

Waste Management Programs Group

PO Box 1663, MS M969
Los Alamos, NM 87545
(505) 667-8160

Symbol: EPC-DO: 19-166

LA-UR: LA-UR-19-24727

Date:

MAY 22 2019

Mr. John E. Kieling
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Destruction of Unstable Containers at TA-35-85, Los Alamos National Laboratory

Dear Mr. Kieling:

On May 21, 2019, Triad National Security, LLC (Triad), in coordination with the Department of Energy (DOE), requested approval from the New Mexico Environment Department Hazardous Waste Bureau (NMED-HWB) to treat ten containers of unstable hazardous waste chemicals at Technical Area (TA) 35 by emergency detonation. On May 21, 2019, the NMED-HWB provided written authorization for the treatment, *Emergency Permit # 19-002*.

During an inventory on May 20, 2019, the following containers were identified in a flammable cabinet at TA-35, Building 85:

- The unstable chemical Phenylmagnesium bromide Solution (100 ml container)
- The unstable chemical Lithium Aluminum Deuteride (100 ml container)
- The unstable chemical Lithium tri-tert-butoxy-aluminum hydride (100 ml container)
- The unstable chemical Lithium aluminum hydride (tetrahydrofuran) (100 ml container)
- The unstable chemical Methylmagnesium Iodide Solution (100 ml container)
- Two containers of Sodium Borohydride Solution (100 ml containers)
- Lithium 9-BBN Hydride Solution (100 ml container)
- Lithium Aluminum Hydride Solution (100 ml container)
- Methylmagnesium Iodide Solution (100 ml container)

Emergency Responders determined the containers were unstable and that the safest response was on-site emergency treatment in a total containment vessel. Treatment was conducted at TA-35 in accordance with 40 CFR 270.61. The destruction was completed on May 21, 2019 at 1:39 pm, in a controlled and safe manner. Emergency treatment was effective and no residue or other hazardous materials remained after treatment.

Please contact Patrick L. Padilla at (505) 667-3932 or by email at plpadilla@lanl.gov if you have questions.

Sincerely,



Peter H. Carson
EPC-WMP Group Leader

PHC/PLP/AMM

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