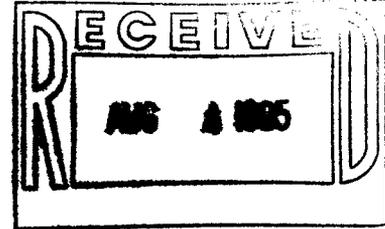




*file  
LAC*

**Department of Energy**  
Los Alamos Area Office  
Albuquerque Operations Office  
Los Alamos, New Mexico 87544

**JUL 27 1995**



CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Ms. Barbara Hoditschek, Program Manager  
RCRA Permitting Program  
Hazardous and Radioactive Materials Bureau  
New Mexico Environment Department  
525 Camino de los Marquez, Suite 4  
P.O. Box 26110  
Santa Fe, NM 87502

Dear Ms. Hoditschek:

This written report for the emergency chemical destruction at Technical Area (TA) 21, on July 22, 1995, is submitted pursuant to the requirements of the Los Alamos National Laboratory Hazardous Waste Facility Permit, Module II, General Facility Conditions, paragraph II.K.2.c. Approval to perform this activity was provided via our telephone conversations on July 18 and 21, 1995.

During waste management operations associated with the decommissioning of TA-21, Building 3 North, several containers (glass bottles and a metal can containing a glass jar) located in a fume hood in TA-21, Building 3, Room 301, were observed to contain crystallized material. Additionally, one glass bottle containing about 10 grams of picric acid (approximately 1/2 crystallized) was observed in TA-21, Building 3, Room 301B (see enclosed TA-21 Presumed Unstable Chemicals List). Upon review of the Material Safety Disposal Sheets, it was determined that the containers were potentially a threat to human health and safety. The Hazardous Devices Team and Hazardous Material Response Team were contacted to assist in the disposal of the chemicals. It was determined that since the chemicals were in close proximity to each other, preventing the close examination of each individual bottle, all should be presumed reactive and an emergency chemical destruction was required.

The containers were moved approximately 75 feet to burn boxes placed on the road to the north of TA-21, Building 3. Air modeling calculations performed by the Environmental, Safety and Health, Group 17 personnel, determined that the planned release of any toxic material generated during the operation would not result in significant toxic gas concentrations at public access points. Safe stand-off distances for the chemical destruction personnel were calculated and observed.

Destruction of the substances and their containers was completed at 4 p.m. on July 22, 1995. An inspection of the burn boxes and surrounding area after the destruction process was completed revealed no unusual occurrences. The residue has been sampled and is undergoing analysis. When analysis is complete, the residue will be characterized and managed accordingly.



18  
41

TL

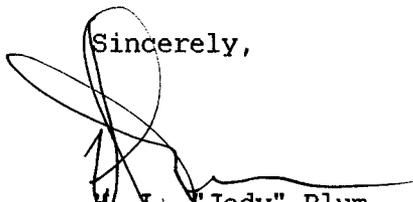
JUL 27 1985

Ms. Barbara Hoditschek

2

If you have any questions, please call me at (505) 665-5027, or Jody Plum of my staff at (505) 665-5042.

Sincerely,

A handwritten signature in black ink, appearing to be 'H. L. Jody Plum', written over the word 'Sincerely,'.

H. L. "Jody" Plum  
Office of Environment  
and Projects

LAAMEP:2JP-007

Enclosure

cc w/enclosure:

B. Garcia, Bureau Chief  
Hazardous and Radioactive Materials  
Bureau  
New Mexico Environment Department  
525 Camino de los Marquez  
P. O. Box 26110  
Santa Fe, NM 87502

| Description   | Quantity | Type                   | Unit | Burn Run |
|---|----------|------------------------|------|----------|
| ethylmagnesium bromide (crystallized)   | 0.8      | Glass bottle/container | L    | 1        |
| lithium aluminum hydride  | 0.6      | Glass bottle/container | L    | 1        |
| methylithium - pyrophoric - has crystallized  | 0.2      | Glass bottle/container | L    | 1        |
| methylithium - pyrophoric - some crystals outside bottle                                  | 0.025    | Glass bottle/container | L    | 1        |
| potassium triethylborohydride, 1M solution in tetrahydrofuran                             | 0.9      | Glass bottle/container | L    | 1        |
| allylmagnesium bromide - 1M. solution in diethyl ether (crystallized)                     | 0.3      | Glass bottle/container | L    | 2        |
| diaminobenzidine tetrahydrochloride   | 0.2      | Glass bottle/container | L    | 2        |
| diethylaluminum ethoxide 25% in hexanes   | 0.6      | Glass bottle/container | L    | 2        |
| ethylmagnesium chloride, 2M   | 0.8      | Glass bottle/container | L    | 2        |
| isopropylmagnesium chloride, 2.0 solution in diethyl ether (crystallized)                 | 0.5      | Glass bottle/container | L    | 2        |
| super-hydride - 1.0M solution tetrahydrofuran (lithium triethylborohydride) some crystals | 0.02     | Glass bottle/container | L    | 2        |
| tert-butyllithium, 1.7M solution in pentane *pyrophoric                                   | 0.8      | Glass bottle/container | L    | 2        |
| methylmagnesium iodide - 3M solution diethyl ether  | 0.1      | Bottle in can          | L    | 3        |
| n-butyllithium, 2.5M in hexanes (has coagulated, air reactive)                            | 0.5      | Glass bottle/container | L    | 3        |
| n-butyllithium, 2.5M in hexanes (has coagulated, air reactive)                            | 0.5      | Glass bottle/container | L    | 3        |
| sodium bis (2-methoxyethoxy) aluminum hydride, 70 wt.% solution in toluene                | 0.5      | Glass bottle/container | L    | 3        |
| sodium triethylborohydride  | 0.01     | Glass bottle/container | L    | 3        |
| sodium triethylborohydride, 1M solution in tetrahydrofuran                                | 0.05     | Glass bottle/container | L    | 3        |
| picric acid   | 10       | Glass bottle/container | G    | 4        |