September 14, 2009

MEETING REPORT

DATE: Thursday, August 27, 2009

TIME: 1pm to 5pm

PLACE: U.S. Nuclear Regulatory Commission
Twinbrook Building
Room: 5 E1
12300 Twinbrook Parkway
Rockville, MD 20852

PURPOSE: To discuss the Army's progress in completing site characterization and plans for upcoming work at the Jefferson Proving Ground (JPG) - Depleted Uranium Impact Area.

ATTENDEES: See Enclosure 1

BACKGROUND:

As noted in the April 26, 2006 letter regarding License Amendment 13 of License SUB-1435 [ADAMS ML053320014], the U.S. Nuclear Regulatory Commission (NRC) and U.S. Army periodically hold meetings at the NRC Headquarters, open to the public, to discuss the Army's progress in completing site characterization and in developing a new decommissioning plan for the Jefferson Proving Ground (JPG). The August 27, 2009, meeting focused on the progress in characterizing the site such as penetrator corrosion study, partition coefficient study, environmental media sampling, and hydrogeologic studies. In addition, the Army discussed plans for upcoming work.

DISCUSSION:

The Army and their contractor Science Applications International Corporation presented preliminary: 1) sampling results for groundwater, surface water and sediments collected over four quarters for the period April 2008 thru February 2009; 2) soil data collected beneath and above penetrators which were compared to background samples representative of soil types across the site; 3) results of the two stream flow gain/loss surveys; and 4) slug test data to determine hydraulic conductivity of the aquifers at varied depths. In addition, the U.S. Geological Survey (USGS) presented their preliminary findings of the groundwater age estimate study and flowmeter measurements of groundwater flow pathways pertinent to the JPG depleted uranium impact area.

The combined presentation was in the form of 75 slides (See JPG – Status Briefing - Enclosure 2). The NRC staff and the Army discussed issues relevant to the preliminary data presented

and the proposed upcoming work. The results of this discussion are the basis for the following action items.

ACTION:

The NRC staff and the Army agreed that the following action items would be completed.

1. NRC's project manager will coordinate a teleconference call within the next few weeks with the Army, to discuss the need for sampling the till, given that only loess (i.e. soil) samples have been collected for the uranium partition coefficient study.

2. The Army will notify the NRC within the next few weeks as to whether a second public notice meeting will be necessary in October 2009.

3. The Army will begin initial model runs in Fall/Winter-2009 for the fate and transport model and the radiation dose model. Based on these preliminary model runs the Army will review the need to collect additional site characterization data and will propose their findings to the NRC.

4. Both the NRC and the Army agreed to exchange the names and contact information for personnel who will be periodically engaged in technical discussions with the Army's contractors, during the initial model runs. NRC's project manager will provide the pertinent information to the Army within the next week.

5. The Army will continue to conduct baseline performance monitoring in accordance with the existing Environmental Radiation Monitoring Program - Standard Operating Procedure dated March 10, 2000.

6. The Army will propose revisions to the existing Environmental Radiation Monitoring Program Plan – Standard Operating Procedure in 2010, based on the site characterization collected to date (e.g. surface water/sediment sampling, stream flow gain loss run surveys, groundwater sampling, slug tests, corrosion study, leachability tests, partition coefficient study) which will be correlated to groundwater age dating and groundwater flowmeter results.

7. Early 2010, the Army will provide the NRC with the Groundwater Age Dating Summary Report and Flowmeter Groundwater Flow Direction Report for review.

8. The Army will submit the Aquifer Hydraulic Conductivity Report as soon as it is finalized. The NRC recommended that the report include a discussion on the rationale for selecting slug tests versus that of a pump test.

9. The Army will also follow-up on two of NRC's comments concerning; i) hydrologic and, or agricultural drought conditions potentially impacting any of the surface water and groundwater studies conducted to date (e.g. gain /loss survey); and, ii) if there is any statistical evidence as to why soil types have varied uranium concentrations. The Army's response to these comments will be included in upcoming reports to be submitted to the NRC.

Docket No.: 040-08838
License No.: SUB-1435

Enclosures:
1. Meeting Attendees & Teleconference Participants
2. JPG Status - Briefing Slides

cc: Jefferson Proving Ground Distribution List

9. The Army will also follow-up on two of NRC's comments concerning; i) hydrologic and, or agricultural drought conditions potentially impacting any of the surface water and groundwater studies conducted to date (e.g. gain /loss survey); and, ii) if there is any statistical evidence as to why soil types have varied uranium concentrations. The Army's response to these comments will be included in upcoming reports to be submitted to the NRC.

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MEETING ATTENDEES & TELECONFERENCE PARTICIPANTS

Topic: Meeting to Discuss Site Characterization Progress and Plans for Upcoming Work at the Jefferson Proving Ground Depleted Uranium Impact Area Site

Date: Thursday, August 27, 2009, 1 PM – 5 PM

NAME	AFFILIATION	TELEPHONE NUMBER
Meeting Attendees		
Yolande Norman	U.S. Nuclear Regulatory Commission (NRC)	301-415-7741
Lifeng Guo	NRC	301-415-7962
Karen Pinkston	NRC	301-415-3650
Teresa Mixon	NRC	301-415-8008
Varughese Kurian	NRC	301-415-7426
Paul Cloud	U.S. Army	410-436-2381
Paul M. Buszka	U.S. Geological Survey	317-290-3333 (ext. 179)
Joseph N. Skibinski	Science Applications International Corporation (SAIC)	703-375-2074
Dennis R. Chambers	SAIC	314-770-3068
Tad Fox	SAIC	330-405-5820
Teleconference Participants		
Steve Snyder	SAIC	717-901-8840
Michael Barta	SAIC	901-722-5504
Barry Stevenson	MCL Inc.	865-576-4138
Greg Wagner	MCL Inc.	865-576-5632

JPG Status - Briefing Slides

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Enclosure 2