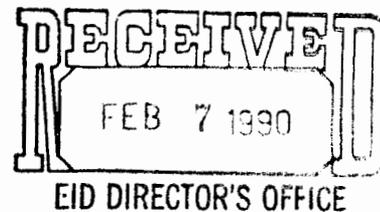




Department of Energy
Albuquerque Operations
Los Alamos Area Office
Los Alamos, New Mexico 87544

Kirk
Jack E.



FEB. 05 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Richard Mitzelfelt, Director
New Mexico Environmental Improvement Division
1190 St. Francis Drive
Harold Runnels Building
Santa Fe, New Mexico 87503

Dear Mr. Mitzelfelt:

Enclosed are copies of the 1990 Inventory of Federal Hazardous Waste Activities and the 1990 Inventory of Federal Hazardous Waste Activities at Formerly Owned Federal Facilities (FOFFs). These forms are required under Section 3016 of the Resource Conservation and Recovery Act (RCRA). As a RCRA authorized state, we are providing you with copies of these forms. The original forms were sent to the Department of Energy's (DOE) Headquarters and forwarded to the Environmental Protection Agency.

DOE and the Los Alamos National Laboratory welcome any questions regarding the contents of these forms. If you have any questions regarding these reports, please contact Paul Schumann of my staff at 667-5288.

Sincerely,

Jack B. Tillman
Jack B. Tillman
Area Manager

LESH:2PS-065-2

Enclosures

cc:

- A. Tiedman, LANL, ADO, MS-A120
- J. Puckett, LANL, HSE-DO, MS-K491
- K. Hargis (HSE-8:90-67), LANL, HSE-8, MS-K490
- P. Schumann, LAAO, MS-A316



15048

TC

PART I: FEDERAL FACILITY GENERAL INFORMATION

Page 1 of 2 -- Complete this part for each Federally owned or operated facility.

Note: This Part applies to all Federal hazardous waste facilities which are currently owned or operated by the Government. A "Federally owned or operated facility" or "facility" is defined as all the contiguous property owned and/or operated by a Federal agency at any one location and at which hazardous waste is stored, treated, or disposed, or has been disposed. The boundary of the Federal facility is the perimeter of the contiguous property owned or operated by the Federal agency, irrespective of the boundary of any CERCLA sites or RCRA facilities located on the property.

FEDERALLY OWNED OR OPERATED FACILITY IDENTIFICATION

1. Facility name:
2. Federal Facility Identification Number:
3. Was this facility reported in the 1988 Federal Facility Inventory?
Yes No
4. Provide the RCRA facility EPA ID number for the facility, if applicable:

RESPONSIBLE FEDERAL AGENCY

1. Facility owner
Department:
Agency :
Contractor:
Other :
2. Facility operator (if different from owner)
Department:
Agency :
Contractor:
Other :
3. Indicate the type of facility by checking ONE of the five choices:
GOGO GOCO GOPO POGO Leasee

Facility name:

Federal Facility Identification Number:

PART I: FEDERAL FACILITY GENERAL INFORMATION

Page 2 of 2 -- Complete this part for each Federally owned or operated facility.

RESPONSIBLE FEDERAL AGENCY

4. What is the name, title and telephone number of the person who completed this survey?

Name

Title

Telephone (FTS) 0455

commercial

LOCATION OF THE FEDERALLY OWNED OR OPERATED FACILITY

1.a. Facility location address

Address

City State ZIP

1.b. If the facility has no street address, provide the county, township, or latitude and longitude of the facility and the State.

County/Township/Latitude & Longitude

State

2. What is the facility mailing address?

Address

City State ZIP

Facility name: **LOS ALAMOS NATIONAL LABORATORY**

Federal Facility Identification Number: **N M - 8 9 0 0 1 0 5 1 5**

PART II: ENVIRONMENTAL MONITORING, CONTAMINATION AND RESPONSE ACTIONS

Page 1 of 10 -- Complete this part for each Federally owned or operated facility.

A. ENVIRONMENTAL MONITORING

1. Is environmental monitoring currently being conducted at the facility?

(If the answer is No, check No and skip to Question 5. If yes, answer Question 2.)

Yes No

2. If yes, what type of environmental monitoring is being conducted?

Air Soil Surface Water Ground Water

Subsurface Gas Other (describe) **FOODSTUFF, WILDLIFE**

3. Are data produced by this monitoring available to either EPA or an authorized State?

(If the answer is No, check No and skip to Question 5. If yes, answer Question 4.)

Yes No

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: NM-890010515

PART II: ENVIRONMENTAL MONITORING, CONTAMINATION AND RESPONSE ACTIONS

Page 2 of 10 -- Complete this part for each Federally owned or operated facility.

A. ENVIRONMENTAL MONITORING

4. If yes, in what form is the information available? (More than one information source may be identified.)

Information Source	Regulating Office Maintaining This Information
<input type="checkbox"/> RCRA Part B Permit Application	
<input type="checkbox"/> RCRA Facility Assessment (RFA)	
<input type="checkbox"/> RCRA Facility Investigation (RFI)	
<input type="checkbox"/> RCRA Corrective Measures Study	
<input type="checkbox"/> RCRA Post-Closure Permit Application	
<input type="checkbox"/> CERCLA Preliminary Assessment/ Site Investigation (PA/SI)	
<input type="checkbox"/> CERCLA Remedial Investigation/ Feasibility Study (RI/FS)	
<input type="checkbox"/> CERCLA Remedial Design	
<input type="checkbox"/> CERCLA Remedial Action	
<input type="checkbox"/> Routine Reporting	
<input checked="" type="checkbox"/> Other <input type="checkbox"/> NPDES REPORTS (describe)	EPA R-6
<input checked="" type="checkbox"/> Other <input type="checkbox"/> ENV SURV. REPORT (describe)	GENERAL PUBLIC, EPA, STATE
<input type="checkbox"/> Other <input type="checkbox"/> (describe)	

Facility name: **LOS ALAMOS NATIONAL LABORATORY**

Federal Facility Identification Number: **N M - 8 9 0 0 1 0 5 1 5**

PART II: ENVIRONMENTAL MONITORING, CONTAMINATION AND RESPONSE ACTIONS

Page 3 of 10 -- Complete this part for each Federally owned or operated facility.

A. ENVIRONMENTAL MONITORING

5. If environmental monitoring data are not available to either EPA or an authorized State, why not?

- In process of determining if environmental monitoring is necessary.
- Environmental monitoring determined not to be necessary.
- Environmental monitoring necessary, but not yet implemented.
- Environmental monitoring implemented, but results not yet available.
- Other (describe)

B. ENVIRONMENTAL CONTAMINATION

1. Have there been any releases of hazardous wastes to the environment at the facility?

(If the answer is No, check No and skip to Section C, Question 1. If yes, answer Question 2.)

Yes No

2. If yes, indicate the media into which release(s) occurred. (More than one media may be checked.)

Air Soil Surface Water Ground Water

Subsurface Gas Other (describe)

3. Is information concerning the amount, nature, toxicity, or concentration of wastes or waste constituents involved in any release from the facility available to either EPA or an authorized State?

(If the answer is No, check No and skip to Question 5. If yes, answer Question 4.)

Yes No

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: NM-890010515

PART II: ENVIRONMENTAL MONITORING, CONTAMINATION AND RESPONSE ACTIONS

Page 4 of 10 -- Complete this part for each Federally owned or operated facility.

B. ENVIRONMENTAL CONTAMINATION

4. If yes, in what form is information concerning releases available?
(More than one information source may be identified.)

<u>Information Source</u>	<u>Regulating Office Maintaining This Information</u>
<input type="checkbox"/> RCRA Part B Permit Application	
<input type="checkbox"/> RCRA Facility Assessment (RFA)	
<input type="checkbox"/> RCRA Facility Investigation (RFI)	
<input type="checkbox"/> RCRA Corrective Measures Study	
<input type="checkbox"/> RCRA Post-Closure Permit Application	
<input type="checkbox"/> CERCLA Section 103 Notification	
<input type="checkbox"/> CERCLA Preliminary Assessment/ Site Investigation (PA/SI)	
<input type="checkbox"/> CERCLA Remedial Investigation/ Feasibility Study (RI/FS)	
<input type="checkbox"/> CERCLA Remedial Design	
<input type="checkbox"/> CERCLA Remedial Action	
<input type="checkbox"/> Routine Reporting	
<input checked="" type="checkbox"/> Other NPDES REPORTS (describe) (e.g., Reportable Quantity Spill Report)	EPA R-6
<input type="checkbox"/> Other (describe)	

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: NM-890010515

PART II: ENVIRONMENTAL MONITORING, CONTAMINATION AND RESPONSE ACTIONS

Page 5 of 10 -- Complete this part for each Federally owned or operated facility.

B. ENVIRONMENTAL CONTAMINATION

5. Is information concerning the extent of the release in terms of the lateral extent of the release, the environmental impact of the release, or any other information necessary for EPA to assess the extent of the release available to either EPA or an authorized State?

(If the answer is No, check No and skip to Question 7. If yes, answer Question 6.)

Yes No

* LAB IS CURRENTLY ASSESSING RELEASES. INFORMATION IS AVAILABLE TO THE STATE AND EPA, AS WELL AS THE GENERAL PUBLIC. NONE OF THE INFORMATION IS IN FINAL FORM.

Facility name: **LOS ALAMOS NATIONAL LABORATORY**

Federal Facility Identification Number: **N M 8 9 0 0 1 0 5 1 5**

PART II : ENVIRONMENTAL MONITORING, CONTAMINATION AND RESPONSE ACTIONS

Page 6 of 10 -- Complete this part for each Federally owned or operated facility.

B. ENVIRONMENTAL CONTAMINATION

6. If yes, in what form is the information concerning the extent of the release available? (More than one information source may be identified.)

NOT APPLICABLE, QUESTION #5 WAS ANSWERED "NO"
Regulating Office

<u>Information Source</u>	<u>Maintaining This Information</u>
<input type="checkbox"/> RCRA Part B Permit Application	<input type="text"/>
<input type="checkbox"/> RCRA Facility Assessment (RFA)	<input type="text"/>
<input type="checkbox"/> RCRA Facility Investigation (RFI)	<input type="text"/>
<input type="checkbox"/> RCRA Corrective Measures Study	<input type="text"/>
<input type="checkbox"/> RCRA Post-Closure Permit Application	<input type="text"/>
<input type="checkbox"/> CERCLA Section 103 Notification	<input type="text"/>
<input type="checkbox"/> CERCLA Preliminary Assessment/ Site Investigation (PA/SI)	<input type="text"/>
<input type="checkbox"/> CERCLA Remedial Investigation/ Feasibility Study (RI/FS)	<input type="text"/>
<input type="checkbox"/> CERCLA Remedial Design	<input type="text"/>
<input type="checkbox"/> CERCLA Remedial Action	<input type="text"/>
<input type="checkbox"/> Routine Reporting	<input type="text"/>
<input type="checkbox"/> Other <input type="text"/> (describe) (e.g., EIS, EIA)	<input type="text"/>
<input type="checkbox"/> Other <input type="text"/> (describe)	<input type="text"/>

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: NM-890010515

PART II: ENVIRONMENTAL MONITORING, CONTAMINATION AND RESPONSE ACTIONS

Page 7 of 10 -- Complete this part for each Federally owned or operated facility.

B. ENVIRONMENTAL CONTAMINATION

7. Has contamination from this facility extended onto adjacent property?
(If the answer is No or Do Not Know, skip to Section C, Question 1. If yes, answer Question 8.)

Yes No Do Not Know

8. If yes, is information concerning the nature and extent of the off-site contamination available to either EPA or an authorized State?
(If the answer is No, check No and skip to Section C, Question 1. If yes, answer Question 9.)

Yes No NOT APPLICABLE, QUESTION #7 ABOVE WAS ANSWERED "NO".

Facility name: **LOS ALAMOS NATIONAL LABORATORY**

Federal Facility Identification Number: **N M - 8 9 0 0 1 0 5 1 5**

PART II: ENVIRONMENTAL MONITORING, CONTAMINATION AND RESPONSE ACTIONS

Page 8 of 10 -- Complete this part for each Federally owned or operated facility.

B. ENVIRONMENTAL CONTAMINATION

9. If yes, in what form is the information concerning the nature and the extent of off-site contamination available? (More than one information source may be identified.)

NOT APPLICABLE, QUESTION #8 WAS ANSWERED "NO".

Regulating Office

<u>Information Source</u>	<u>Maintaining This Information</u>
<input type="checkbox"/> RCRA Part B Permit Application	
<input type="checkbox"/> RCRA Facility Assessment (RFA)	
<input type="checkbox"/> RCRA Facility Investigation (RFI)	
<input type="checkbox"/> RCRA Corrective Measures Study	
<input type="checkbox"/> RCRA Post-Closure Permit Application	
<input type="checkbox"/> CERCLA Section 103 Notification	
<input type="checkbox"/> CERCLA Preliminary Assessment/ Site Investigation (PA/SI)	
<input type="checkbox"/> CERCLA Remedial Investigation/ Feasibility Study (RI/FS)	
<input type="checkbox"/> CERCLA Remedial Design	
<input type="checkbox"/> CERCLA Remedial Action	
<input type="checkbox"/> Routine Reporting	
<input type="checkbox"/> Other <input type="text"/> (describe)	
<input type="checkbox"/> Other <input type="text"/> (describe)	

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: NM-890010515

PART II: ENVIRONMENTAL MONITORING, CONTAMINATION AND RESPONSE ACTIONS

Page 9 of 10 -- Complete this part for each Federally owned or operated facility.

C. RESPONSE ACTIONS

1. Have corrective actions been initiated at this facility under RCRA authority?

(If the answer is No, check No and skip to Question 3. If yes, answer Question 2.)

Yes No

2. If yes, what corrective actions have been initiated at this facility?

NOT APPLICABLE, QUESTION #1 WAS ANSWERED "NO".

<u>RCRA Corrective Action</u>	<u>Planned</u>	<u>Initiated</u>	<u>Completed</u>	<u>Not Required</u>
RFA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RPI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interim Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Corrective Measures Study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Corrective Measures Implementation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Have remedial or removal actions been taken at this facility under CERCLA authority?

(If the answer is No, check No and skip to Question 5. If yes, answer Question 4.)

Yes No

4. If yes, check the appropriate boxes below to indicate what actions have been taken.

<u>CERCLA Corrective Action</u>	<u>Planned</u>	<u>Initiated</u>	<u>Completed</u>	<u>Not Required</u>
PA/SI	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RI/FS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remedial Design	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remedial Action	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Removal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: N M - 8 9 0 0 1 0 5 1 5

PART II : ENVIRONMENTAL MONITORING, CONTAMINATION AND RESPONSE ACTIONS

Page 10 of 10 -- Complete this part for each Federally owned or operated facility.

C. RESPONSE ACTIONS

5. Are other activities (i.e., under State authority or voluntary actions) planned, initiated, or completed that address(ed) contamination?

(If the answer is No, check No and do not answer the remaining question in this part. If Yes, answer Question 6.)

Yes No

6. If yes, identify the other activities and their status.

<u>Activity</u>	<u>Planned</u>	<u>Initiated</u>	<u>Completed</u>
Additional Studies/ Sampling	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Treatment or Removal of Contamination	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Closure	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Environmental Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: N M - 8 9 0 0 1 0 5 1 5

PART III: INFORMATION ON RCRA TREATMENT, STORAGE, AND DISPOSAL FACILITIES THAT MANAGED HAZARDOUS WASTE ON OR AFTER NOVEMBER 19, 1980

Page 1 of 4 -- Complete this Part for each facility that received hazardous waste on or after November 19, 1980.

Note: A RCRA facility is all contiguous land, structures, other appurtenances and improvements on the land, used for treating, storing, or disposing of hazardous waste on or after November 19, 1980. A RCRA facility may consist of several treatment, storage, or disposal operational units (e.g., one or more landfills, surface impoundments, or combinations of them).

1. Provide the RCRA facility EPA ID number: N M 0 8 9 0 0 1 0 5 1 5

2. Indicate whether any of the following documents were submitted for this RCRA facility.

Table with 3 columns: Document, Yes, No. Rows include RCRA Section 3010 Notification, RCRA Part A Permit Application, RCRA Part B Permit Application, RCRA Closure Plan, RCRA Post-Closure Plan, RCRA Section 3019 Exposure Information Report, and RCRA Post-Closure Permit Application.

3. Is the RCRA facility currently operating (i.e., treating, storing, or disposing of hazardous waste)?

(If the answer is Yes, check Yes and skip to Question 5. If No, answer Question 4.)

Yes [X] No [X]

Facility name: LOS ALAMOS NATIONAL LABORATORY

FFID: NM-890010515

RCRA ID: NM0890010515

PART III: INFORMATION ON RCRA TREATMENT, STORAGE, AND DISPOSAL FACILITIES THAT MANAGED HAZARDOUS WASTE ON OR AFTER NOVEMBER 19, 1980

Page 2 of 4 -- Complete this Part for each facility that received hazardous waste on or after November 19, 1980.

4. If the RCRA facility is no longer treating, storing, or disposing of hazardous waste, what other activities are currently being carried out at the RCRA facility?

NOT APPLICABLE, THE LAB CONTINUES TO TREAT AND STORE HAZARDOUS WASTE.

Solid Waste Treatment, Storage, or Disposal

Generating Solid or Hazardous Waste

Manufacturing

Other Industrial

Recreational

Residential

No Activity

Other (e.g., recycling)

(describe)

Do Not Know

5. Identify, by waste code, the hazardous wastes handled at the RCRA facility by calendar year.

Waste Code	Estimated Total Amount Handled (Amount/Unit of Measure)			
	In 1988		In 1989	
<input type="text"/>	<input type="text"/>	/ <input type="text"/>	<input type="text"/>	/ <input type="text"/>
<input type="text"/>	<input type="text"/>	/ <input type="text"/>	<input type="text"/>	/ <input type="text"/>
<input type="text"/>	<input type="text"/>	/ <input type="text"/>	<input type="text"/>	/ <input type="text"/>
<input type="text"/>	<input type="text"/>	/ <input type="text"/>	<input type="text"/>	/ <input type="text"/>
<input type="text"/>	<input type="text"/>	/ <input type="text"/>	<input type="text"/>	/ <input type="text"/>

*SEE APPENDUM III-2A THROUGH III-2E FOR COMPLETE LIST OF WASTES GENERATED.

Facility Name: LOS ALAMOS NATIONAL LABORATORY

FFID: NM - 890010515

RCRA ID: NM0890010515

<u>Waste Code</u>	<u>Estimated Total Amount Handled (Amount/Unit of Measure)</u>	
	In 1988	In 1989
D001	52,479 / LBS.	145,510 / LBS.
D002	306,727 / LBS.	582,199 / LBS.
D003	32,281 / LBS.	59,603 / LBS.
D004	800 / LBS.	3,987 / LBS.
D005	19,098 / LBS.	49,372 / LBS.
D006	741 / LBS.	1,102 / LBS.
D007	1,394 / LBS.	34,409 / LBS.
D008	36,113 / LBS.	77,497 / LBS.
D009	12,533 / LBS.	22,379 / LBS.
D010	5,561 / LBS.	11,775 / LBS.
D011	7,162 / LBS.	20,081 / LBS.
D012	582 / LBS.	1,056 / LBS.
D016	752 / LBS.	772 / LBS.
F001	2,141 / LBS.	5,971 / LBS.
F002	21,448 / LBS.	151,281 / LBS.
F003	636,575 / LBS.	1,152,734 / LBS.
F005	12,804 / LBS.	14,374 / LBS.
F007	214 / LBS.	2,289 / LBS.
K044	5,365 / LBS.	15,237 / LBS.
K045	/	1887 / LBS.
P003	51 / LBS.	/

Facility Name: LOS ALAMOS NATIONAL LABORATORY

FFID: NM - 890010515

RCRA ID: NM0890010515

<u>Waste Code</u>	<u>Estimated Total Amount Handled (Amount/Unit of Measure)</u>	
	In 1988	In 1989
P012	106 / LBS.	/
P015	/	1380 / LBS.
P022	106 / LBS.	/
P024	55 / LBS.	/
P030	161 / LBS.	644 / LBS.
P031	/	44 / LBS.
P038	/	22 / LBS.
P048	/	20 / LBS.
P051	/	174 / LBS.
P056	/	1047 / LBS.
P073	249 / LBS.	507 / LBS.
P076	/	1978 / LBS.
P082	201 / LBS.	201 / LBS.
P095	11 / LBS.	163 / LBS.
P096	11 / LBS.	121 / LBS.
P098	51 / LBS.	148 / LBS.
P105	/	82 / LBS.
P113	55 / LBS.	62 / LBS.
P119	/	51 / LBS.
P122	55 / LBS.	55 / LBS.
U001	/	4 / LBS.

Facility Name: LOS ALAMOS NATIONAL LABORATORY

FFID: NM - 890010515

RCRA ID: NM0890010515

<u>Waste Code</u>	<u>Estimated Total Amount Handled (Amount/Unit of Measure)</u>	
	In 1988	In 1989
U002	311 / LBS.	503 / LBS.
U003	110 / LBS.	353 / LBS.
U009	55 / LBS.	55 / LBS.
U012	201 / LBS.	232 / LBS.
U019	628 / LBS.	1,136 / LBS.
U028	/	55 / LBS.
U029	/	22 / LBS.
U031	/	86 / LBS.
U037	106 / LBS.	163 / LBS.
U043	/	18 / LBS.
U044	110 / LBS.	719 / LBS.
U045	/	15 / LBS.
U052	51 / LBS.	51 / LBS.
U056	51 / LBS.	101 / LBS.
U057	/	84 / LBS.
U061	/	31 / LBS.
U070	51 / LBS.	51 / LBS.
U075	/	11 / LBS.
U077	106 / LBS.	130 / LBS.
U080	741 / LBS.	897 / LBS.
U092	/	62 / LBS.

Facility Name: LOS ALAMOS NATIONAL LABORATORY

FFID: NM - 890010515

RCRA ID: NM0890010515

<u>Waste Code</u>	<u>Estimated Total Amount Handled (Amount/Unit of Measure)</u>	
	<u>In 1988</u>	<u>In 1989</u>
U098	/	31 / LBS.
U102	/	40 / LBS.
U106	/	185 / LBS.
U107	55 / LBS.	55 / LBS.
U108	359 / LBS.	432 / LBS.
U112	/	22 / LBS.
U117	31 / LBS.	31 / LBS.
U121	/	417 / LBS.
U122	553 / LBS.	975 / LBS.
U123	31 / LBS.	31 / LBS.
U133	161 / LBS.	254 / LBS.
U134	66 / LBS.	137 / LBS.
U135	9 / LBS.	75 / LBS.
U138	15 / LBS.	49 / LBS.
U144	161 / LBS.	362 / LBS.
U151	/	97 / LBS.
U154	364 / LBS.	675 / LBS.
U159	51 / LBS.	64 / LBS.
U167	/	150 / LBS.
U169	55 / LBS.	110 / LBS.
U170	/	11 / LBS.

Facility Name: LOS ALAMOS NATIONAL LABORATORY

FFID: NM - 890010515

RCRA ID: NM0890010515

<u>Waste Code</u>	<u>Estimated Total Amount Handled (Amount/Unit of Measure)</u>	
	In 1988	In 1989
U171	110 / LBS.	110 / LBS.
U188	600 / LBS.	763 / LBS.
U191	55 / LBS.	55 / LBS.
U196	260 / LBS.	267 / LBS.
U197	/	18 / LBS.
U204	51 / LBS.	51 / LBS.
U208	51 / LBS.	51 / LBS.
U209	/	35 / LBS.
U210	51 / LBS.	9 / LBS.
U211	505 / LBS.	836 / LBS.
U213	157 / LBS.	571 / LBS.
U216	55 / LBS.	55 / LBS.
U220	564 / LBS.	600 / LBS.
U223	/	18 / LBS.
U226	/	681 / LBS.
U227	161 / LBS.	324 / LBS.
U228	410 / LBS.	1,025 / LBS.
U239	377 / LBS.	419 / LBS.
U328	51 / LBS.	51 / LBS.
U353	/	66 / LBS.
=====		
TOTALS	1,163,772 / LBS.	2,375,201 / LBS.

Facility name: LOS ALAMOS NATIONAL LABORATORY

FFID: N M - 8 9 0 0 1 0 5 1 5

RCRA ID: N M 0 8 9 0 0 1 0 5 1 5

PART III: INFORMATION ON RCRA TREATMENT, STORAGE, AND DISPOSAL FACILITIES THAT MANAGED HAZARDOUS WASTE ON OR AFTER NOVEMBER 19, 1980

Page 3 of 4 -- Complete this Part for each facility that received hazardous waste on or after November 19, 1980.

6. Identify the total amount of hazardous wastes handled at the RCRA facility by calendar year.

	<u>Amount</u>	<u>Unit of Measure</u>
Estimated total amount handled in 1988	<input type="text"/>	<input type="text"/>
Estimated total amount handled in 1989	<input type="text"/>	<input type="text"/>

7. Does this RCRA facility have hazardous waste management units of the following types on site? How many hazardous waste management units of each type does the RCRA facility have?

(Include only units that received hazardous waste on or after November 19, 1980. This may include operating units and closed or closing units.)

<u>Yes</u>	<u>No</u>		<u>Number of Units</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Containers	<input type="text" value="33"/> <input type="text" value="24"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Tanks	<input type="text" value="14"/> <input type="text" value="7"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Surface Impoundments	<input type="text" value="6"/> <input type="text" value="3"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Waste Piles	<input type="text" value="2"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Incineration	<input type="text" value="4"/> <input type="text" value="7"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landfill	<input type="text" value="9"/> <input type="text" value="56"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Land Treatment	<input type="text" value="0"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Underground Injection	<input type="text" value="0"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Other <input type="text" value="OPEN BURNING/OPEN DETONATION"/> (describe) (e.g., open burning, open detonation, geologic repository)	<input type="text" value="4"/>
<input type="checkbox"/>	<input type="checkbox"/>	Other <input type="text"/> (describe)	<input type="text"/>

* NUMBERS ARE SUBJECT TO CHANGE WITH FURTHER SITE CHARACTERIZATION

Facility name: LOS ALAMOS NATIONAL LABORATORY

FFID: NM-890010515 RCRA ID: NM0890010515

PART III: INFORMATION ON RCRA TREATMENT, STORAGE, AND DISPOSAL FACILITIES THAT MANAGED HAZARDOUS WASTE ON OR AFTER NOVEMBER 19, 1980

Page 4 of 4 -- Complete this Part for each facility that received hazardous waste on or after November 19, 1980.

8. Has an RFA been conducted for the facility?
(If the answer is No, check No and skip to Part IV; if Yes, answer question 9).

Yes No

9. Indicate the type and number of solid waste management units (SWMUs) at the RCRA facility which have been identified in an RFA. (Include only those SWMUs that last received hazardous waste prior to November 19, 1980.)

Type	Number of Units
Containers	2
Tanks	2
Surface Impoundments	1
Waste Piles	6
Incineration	3
Landfill	10
Land Treatment	1
Underground Injection	0
Open Burning / Open Detonation	10
Exempt Units (e.g., wastewater treatment, recycling)	29
Other <input type="text" value="SUMPS"/> (describe) (e.g., routine product spills, vehicle maintenance areas, storm water ponds)	16
Other <input type="text" value="FIRING SITES, SEPTIC TANKS"/> (describe)	47

*NUMBERS ABOVE REFLECT REVISION TO SWMU'S (12/88) AND ARE SUBJECT TO CHANGE.

PART IV : INFORMATION ON DISPOSAL OF HAZARDOUS SUBSTANCES

Page 1 of 4 -- Complete this Part for each Federally owned or operated facility at which hazardous substances were disposed prior to November 19, 1980. Do not include those SWMUs reported in Part III as a result of an RFA. For Part IV of the inventory, disposal means the discharge, deposit, injection, dumping, spilling, leaking, or placing of any hazardous substance into or on any land or water so that such hazardous substance or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including ground waters.

1. Federal Facility Identification Number: NM-890010515

2. Has a hydrogeological site characterization been conducted at the facility?

(If the answer is No, In Progress, or Do Not Know, check the appropriate answer and skip to Question 5. If yes, answer Question 3.)

Yes No In Progress Do Not Know

3. If yes, is the information available to either EPA or an authorized State?

(If the answer is No, check No and skip to Question 5. If yes, answer Question 4.)

Yes No

4. If yes, in what form is the information concerning the hydrogeological site characterization available? (More than one information source may be identified.)

Information Source

CERCLA Preliminary Assessment/
Site Investigation (PA/SI)

CERCLA Remedial Investigation/
Feasibility Study (RI/FS)

Other

HYDROGEOLOGICAL ASSESSMENT - GDL
(describe)

(describe)

(describe)

(describe)

Regulatory Office
Maintaining This Information

GENERAL PUBLIC, EPA, AND STATE

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: NM - 8 9 0 0 1 0 5 1 5

PART IV : INFORMATION ON DISPOSAL OF HAZARDOUS SUBSTANCES

Page 2 of 4 -- Complete this Part for each Federally owned or operated facility at which hazardous substances were disposed prior to November 19, 1980.

5. Is information regarding the location of withdrawal wells and surface waters within one mile of the facility boundary available to either EPA or an authorized State?
(If the answer is No, check No, and skip to Question 7. If yes, answer Question 6.)

Yes No

6. If yes, in what form is the information concerning location of withdrawal wells and surface waters within one mile of the facility boundary available? (More than one information source may be identified.)

Information Source

- CERCLA Preliminary Assessment/
Site Investigation (PA/SI)
- CERCLA Remedial Investigation/
Feasibility Study (RI/FS)

Other

- ANNUAL WATER SUPPLY REPORT
(describe)
- ENVIRONMENTAL SURVEILLANCE REPORT
(describe)
- (describe)
- (describe)
- (describe)
- (describe)
- (describe)
- (describe)

Regulatory Office
Maintaining This Information

-
-
- GENERAL PUBLIC, CPA, AND STATE
- GENERAL PUBLIC, EPA, AND STATE
-
-
-
-
-

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: NM-890010515

PART IV : INFORMATION ON DISPOSAL OF HAZARDOUS SUBSTANCES

Page 3 of 4 -- Complete this Part for each Federally owned or operated facility at which hazardous substances were disposed prior to November 19, 1980.

7. Are there any of the areas at the facility being addressed under CERCLA authority?
(If the answer is No, check No and skip to Question 9. If yes answer Question 8.)
Yes No Do Not Know
8. Are any of the areas referred to in Question 7 listed or proposed on the NPL?
Yes No Do Not Know

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: N M - 8 9 0 0 1 0 5 1 5

PART IV : INFORMATION ON DISPOSAL OF HAZARDOUS SUBSTANCES

Page 4 of 4 -- Complete this Part for each Federally owned or operated facility at which hazardous substances were disposed prior to November 19, 1980.

9. Identify the hazardous substances disposed of at the site in the areas referred to in Question 7, and, if known, provide the estimated quantity of the hazardous substances disposed.

<u>Types of Hazardous Substances Disposed</u>	<u>Estimated Quantity of Hazardous Substances Disposed</u>
ACETONE	UNKNOWN
ACID SOLUTIONS	UNKNOWN
ACIDS	UNKNOWN
ALUMINUM	UNKNOWN
AMERICIUM	UNKNOWN
ANTIMONY	UNKNOWN
ARSENIC	UNKNOWN
ASBESTOS	UNKNOWN
BARIUM	UNKNOWN
BARIUM NITRATE	UNKNOWN
BERYLLIUM	UNKNOWN
BERYLLIUM - 7	UNKNOWN
BERYLLIUM CU ALLOY	UNKNOWN
BERYLLIUM OXIDE	UNKNOWN
CADMIUM	UNKNOWN

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: NM-890010515

PART IV: INFORMATION ON DISPOSAL OF HAZARDOUS SUBSTANCES

Page 4a -- Additional Responses for Question 9.

Types of Hazardous Substances Disposed	Estimated Quantity of Hazardous Substances Disposed
CARBON TETRACHLORIDE	UNKNOWN
CESIUM - 134	UNKNOWN
CHEMICAL	UNKNOWN
CHEMICAL WASTES	UNKNOWN
CHEMICALS	UNKNOWN
CHROMIUM	UNKNOWN
CLASS SHAPES, OBJECTS	UNKNOWN
CLASSIFIED MATERIALS	UNKNOWN
CLASSIFIED SHAPES	UNKNOWN
COBALT - 57	UNKNOWN
COBALT - 60	UNKNOWN
COPPER	UNKNOWN
CYANIDE	UNKNOWN
DEPLETED URANIUM	UNKNOWN
EXPLOSIVES	UNKNOWN
FERRIC ACID	UNKNOWN
FERRIC CHLORIDE	UNKNOWN
FISSION PRODUCTS	UNKNOWN
FLUORINE	UNKNOWN

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: NM-890010515

PART IV: INFORMATION ON DISPOSAL OF HAZARDOUS SUBSTANCES

Page 4b -- Additional Responses for Question 9.

Types of Hazardous Substances Disposed	Estimated Quantity of Hazardous Substances Disposed
GOLD	UNKNOWN
HEAVY METALS	UNKNOWN
HIGH EXPLOSIVES	UNKNOWN
HYDROCHLORIC ACID	UNKNOWN
HYDROFLORIC ACID	UNKNOWN
HYDROFLUORIC ACID	UNKNOWN
HYDROGEN FLUORIDE	UNKNOWN
LEAD	UNKNOWN
LITHIUM HYDRIDE	UNKNOWN
LOW-LEVEL RADIONUCLI	UNKNOWN
LOWLVL RADIONUCLIDES	UNKNOWN
MANGANESE - 54	UNKNOWN
MERCURY	UNKNOWN
METAL	UNKNOWN
METHYL ETHYLKETONE	UNKNOWN
MIXED WASTE	UNKNOWN
NATURAL URANIUM	UNKNOWN
NICKEL	UNKNOWN
NITRIC ACID	UNKNOWN

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: NM-890010515

PART IV: INFORMATION ON DISPOSAL OF HAZARDOUS SUBSTANCES

Page 4c -- Additional Responses for Question 9.

Types of Hazardous Substances Disposed	Estimated Quantity of Hazardous Substances Disposed
NITROBENZINE	UNKNOWN
ORGANIC CHELATES	UNKNOWN
ORGANIC CHLORATE	UNKNOWN
ORGANIC SOLVENTS	UNKNOWN
Organics	unknown
PCB	UNKNOWN
PERCHLOROETHYLENE	UNKNOWN
PETROLEUM PRODUCTS	UNKNOWN
PHOSPHORIC ACID	UNKNOWN
PHOSPHORUS ACID	UNKNOWN
PHOTO CHEM WASTES	UNKNOWN
PHOTOGRAPHIC CHEMS	UNKNOWN
PHOTOPROCESS CHEMS	UNKNOWN
PLATING WASTES	UNKNOWN
PLUTONIUM-239	UNKNOWN
POTASSIUM BICHROMATE	UNKNOWN
PROPELLANTS	UNKNOWN
RADIOACTIVE SOLID WST	UNKNOWN
RADIOLOGICAL	UNKNOWN

Facility name: LOS ALAMOS NATIONAL LABORATORY

Federal Facility Identification Number: NM-890010515

PART IV : INFORMATION ON DISPOSAL OF HAZARDOUS SUBSTANCES

Page 4d -- Additional Responses for Question 9.

Types of Hazardous Substances Disposed

Estimated Quantity of Hazardous Substances Disposed

RADIUM	UNKNOWN
RAIONUCLIDES	UNKNOWN
SELENIUM	UNKNOWN
SILVER	UNKNOWN
SODIUM - 22	UNKNOWN
SODIUM HYDROXIDE	UNKNOWN
SODIUM SULFATE	UNKNOWN
SOLVENTS	UNKNOWN
STRONTIUM - 89	UNKNOWN
STRONTIUM - 90	UNKNOWN
TETRANITROMETHANE	UNKNOWN
THORIUM	UNKNOWN
TITANIUM OXIDE	UNKNOWN
TOXIC MATERIAL	UNKNOWN
TOXIC MATERIALS	UNKNOWN
TRITIUM	UNKNOWN
URANIUM	5 LBS
URANIUM	UNKNOWN
VARIOUS ACIDS	UNKNOWN

Facility name: **LOS ALAMOS NATIONAL LABORATORY**

Federal Facility Identification Number: **N M - 8 9 0 0 1 0 5 1 5**

PART IV : INFORMATION ON DISPOSAL OF HAZARDOUS SUBSTANCES

Page 4e -- Additional Responses for Question 9.

**Types of Hazardous
Substances Disposed**

**Estimated Quantity of
Hazardous Substances Disposed**

VARIOUS CHEMICALS

UNKNOWN

VARIOUS METALS

UNKNOWN

ZINC

UNKNOWN

**1990 INVENTORY OF FEDERAL HAZARDOUS WASTE ACTIVITIES
AT FORMERLY OWNED FEDERAL FACILITIES (FOFFs)**

PART I: LIST OF FORMERLY OWNED FEDERAL FACILITIES

Page 1 of 1 -- Complete this Part for all formerly owned Federal facilities.

Note: The phrase "formerly owned Federal facility" or "FOFF" is used throughout this questionnaire to indicate all the contiguous property at any one location which was formerly owned by a Federal agency and at which hazardous waste was disposed of during the time of government ownership. The boundary of the FOFF is the perimeter of the contiguous property formerly owned by a Federal agency irrespective of the boundary of any CERCLA sites or RCRA facilities that may have been or are presently located on the property. Do not fill out the survey if the facility was not involved in hazardous waste disposal during the time of government ownership.

1. List all FOFFs:

FOFF Name	LOS ALAMOS NATIONAL LABORATORY
Department	ENERGY
Agency	LOS ALAMOS AREA OFFICE
FOFF Name	
Department	
Agency	
FOFF Name	
Department	
Agency	
FOFF Name	
Department	
Agency	

2. What is the name, title and telephone number of the person who completed this survey?

Name	JUAN C. CORPION
Title	STAFF MEMBER
Telephone (FTS)	(FTS) 855-0455
commercial	(505) 665-0455

PART II: GENERAL INFORMATION FOR EACH FOFF

Page 1 of 4 -- Complete a separate PART II for each FOFF.

A. FOFF IDENTIFICATION

1. Provide the name of the FOFF to which the answers in this Part apply.

LOS ALAMOS COUNTY

- 2.a. FOFF location address

Address

City State ZIP -

- 2.b. If the FOFF has no street address, provide the county, township, or latitude and longitude of the Federal facility and the State.

County/Township/Latitude & Longitude LOS ALAMOS

State NM

3. If the facility had any type of regulatory identification number assigned to it, provide the number and the State or Federal regulating office that issued the number.

<u>Number</u>	<u>Regulating Office</u>

* NO IDENTIFICATION NUMBER IS KNOWN TO EXIST.

FOFF Name

LCS ALAMOS COUNTY, NM

PART II : GENERAL INFORMATION FOR EACH FOFF

Page 2 of 4 -- Complete a separate PART II for each FOFF.

B. WASTE MANAGEMENT PRACTICES AT THE FOFF

- List, by waste code if known, the hazardous waste that was disposed of at the FOFF while it was still owned by a Federal agency. Refer to the waste codes listed in Appendix B.

Waste Code (or Waste Name)

<input type="checkbox"/>	

FOFF AREAS ARE EITHER PRE-RCRA OR UNDERGOING WASTE CHARACTERIZATION. THIS WASTE CLASSIFICATION IS NOT AVAILABLE AT THIS TIME.

- Indicate whether the following hazardous waste management practices were used at the FOFF prior to its sale.

Yes No

- | | | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Containers |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Tanks |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Surface Impoundments |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Waste Piles |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Incineration |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Landfill |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Land Treatment |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Underground Injection |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Other <input type="text" value="SEPTIC SYSTEMS (describe)"/> |

PART II: GENERAL INFORMATION FOR EACH FOFF

Page 3 of 4 -- Complete a separate PART II for each FOFF.

C. SALE OF THE FOFF

1. To whom was the FOFF sold?

COUNTY, CITY, AND PRIVATE INTERESTS

2. When was the FOFF sold? / AREAS RELEASED BY DOE OVER SEVERAL YEARS
(month/year)

D. ENVIRONMENTAL CONTAMINATION AND CLEANUP

1. Had the FOFF had any release(s) to the environment prior to when it was sold?
(If the answer is "No" or "Do Not Know," check the appropriate answer and skip to Section E. If yes, answer Question 2.)

Yes No Do Not Know

2. If yes: KNOWLEDGE OR EXTENT OF RELEASED WERE NOT KNOWN WHEN AREAS WERE RELINQUISHED BY DOE.

a. Were any of the releases addressed under RCRA authorities?

Yes No Do Not Know

b. Were any of the releases addressed under CERCLA authorities?

Yes No Do Not Know

c. Were any of the releases addressed under authorities other than RCRA or CERCLA?

Yes No Do Not Know

FOFF Name

LOS ALAMOS COUNTY, NM

PART II: GENERAL INFORMATION FOR EACH FOFF

Page 4 of 4 -- Complete a separate PART II for each FOFF.

D. ENVIRONMENTAL CONTAMINATION AND CLEANUP

3. If any of the releases were addressed under CERCLA authority list the site name and corresponding National Priorities List (NPL) listing status, if available.

Site Name	NPL Listing Status		
	Proposed	Listed	Not Known
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. If authorities other than RCRA or CERCLA were used to address the release(s), what were the authorities?

- State Authority
- Voluntary Cleanup
- Other EPA Authorities (e.g., Clean Air Act, Clean Water Act)
- Other (e.g., IEP, DOE Cleanup) (describe)

E. FOFF PROGRAMS

1. Do you have a program at your agency that addresses FOFFs?

- Yes
- No

2. If you answered "yes" in Question 5, please describe the FOFF program.

ENVIRONMENTAL RESTORATION PROGRAM

~~HSE-111A~~ 90
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SUMMARY OF CHANGES
IN THE
1990 INVENTORY OF FEDERAL HAZARDOUS WASTE ACTIVITIES

Part I, page 2 of 2

Juan C. Corpion completed this form and is responsible for its contents.

Part II, page 2 of 10

Environmental monitoring information is available in the Environmental Surveillance Report issued yearly by the Surveillance Group of the laboratory's Health, Safety, and Environment (HSE) division.

Part II, page 5 of 10

The information concerning releases of hazardous constituents to the environment from a hazardous waste management unit is currently being gathered. Although some information is available to EPA, the state, and the general public, it is not capable of providing data in support of corrective action at this time.

Part II, page 10 of 10

The laboratory has initiated a series of response actions including:

- 1) Waste characterization studies at each technical area;
- 2) Removal of contaminated wastewaters from closed surface impoundments;
- 3) Complete and partial closure land disposal units; and
- 4) Monitoring of hazardous constituents in the vadose zone underneath and around old hazardous waste management units.

Part III, page 1 of 4

A RCRA post-closure care plan has been submitted to EPA and the state of New Mexico. LANL currently treats and stores hazardous waste on-site.

Part III, page 2 of 4 (see Addendum)

A list of all hazardous wastes handle on-site has been provided.

(2)

Part III, page 3 of 4

The number of hazardous waste management units active since November 19, 1980, has been amended to reflect data gathered in the laboratory's Environmental Restoration Program. Most of these units are inactive and undergoing assessment.

Part III, page 4 of 4

A RCRA Facility Assessment (RFA) was conducted at the laboratory by EPA in 1988. The number of hazardous waste management units in operation prior to November 19, 1980, were compiled from the Solid Waste Management Unit report of December, 1988.

Part IV, page 3 of 4

Several areas are currently being addressed by CERCLA under the laboratory's Environmental Restoration Program. LANL is not aware of any site currently being proposed under Superfund's National Priority List.

Formerly Owned Federal Facilities (FOFFs)

This form was completed because there are areas which were turned over to the county and city of Los Alamos and once operated by the laboratory. Many of these areas were found to have managed hazardous wastes. All areas which may have come in contact with hazardous materials, whether on-site or off-site, are being addressed by the laboratory's Environmental Restoration Program.

3