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LA-UR: 15-29562  
Locates Action No.: N/A

Ms. Michelle Hunter, Chief  
Ground Water Quality Bureau  
New Mexico Environment Department  
Harold Runnels Building, Room N2261  
1190 St. Francis Drive  
P.O. Box 26110  
Santa Fe, NM 87502

Dear Ms. Hunter:

**Subject: Filing of 60% Design Plans and Specifications, Radioactive Liquid Waste Treatment Facility Upgrade—Transuranic Liquid Waste Project, DP-1132**

In accordance with Section 20.6.2.1202 of the New Mexico Administrative Code, *Filing of Plans and Specifications—Sewerage Systems*, the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) are submitting the 60% design plans and specifications (Enclosure 1—CD) for the Radioactive Liquid Waste Treatment Facility Upgrade—Transuranic Liquid Waste (RLWTF-TLW) Project at Technical Area (TA)-50. This submittal also provides supplemental information to discharge permit application DP-1132 submitted by DOE/LANS on February 16, 2012.

The RLWTF-TLW Project scope is to replace the existing Room 60 transuranic liquid waste (TLW) treatment capability at Los Alamos National Laboratory. This project is a “like-for-like” replacement of the capability currently provided within the existing RLWTF. The TLW process is comprised of the following three primary systems;

- Transuranic (TRU) Waste Influent Storage System,
- TRU Waste Treatment System, and
- TRU Secondary Waste treatment and Packaging System.

The TRU Waste Influent Storage System receives approximately 29,000 liters per year of TRU acid and caustic waste in approximately 400 liter batches of either acid or caustic liquid waste. It then transfers the waste to the TRU Waste Treatment System for treatment to remove radionuclides.



The TLW Waste Treatment System receives TRU waste from the TRU Waste Influent Storage System and provides primary treatment for removal of radioactive components. Treated water (product water) from TLW Waste Treatment System is transferred to the headworks of the Low-Level Waste Treatment System (LLW). The TRU Waste Treatment System also transfers the resulting secondary waste to the TRU Secondary Waste Treatment and Packaging System for secondary treatment and packaging for disposal. The TRU Secondary Waste Treatment and Packaging System collects, dewateres, and packages solids received from the tanks and equipment skids associated with the TRU Waste Treatment System. The RLWTF-TLW Project will be located at TA-50. The facility will consist of a single building.

The 90% design plans and specifications will be submitted to the NMED in April 2016. Current plans call for construction to commence in late 2017, and be completed in late 2020.

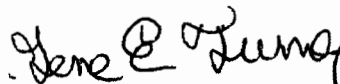
Please contact Robert S. Beers by telephone at (505) 667-7969 or by email at [bbeers@lanl.gov](mailto:bbeers@lanl.gov) if you have questions regarding these plans and specifications.

Sincerely,



Alison M. Dorries  
Division Leader  
Environmental Protection Division  
Los Alamos National Security, LLC

Sincerely,



Gene E. Turner  
Environmental Permitting Manager  
National Security Missions  
Los Alamos Field Office  
U.S. Department of Energy

AMD:GET:MTS:RSB/lm

Enclosure:

1. Compact Disc (CD) containing the 60% Design Plans and Specifications, Radioactive Liquid Waste Treatment Facility Upgrade—Transuranic Liquid Waste Project

Cy: James Hogan, NMED/SWQB, Santa Fe, NM, (E-File)  
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Ms. Michelle Hunter  
ENV-DO-15-0359

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