

## Meeting Notes

### Annual Meeting Between the U.S. Department of Energy, Office of River Protection (ORP) and the State of Washington, Department of Ecology (Ecology) to Discuss Interim Measures Completed in Fiscal Year 2011 and Planned for Fiscal Year 2012

Meeting Date: July 13, 2011, 1:00 pm  
 Location: Department of Ecology

Purpose: Fulfill Hanford Federal Facility and Consent Order commitment M-45-56, "to meet yearly...for the establishment of Additional Agreement Interim Measures."

Attendees: Jeff Lyon (Ecology), Mike Barnes (Ecology), Bob Lober (ORP), Susan Eberlein (Washington River Protection Solutions – WRPS), Jeff Luke (WRPS)

The meeting was held on July 13, 2011, to discuss interim measures completed in the past year, assess the adequacy of that information for the yearly milestone, and plan interim measures for the coming year, completing the annual requirements for M-45-56.

The following topics were discussed:

#### Actions Completed in FY2011:

1. Complete additional characterization in support of future barriers.
  - a. Resistivity studies in S farm southeast/SX farm northeast were completed and reported in RPP-RPT-47851, *Three-Dimensional Surface Geophysical Exploration of S/SX Tank Farm*.
  - b. Direct push work in BY farm west and east was completed in accordance with RPP-PLAN-46652, *Field Sampling and Analysis Plan for Soil Samples in Support of an Interim Barrier at BY Farm (Western Side)* and RPP-PLAN-48107, *Field Sampling and Analysis Plan for Soil Samples in Support of an Interim Barrier at BY Farm (Eastern Side)*.
  - c. Resistivity studies in BY farm west were completed and reported in RPP-RPT-49129, *Three-Dimensional Surface Geophysical Exploration of the BY Tank Farm*.
  - d. Direct push work in S farm is currently underway in accordance with RPP-PLAN-49132, *Field Sampling and Analysis Plan for Soil Samples in Support of an Interim Barrier at S Farm*.
  - e. Resistivity studies in BY farm east are underway. Field data has been collected, and data analysis and reporting will be completed in FY2012.

It was agreed that the actions listed above fulfilled the FY2011 commitment to, "complete additional characterization in support of future barriers." Characterization for interim barriers will continue and will be discussed as necessary.

2. Additional evaluations of barrier effectiveness.  
 Ongoing evaluations of barrier effectiveness for the interim surface barriers at T farm and TY farm were reported in PNNL-20144, *T-TY Tank Farm Interim*

*Surface Barrier Demonstration—Vadose Zone Monitoring FY10 Report.* In addition, RPP-RPT-47123, *Interim Surface Barrier Evaluation Report*, was previously provided to evaluate potential future depth impact of interim surface barriers.

It was agreed that the actions discussed above fulfilled the FY2011 commitment to address, "additional evaluations of barrier effectiveness." Further monitoring of barrier performance is required, and data from the monitoring reports, as well as any additional relevant information will require yearly discussions as determined by ORP and Ecology.

3. Support for December 31 decision on future barriers (proposed M-45-92 action). A barrier decision meeting was held on December 7, 2010. The notes and agreements from the meeting were documented and submitted to the Administrative Record in completion of the December 31 decision required by M-45-92.
4. Perform additional leak loss assessments and evaluate applicability to future interim measures.  
Leak loss assessments have continued in accordance with the process established among Ecology, ORP and WRPS. Attachment 1 shows the status of completed, ongoing, and planned leak loss assessments.

It was agreed that the actions discussed above fulfilled the FY2011 commitment to, "Perform additional leak loss assessments and evaluate applicability to future interim measures."

5. Evaluate interim action for A-350 catch tank.  
Possible interim actions for the A-350 catch tank were discussed as part of the regularly scheduled closure planning meetings. During 2011, liquid was removed from A-350 and actions taken to assure isolation of the tank. No additional actions were identified to be taken until such time as it was assured that isolation was effective. It was recommended that the potential for future interim actions, including definition of a path to interim closure, continue to be evaluated.

It was agreed that the actions discussed above fulfilled the FY2011 commitment to, "evaluate interim action for A-350 catch tank."

One additional action had been proposed in the 2010 M-45-56 meeting: "Catch tanks: Upon completion of proposed new M-45-101 milestone, Ecology, ORP and WRPS will meet to determine if future interim actions on catch tanks or ancillary equipment are warranted." Comment resolution for the M-45-101 milestone deliverable is ongoing. It was agreed that further discussion of comment resolution would take place in context of that milestone rather than the M-45-56 milestone.

#### **Actions Ongoing in FY2011:**

1. Continue additional leak loss assessments and evaluate applicability to future interim measures.

Attachment 1 shows the status of completed, ongoing, and planned leak loss assessments.

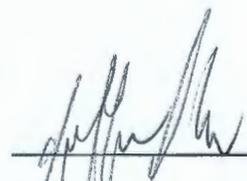
**Actions Proposed for FY2012:**

1. Perform surface geophysical exploration (SGE) in U farm in support of potential future barrier. Per discussions held on January 13, 2011 and February 2, 2011 (documented in those meeting notes and entered into the Administrative Record), SGE will be performed in U farm employing previously placed deep electrodes. Ecology will be invited to participate in the planning for the SGE campaign. Emerging information from leak loss evaluations and other sources will be employed in the planning.
2. Perform direct push characterization in TX farm in support of potential future barriers. Per discussions held on January 13, 2011 and February 2, 2011 (documented in those meeting notes and entered into the Administrative Record), direct push characterization will be performed in TX Farm. Ecology will be invited to review the field sampling and analysis plan for this direct push campaign. Emerging information from leak loss evaluations and other sources will be employed in the planning.
3. Perform additional leak loss assessments and evaluate applicability to future interim measures. Leak loss assessments will continue in accordance with the process established among Ecology, ORP and WRPS. Attachment 1 shows the currently planned leak loss assessments. Plans may be changed as new information becomes available.
4. Evaluate and plan for technetium removal field test, targeted for SX farm. A field test plan for technetium removal in SX farm will be developed. Existing boreholes will be evaluated to determine which boreholes would be good candidates for extension in support of the field test.
5. Continue to evaluate interim action for the A-350 Catch Tank. In context of closure planning meetings, continue to evaluate a potential path for interim action for the A-350 Catch Tank. Consider what type of documentation is needed for an interim closure action, and how the action is related to permit modification and final closure.

It was noted that the proposed actions are included in the current baseline plan for fiscal year 2012. It was noted that the plan for fiscal year 2012 had not yet been finalized, pending budget guidance and thus may change.

Concurrence:

  
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R. W. Lober, ORP                      8/31/11  
Date

  
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J. V. Lyon, Ecology                      8/31/11  
Date