Disposal Facility. ORP added that there were some efficiencies associated with the test bed activities.

ORP stated that the LAWPS project work is being done under treat waste (5.05), and there was a transition in the middle of the fiscal year as the design activities were ramped down on the permanent cesium removal capability. ORP noted that the TSCR work has not been reflected in this part of the contract, but starting in FY 2019, it will be reflected as capital dollars are spent on the TSCR effort. ORP stated that the unfavorable schedule variance was due to a delay with the LAWPS geotechnical field work because of a shortage of radiation technicians, but the work will be done and it is not holding up any other activities. The favorable cost variance was due to efficiencies with design activities associated with the permanent cesium removal capability.

CONSENT DECREE MONTHLY SUMMARY REPORT REVIEW

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

The Consent Decree (CD) monthly summary report was not available for today's meeting, and ORP provided a verbal update on the facilities.

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

Action No. 1 (WTP-18-04-01)

This action was closed on 8/16/18, and it will be removed from the action table.

Action No. 2 (WTP-18-05-01)

This action was closed on 8/16/18, and it will be removed from the action table.

Action No. 3 (WTP-18-07-01)

Ecology stated that ORP provided a briefing on the ORR strategy. This action was closed.

Action No. 4 (WTP-18-08-01)

ORP stated that the FY 2019 HLW spend plan is expected to be approved in the near future, and a briefing to Ecology will be scheduled. Ecology suggested waiting until the spend plan is approved, and a technical discussion could be scheduled. ORP asked Ecology about the required approval points for commissioning, and suggested additional text to clarify the action item. Ecology agreed, and stated that ORP is to provide information on specific formal approval required by Ecology towards commissioning for WTP, which would include permit conditions. This action remains open.

2.0 SINGLE-SHELL TANK RETRIEVAL

Significant Past Accomplishments - ORP noted that a copy of the CD report was not available for today's meeting. ORP stated that riser investigations in tanks A-101, A-103, A-106 and A-104 were completed. The investigations were done by conducting a lift test to determine whether the risers were stuck, and they all passed. The A Farm exhauster system will be tied into those four risers.

Ongoing Activities - ORP reported that one of ongoing activities is the riser investigations for tanks AX-101 and AX-103. Lift testing is being done on the thermocouples, and three attempts on AX-103 have shown the thermocouples are stuck. ORP added that lift testing on AX-101 is about 50 percent done, and so far the thermocouples are also stuck.

ORP stated that push sampling boreholes are being installed around A-104 and A-105, and there was a slight delay when the probe became disconnected and fell to the bottom of the borehole and broke into at least two pieces. One of the pieces was pulled out, and efforts are under way to pull out the other piece.

Significant Planned Activities in the Next Month – ORP reported that the 05B pump components will be shipped out, and the remaining pump is still lying at the bottom of the tank where it will remain. ORP stated that hose-in-hose was completed and the C Farm layup activities were also completed. Ecology inquired about the layup activities. ORP responded that it includes minimizing all maintenance and activities associated with the tank farm operations, and everything will be removed that is not needed to allow C Farm to go into a minimum maintenance and inspection mode.

3.0 TANK WASTE RETRIEVAL WORK PLAN (TWRWP) STATUS

There were no updates to report on the TWRWPs.

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

ORP provided a brief overview for the unfavorable schedule variance of approximately \$546,000 and the favorable cost variance of about \$444,000. ORP noted that the chart for this EVMS reporting is on page 27 of the TPA monthly summary report, and the information will be included in the Consent Decree report when it is issued at the end of the month.

5.0 WASTE TREATMENT AND IMMOBILIZATION PLANT PROJECT

ORP stated that the report on the independent evaluation of the U.S. Army Corps of Engineers (USACE) parametric analysis for the Pretreatment (PT) and High Level Waste (HLW) facilities is still in internal management review. ORP noted that a workshop has been scheduled with Ecology senior management on October 4, 2018, to discuss the results of the report and a path forward for PT and HLW.

ORP reported that the key project goals for WTP in FY 2019 are in management review, and the information will be shared with Ecology in October 2018.

ORP referred to the paragraphs in the monthly CD report that provides a description of the earned value management system (EVMS), which had initially been added to the report to explain the cost and schedule variances. ORP suggested that the explanative information could be removed from the CD report, but the monthly cost and schedule variances for each facility would still be included in the report. Ecology agreed that the information on the explanation page could be removed from the CD report.

ORP reported that there was an unfavorable schedule variance of \$3 million for the month of July 2018. ORP stated that incorporation of the (Documented Safety Analysis) DSA changes for the Low Activity Waste (LAW) facility was delayed, and DFLAW construction reported procurement delays with the radioactive liquid drain facility piping. Ecology referred to a report that Bechtel issues, which Ecology receives, and stated that there have been delays noted in the report during the past four or five months with procurement and other activities. Ecology

expressed concern that the continuing delays represent a trend and could have a potential cumulative impact going forward.

ORP acknowledged that there have been delays over time, but pointed out that the report Ecology is referring to is based on the old baseline that is not being followed. ORP added that there are concerns regarding delays in a number of different areas with startup. ORP noted that some of those delays are related to staffing. Ecology asked if ORP was satisfied that the contractor's recovery plans are in order and that schedule can be recovered. ORP responded that Ecology's question was broad in nature, adding that there is a lot of uncertainty with startup and commissioning, but the basic engineering and construction should be able to recover schedule.

ORP stated that one area that is moving towards the critical path is the new procurements resulting from the DSA, and there are procurement delays that could have further impacts. Ecology asked if most of the delays being reported are associated with the changes from the DSA. ORP responded that there is definitely a concern with the DSA changes. ORP noted another impact from the DSA could be from a design change that revises a construction drawing, and construction would be delayed until a safety evaluation is done and DOE approval is received. ORP added that some of the design changes needed were not done when the DSA was approved, although they were accepted as conditional approval, and those design changes will need to be submitted to DOE for approval.

ORP stated that there are discussions with Bechtel about achieving some construction progress in parallel with DOE approval of the design changes. Ecology stated that there are a variety of items that can cause delays. ORP agreed that there are a variety of items. Ecology expressed a primary concern is with permitting and the potential for a modification if an item has not been permitted. ORP agreed with Ecology's concern, adding that there have not been any holdups on the permitting side at the LAW facility, but there are a number of holdups on the DSA side.

ORP returned to the schedule and cost variances, noting that there was a favorable cost variance of \$8.6 million.

6.0 PRETREATMENT FACILITY

ORP stated that technical issue resolution continues to be the main focus in PT, and it is progressing well. ORP reported that the final letter for the erosion/corrosion technical issue (T5) is in concurrence, and all of the parties are in agreement with the resolution. ORP stated that the plan for the changes associated with the structural integrity of the vessels (T7) has been approved. ORP noted that the mixing issue (T4) has been agreed to for the high solids, but the validation method on the calculation associated with the low solids is still in review. ORP indicated that resolution of the low solids aspect of the T4 technical issue is expected by early October 2018. ORP stated that it is anticipated a letter on all the technical issues will be sent to the Defense Nuclear Facilities Safety Board (DNFSB) before December 2018. Ecology clarified that the technical issues are resolved, but not necessarily fully closed. ORP agreed with Ecology, noting that the design changes will need to be done for T4.

Ecology asked if the next steps will be identified for the technical issues that are not completely finished when the letter is sent to the DNFSB. ORP responded that the letter will identify what needs to be done, but due to funding uncertainties, a time frame will not be identified. Ecology

requested a copy of the letter to the DNFSB when it is sent. ORP agreed to provide the letter to Ecology.

ORP provided an update on another letter that Ecology had requested regarding Bechtel's response to ORP's layup option, stating that the letter was designated Official Use Only (OUO), and efforts are under way to remove the OUO so the letter can be provided to Ecology, possibly by next week.

7.0 HIGH-LEVEL WASTE FACILITY

ORP referred to action item No. 4 (WTP-18-08-01) to provide updates on the FY 2019 spend plan for HLW, and stated that the plan has been developed for FY 2019, which will mainly be focused on the early engineering work. ORP stated that engineering work would include incorporation of process calculations and design changes from the PDSA into the system design descriptions. ORP noted that two major activities planned for FY 2019 are completion of the 60 percent design reviews for the RLD system and the melter feed. ORP stated that due to receipt of FY 2018 funding towards the end of the fiscal year, about 50 to 60 million dollars will be carried over into FY 2019, and currently the spend plan is based on that carryover. ORP added that preservation and maintenance will continue in HLW.

ORP stated that another activity will be to determine the key hazards that are still pending from the PDSA and what the path forward will be. ORP noted that hydrogen is one of the hazard issues, and a determination will be needed regarding which systems need to be prioritized to allow a full hazard evaluation to be completed.

8.0 LOW-ACTIVITY WASTE FACILITY

ORP noted that as previously reported, Bechtel met the A-5 milestone for construction completion. ORP stated that several procurements have been awarded that were a result of the DSA. ORP added that another key procurement, which is not part of the DSA, is the melter power supply. Receipt of the melter power supply is expected in October 2018. ORP noted that installation and startup testing of the melter supply is on the critical path. ORP stated that timely procurement of the PDD software/hardware is still an issue, and there are other new procurements that are verging on the critical path.

ORP stated that turnover was accepted for the process control system 2 and the low voltage electrical system 3, and component testing is under way for several systems that have already been turned over. ORP stated that the following systems will be turned over from construction to startup this month: container receipt handling, glass former reagent system, miscellaneous gases, C5V system, and container finishing handling system.

ORP reported on an issue with the instrument air supply piping system that needs to be flushed. ORP explained that when the piping was installed, a plastic film was used to separate the pipes, and some of the plastic remained in the piping that needs to be flushed out. ORP stated that air flushing will not remove the plastic, so water flushing has to be done. ORP noted that the piping is not meant for water, and engineering is evaluating how much water and what amount of pressure can be used before startup testing of the pipes can be done. ORP stated that the pipes will be air dried, which is not an issue. It is anticipated that the flushing will be completed in about two weeks.

9.0 BALANCE OF FACILITIES

ORP noted that construction of the Effluent Management Facility (EMF) is one of the key activities for the overall Direct Feed LAW (DFLAW) completion. Installation of the stainless steel liner plate in the low point drain tank area has been completed for the EMF, and the focus is now on completion of the evaporator feed tank area. In parallel, construction is preparing for a number of equipment lifts to place vessels in the upcoming months. ORP stated that construction is dependent on receipt of equipment from the vendors, which could become a critical path issue. Ecology asked if construction is waiting on any equipment that requires leaving open spaces until the equipment arrives. ORP responded that construction is leaving open spaces while waiting for the arrival of equipment.

ORP stated that placement of the footing for the EMF powerhouse was completed, and noted that receipt of the powerhouse from the vendor is another critical path.

ORP reported that Bechtel received approval of the EMF equipment group 3 permit modification.

10.0 ANALYTICAL LABORATORY

ORP reported that energization was completed for the C3V and CV2 systems. The stack discharge monitoring system, the plant vacuum air system, and the environmental monitoring system were all turned over for startup testing. ORP noted that review of the analytical methods procedure is under way and will continue for several months.