



ESHID-602329

Environmental Compliance Programs
Los Alamos National Laboratory
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Los Alamos, NM 87545
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Date: **APR 24 2017**
Symbol: EPC-DO: 17-174
LA-UR: 17-23371
Locates Action No.: N/A

Mr. John E. Kieling
Hazardous Waste Bureau
New Mexico Environment Department
Santa Fe, NM 87505

Subject: Stabilization of Substance at TA-55, Los Alamos National Laboratory

Dear Mr. Kieling:

On April 19, 2017, Los Alamos National Security, LLC, (LANS), in coordination with the Department of Energy (DOE), requested approval from the New Mexico Environment Department Hazardous Waste Bureau (NMED-HWB) to treat an unstable lanthanum nickel substance at Technical Area (TA) 55 by stabilization. On April 19, 2017, the NMED-HWB granted verbal approval to conduct treatment by stabilization. On April 20, 2017, the NMED-HWB provided follow-up written authorization for the treatment, *Emergency Permit # 17-003*.

A container with less than 500 grams of unstable lanthanum nickel was identified at TA-55, Building 4, Room 113 during routine housekeeping practices. The unstable lanthanum nickel was deemed an imminent and substantial endangerment to human health or the environment by LANL Emergency Response personnel and was treated by stabilization within Room 113 in accordance with 40 CFR 270.1(c)(3). Emergency Response personnel determined the safest path forward to be on-site emergency treatment using Type S Lime, which consists of calcium oxide, calcium carbonate, and calcium hydroxide to stabilize the unstable lanthanum nickel. The stabilization was completed on April 21, 2017 at 3:35pm, in a controlled and safe manner. The lanthanum nickel was placed into a container and mixed thoroughly with Type S Lime. Emergency Response verified that the lanthanum nickel was stabilized during the treatment process. All remaining waste was collected and placed within a waste storage container for proper characterization and storage in accordance with state and federal waste management regulations.

Please contact Mark P. Haagenstad of the Environmental Compliance Programs (EPC-CP) at (505) 665-2014 if you have questions or need additional information.

Sincerely,



Anthony R. Grieggs
Group Leader
Compliance Programs Group
Los Alamos National Security, LLC

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Mr. John E. Kieling

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