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EP2013-5006

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

December 28, 2012

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Jeffrey D. Mousseau  
Associate Director  
Environmental Programs  
Los Alamos National Security, L.L.C.  
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**RE: DIRECTION TO MODIFY  
SUPPLEMENTAL REMEDY COMPLETION REPORT FOR UPPER LOS  
ALAMOS CANYON AGGREGATE AREA, FORMER TECHNICAL AREA 32  
EPA ID #NM0890010515  
HWB-LANL-12-073**

Dear Messrs. Maggiore and Mousseau:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Supplemental Remedy Completion Report for Upper Los Alamos Canyon Aggregate Area, Former Technical Area 32*, dated December 2012 and referenced by LA-UR-12-27053/EP2012-0306 (Report). The Report presents supplemental information for solid waste management units (SWMUs) 32-002(a) and 32-002(b1) and recommends corrective action complete with controls for these SWMUs. NMED concurs that SWMU 32-002(b1) qualifies for a corrective action complete (CoC) with controls determination but requires additional information for SWMU 32-002(a) before the site status can be determined. NMED provides the following direction and comments related to the Report.

**Direction:**

The Permittees generally conduct risk screening evaluations based on the anticipated future land use. However, for SWMUs 32-002(a) and 32-002(b1), the risk screening was conducted only for the industrial worker scenario. The construction worker scenario was not evaluated. Although, the results of risk screening assessments presented in the Report for SWMUs 32-002(a) and 32-002(b1) indicate that the sites would qualify for corrective action complete with controls under an industrial scenario, the risk screening evaluation is not complete because the construction worker evaluation was not included in the Report.

To assist Los Alamos County (LAC) with the commercial development of the site, SWMU 32-002(b) was split into two SWMUs (i.e., SWMUs 32-002(b1) located on LAC property and 32-002(b2) located on DOE Property); NMED approved the split on December 20, 2012 through a permit modification. The *Remedy Completion Report for Upper Los Alamos Canyon Aggregate Area, Former Technical Area 32, Revision 1*, dated February 2011 included risk screening assessments for the recreational and construction worker scenarios for SWMU 32-002(b) that indicated that the site did not pose an unacceptable risk under these scenarios. Since 32-002(b1) is a portion of SWMU 32-002(b), it is appropriate to assume that SWMU 32-002(b1) still does not pose an unacceptable risk under the recreational and construction worker scenarios.

However, the *Remedy Completion Report for Upper Los Alamos Canyon Aggregate Area, Former Technical Area 32, Revision 1*, dated February 2011 did not include risk screening evaluations for SWMU 32-002(a) because investigations were considered to be incomplete. Therefore, NMED cannot determine if the site poses any risk under the construction worker scenario. The Permittees must conduct a risk screening evaluation for the construction worker scenario for SWMU 32-002(a).

**NMED Comments:**

**1. Section 1.0, Introduction, page 1:**

**Permittees' Statement:** "Information on radioactive materials and radionuclides, including the results of sampling and analysis of radioactive constituents, is voluntarily levels (SALs) for radionuclide COPCs were derive"

**NMED Comment:**

This statement, at the very end of the section, is incomplete. NMED assumes that the above statement was meant to convey that the information on radioactive materials and radionuclides is voluntarily provided to NMED.

2. **Table F-3.3-1, EPCs at SWMU 32-002(a) for the Industrial Scenario, pages F-30 to F-31:**

Several discrepancies were noted in the Table F-3.3-1 and Table 4.1-3, e.g., the reported value for heptachlorodibenzofuran [1,2,3,4,6,7,8-] (at 1.68E-06 mg/kg) and heptachlorodibenzofuran [1,2,3,4,7,8,9-] (at 4.28E-05 mg/kg) appears to be interchanged. Similarly values for methylene chloride appears to be switched with octachlorodibenzodioxin [1,2,3,4,6,7,8,9-]. However, the correct values were used in Table F-3.3-4, Dioxin/Furan TEF Calculations for the Industrial Scenario at SWMU 32-002(a) (0-1 ft), so the risk screening results were not affected by these inconsistencies. No revisions to the Report are required.

3. **Table F-3.3-1, EPCs at SWMU 32-002(a) for the Industrial Scenario, page F-30:**

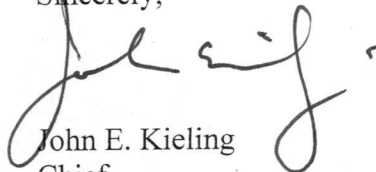
The exposure point concentration (EPC) value reported for perchlorate is incorrect; the correct value is 0.0036 mg/kg instead of 0.036 mg/kg, as reported. However, the correct value of 0.0036 mg/kg was used in Table F-4.2-2 to calculate noncarcinogenic screening evaluation under the industrial scenario, hence the conclusions of the Report are not affected by this error and no revision is required.

4. **Table F-4.2-1, Industrial Carcinogenic Screening for SWMU 32-002(a), page F-41:**

The Permittees used an incorrect value of 0.00018 mg/kg as an EPC for methylene chloride; the correct value is 0.0077 mg/kg. Using the value of 0.0077 mg/kg, the corresponding cancer risk would be at 1.64E-11 and would not affect the conclusions of the risk assessment. No revisions to the Report are needed.

Please contact Neelam Dhawan at (505) 476-6042, if you have any questions.

Sincerely,



John E. Kieling  
Chief  
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB  
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File: 2012 LANL, DTM for Suppl RCR for ULACAA, TA-32 sites (LANL 12-073)

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