

FFCU



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

DEC - 8 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Ms. Janice Archuleta  
Hazardous and Radioactive Materials Bureau  
New Mexico Environment Department  
2044 Galisteo Street, Building A  
P. O. Box 26110  
Santa Fe, NM 87505

Dear Ms. Archuleta:

**Subject:** Notification of Off-site Waste Shipments for Treatability Studies,  
Site Treatment Plan (STP), Los Alamos National Laboratory (LANL)

The purpose of this letter is to notify the New Mexico Environment Department (NMED) of our intention to ship STP covered wastes to several off-site testing facilities for treatability studies. This notification is made in keeping with our commitment as expressed in our August 29, 1996 letter to NMED.

Three shipments that include STP covered wastes listed in Sections 3.1.8, 3.1.9, 3.3, 3.1.10, and 3.1.5 of the CPV (Rev. 3.0, Exhibit A) in the treatability groups "Compressed gases requiring scrubbing;" "Compressed gases requiring oxidation;" "Compressed gases - TBD;" "Elemental mercury;" and "Noncombustible debris;" MWIR waste IDs LA-W917, LA-W918, LA-W926, LA-W920, and LA-W922, are planned to be made between now and December 23, 1997. These wastes will be sent to the International Technology (IT) Corporation testing facility near Knoxville, Tennessee; the Colorado Minerals Research Institute (CMRI) facility in Golden, Colorado; and the Perma-Fix, Inc., facility in Gainesville, Florida, as follows:

<u>Test Facility</u>	<u>MWIR ID</u>	<u>No. Items</u>	<u>Volume (m3)</u>
IT Corp.	LA-W917	13	0.35
	LA-W918	6	0.08
	LA-W926	9	1.06
CMRI	LA-W920	1	0.02
Perma-Fix	LA-W922	8	2.02

The STP requires DOE and UC to complete shipment of all wastes currently in Sections 3.1.8 and 3.1.9 of the CPV by August 28, 2003; Section 3.3 by December 20, 1998; Section 3.1.10 by November 15, 2000; and Section 3.1.5 by August 25, 2000.



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**Description of Planned Treatability Studies**

LANL will be shipping compressed gas cylinders and aerosol cans (LA-W917, 918, 926) to International Technology's Environmental Technology Development Center (ETDC). The gas cylinders and aerosol cans originated from cleanup actions conducted in 1991 to locate, identify, and remove orphan gas cylinders and aerosol cans from storage areas across LANL. The objective of the treatability study would be to demonstrate the viability of treatment technologies, such as ion exchange, neutralization, and oxidation to this non-routine mixed-waste stream.

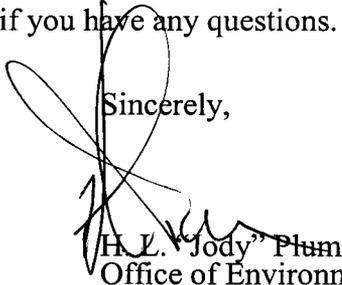
One container of elemental mercury from LA-W920 will be sent to CMRI for amalgamation in a treatability study sponsored by the DOE/EM-50 Mixed Waste Focus Area. The study will demonstrate a novel process for combining sulfur with radioactively contaminated elemental mercury using a scalable and economically viable mixing process.

The eight LA-W922 items will be used to evaluate appropriate treatment technologies for heavy metal and radiologically contaminated low-density debris. Technologies to be evaluated by Perma-Fix include stabilization, macroencapsulation, and precipitation. Perma-Fix possesses both a RCRA Part B permit for treatment and storage and a Radioactive Materials License issued by the State of Florida.

Enclosed is a Certification Statement prepared in accordance with the requirements of Section XX, "Documents, Information, and Reporting Requirements," of the FFCO.

Please contact me at (505) 665-5042 if you have any questions.

Sincerely,



H.L. Jody Plum  
Office of Environment

LAAME:3JP-076

Enclosure

cc w/enclosure:

Mr. Benito Garcia  
Hazardous and Radioactive Materials Bureau  
New Mexico Environment Department  
2044 Galisteo Street, Building A  
P. O. Box 26110  
Santa Fe, NM 87505

Mr. Walter Medina  
Hazardous and Radioactive Materials Bureau  
New Mexico Environment Department  
2044 Galisteo Street, Building A  
P. O. Box 26110  
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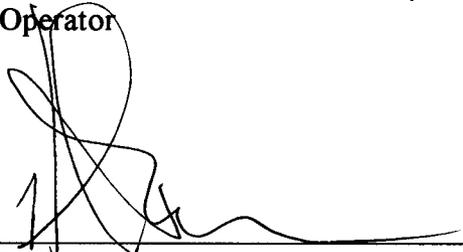
**CERTIFICATION**

**NOTIFICATION OF OFF-SITE WASTE SHIPMENTS FOR TREATABILITY STUDIES, SITE TREATMENT PLAN (STP), LOS ALAMOS NATIONAL LABORATORY (LANL)**

I certify that I am the project manager responsible for overseeing the implementation of the Site Treatment Plan for the Los Alamos National Laboratory. To the best of my knowledge and belief, the information in this document is true, accurate, and complete.

  
\_\_\_\_\_  
Kenneth M. Hargis  
Manager of Operations  
Waste Management Program  
Environmental Management Programs  
Los Alamos National Laboratory  
Operator

8 December 1997  
Date Signed

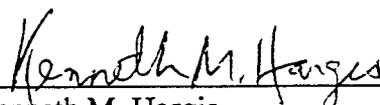
  
\_\_\_\_\_  
H. D. Plum  
Regulatory Permitting and Compliance Manager  
Los Alamos Area Office  
U.S. Department of Energy  
Albuquerque Operations  
Owner/Operator

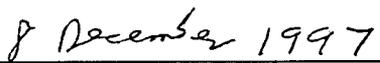
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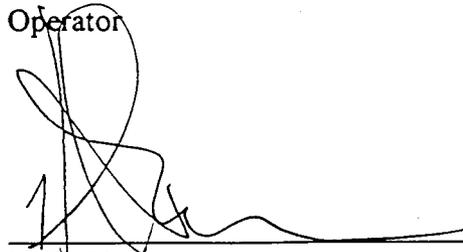
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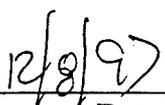
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