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

JUL 20 1995

JUL 1995
RECEIVED
HAZARDOUS WASTE
PROGRAM

Benito 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

Dear Mr. Garcia,

Subject: LANL TA-55 Part A Permit Application

The purpose of this letter is to submit the enclosed RCRA Part A Permit Application. This submittal is in response to your request to provide the application by July 21, 1995.

Should have any questions, please contact Jody Plum of my staff at (505) 665-5042.

Sincerely,

for Larry Kirkman, P.E.
Acting Area Manager

LAAMEP:11JP-003

Enclosure

4399

LA-UR-07-0100

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Title: TECHNICAL AREA 55 PART A PERMIT APPLICATION, REVISION 0.0, JUNE 1995

Author(s): Jack E. Ellvinger, ENV-RCRA

Intended for: New Mexico Environment Department- Hazardous Waste Bureau

Los Alamos
NATIONAL LABORATORY
EST. 1943

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Form 836 (7/06)

Document:	**TA-55 Part A**
Revision No.:	**0.0**
Date:	**July 1995**

Technical Area 55
RCRA Part A Permit Application

Los Alamos National Laboratory
Hazardous and Solid Waste Group (ESH-19)
Los Alamos, New Mexico 87545

July 1995

Controlled Copy No. 1

Summary of Changes to Technical Area (TA) 55 Unit Descriptions

Old Description[a]	Description in this Part A Permit Application
Container storage areas for TRU mixed waste (Areas 1, 2, and 3)	No change
Container storage areas for low-level mixed waste	Container storage area for hazardous waste and low-level mixed waste (Area 4)
Container storage area for oversized TRU mixed waste	Container storage area for oversized mixed waste (Area 5)
Container storage in vault	Container storage area for mixed waste in vault (Area 6)
Container storage area	Container storage area for hazardous and mixed waste (Area 7)
Container storage area for mixed waste monitoring	Container storage area for mixed waste (Area 8)
Container storage area for sphere material removal	Container storage area for mixed waste (Area 9)
Container storage area for evaporator salt precipitate	Container storage area for mixed waste (Area 10)
Container storage area for mixed waste monitoring	Container storage area for mixed waste (Area 11)
Container storage area for glovebox process waste	Container storage area for mixed waste (Area 12)
Container storage pad	Container storage pad for hazardous and mixed waste
Container storage area for TRU mixed waste (Building 185)	Container storage area for hazardous and mixed waste (Building 185)
13 waste storage tanks for evaporator bottoms solution	13 mixed waste storage tanks for evaporator bottoms solution
Cementing process	Cementing process for mixed waste
Oxygen sparging furnace for pyrophoric salt[b]	No change

[a] As described in Los Alamos National Laboratory's (LANL's) "RCRA Part A Permit Application for Mixed Waste, Revision 2.0," 1994, Los Alamos National Laboratory, Los Alamos, New Mexico.
[b] The oxygen sparging furnace will be closed under interim status.

Note: LANL's "RCRA Part A Permit Application for Mixed Waste, Revision 2.0," submitted to the New Mexico Environment Department in 1994, included a container storage area in a vault at TA-55-41. Waste has never been stored in this area, and LANL personnel have determined that, currently, this container storage area is not needed. Therefore, it is not included in this TA-55 Part A permit application.

Summary of Increases in Design Capacity of Processes in the Technical Area (TA) 55 Part A Permit Application
(Justification Required)

Los Alamos National Laboratory (LANL) is requesting the following design capacity changes pursuant to the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Subpart IX, 270.72(a). Regulatory justifications for increases in design capacity are (i) a lack of available treatment, storage, or disposal capacity at other hazardous waste management facilities, and (ii) the change is necessary to comply with a Federal, State, or local requirement. This information is being submitted with this TA-55 Part A permit application, as required by 20 NMAC 4.1, Subpart IX, 270.72(a)(2).

	Old Capacity[a]	New Capacity	Specific Justification
Container Storage:			
TA-55, Building 4 (TA-55-4), Basement, Area 6	1,100 gallons (gal)	4,000 gal	Underestimate of capacity
TA-55-4, Basement, Area 7	3,025 gal	4,400 gal	Underestimate of capacity
TA-55-4, Room 432, Area 12	2,200 gal	4,400 gal	Underestimate of capacity
TA-55, Building 185	15,000 gal	27,500 gal	Underestimate of capacity
Treatment-Solidification:			
TA-55-4, Room 401, Cementing Process	110 gallons per day (gal/day)	165 (gal/day)	Underestimate of capacity

[a] As specified in Revision 2.0 of LANL's "RCRA Part A Permit Application for Mixed Waste," 1994, Los Alamos National Laboratory, Los Alamos, New Mexico.

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Form Approved. OMB No. 2050-0034 Expires 12-31-91
GSA No. 0246-EPA-OT

For EPA Regional Use Only	EPA United States Environmental Protection Agency Washington, DC 20460 # Hazardous Waste Permit Application Part A *(Read the Instructions before starting)*	For State Use Only
Date Received Month Day Year		

I. ID Number(s)

A. EPA ID Number	B. Secondary ID Number *(if applicable)*
NM089001051 5	

II. Name of Facility

LOS ALAMOS NATIONAL LABORATORY

III. Facility Location *(Physical address not P.O. Box or Route Number)*

A. Street

Street *(continued)*

City or Town	State	ZIP Code
LOS ALAMOS	NM	87545-

County Code *(if known)*	County Name
028	LOS ALAMOS

B. Land Type	C. Geographic Location		D. Facility Existence Date
(enter code)	*LATITUDE (degrees, minutes, & seconds)*	*LONGITUDE (degrees, minutes, & seconds)*	Month Day Year
F	35 49 051	106 14 015	01 01 1943

IV. Facility Mailing Address

Street or P.O. Box: PO BOX 1663

City or Town	State	ZIP Code
LOS ALAMOS	NM	87545-

V. Facility Contact *(Person to be contacted regarding waste activities at facility)*

Name *(last)*	*(first)*
VOZELLA	JOSEPH

Job Title	Phone Number *(area code and number)*
ASST. AREA MANAGER	505-665-5027

VI. Facility Contact Address *(See instructions)*

A. Contact Address Location	Mailing	B. Street or P.O. Box
	X	528 35TH STREET

City or Town	State	ZIP Code
LOS ALAMOS	NM	87544-

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Form Approved. OMB No. 2050-0034 Expires 12-31-5
GSA No. 0246-EPA-C

EPA I.D. Number (enter from page 1)	Secondary ID Number (enter from page 1)
NM0890010515	

VII. Operator Information (see instructions)

Name of Operator				
UNIVERSITY OF CALIFORNIA				
Street or P.O. Box				
PO BOX 1663				
City or Town	State	ZIP Code		
LOS ALAMOS	NM	87545-		
Phone Number (area code and number)	B. Operator Type	C. Change of Operator Indicator	Date Changed (Month Day Year)	
505-667-5061	F	Yes ☐ No X		

VIII. Facility Owner (see instructions)

A. Name of Facility's Legal Owner				
US DEPARTMENT OF ENERGY				
Street or P.O. Box				
528 35TH STREET				
City or Town	State	ZIP Code		
LOS ALAMOS	NM	87544-		
Phone Number (area code and number)	B. Owner Type	C. Change of Owner Indicator	Date Changed (Month Day Year)	
505-667-5061	F	Yes ☐ No X		

IX. SIC Codes (4-digit, in order of significance)

Primary		Secondary	
9711	(description) NATIONAL SECURITY		(description)
Secondary		**Secondary**	
	(description)		(description)

X. Other Environmental Permits (see instructions)

A. Permit Type (enter code)	B. Permit Number	C. Description
N	NMR00A384	NPDES Storm Water General Permit
N	NM0028355	NPDES
N	NM0028576	NPDES (Fenton Hill Geothermal Site)
R	NM0890010515	RCRA (Hazardous Waste Permit)
		RAD. NESHAPs Preconstr. Approvals:
E		Low-Level Waste/Mixed Waste Incin.
E		Dual Axis Radiographic Hydrotest Fac.
E		Ground Test Accelerator
E		Independent Management Activity

X. Other Environmental Permits *(continued)*

A. Permit Type	B. Permit Number	C. Description
		RAD. NESHAPS PRECONSTRUCTION APPROVALS (Cont'd)
E		Facilitywide Application for Existent Emissions
E		TA-21, D&D Activity
E		TA-50, Bldg. 83 - Mobile Decontamination Trailer
E		TA-54, TRU Retrieval Domes
		STATE AIR QUALITY PERMITS:
E	AQCR 301	Open Burning
E		TA-11 Fuel Fire Burn
E		TA-36 HE-Contaminated Wood Burning
E		TA-14 HE-Contaminated Material Burning
E		TA-16 HE-Contaminated Material Burning
E		TA-33 & TA-39 LIDAR Test Burning
E	AQCR 702	Beryllium Machining
E	#632	TA-35, Bldg. 213, Beryllium Machining Emissions
E	#634-M-1	TA-3, Bldg. 141, Beryllium Processing Emissions
E	#635	TA-3, Bldg. 39, Beryllium Machining Emissions
E	#741	TA-3, Bldg. 35, Planned Beryllium Machining Emissions
E	#1081-M-1	TA-55, Bldg. 4, Beryllium Machining Emissions
		STATE SEPTIC TANK PERMITS:
E	LA-01	State Septic Tank Permit
E	LA-02	State Septic Tank Permit
E	LA-03	State Septic Tank Permit
E	LA-04	State Septic Tank Permit

EPA I.D. Number
NM0890010515

X. Other Environmental Permits *(continued)*

A. Permit Type	B. Permit Number	C. Description
E	LA-05	State Septic Tank Permit
E	LA-06	State Septic Tank Permit
E	LA-07	State Septic Tank Permit
E	LA-08	State Septic Tank Permit
E	LA-09	State Septic Tank Permit
E	LA-11	State Septic Tank Permit
E	LA-12	State Septic Tank Permit
E	LA-13	State Septic Tank Permit
E	LA-14	State Septic Tank Permit
E	LA-15	State Septic Tank Permit
E	LA-16	State Septic Tank Permit
E	LA-17	State Septic Tank Permit
E	LA-18	State Septic Tank Permit
E	LA-19	State Septic Tank Permit
E	LA-21	State Septic Tank Permit
E	LA-22	State Septic Tank Permit
E	LA-23	State Septic Tank Permit
E	LA-24	State Septic Tank Permit
E	LA-25	State Septic Tank Permit
E	LA-26	State Septic Tank Permit
E	LA-27	State Septic Tank Permit
E	LA-28	State Septic Tank Permit
E	LA-29	State Septic Tank Permit
E	LA-30	State Septic Tank Permit

EPA I.D. Number
NM0890010515

X. Other Environmental Permits *(continued)*		
A. Permit Type	**B. Permit Number**	**C. Description**
E	LA-31	State Septic Tank Permit
E	LA-32	State Septic Tank Permit
E	LA-33	State Septic Tank Permit
E	LA-34	State Septic Tank Permit
E	LA-35	State Septic Tank Permit
E	LA-36	State Septic Tank Permit
E	LA-37	State Septic Tank Permit
E	LA-38	State Septic Tank Permit
E	LA-39	State Septic Tank Permit
E	LA-42	State Septic Tank Permit
E	LA-43	State Septic Tank Permit
E	LA-44	State Septic Tank Permit
E	LA-45	State Septic Tank Permit
E	LA-46	State Septic Tank Permit
E	LA-47	State Septic Tank Permit
E	LA-48	State Septic Tank Permit
E	LA-49	State Septic Tank Permit
E	LA-50	State Septic Tank Permit
E	LA-51	State Septic Tank Permit
E	LA-52	State Septic Tank Permit
E	LA-53	State Septic Tank Permit
E	LA-54	State Septic Tank Permit
E	LA-55	State Septic Tank Permit
E	LA-56	State Septic Tank Permit

X. Other Environmental Permits *(continued)*

A. Permit Type	B. Permit Number	C. Description
E	LA-57	State Septic Tank Permit
E	LA-58	State Septic Tank Permit
E	LA-59	State Septic Tank Permit
E	LA-60	State Septic Tank Permit
E	LA-61	State Septic Tank Permit
E	LA-124	State Septic Tank Permit
E	SF880257	State Septic Tank Permit
E	SF880258	State Septic Tank Permit
E	SF880259	State Septic Tank Permit
E	SF880260	State Septic Tank Permit
E	SF880261	State Septic Tank Permit
E	SF890023	State Septic Tank Permit
E	SF890024	State Septic Tank Permit
E	SF890025	State Septic Tank Permit
E	SF89031R	State Septic Tank Permit
E	SF89032R	State Septic Tank Permit
E	SF89033R	State Septic Tank Permit
E	SF89034R	State Septic Tank Permit
E	SF89035R	State Septic Tank Permit
E	SF89036R	State Septic Tank Permit
E	SF890588	State Septic Tank Permit
E	SF890589	State Septic Tank Permit
E	SF890590	State Septic Tank Permit
E	SF900022	State Septic Tank Permit

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GSA No. 0246-EPA-OT

EPA I.D. Number (enter from page 1)												Secondary ID Number (enter from page 1)											
N	M	0	8	9	0	0	1	0	5	1	5												

XI. Nature of Business (provide a brief description)

The principal mission of LANL includes the research, design, development, and analysis of weapons components for the nation's nuclear arsenal. This effort is supported by research programs such as nuclear physics, hydrodynamics, conventional explosives, chemistry, metallurgy, radiochemistry, and biology. In addition to its defense program efforts, LANL supports energy research and environmental missions with programs including medium-energy physics; space nuclear systems; controlled thermonuclear fusion; laser research; environmental research; geothermal, solar, and fossil energy research; nuclear safeguards; biomedical research; and space physics. In 1992, LANL expanded its mission in support of environmental management to include development of new programs in the areas of health and biotechnology, environmental technologies, and industrial partnerships.

XII. Process - Codes and Design Capacities

A. **PROCESS CODE** – *Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided in Item XIII.*

B. **PROCESS DESIGN CAPACITY** – *For each code entered in column A, enter the capacity of the process.*

1. **AMOUNT** – *Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process unit.*
2. **UNIT OF MEASURE** – *For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.*

C. **PROCESS TOTAL NUMBER OF UNITS** – *Enter the total number of units used with the corresponding process code.*

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	DISPOSAL:	
D79	INJECTION WELL	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY
D80	LANDFILL	ACRE-FEET OR HECTARE-METER
D81	LAND APPLICATION	ACRES OR HECTARES
D82	OCEAN DISPOSAL	GALLONS PER DAY OR LITERS PER DAY
D83	SURFACE IMPOUNDMENT	GALLONS OR LITERS
	STORAGE:	
S01	CONTAINER (barrel, drum, etc.)	GALLONS OR LITERS
S02	TANK	GALLONS OR LITERS
S03	WASTE PILE	CUBIC YARDS OR CUBIC METERS
S04	SURFACE IMPOUNDMENT	GALLONS OR LITERS
	TREATMENT:	
T01	TANK	GALLONS PER DAY OR LITERS PER DAY
T02	SURFACE IMPOUNDMENT	GALLONS PER DAY OR LITERS PER DAY
T03	INCINERATOR	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR
T04	OTHER TREATMENT (Use for physical, chemical, thermal or biolgical treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in Item XIII.)	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
GALLONS PER HOUR	E
GALLONS PER DAY	U
LITERS	L
LITERS PER HOUR	H
LITERS PER DAY	V
SHORT TONS PER HOUR	D
METRIC TONS PER HOUR	W
SHORT TONS PER DAY	N
METRIC TONS PER DAY	S
POUNDS PER HOUR	J
KILOGRAMS PER HOUR	R
CUBIC YARDS	Y
CUBIC METERS	C
ACRES	B
ACRE-FEET	A
HECTARES	Q
HECTARE-METER	F
BTU's PER HOUR	K

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N	M	0	8	9	0	0	1	0	5	1	5												

XII. Process - Codes and Design Capacities (continued)

EXAMPLE FOR COMPLETING ITEM XII (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line Number		A. PROCESS CODE (from list above)			B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. 2. UNIT OF MEASURE (enter code)	C. PROCESS TOTAL NUMBER OF UNITS			FOR OFFICIAL USE ONLY				
X	1	S	0	2	600	G	0	0	2					
X	2	T	0	3	20	E	0	0	1					
	1	S	0	1	211,140	G	0	1	4					
	2	S	0	2	410	G	0	1	3					
	3													
	4													
	5													
	6													
	7													
	8													
	9													
1	0													
1	1													
1	2													

NOTE: If you need to list more than 12 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for additional treatment processes in Item XIII.

XIII. Additional Treatment Processes (follow instructions from Item XII)

Line Number (enter numbers in sequence with Item XII)	A. PROCESS CODE	B. TREATMENT PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. 2. UNIT OF MEASURE (enter code)	C. PROCESS TOTAL NUMBER OF UNITS	D. DESCRIPTION OF PROCESS
03	T04	165	U	001	Cementation unit located in TA-55-4-401 and used to immobilize (i.e., cement) process wastes. The wastes are cemented in 55-gallon drums.
04	T04	0.26	J	001	Unit included here is an oxygen sparging furnace at TA-55-4 used in the treatment of waste pyrophoric salts; this unit will be closed under interim status.
	T04				
	T04				

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EPA I.D. Number (enter from page 1)												Secondary ID Number (enter from page 1)											
N	M	0	8	9	0	0	1	0	5	1	5												

XIV. Description of Hazardous Wastes

A. EPA HAZARDOUS WASTE NUMBER - *Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.*

B. ESTIMATED ANNUAL QUANTITY - *For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.*

C. UNIT OF MEASURE - *For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:*

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that processes that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. *Enter the first two as described above.*
2. *Enter "000" in the extreme right box of Item XIV-D(1).*
3. *Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).*

2. PROCESS DESCRIPTION: *If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).*

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER: Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. *Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.*
2. *In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.*
3. *Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.*

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number		A. EPA HAZARD WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS (1) PROCESS CODES (enter)									D. PROCESS (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
X	1	K	0	5	4	900	P	T	0	3	D	8	0				
X	2	D	0	0	2	400	P	T	0	3	D	8	0				
X	3	D	0	0	1	100	P	T	0	3	D	8	0				
X	4	D	0	0	2												Included With Above

EPA I.D. Number (enter from Page 1)
NM0890010515

Secondary ID Number (enter from Page 1)

XIV. Description of Hazardous Wastes (Continued)

Line Number	A. EPA Hazardous Waste No. (enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Processes (1) Process Codes (enter)			D. Processes (2) Process Description (If a code is not entered in D[1])
1	D001	25,000	P	S01	S02	T04	Low-Level Mixed Waste (LLMW) and Transuranic Mixed Waste (TRUMW)
2	D002	70,000	P	S01	S02	T04	LLMW and TRUMW
3	D003	20,000	P	S01	S02	T04	LLMW and TRUMW
4	D004	2,000	P	S01	S02	T04	LLMW and TRUMW
5	D005	5,000	P	S01	S02	T04	LLMW and TRUMW
6	D006	200,000	P	S01	S02	T04	LLMW and TRUMW
7	D007	300,000	P	S01	S02	T04	LLMW and TRUMW
8	D008	400,000	P	S01	S02	T04	LLMW and TRUMW
9	D009	10,000	P	S01	S02	T04	LLMW and TRUMW
10	D010	1,000	P	S01	S02	T04	LLMW and TRUMW
11	D011	5,000	P	S01	S02	T04	LLMW and TRUMW
12	D018	2,000	P	S01		T04	LLMW and TRUMW
13	D019	2,000	P	S01		T04	LLMW and TRUMW
14	D021	2,000	P	S01		T04	LLMW and TRUMW
15	D022	500	P	S01		T04	LLMW and TRUMW
16	D027	500	P	S01		T04	LLMW and TRUMW
17	D028	1,000	P	S01		T04	LLMW and TRUMW
18	D030	500	P	S01		T04	LLMW and TRUMW
19	D032	500	P	S01		T04	LLMW and TRUMW
20	D033	500	P	S01		T04	LLMW and TRUMW
21	D034	500	P	S01		T04	LLMW and TRUMW
22	D035	5,000	P	S01		T04	LLMW and TRUMW
23	D036	500	P	S01		T04	LLMW and TRUMW
24	D038	500	P	S01		T04	LLMW and TRUMW
25	D039	5,000	P	S01		T04	LLMW and TRUMW
26	D040	5,000	P	S01		T04	LLMW and TRUMW
27	D042	500	P	S01		T04	LLMW and TRUMW
28	D043	500	P	S01		T04	LLMW and TRUMW
29	F001	50,000	P	S01		T04	LLMW and TRUMW
30	F002	50,000	P	S01		T04	LLMW and TRUMW
31	F003	50,000	P	S01		T04	LLMW and TRUMW
32	F005	50,000	P	S01		T04	LLMW and TRUMW

EPA I.D. Number (enter from Page 1)
NM0890010515

Secondary ID Number (enter from Page 1)

XIV. Description of Hazardous Wastes (Continued)

Line Number	A. EPA Hazardous Waste No. (enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Processes (1) Process Codes (enter)			D. Processes (2) Process Description (If a code is not entered in D(1))
33	P003	500	P	S01			LLMW and TRUMW
34	P012	500	P	S01			LLMW AND TRUMW
35	P015	2,000	P	S01			LLMW and TRUMW
36	P029	500	P	S01			LLMW and TRUMW
37	P030	500	P	S01			LLMW and TRUMW
38	P031	500	P	S01			LLMW and TRUMW
39	P038	500	P	S01			LLMW and TRUMW
40	P056	1,000	P	S01			LLMW and TRUMW
41	P063	500	P	S01			LLMW and TRUMW
42	P068	500	P	S01			LLMW and TRUMW
43	P073	500	P	S01			LLMW and TRUMW
44	P076	500	P	S01			LLMW and TRUMW
45	P078	500	P	S01			LLMW and TRUMW
46	P095	500	P	S01			LLMW and TRUMW
47	P096	500	P	S01			LLMW and TRUMW
48	P098	500	P	S01			LLMW and TRUMW
49	P106	500	P	S01			LLMW and TRUMW
50	P113	500	P	S01			LLMW and TRUMW
51	P120	500	P	S01			LLMW and TRUMW
52	U001	1,000	P	S01			LLMW and TRUMW
53	U002	500	P	S01			LLMW and TRUMW
54	U003	500	P	S01			LLMW and TRUMW
55	U012	500	P	S01			LLMW and TRUMW
56	U019	1,000	P	S01			LLMW and TRUMW
57	U022	500	P	S01			LLMW and TRUMW
58	U029	500	P	S01			LLMW and TRUMW
59	U031	500	P	S01			LLMW and TRUMW
60	U037	500	P	S01			LLMW and TRUMW
61	U044	500	P	S01			LLMW and TRUMW
62	U045	500	P	S01			LLMW and TRUMW
63	U052	500	P	S01			LLMW and TRUMW
64	U056	500	P	S01			LLMW and TRUMW
65	U057	500	P	S01			LLMW and TRUMW

EPA I.D. Number (enter from Page 1)
NM0890010515

Secondary ID Number (enter from Page 1)

XIV. Description of Hazardous Wastes (Continued)

Line Number	A. EPA Hazardous Waste No. (enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Processes (1) Process Codes (enter)			D. Processes (2) Process Description (If a code is not entered in D[1])
66	U075	500	P	S01			LLMW and TRUMW
67	U077	500	P	S01			LLMW and TRUMW
68	U080	2,000	P	S01			LLMW and TRUMW
69	U108	500	P	S01			LLMW and TRUMW
70	U112	500	P	S01			LLMW and TRUMW
71	U115	500	P	S01			LLMW and TRUMW
72	U117	500	P	S01			LLMW and TRUMW
73	U121	500	P	S01			LLMW and TRUMW
74	U122	500	P	S01			LLMW and TRUMW
75	U123	500	P	S01			LLMW and TRUMW
76	U131	500	P	S01			LLMW and TRUMW
77	U133	500	P	S01			LLMW and TRUMW
78	U134	2,000	P	S01			LLMW and TRUMW
79	U135	500	P	S01			LLMW and TRUMW
80	U140	500	P	S01			LLMW and TRUMW
81	U144	500	P	S01			LLMW and TRUMW
82	U151	2,000	P	S01			LLMW and TRUMW
83	U154	2,000	P	S01			LLMW and TRUMW
84	U159	2,000	P	S01			LLMW and TRUMW
85	U160	500	P	S01			LLMW and TRUMW
86	U161	500	P	S01			LLMW and TRUMW
87	U165	500	P	S01			LLMW and TRUMW
88	U169	500	P	S01			LLMW and TRUMW
89	U188	500	P	S01			LLMW and TRUMW
90	U190	500	P	S01			LLMW and TRUMW
91	U196	500	P	S01			LLMW and TRUMW
92	U204	500	P	S01			LLMW and TRUMW
93	U210	2,000	P	S01			LLMW and TRUMW
94	U211	2,000	P	S01			LLMW and TRUMW
95	U213	500	P	S01			LLMW and TRUMW
96	U216	500	P	S01			LLMW and TRUMW
97	U218	500	P	S01			LLMW and TRUMW
98	U219	500	P	S01			LLMW and TRUMW

EPA I.D. Number (enter from Page 1)
NM0890010515

Secondary ID Number (enter from Page 1)

XIV. Description of Hazardous Wastes (Continued)

Line Number	A. EPA Hazardous Waste No. (enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Processes (1) Process Codes (enter)			D. Processes (2) Process Description (If a code is not entered in D[1])
99	U220	2,000	P	S01			LLMW and TRUMW
100	U225	500	P	S01			LLMW and TRUMW
101	U226	2,000	P	S01			LLMW and TRUMW
102	U227	500	P	S01			LLMW and TRUMW
103	U228	500	P	S01			LLMW and TRUMW
104	U239	500	P	S01			LLMW and TRUMW
105	U246	500	P	S01			LLMW and TRUMW
106	D001	25,000	P	S01			Hazardous Waste (HW)
107	D002	10,000	P	S01			HW
108	D003	2,000	P	S01			HW
109	D004	1,000	P	S01			HW
110	D005	1,000	P	S01			HW
111	D006	500	P	S01			HW
112	D007	5,000	P	S01			HW
113	D008	100,000	P	S01			HW
114	D009	6,000	P	S01			HW
115	D010	500	P	S01			HW
116	D011	1,000	P	S01			HW
117	D018	500	P	S01			HW
118	D019	500	P	S01			HW
119	D021	500	P	S01			HW
120	D022	500	P	S01			HW
121	D027	500	P	S01			HW
122	D028	500	P	S01			HW
123	D030	500	P	S01			HW
124	D032	500	P	S01			HW
125	D033	500	P	S01			HW
126	D034	500	P	S01			HW
127	D035	2,000	P	S01			HW
128	D036	500	P	S01			HW
129	D038	500	P	S01			HW
130	D039	1,000	P	S01			HW
131	D040	1,000	P	S01			HW

EPA I.D. Number (enter from Page 1)
NM0890010515

Secondary ID Number (enter from Page 1)

XIV. Description of Hazardous Wastes (Continued)

Line Number	A. EPA Hazardous Waste No. (enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Processes (1) Process Codes (enter)			D. Processes (2) Process Description (If a code is not entered in D[1])
132	D042	500	P	S01			HW
133	D043	500	P	S01			HW
134	F001	10,000	P	S01			HW
135	F002	10,000	P	S01			HW
136	F003	10,000	P	S01			HW
137	F005	10,000	P	S01			HW
138	P003	500	P	S01			HW
139	P012	500	P	S01			HW
140	P015	2,000	P	S01			HW
141	P029	500	P	S01			HW
142	P030	500	P	S01			HW
143	P031	500	P	S01			HW
144	P038	500	P	S01			HW
145	P056	1,000	P	S01			HW
146	P063	500	P	S01			HW
147	P068	500	P	S01			HW
148	P073	500	P	S01			HW
149	P076	500	P	S01			HW
150	P078	500	P	S01			HW
151	P095	500	P	S01			HW
152	P096	500	P	S01			HW
153	P098	500	P	S01			HW
154	P106	500	P	S01			HW
155	P113	500	P	S01			HW
156	P120	500	P	S01			HW
157	U001	1,000	P	S01			HW
158	U002	500	P	S01			HW
159	U003	500	P	S01			HW
160	U012	500	P	S01			HW
161	U019	1,000	P	S01			HW
162	U022	500	P	S01			HW
163	U029	500	P	S01			HW
164	U031	500	P	S01			HW

EPA I.D. Number (enter from Page 1)
NM0890010515

Secondary ID Number (enter from Page 1)

XIV. Description of Hazardous Wastes (Continued)

Line Number	A. EPA Hazardous Waste No. (enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Processes (1) Process Codes (enter)			D. Processes (2) Process Description (If a code is not entered in D[1])
165	U037	500	P	S01			HW
166	U044	500	P	S01			HW
167	U045	500	P	S01			HW
168	U052	500	P	S01			HW
169	U056	500	P	S01			HW
170	U057	500	P	S01			HW
171	U075	500	P	S01			HW
172	U077	500	P	S01			HW
173	U080	2,000	P	S01			HW
174	U108	500	P	S01			HW
175	U112	500	P	S01			HW
176	U115	500	P	S01			HW
177	U117	500	P	S01			HW
178	U121	500	P	S01			HW
179	U122	500	P	S01			HW
180	U123	500	P	S01			HW
181	U131	500	P	S01			HW
182	U133	500	P	S01			HW
183	U134	2,000	P	S01			HW
184	U135	500	P	S01			HW
185	U140	500	P	S01			HW
186	U144	500	P	S01			HW
187	U151	2,000	P	S01			HW
188	U154	2,000	P	S01			HW
189	U159	2,000	P	S01			HW
190	U160	500	P	S01			HW
191	U161	500	P	S01			HW
192	U165	500	P	S01			HW
193	U169	500	P	S01			HW
194	U188	500	P	S01			HW
195	U190	500	P	S01			HW
196	U196	500	P	S01			HW
197	U204	500	P	S01			HW

EPA I.D. Number (enter from Page 1)
NM0890010515

Secondary ID Number (enter from Page 1)

XIV. Description of Hazardous Wastes (Continued)

Line Number	A. EPA Hazardous Waste No. (enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Processes (1) Process Codes (enter)			D. Processes (2) Process Description (If a code is not entered in D[1])
198	U210	2,000	P	S01			HW
199	U211	2,000	P	S01			HW
200	U213	500	P	S01			HW
201	U216	500	P	S01			HW
202	U218	500	P	S01			HW
203	U219	500	P	S01			HW
204	U220	2,000	P	S01			HW
205	U225	500	P	S01			HW
206	U226	2,000	P	S01			HW
207	U227	500	P	S01			HW
208	U228	500	P	S01			HW
209	U239	500	P	S01			HW
210	U246	500	P	S01			HW

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0034 Expires 12-31-91
GSA No. 0246-EPA-OT

EPA I.D. Number (enter from page 1)	Secondary ID Number (enter from page 1)
N M 0 8 9 0 0 1 0 5 1 5	

XIV. Description of Hazardous Waste (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 6.

Line Number	Additional Process Codes (enter)

XV. Map

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

XVIII. Certification(s)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner Signature	Date Signed
[signature]	7/20/95

Name and Official Title (type or print)
LARRY D. KIRKMAN, ACTING AREA MANAGER, DOE LAAO

Operator Signature	Date Signed
[signature]	7/20/95

Name and Official Title (type or print)
LARRY D. KIRKMAN, ACTING AREA MANAGER, DOE LAAO/DENNIS J. ERICKSON, DIVISION DIRECTOR, LANL ES&H DIV.

XIX. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (refer to instructions for more information)

ATTACHMENT 1

EXPLANATION OF PROCESS CODE LISTINGS AND DESIGN CAPACITIES FOR HAZARDOUS AND MIXED WASTE UNITS AT TECHNICAL AREA (TA) 55

EXPLANATION OF PROCESS CODE LISTINGS AND DESIGN CAPACITIES FOR HAZARDOUS AND MIXED WASTE UNITS AT TECHNICAL AREA (TA) 55

Line 1 S01 Container Storage

Description	Capacity (gallons)	SWMU[a] No.	Associated Structure No./Area
TA-55:			
Container storage areas for TRU mixed waste (Areas 1, 2, and 3)	27,500	TBD[b]	TA-55-4, Basement
Container storage area for hazardous waste and low-level mixed waste (Area 4)	3,400	TBD	TA-55-4, Basement
Container storage area for oversized mixed waste (Area 5)	3,400	TBD	TA-55-4, Basement
Container storage area for mixed waste in vault (Area 6)	4,000	TBD	TA-55-4, Basement
Container storage area for hazardous and mixed waste (Area 7)	4,400	TBD	TA-55-4, North end, Basement
Container storage area for mixed waste (Area 8)	660	TBD	TA-55-4-401
Container storage area for mixed waste (Area 9)	280	TBD	TA-55-4-401
Container storage area for mixed waste (Area 10)	50	55-004	TA-55-4-401
Container storage area for mixed waste (Area 11)	550	TBD	TA-55-4-433
Container storage area for mixed waste (Area 12)	4,400	TBD	TA-55-4-432
Container storage pad for hazardous and mixed waste	135,000	TBD	Near TA-55-4
Container storage area for hazardous and mixed waste (Building 185)	27,500	TBD	TA-55-185
TOTAL S01	**211,140**		

EXPLANATION OF PROCESS CODE LISTINGS AND DESIGN CAPACITIES FOR HAZARDOUS AND MIXED WASTE UNITS AT TECHNICAL AREA (TA) 55 (Continued)

Line 2 S02 Tank Storage

Description	Capacity (gallons)	SWMU[a] No.	Associated Structure No./Area
TA-55:			
13 mixed waste storage tanks for evaporator bottoms solution	410	55-004, 55-001	TA-55-4-401
TOTAL S02	**410**		

EXPLANATION OF PROCESS CODE LISTINGS AND DESIGN CAPACITIES FOR HAZARDOUS AND MIXED WASTE UNITS AT TECHNICAL AREA (TA) 55 (Continued)

Line 3 T04 Treatment - Solidification

Description	Capacity (gallons per day)	SWMU[a] No.	Associated Structure No./Area
TA-55:			
Cementing process for mixed waste	165	55-001	TA-55-4-401
TOTAL T04	**165**		

EXPLANATION OF PROCESS CODE LISTINGS AND DESIGN CAPACITIES FOR HAZARDOUS AND MIXED WASTE UNITS AT TECHNICAL AREA (TA) 55 (Continued)

Line 4 T04 Treatment - Other

Description	Capacity (pounds per hour)	SWMU[a] No.	Associated Structure No./Area
TA-55:			
Oxygen sparging furnace for pyrophoric salt[c]	0.26	TBD	TA-55-4-429
TOTAL T04	**0.26**		

Explanation of Symbols/Abbreviations

[a] SWMU = solid waste management unit.
[b] TBD = SWMU No. to be determined.
[c] Unit to be closed under interim status.

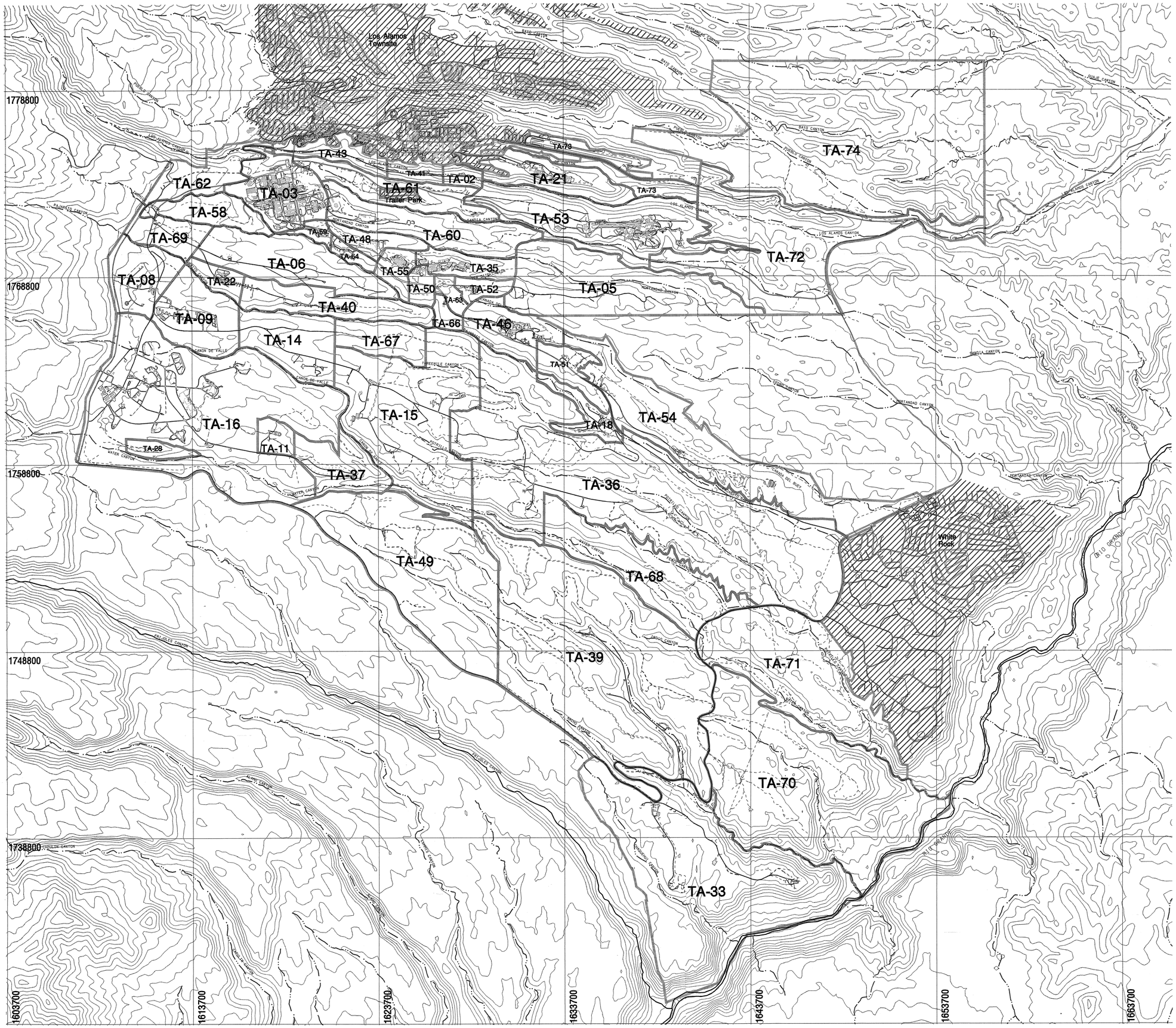
ATTACHMENT 2

TOPOGRAPHIC MAPS

LIST OF TOPOGRAPHIC MAPS

MAP NO.	MAP TITLE
1	Contour Map Showing All Technical Areas (TA) at Los Alamos National Laboratory (LANL)
2	Contour Map Showing Hazardous and Mixed Waste Units at Technical Area (TA) 55
3	Location Map of Water Supply Wells, Monitoring Wells, Test Wells, Springs, and Surface Water Sampling Stations
4	Los Alamos National Laboratory (LANL) National Pollutant Discharge Elimination System (NPDES) Outfall Locations
5	Location Map of Technical Area (TA) 57, Fenton Hill Geothermal Site

Note: For topographic maps showing LANL's other hazardous and mixed waste units, refer to the "RCRA Part A Permit Application for Mixed Waste, Revision 2.0," 1994, Los Alamos National Laboratory, Los Alamos, New Mexico.



LEGEND

- Boundary, LANL
- Boundary, TA
- Contours, 100 foot
- Roads, Dirt
- Roads, Paved
- Road/Trail
- Stream, Intermittent
- Stream, Perennial
- Building
- Residential Areas

4399-A

MAP 1:
Contour Map Showing All Technical Areas (TAs) at Los Alamos National Laboratory (LANL) (TA-57, Fenton Hill Site, not shown)

N

State Plane Coordinate System, New Mexico Central Zone.
1983 North American Datum

Grid provides NM State Plane coordinates in feet.
Grid interval, in feet: 10000
Feet per inch on map = 2500

SCALE 1:30000

0 762 1524 2286 3048

METERS

0 2500 5000 7500 10000

FEET

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Los Alamos National Laboratory boundary is based on legal description established in 1995. Other boundary, structure and utility data are from Los Alamos National Laboratory Engineering Division and Los Alamos County Utility and Engineering Departments. Contour data are from Los Alamos National Laboratory Environmental Restoration Project aerial survey, September, 1991.

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Los Alamos National Laboratory
Earth and Environmental Sciences Division

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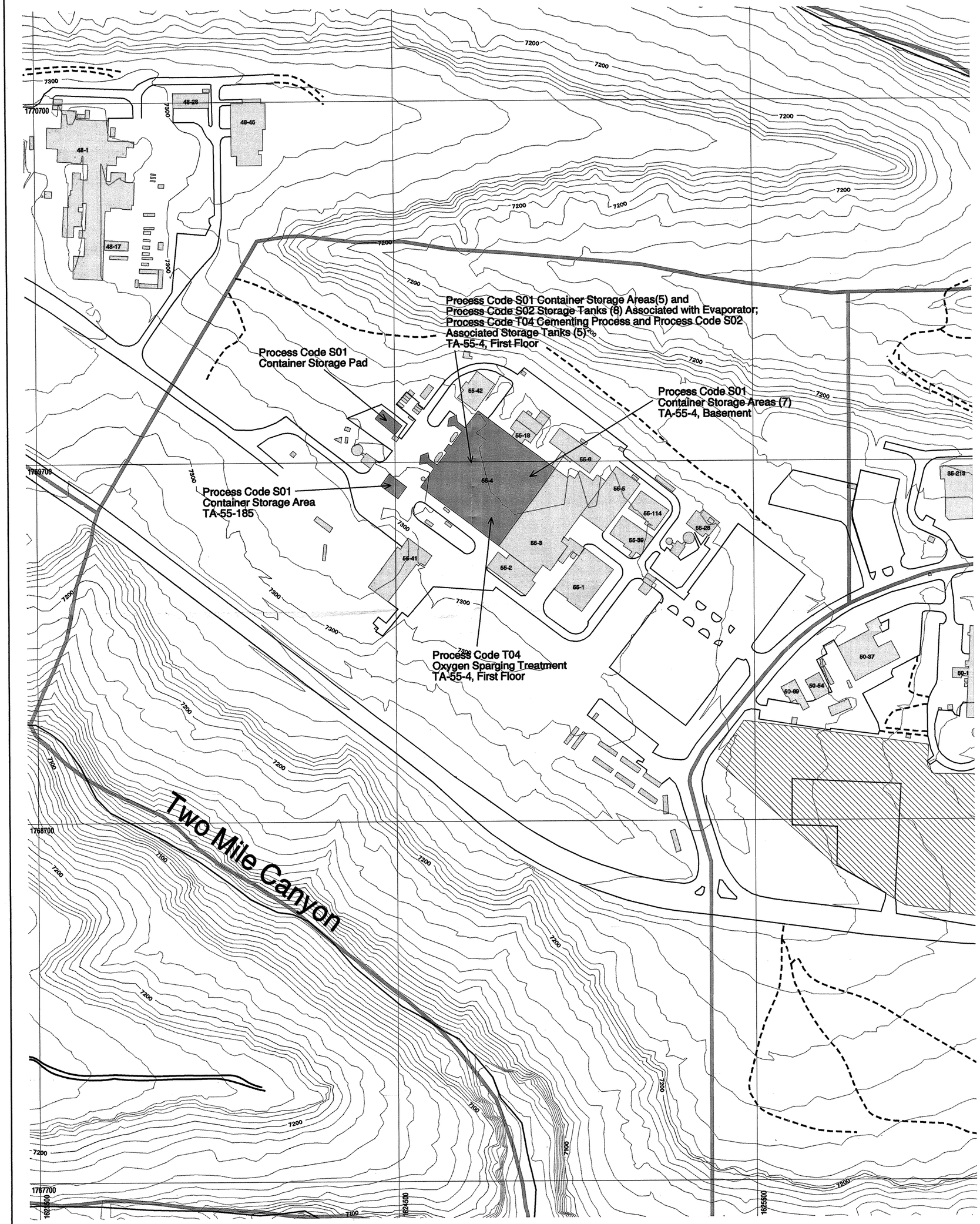
Date: April 29, 1995 FIMAD Plot ID: G103379



FIMAD Plot ID: G103448 24 May 95

LEGEND

- Contour, 100 ft
- Contour, 10 ft
- Road, Dirt
- Road, Paved
- Road/Trail
- Material Disposal Area
- Permanent/Temporary Structure
- Structure with Treatment, Storage, or Disposal (TSD) Area(s)

4399-B

Map 2: Contour Map Showing Hazardous and Mixed Waste Units at Technical Area (TA) 55

N

State Plane Coordinate System, New Mexico Central Zone.
1983 North American Datum

Grid provides NM State Plane coordinates in feet.
Grid interval, in feet: 1000
Feet per inch on map = 200

SCALE 1:2400

0 61 122 183 244

METERS

0 200 400 600 800

FEET

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Los Alamos National Laboratory boundary is based on legal description established in 1995. Other boundary, structure and utility data are from Los Alamos National Laboratory Engineering Division and Los Alamos County Utility and Engineering Departments. Contour data are from Los Alamos National Laboratory Environmental Restoration Project aerial survey, September, 1991.

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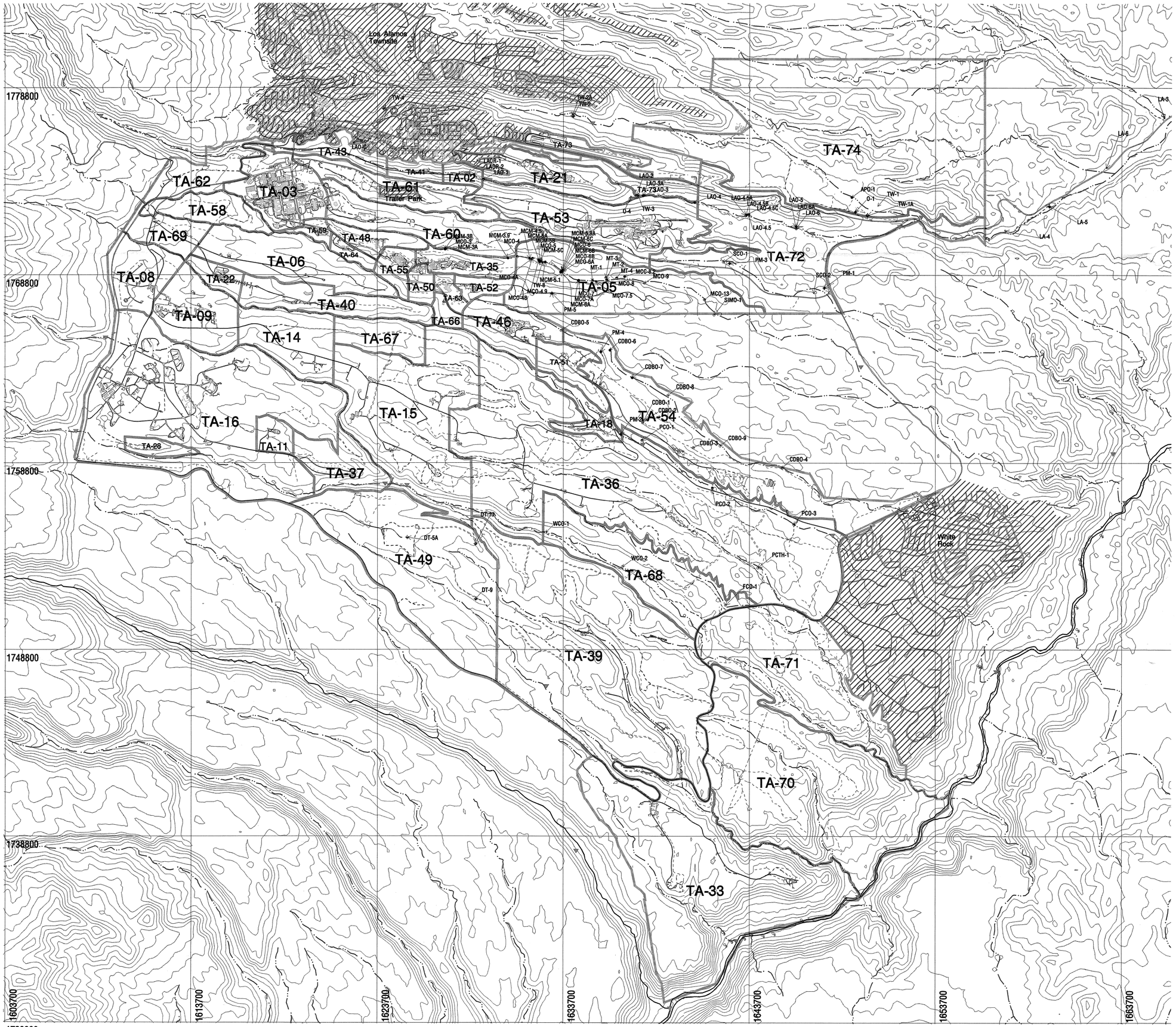
Produced by: Doug Walther

Date: May 24, 1995 FIMAD Plot ID: G103448



LEGEND

- Boundary, LANL
- Boundary, TA
- Contours, 100 foot
- Roads, Dirt
- Roads, Paved
- Road/Trail
- Stream, Intermittent
- Stream, Perennial
- Building
- Residential Areas

PERCHED ALLUVIAL MONITORING WELLS
(Old wells are pre-1990, new wells installed since 1990 according to EPA guidelines)

- New Dry Well
- Old Dry Well
- New Saturated Well
- Old Saturated Well

MAIN AQUIFER WELLS

- Water Supply Well
- Test Well

OTHER

- LAOR Well
- Abandoned/Plugged Well

- Surface Water Sampling Station
- Spring

4399-C

MAP 3:
Location Map of Water Supply Wells, Monitoring Wells, Test Wells, Springs, and Surface Water Sampling Stations

N

State Plane Coordinate System, New Mexico Central Zone.
1983 North American Datum

Grid provides NM State Plane coordinates in feet.
Grid interval, in feet: 10000
Feet per inch on map = 2500

SCALE 1:30000

0 762 1524 2286 3048
METERS
0 2500 5000 7500 10000
FEET

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Los Alamos National Laboratory boundary is based on legal description established in 1995. Other boundary, structure and utility data are from Los Alamos National Laboratory Engineering Division and Los Alamos County Utility and Engineering Departments. Contour data are from Los Alamos National Laboratory Environmental Restoration Project aerial survey, September, 1991.

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NPDES OUTFALL LOCATIONS

NPDES Outfall Locations

LEGEND

- County Boundary
- Drainage
- LANL Boundary
- Roads, Paved
- 100-ft Contours
- 20-ft Contours

OUTFALL CATEGORIES

- 01A
- 02A
- 03A
- 04A
- 05A
- 06A
- Miscellaneous

4399-D

MAP 4:
LOS ALAMOS NATIONAL LABORATORY (LANL)
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) OUTFALL LOCATIONS

N

State Plane Coordinate System, New Mexico Central Zone.
1983 North American Datum

Grid provides NM State Plane coordinates in feet.
Grid interval, in 'feet': 10000
Feet per inch on map = 1750

SCALE 1:21000

0 533 1066 1599 2132

METERS

0 1750 3500 5250 7000

FEET

NOTICE: The information on this map is provisional. Feature locations are dependent on scale and symbology and their accuracy may not have been confirmed. Los Alamos National Laboratory boundary is based on legal description established in 1995. Other boundary, structure and utility data are from Los Alamos National Laboratory Engineering Division and Los Alamos County Utility and Engineering Departments. Contour data are from Los Alamos National Laboratory Environmental Restoration Project aerial survey, September, 1991.

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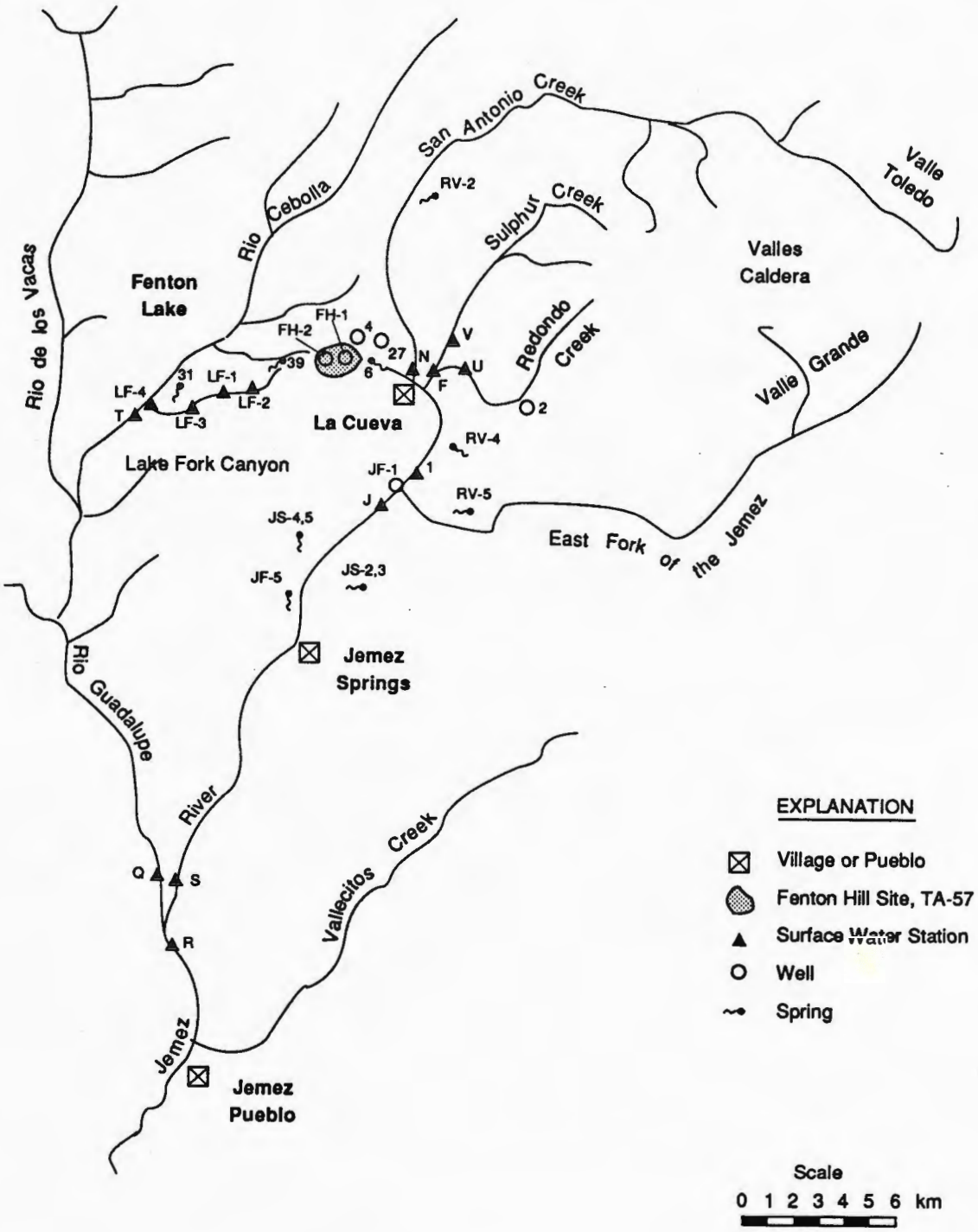
Produced by: Doug Walther

Date: June 09, 1995 FIMAD Plot ID: G103505



Reference: "Environmental Surveillance at Los Alamos During 1992," 1994, LA-12764-ENV, Los Alamos National Laboratory, Los Alamos, New Mexico.

Map 5

Location Map of Technical Area (TA) 57, Fenton Hill Geothermal Site

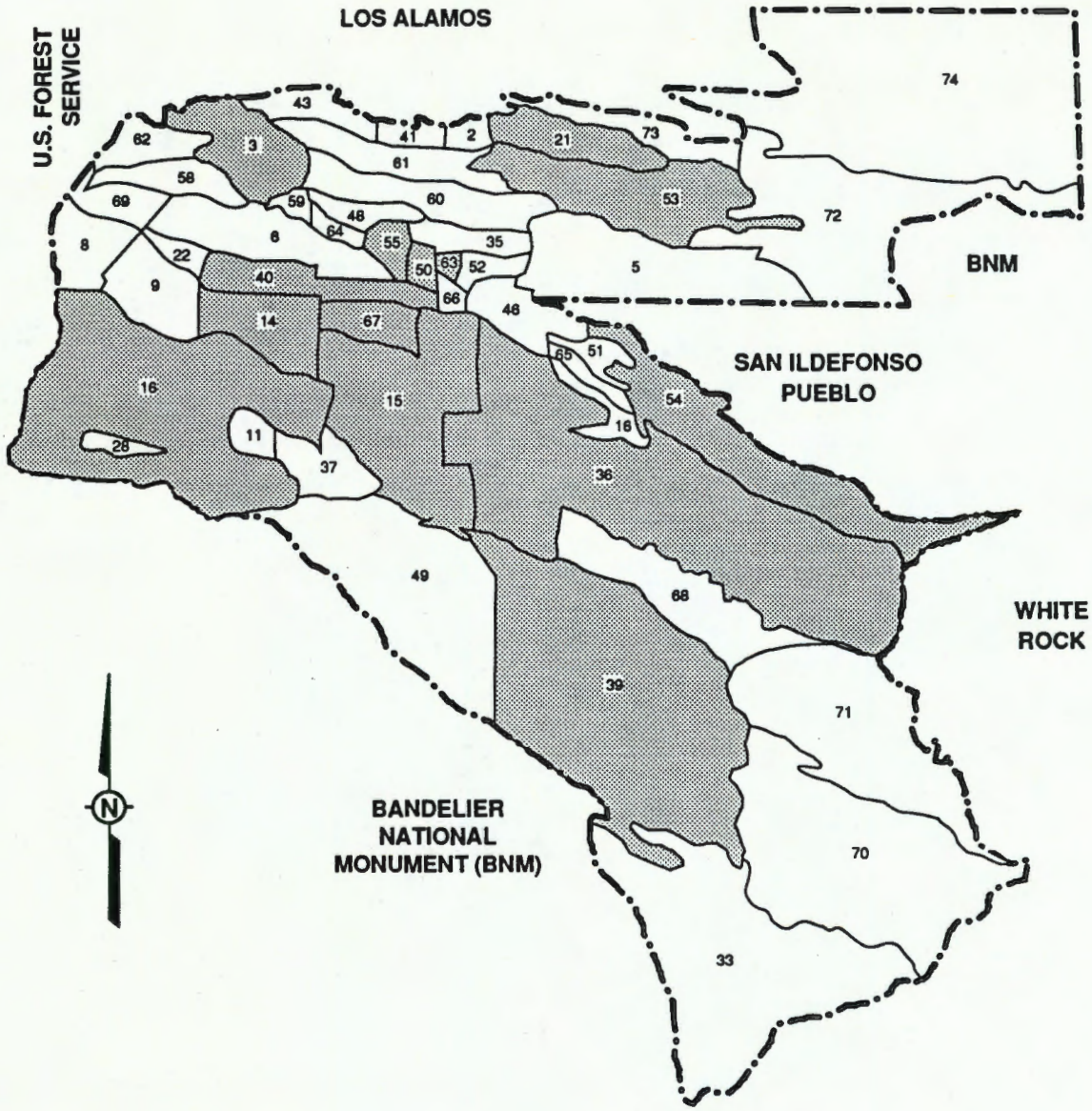
ATTACHMENT 3

FACILITY DRAWINGS

LIST OF FACILITY DRAWINGS

FIGURE NO.	TITLE
1	Location Map of Los Alamos National Laboratory Technical Areas
2	Technical Area (TA) 55 Site Location Map
3	Technical Area (TA) 55, Building 4, Basement Floor Plan
4	Technical Area (TA) 55, Building 4, First Floor Plan
5	Technical Area (TA) 55, Building 185, Floor Plan

Note: For facility drawings showing Los Alamos National Laboratory's other hazardous and mixed waste units, refer to the "RCRA Part A Permit Application for Mixed Waste, Revision 2.0," 1994, Los Alamos National Laboratory, Los Alamos, New Mexico.



Shading indicates technical areas in which hazardous waste or mixed waste units are located or planned for construction.

4800 0 4800
Scale in Feet

Modified from: "Environmental Surveillance at Los Alamos During 1992," 1994, LA-12764-ENV, Los Alamos National Laboratory, Los Alamos, New Mexico.

Figure 1
Location Map of Los Alamos National Laboratory Technical Areas

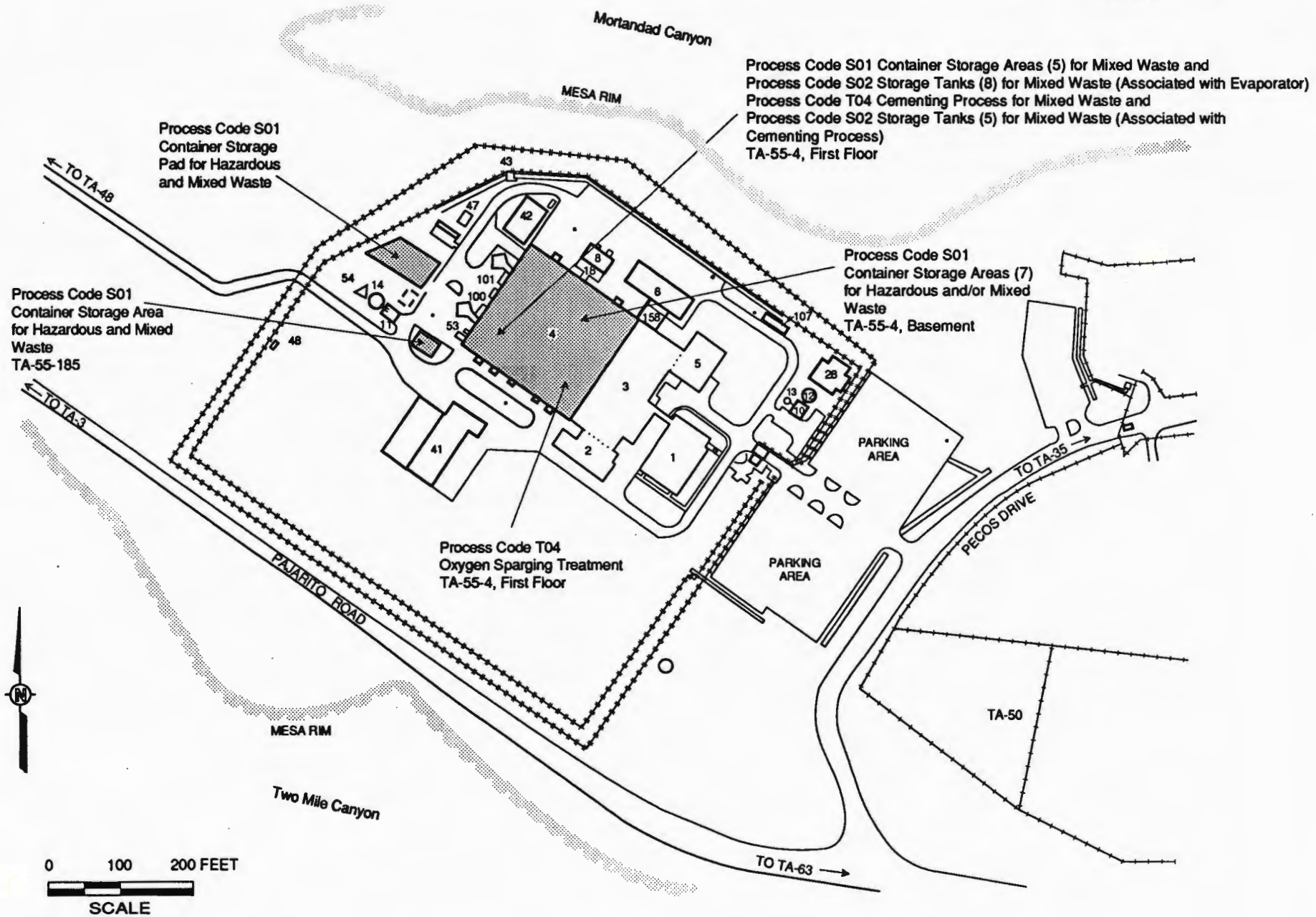


Figure 2
Technical Area (TA) 55 Site Location Map

Figure 3
Technical Area (TA) 55, Building 4, Basement Floor Plan

[This figure has been provided to the New Mexico Environment Department under separate cover as Unclassified Controlled Nuclear Information (UCNI) defined by Section 148 of the Atomic Energy Act.]

Figure 4
Technical Area (TA) 55, Building 4, First Floor Plan

[This figure has been provided to the New Mexico Environment Department under separate cover as Unclassified Controlled Nuclear Information (UCNI) defined by Section 148 of the Atomic Energy Act.]

Figure 5
Technical Area (TA) 55, Building 185, Floor Plan

[This figure has been provided to the New Mexico Environment Department under separate cover as Unclassified Controlled Nuclear Information (UCNI) defined by Section 148 of the Atomic Energy Act.]

ATTACHMENT 4

PHOTOGRAPHS

LIST OF PHOTOGRAPHS

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Technical Area 55, Building 4, Basement, Process Code S01, Container Storage Area for TRU Mixed Waste (Area 3) 4-2

Technical Area 55, Building 4, Basement, Process Code S01, Container Storage Area for Hazardous Waste and Low-Level Mixed Waste (Area 4) 4-2

Technical Area 55, Building 4, Basement, Process Code S01, Container Storage Area for Oversized Mixed Waste (Area 5) 4-3

Technical Area 55, Building 4, Basement, Process Code S01, Vault Entrance to Container Storage Area for Mixed Waste (Area 6) 4-3

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Technical Area 55, Building 4, Room 401, Process Code S02, Evaporator Bottoms Filtrate Storage Tanks (5) for Cementing Process 4-8

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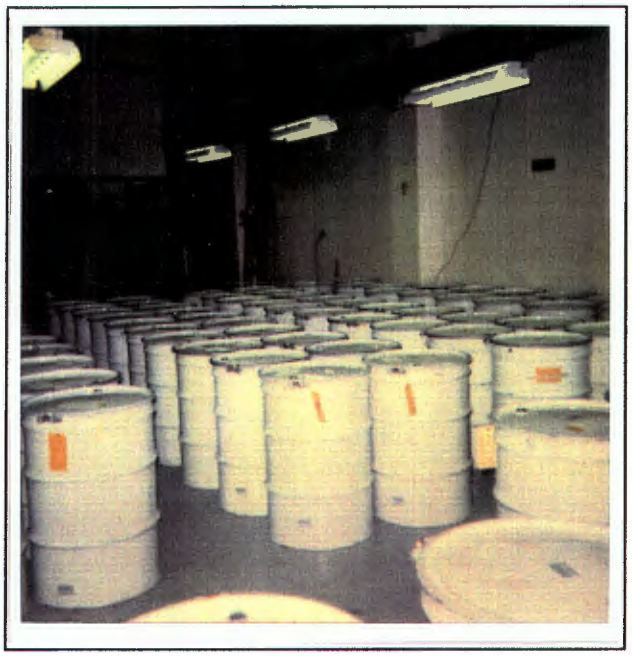
Technical Area 55, Building 4, Room 401, Process Code T04, Cementing Process Glovebox and Process Code S02, Evaporator Bottoms Filtrate Storage Tanks (5) 4-10

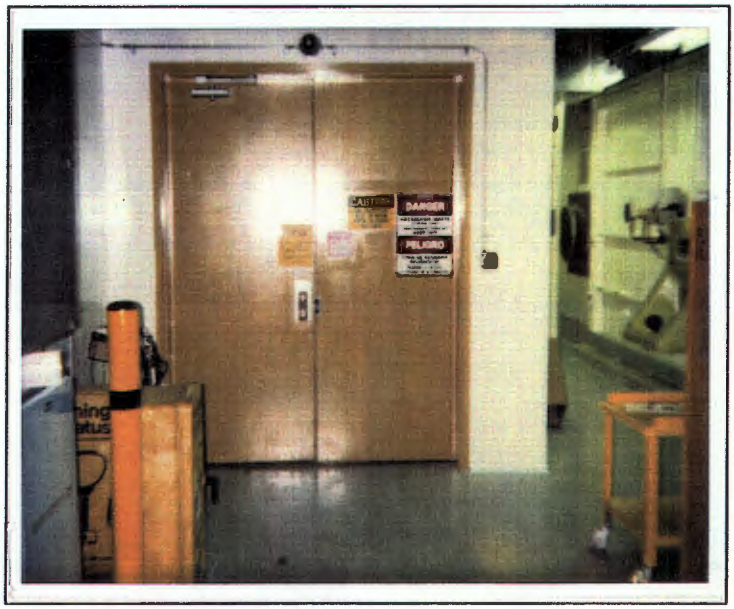
Technical Area 55, Building 4, Room 429, Process Code T04, Oxygen Sparging Furnace Glovebox 4-11

Technical Area 55, Building 4, Room 429, Process Code T04, Oxygen Sparging Furnace 4-11

Note: For photographs showing Los Alamos National Laboratory's other hazardous and mixed waste units, refer to the "RCRA Part A Permit Application for Mixed Waste, Revision 2.0," 1994, Los Alamos National Laboratory, Los Alamos, New Mexico.

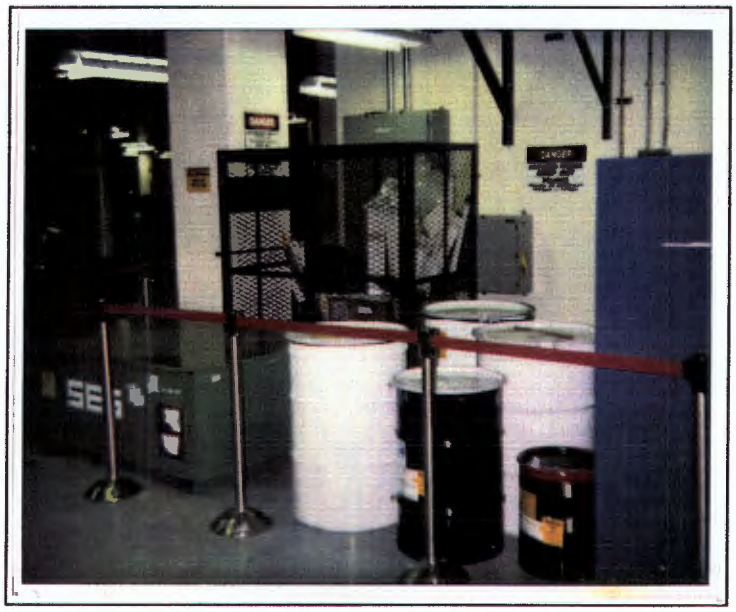


Technical Area 55, Building 4, Basement, Process Code S01, Container Storage Area for TRU Mixed Waste (Area 1)



Technical Area 55, Building 4, Basement, Process Code S01, Container Storage Area for TRU Mixed Waste (Area 2)

Technical Area 55, Building 4, Basement, Process Code S01, Container Storage Area for TRU Mixed Waste (Area 3)



Technical Area 55, Building 4, Basement, Process Code S01, Container Storage Area for Hazardous Waste and Low-Level Mixed Waste (Area 4)

Photographs

Technical Area 55, Building 4, Basement, Process Code S01, Container Storage Area for Oversized Mixed Waste (Area 5)

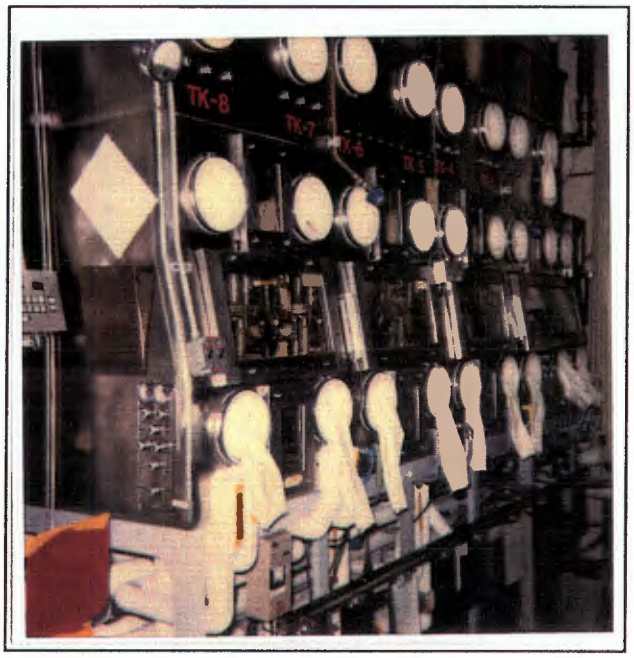
Technical Area 55, Building 4, Basement, Process Code S01, Vault Entrance to Container Storage Area (Area 6)

[These photos have been provided to the New Mexico Environment Department under separate cover as Unclassified Controlled Nuclear Information (UCNI) defined by Section 148 of the Atomic Energy Act.]

Technical Area 55, Building 4, Basement, North End, Process Code S01, Container Storage Area (Area 7)

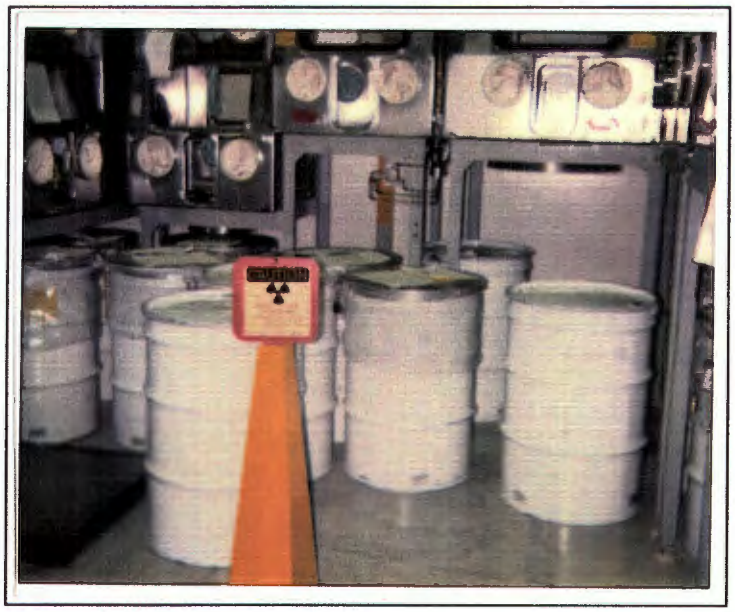
Technical Area 55, Building 4, Room 401, Process Code S01, Container Storage Area (Area 8)

Technical Area 55, Building 4, Room 401, Process Code S01, Container Storage Area (Area 9)



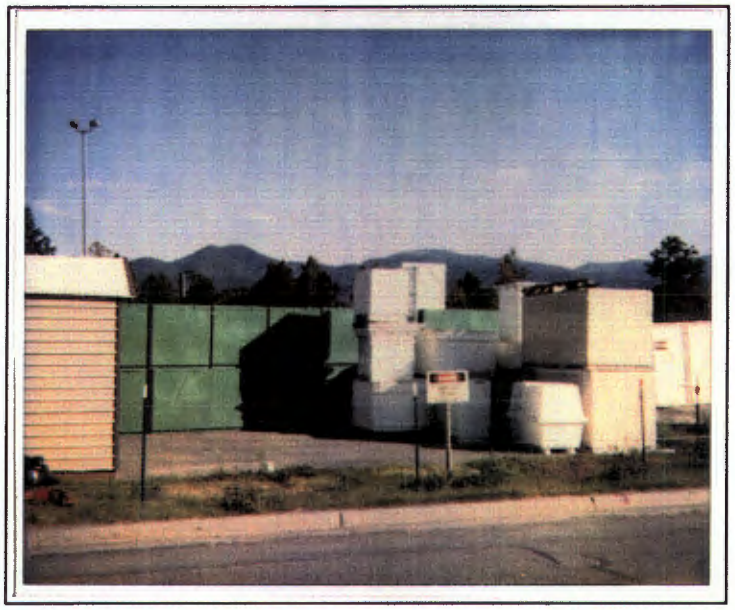
Technical Area 55, Building 4, Room 401, Process Code S01, Container Storage Area (Area 10) in Evaporator Bottoms Salt Glovebox

Technical Area 55, Building 4, Room 433, Process Code S01, Container Storage Area (Area 11)



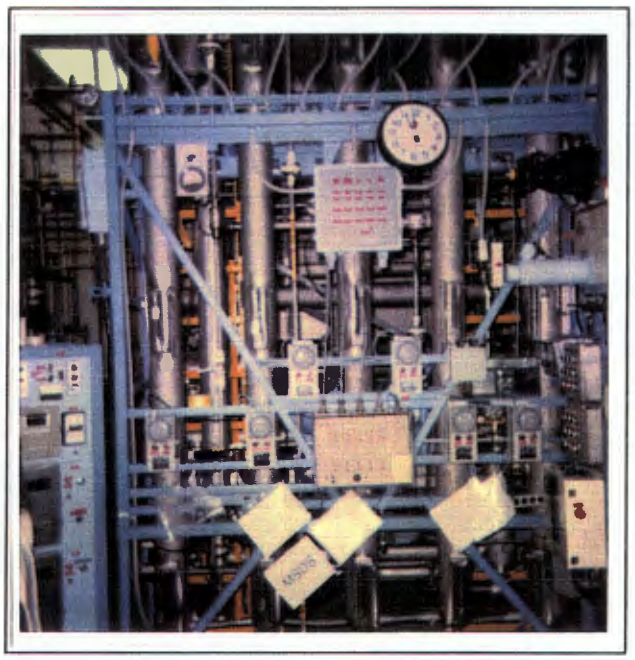
Technical Area 55, Building 4, Room 432, Process Code S01, Container Storage Area (Area 12)

Technical Area 55, Building 4, Process Code S01, Container Storage Pad

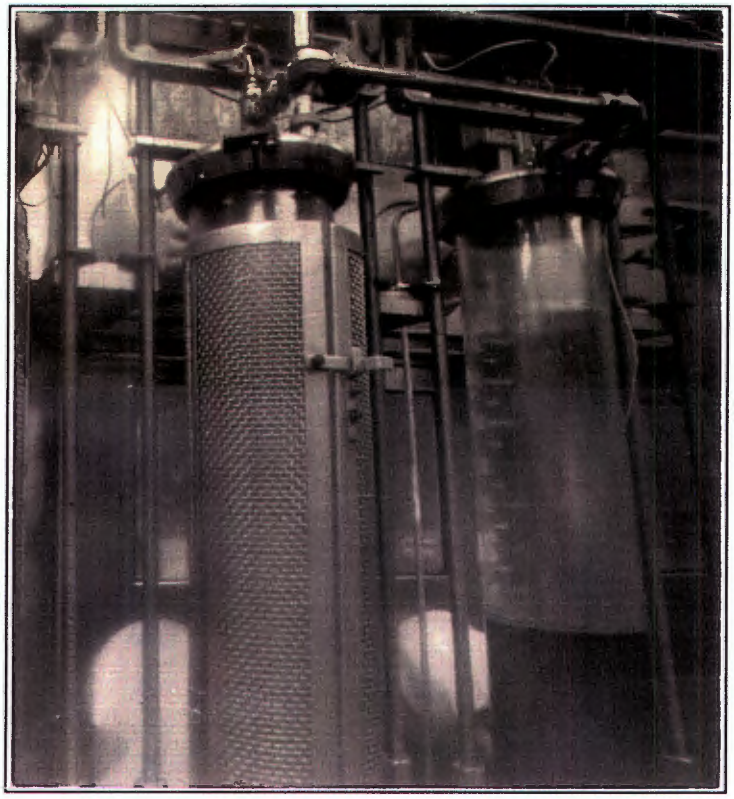


Technical Area 55, Building 4, Process Code S01, Container Storage Pad

Technical Area 55, Building 185, Process Code S01, Container Storage Area
(Container storage area will be located within the building pictured)

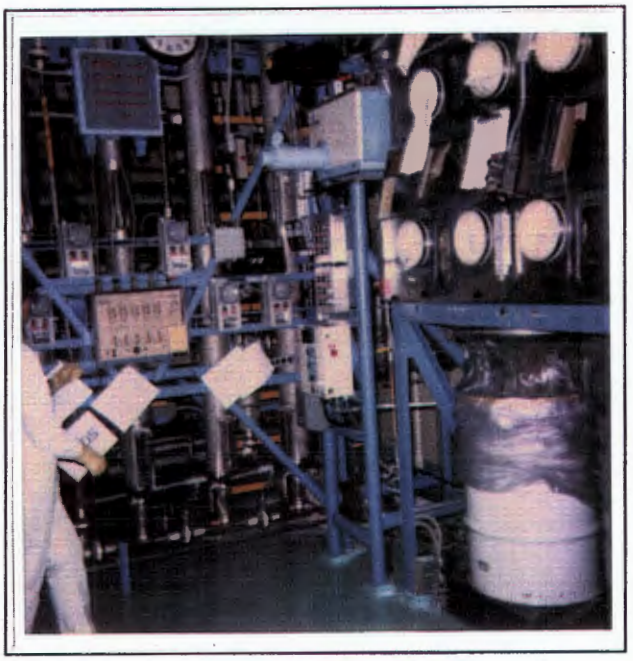


Technical Area 55, Building 4, Room 401, Process Code S02, Evaporator Bottoms Filtrate Storage Tanks (5) for Cementing Process

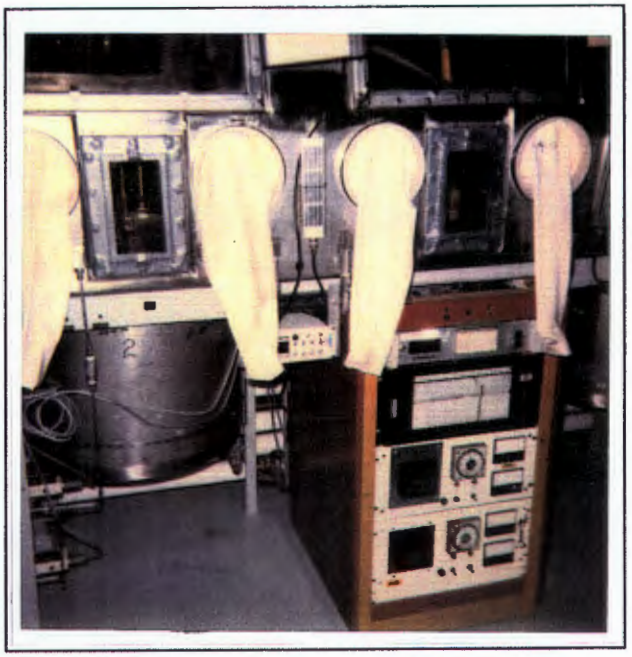


Technical Area 55, Building 4, Room 401, Process Code S02, Evaporator Bottoms Filtrate Storage Tanks in Evaporator Salt Glovebox
(Photograph represents eight tanks)

Technical Area 55, Building 4, Room 401, Process Code T04, Cementing Process Glovebox



Technical Area 55, Building 4, Room 401, Process Code T04, Cementing Process Glovebox and Process Code S02, Evaporator Bottoms Filtrate Storage Tanks (5)



Technical Area 55, Building 4, Room 429, Process Code T04, Oxygen Sparging Furnace Glovebox

Technical Area 55, Building 4, Room 429, Process Code T04, Oxygen Sparging Furnace