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MEETING NOTES

Annual Meeting Between the U.S. Department of Energy, Office of River Protection (DOE-ORP) and the State of Washington, Department of Ecology (Ecology) to Discuss Interim Measures Completed in Fiscal Year 2018 and Planned for Fiscal Year 2019

MEETING DATE: August 9, 2018

LOCATION: 3100 Port of Benton Blvd, Room 3A

ATTENDEES:

Michael Gerle (WRPS)
Jeff Lyon (Ecology)
Cindy Tabor (WRPS)
Eric Van Mason (WRPS)
Jim Field (WRPS)
Dan Parker (WRPS)

Jan Bovier (DOE-ORP)
Robin Varljen (WRPS)
Maria Skorska (Ecology)
Ryan Childress (WRPS)
Jeremy Johnson (DOE-ORP)
Alex Pappas (WRPS)

PURPOSE OF MEETING: Fulfill Hanford Federal Facility and Consent Order commitment M-045-56, "to meet yearly...for the establishment of additional Agreement interim measures."

The following topics were discussed at the meeting:

- Documentation for Meeting in August rather than July (Item A)
- Status and/or Discussion of Proposed Actions for FY 2018 (Item B)
- FY 2017 Barrier Monitoring Report Briefing (Item C)
- Review Additional Actions identified in FY 2017 Meeting (Item D)
 - Propose new action to setup separate meeting on SST with intrusions
- IMMP Inspections Update (Item E)
- Propose New Actions for FY 2019 (Item F)
- Beta Probe Discussion (Item G)

Details on these topics are provided below.

A. DOCUMENTATION FOR MEETING IN AUGUST RATHER THAN JULY:

Cindy Tabor identified that the email in Attachment A would be used to document schedule conflicts causing this meeting to be held in August rather than July. She also identified that Michael Turner (MSA) additionally has put together and Interagency Management Integration Team (IAMIT) Decision for Glyn Trenchard and Alex Smith to sign regarding this meeting being held in August rather than July.

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B. STATUS AND/OR DISCUSSION OF PROPOSED ACTIONS FOR FY 2018

Cindy Tabor identified that the following actions were proposed in the previous year's meeting:

- FY 2017 Barrier Monitoring Report – T/TY [July 2018]
- Design for Barrier 3 [June 2018]
- Status of SX Barrier Construction [July 2018])

Cindy Tabor identified that the FY 2017 Barrier Monitoring Report was not available as it was going through the Clearance process and that Alex Pappas would provide an electronic copy to Ecology when it was cleared (Refer to Table 1, Action 2018-08-09-01). Jeff Lyon requested that a meeting be scheduled 30 days after Ecology's receipt of the report (Refer to Table 1, Action 2018-08-09-02). Cindy Tabor also identified that Alex Pappas would provide a brief discussion on the report later during this meeting.

Cindy Tabor identified that an update on Barrier 3 (North Panel for TX Farm) was provided during the June 6, 2018 pre-meeting on M-45-56 with Ecology. Dan Parker, Alex Pappas, and Maria Skorska also identified that an additional update was presented just prior to this meeting on August 9, 2018. Alex Pappas indicated that the discussion pertained to the 60% Design Review.

Dan Parker provided the status of the SX Barrier construction. He indicated that asphalt was going to be laid and that work would start in late August on the south side of the farm. Construction was expected to be finished by the end of the FY. It was additionally identified that that signed change package M-45-18-03 for TPA Milestone M-45-92 provided more dates with respect to barriers. Dan Parker took the action to provide Maria Skorska with the change package (Refer to Table 1, Action 2018-08-09-03).

C. FY 2017 BARRIER MONITORING REPORT BRIEFING

Mr. Pappas provide a brief summary of the report on T/TY Barriers and addressed questions:

- Very slight drying continues to occur in the soil underneath the barriers
- Neutron moisture logging indicated a minor moisture increase at single sample depth located at the station on the edge of T-Farm barrier, HDU probes at the same station indicated continuous drying at the edges. The discrepancy is most likely due to the age of the monitoring system.
- A slight increase moisture was observed in probes located outside of the barriers; most likely due to increase in precipitation during 2017.
- The cleared report will be provided in approximately two months and will have more information regarding interpretation of the data.

Maria Skorska noted that drying effectiveness at the edge of a barrier is an assumption used for the current barrier designs and should be closely monitored.

D. REVIEW OF ADDITIONAL ACTIONS IDENTIFIED IN FY 2017

Cindy Tabor indicated that the additional actions discussed in the previous year's meeting were identified as being completed at the June 6, 2018 pre-meeting on M-45-56 with Ecology – with the exception of Action 2017-07-11-06 (Refer to Table 2 In these meeting notes). Action 2017-07-11-06 reflects the need to identify a path forward for the T Farm Barrier. Cindy Tabor indicated that this action is now completed with the issuance of change package M-45-18-03. The approved change package M-45-18-03 for TPA Milestone M-45-92 requires a monitoring and maintenance plan, which will address

this issue and identify the path forward. It was reiterated that Dan Parker would provide Maria Skorska with this change package (Refer to Table 1, Action 2018-08-09-03).

At this time, a new action of setting up a separate meeting on Single-Shell Tanks (SSTs) with intrusion issues was identified. Eric Van Mason indicated that Jared Mathey (Ecology) did an inspection and identified an issue with a catch tank associated with T Plant. Jeremy Johnson indicated that the full list of tanks with intrusion issues is documented in the Hanlon Reports (HNF-EP-0182 – monthly waste tank summary reports). Cindy Tabor indicated that a separate meeting was needed as this issue came up after the June 6, 2018 pre-meeting on M-45-56 with Ecology and there was not enough time in this meeting to fully discuss. Jeremy Johnson asked that discussion of intrusions be added to the meeting that would be scheduled to discuss the FY 2017 Barrier Monitoring Report (Refer to Table 1, Action 2018-08-09-02). Maria Skorska asked for background material on this issue (Refer to Table 1, Action 2018-08-09-04). Jeff Lyon asked that this information also be provided to Jim Alzheimer (Ecology). It was also identified that RPP-9937 (Single-Shell Tank System Leak Detection and Monitoring Functions and Requirements Document) identifies requirements with respect to intrusion issues and M-045-56.

E. IMMP INSPECTIONS UPDATE

Michael Gerle provided information on the Interim Measures Monitoring Plan (IMMP) inspections (i.e., checking berms etc.). He indicated that most of the issues identified during previous inspections (October 20, 2016 and April 17, 2017) were verified as being corrected. The only outstanding issue is infiltration areas beginning to silt up near T Farm and U Farm. They remain effective, but are scheduled for maintenance under a long term corrective action. He identified that access to some portions of the U Farm berm were limited due to access controls in place for the Plutonium Finishing Plant. He identified that the inspection was documented through the WRPS Management Observation Program. Maria Skorska requested a copy of the documentation from this inspection and Michael Gerle indicated that he would provide the cleared information (Refer to Table 1, Action 2018-08-09-05).

F. PROPOSED ACTIONS FOR FY 2019

After discussion, three actions were proposed for FY 2019:

- Provide a briefing on barrier performance (in July 2019 meeting)
- Provide a briefing on the status of Interim Barriers 1 and 2 – SX Farm North and South Barriers, and the Expansion Barrier (in July 2019 meeting)
- Provide a sampling plan and initiate field investigation for T Farm Investigation – around T-102 and T-105 (in July 2019 meeting and by the end of the FY, respectively).

Cindy Tabor identified that during the June 6, 2018 pre-meeting on M-45-56 providing the FY 2018 Barrier Monitoring Report was recommended as a proposed action. Since the pre-meeting, change package M-45-18-03 was approved, which documents that a Maintenance and Performance Monitoring Plan will be submitted when there are new barrier design plans. The first plan will be provided in October 2019 as identified in the change package. In addition, a yearly report will be prepared to summarize the results of maintenance and performance monitoring activities for the previous year along with research completed to evaluate new technologies. Cindy Tabor identified that the information in these yearly reports will be replacing the usual barrier monitoring reports prepared in the past. After this discussion, it was recommended for FY 2019 that a briefing on barrier performance from available data be provided in the annual M-045-56 meeting. Jeff Lyon requested that the briefing be cleared prior to the annual meeting and provided to Ecology at least a week in advance to the meeting. He also asked that the briefing cover the FY 2018 data.

Cindy Tabor identified that during the June 6, 2018 pre-meeting on M-45-56 the second proposed action for FY 2019 was the completion of Interim Barriers 1 and 2 (SX Farm North and South). Dan Parker identified that the milestone for construction completion of these barriers has moved to October 2019 and also mentioned that the construction completion included the SX Expansion Barrier. It was then recommended that the July FY 2019 meeting would include a briefing on the status of Interim Barriers 1 and 2 – SX Farm North and South Barriers, and the Expansion Barrier.

Another proposed action for FY 2019 was associated with a field investigation. Cindy Tabor identified that it would be good to collect data at T Farm or U Farm. She recommended that work in FY 2019 be initiated in T Farm to investigate the cesium peak of 80,000 pCi/g at ~40 feet in the area between T-102 and T-105. There was no disagreement. She indicated that a sampling plan could be developed for this investigation and that she would get with Mike Barnes to begin discussions on the criteria for the plan (Refer to Table 1, Action 2018-08-09-06). She also indicated that part of the proposed action would be to initiate this work in FY 2019.

G. BETA PROBE DISCUSSION

Cindy Tabor provided text from the last time the beta probe was discussed at a M-045-56 annual meeting, July 20, 2016: “During these discussions, Maria Skorska also brought up the beta probe with respect to future field work. It was identified that in the future, when field work is proposed, the beta probe technology needs to be re-evaluated.” Maria Skorska identified that it would be good for DOE-ORP, Jan Bovier and Jeremy Johnson, to review information on the beta probe, especially the work done by Idaho National Engineering Laboratory, INEL, under a contract with DOE/WRPS about 8 years ago. Cindy Tabor took the action to find information previously pulled together on the beta probe and provide to DOE-ORP (Refer to Table 1, Action 2018-08-09-07). Dan Parker reported that the beta probe assembled by Atkins (previously Energy Solutions) was now disassembled and no longer available.

Table 1: Additional Action Items Identified in FY 2018 Meeting				
Action Number	Responsible	Description	Status	Notes
2018-08-09-01	Alex Pappas	Provide an electronic copy of the FY 2017 Barrier Monitoring Report to Ecology (Skorska)	Requested in this meeting	NA
2018-08-09-02	Cindy Tabor	Schedule a meeting with Ecology – 30 days after receipt of report identified in Action 2018-08-09-01 (to discuss the subject matter report, and a path forward proposed by DOE to resolve the intrusion issue with a catch tank associated with T Plant, as identified in an inspection by Jared Mathey, Ecology, in reference to RPP-9937).	Requested in this meeting	NA

Table 1: Additional Action Items Identified In FY 2018 Meeting				
Action Number	Responsible	Description	Status	Notes
2018-08-09-03	Dan Parker	Provide change package M-45-18-03 to Ecology (Skorska)	Requested in this meeting	NA
2018-08-09-04	Eric Van Mason	Provide background material on Intrusion Issues to Ecology (Skorska and Alzheimer)	Requested in this meeting	NA
2018-08-09-05	Michael Gerle	Provide a copy of the IMMP inspection information to Ecology (Skorska)	Requested in this meeting	NA
2018-08-09-06	Cindy Tabor	Set up a meeting on T Farm Investigation with Ecology (Barnes)	Requested in this meeting	NA
2018-08-09-07	Cindy Tabor	Find information previously pulled together on the beta probe, especially the work done by Idaho National Engineering Laboratory, INEL, under a contract with DOE/WRPS about 8 years ago and provide to DOE-ORP.	Requested in this meeting	NA

NA = Not applicable

Table 2: Additional Action Items Identified In FY 2017 Meeting				
Action Number	Responsible	Description	Status	Notes
2017-07-11-01	Pappas	Provide to Ecology (Skorska) - on CD - the FY 2016 Barrier Monitoring Report for T/TY.	Completed July 20, 2017	NA
2017-07-11-02	Gerle	By the end of July 2017, provide to Ecology (Skorska) the Interim Measure Monitoring Plan October 20, 2017, and April 17, 2017, assessment information.	Completed July 20, 2017	NA
2017-07-11-03	Bovier	Set up a meeting with Ecology to discuss locations of Barriers 3, 4 and subsequent Barriers.	Completed August 22, 2017	Following preliminary discussions between ORP (Bovier) and Ecology (Lyon), the meeting took place on 22 August 2017.

Table 2: Additional Action Items Identified in FY 2017 Meeting				
Action Number	Responsible	Description	Status	Notes
2017-07-11-04	Bovier	Present the language for Barrier objectives in the meeting associated with Action 2017-07-11-03.	Completed August 22, 2017	Discussion concerning the changed purpose for interim surface barriers took place during the 22 August 2017 meeting and the revised purpose for barriers is being addressed through the design for Barrier 3 at TX Tank Farm.
2017-07-11-05	Skorska	Coordinate with Ecology to reach agreement on the next Barrier locations and the objectives for Barriers.	Completed August 22, 2017	NA
2017-07-11-06	Bovier	Provide follow-up information to Ecology on the path forward for T-Farm Barrier.	Completed August 9, 2018	The approved change package M-45-18-03 for TPA Milestone M-45-92 requires a monitoring and maintenance plan, which will address this issue and identify the path forward (Refer to Table 1, Action 2018-08-09-03).
2017-07-11-07	Hamilton	Provide a copy of the information regarding TY Farm subsidence that are being provided to Jared Mathey (Ecology) - to Skorska (Ecology). (incorrectly documented in last year's notes as T Farm subsidence)	Completed July 12, 2017	NA
2017-07-11-08	Parker	Set up a meeting with Ecology to discuss and reach agreement on SX Barrier North design change.	Completed September 5, 2017	Meetings were held to reach technical agreement on the SX Barrier North design changes. The Ecology PM provided his agreement regarding the design changes to the ORP PM via email on 5 September 2017.
2017-07-11-09	Skorska	Coordinate with Ecology to reach agreement on the need to modify M-045-56 language.	Completed May 10, 2018	Revised language was submitted to DOE for their review on 10 May 2018.

NA = Not applicable

JAN B BOVIER
DOE Project Manager (print)

[Signature]
Ecology Project Manager (print)

[Signature]
DOE Project Manager (signature)

Jeffery J. Lyon
Ecology Project Manager (signature)

10/2/18
Date

10/23/18
Date

Attachment A



Wed 6/6/2018 5:05 PM

Adams, Andrea (ECY) <aada461@ecy.wa.gov>

Rescheduling the M-45-56 Meeting

To: ■ Tabor, Cynthia L

Cc: ■ Bovier, Jan B; ■ Skoroka, Marie; ■ Lyon, Jeffery

📧 You forwarded this message on 7/17/2018 3:18 AM.

Good afternoon Cynthia,

Due to schedule conflicts in July, Ecology proposes to hold the yearly M-45-56 in August. Would any of the dates below work for you guys?

8/9 – Afternoon

8/21 – Morning

8/23 – Afternoon

8/30 – Late morning

Thank,

Andrea Adams

Cleanup Section Secretary

Washington State Department of Ecology

Nuclear Waste Program

(509) 372-7953