Single-Shell Tank 241-C-101 Leak Evaluation Meeting Summary

October 7, 2010

Attendees:

Nancy Uziemblo (Ecology)	Dennis Washenfelder (WRPS)
Joe Caggiano (Ecology)	Don Harlow (WRPS)
Mike Barnes (Ecology)	Jim Field (WRPS)
Jeff Lyon (Ecology)	Blaine Barton (WRPS)
Bob Lober (ORP)	Les Fort (WRPS)
Jeremy Johnson (ORP)	Jeff Luke (WRPS)

Representatives of the Washington State Department of Ecology (Ecology), the U.S. Department of Energy, Office of River Protection (ORP), and Washington River Protection Solutions, LLC (WRPS), met to discuss the current understanding of the factors associated with the leak status of tank 241-C-101 (C-101). Attached is a copy of a presentation (*Tank C-101 Preliminary Leak Evaluation & Conclusions*) given by Mr. Washenfelder that constituted the focus of the meeting.

Mr. Washenfelder began by saying that the data and information being presented was not new and that the purpose of the presentation was not to support a re-classification of the leak status of tank C-101. Rather, the purpose of reviewing the data was to determine whether the existing data provides any indication tank C-101 might be a candidate for retrieval using Modified Sluicing rather than the designated Mobile Arm Retrieval System (MARS).

Discussed during the presentation were the tank C-101 historic liquid level loss data and dry well monitoring data.

Mr. Barnes (Ecology) noted there is little Tc-99 in tank C-101. It was discussed, and agreed, that the majority of the Tc-99 waste inventory will come primarily from the DST supernate that will be used to mobilize the C-101 waste during retrieval, whether by Modified Sluicing or the MARS.

Concluded, as part of the presentation, was that, in light of the data presented, tank C-101 appears to be a candidate for Modified Sluicing if the liquid level in the tank is maintained below ~54 inches during retrieval operations . (The current waste level is ~40 inches.)

S-24

Discussion then followed regarding the need for dry well logging beyond that which is currently being conducted, and High Resolution Resistivity monitoring if tank C-101were to be retrieved using Modified Sluicing.

Mr. Barton was then asked, by Ecology, what the time-line was for making a decision regarding selection of the retrieval technology system for C-101. Mr. Barton explained that if the requirement is to retrieve tank C-101 using the MARS, design work would need to be initiated within the next two weeks (because of the need to cut a 52 inch riser). If, however, ORP/WRPS were permitted to retrieve tank C-101using Modified Sluicing, considerably less lead time would be required because the need to cut a new large riser is not incumbent upon the project.

It was agreed during this meeting that a documented summary would be signed by Ecology and ORP and entered in the next Hanford Federal Facility Agreement and Consent Order Project Managers' Monthly Meeting. Following are the items agreed to:

A revision to RPP-22520, "*241-C-101 and 241-C105 Tanks Waste Retrieval Work Plan",* will be made to accommodate modified sluicing of tank C-101 contingent upon the following:

a. Two direct push hole pairs will be installed near tank C-101. These holes will be logged and sampled as specified in the WMA-C work plan (RPP-PLAN-39114). One of the direct push holes will be installed near the spare inlets.

   Additional direct push holes will be drilled as needed for complete HRR coverage during retrieval. Gamma and neutron logging will be performed and an electrode string will be placed in these holes. The electrodes will be placed to an approximate depth of 80 ft, near the high moisture zone in this area. Additional pushes for sampling near the HRR system holes will be contingent on logging results and determined jointly by ORP and Ecology.

b. The liquid level in tank C-101 will be limited to below ~54 inches in total waste depth during all retrieval activities.

CJK for R.W. Lober 12-28-10

R. W. Lober, ORP

12-28-10

J. J. Lyon, Ecology

CJK 12-28-10

C. J. Kemp, ORP