Department of Energy
National Nuclear Security Administration
Albuquerque Operations Office
Office of Kirtland Site Operations
P.O. Box 5400
Albuquerque, New Mexico 87185-5400

MAY 2002

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. John E. Kieling, Manager,
RCRA Permits Management Program
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Dr. East, Bldg 1
Santa Fe, NM 87505

Subject: Revised General Part A Permit Request
US Department of Energy / Sandia Corporation / Sandia National Laboratories/ New Mexico
EPA ID No. NM5890110518

Dear Mr. Kieling:

The US Department of Energy (DOE) and Sandia Corporation (Sandia) are submitting to the New Mexico Environment Division (NMED) the enclosed revised General Part A Permit Request (EPA Form 8700-23) for waste management activities regulated under New Mexico Hazardous Waste Act and the Resource Conservation and Recovery Act (RCRA) at Sandia National Laboratories/New Mexico (SNL/NM).

DOE and Sandia submitted a General Part A Permit Request (Revision 3.0) to NMED on January 31, 2002. The General Part A Permit Request included revisions to nine RCRA-regulated waste management units at SNL/NM. On March 22, NMED approved the revisions for the four units operated under interim status. The changes for the remaining five units were not approved. In the letter, NMED requested that DOE and Sandia provide a revised General Part A Permit Request that reflects only the approved changes. The attached documents are submitted in accordance with that request.

There are two documents enclosed. One is the final General Part A Permit Request (Revision 4.0). The other document is a redline/strikeout version of the document that illustrates the changes between Revision 3.0 and Revision 4.0 that were made in response to the NMED request. In general, Revision 4.0 includes the information in the

SNL 1069

current Part A or other applicable permit document for each unit, as summarized in Table 1. The individual changes are also summarized in Table 2.

If you have any questions regarding this submittal, please contact John Gould at (505) 845-6089.

Sincerely,

Michael J. Zamorski
Director

Enclosure

cc w/enclosure:
J. Estrada, OKSO-AIP
W. Moats, NMED-HWB
R. Kennett, NMED-OB
D. H. Blanton, SNL, MS 0186, 3000
E. D. Krauss, SNL, MS 0141, 11300
SNL ISS Records Center, MS 0651, 9612

cc w/o enclosure:
L. A. West, SNL, MS 1114, 3100
P. D. Yourick, SNL, MS 1050, 3120
J. J. Thompson, SNL, MS 1151, 3125
A. S. Reiser, SNL, MS 1151, 3125
M. J. Davis, SNL, MS 1087, 6132

Table 1. Effective Permit Information for RCRA-Regulated Waste Management Units at SNL/NM

Unit	Permit	Date
Hazardous Waste Management Facility	▪ RCRA Part B Operating Permit No. NM5890110518-1, as amended ▪ Part A Permit Application	▪ Issued 8/6/92 ▪ Approved 4/23/01
Thermal Treatment Facility	▪ RCRA Part B Operating Permit No. NM5890110518-2, as amended ▪ Part A Permit Application	▪ Issued 12/4/94 ▪ Approved 4/23/01
Radioactive and Mixed Waste Management Facility	General Part A Permit Request	Submitted 1/31/02 Approved 3/22/02
High Bay Waste Storage Facility	General Part A Permit Request	Submitted 1/31/02 Approved 3/22/02
Auxiliary Hot Cell Facility	General Part A Permit Request	Submitted 1/31/02 Approved 3/22/02
Manzano Storage Bunkers	General Part A Permit Request	Submitted 1/31/02 Approved 3/22/02
Corrective Action Management Unit (CAMU)	Class III Permit Modification for the Management of Hazardous Remediation Waste in the Corrective Action Management Unit, (Permit No. NM5890110518) as amended	Issued 9/25/97
Low-Temperature Thermal Desorption Unit (LTTD) at the CAMU	Temporary Authorization for Low-Temperature Thermal Desorption Unit at the CAMU	Not approved by NMED
Temporary Unit (TU) at the CAMU	Class II Permit Modification for Temporary Treatment Operations at the CAMU, (Permit No. NM5890110518) as amended	Issued 6/19/98

NOTE: Revision 4.0 of the General Part A Permit Request reflects information from the document(s) listed in Table 1 for each unit.

Table 2. Summary of Changes to Revision 3.0 of General Part A Permit Request SNL/NM

NOTE: Please refer to the redline/strikeout version of Revision 4.0 (Attachment B) to view the changes

Item	Page / Line	Action	Discussion of change from Revision 3.0
1	Cover	Changed revision number and date	Changed the revision number and date to reflect the approved Part A Permit Request.
2	List of Figures and List of Photographs	Deleted references to figures and photographs related to CAMU, LTTD, and TU	The changes to the CAMU, LTTD, and TU in Revision 3 were not approved by NMED. Previous submittals did not include Form 8700-23 for the CAMU, LTTD, or TU. All information pertaining to the CAMU, LTTD, and TU has been deleted from Revision 4.0. See Table 1 for details about effective permits for the CAMU, LTTD, and TU.
3	Form 8700-23, Page 1, Section V	Changed contact name, title, and telephone number	Revised name to reflect personnel changes.
4	Form 8700-23, Page 4, Section XII	Changed note at the top of the table	Deleted reference to CAMU, LTTD, and TU. See Item #2.
5	See Item #4	Changed total quantity in Line 1	Revised container storage capacity of the HWMF to reflect the capacity in Permit NM5890110518-1, because changes to the HWMF in Revision 3 were not approved by NMED. The permitted capacity is included in the quantity shown in Line 1. See item #18 for more detail about changes to HWMF capacity. See Table 1 for details about effective permits for the HWMF.
6	See Item #4	Deleted all information in Lines 2, 5, and 8	See Item #2. The information in these lines was related to the CAMU, the TU, and the LTTD.
7	See Item #4	Changed line number and total quantity in Line 3	Revised line number to account for deleted line. Revised quantity to correct typographical error in Revision 3.
8	See Item #4	Changed line number in Lines 4 and 6	Revised line numbers to account for deleted line(s).
9	See Item #4	Changed line number and total quantity in Line 7	Revised line number to account for deleted lines. Revised quantity to reflect the treatment capacity in current Permit NM5890110518-2, because changes to the TTF in Revision 3 were not approved by NMED. See item #19 for more detail about changes to TTF capacity. See Table 1 for details about effective permits for the TTF.
10	Form 8700-23, Page 4, Section XIII	Deleted all information in Lines 2 and 5	See Item #2. The information in these lines was related to the CAMU and the TU.
11	See Item #14	Changed line number and total quantity in Line 3: "chemical deactivation"	Revised line number to correct typographical error in Revision 3 and to reflect deleted line. Revised quantity to correct typographical error in Revision 3.
12	See Item #14	Changed line number in Line 3 "macroencapsulation", Line 3 "stabilization", and Line 4	Revised line numbers to correct typographical error in Revision 3 and to reflect deleted line.

Table 2 (cont.). Summary of Changes to Revision 3.0 of General Part A Permit Request SNL/NM

NOTE: Please refer to the redline/strikeout version of Revision 4.0 (Attachment B) to view the changes

Item	Page / Line	Action	Discussion of change from Revision 3.0
13	Form 8700-23, Pages 6a through 6o of 7, Section XIV	Added line numbers	Added line numbers to correct typographical error in Revision 3.
14	Form 8700-23, Page 6i of 7, Section XIV	Changed quantity of hazardous waste code U151in Line 268	Revised quantity of U151 to reflect the quantity in the Part A approved 4/23/01. See Table 1 for details about effective permits.
15	Form 8700-23, Page 6m of 7, Section XIV	Changed quantity of hazardous waste codes D001 and D003, Lines 400 and 402	Revised quantities of D001 and D003 to reflect the quantities in the Part A approved 4/23/01.
16	Form 8700-23, Page 6o of 7, Section XIV	Deleted all information in last line, including associated heading and footnotes	See Item #2. The information in this line and in the associated heading and footnotes was related to the CAMU, the LTTD, and the TU.
17	Appendix A, Page A-3	Changed name of item on list of active air permits and registrations	Revised name to correct typographic error in Revision 3.
18	Appendix B, Explanation of Process Code Listings and Design Capacities at the Hazardous Waste Management Facility	Changed capacities	Revised capacities to correct errors in Revision 3. Specifically: revised the total container storage capacity and the individual container storage capacities for Building 958 and Modular Storage Buildings 958B and 958C to reflect the capacities in Permit NM5890110518-1.
19	Appendix B, Explanation of Process Code Listings and Design Capacities at the Thermal Treatment Facility	Changed capacities	Revised the capacity to reflect the capacities in Permit NM5890110518-2, because changes made in Revision 3 were not approved by NMED.
20	Appendix B, Explanation of Process Code Listings and Design Capacities at the Corrective Action Management Unit (CAMU)	Deleted all information on page.	See Item #2. The information on this page was related to the CAMU, the LTTD, and the TU.
21	Appendix B, Figures B-21 and B-22	Deleted figures	See Item #2. The figures were related to the CAMU, the LTTD, and the TU.

Table 2 (cont.). Summary of Changes to Revision 3.0 of General Part A Permit Request SNL/NM

NOTE: Please refer to the redline/strikeout version of Revision 4.0 (Attachment B) to view the changes

Item	Page / Line	Action	Discussion of change from Revision 3.0
22	Appendix B, last seven photographs	Deleted photographs	See Item #2. The photographs were related to the CAMU, the LTTD, and the TU. The specific photographs were: Corrective Action Management Unit, Bulk Waste Storage Area Bays Corrective Action Management Unit, Bulk Waste Storage Area Bay 2 Corrective Action Management Unit, Sprung™ Structures Corrective Action Management Unit, Containment Cell Corrective Action Management Unit, Containment Cell Leachate Collection System Corrective Action Management Unit, Low Temperature Thermal Desorption Unit Corrective Action Management Unit, Treatment Pad.

ATTACHMENT A

General Part A Permit Request
Revision 4.0 (final)
US Department of Energy / Sandia Corporation / Sandia National Laboratories/NM
NM5890110518

LIBRARY COPY

Sandia National Laboratories

Sandia National Laboratories/New Mexico

General Part A Permit Request

Hazardous Waste Management Unit
Thermal Treatment Facility
Radioactive and Mixed Waste Management Facility
High Bay Waste Storage Facility
Auxiliary Hot Cell Facility
Manzano Storage Bunkers

Revision 4.0

May 2002

National Nuclear Security Administration

SNL 1069

Sandia National Laboratories/New Mexico General Part A Permit Renewal Request/Application

Revision 4.0

May 2002

Prepared by
Sandia National Laboratories/New Mexico
Albuquerque, New Mexico 87185

Prepared for
The U.S. Department of Energy

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Form Approved, OMB No. 2050-0034 Expires XX/XX/02
GSA No. 0248-EPA-OT

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

For EPA Regional Use Only

Date Received
Month Day Year

EPA

United States Environmental Protection Agency
Washington, DC 20460

Hazardous Waste Permit Application Part A

(Read the Instructions before starting)

I. Facility's EPA ID Number ***(Mark 'X' in the appropriate box)***

☐ **A. First Part A Submission**

[X] **B. Part A Amendment #** 3 (January 2002)

C. Facility's EPA ID Number

NM589011051 8

D. Secondary ID Number ***(if applicable)***

II. Name of Facility

SANDIA NATIONAL LABORATORIES

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

A. Street

1515 EUBANK BOULEVARD SE

Street ***(Continued)***

City or Town: ALBUQUERQUE

State: NM

Zip Code: 87123-

County Code *(If known)*:

County Name: BERNALILLO

B. Land Type (Enter code): F

C. Geographic Location
LATITUDE (Degrees, minutes, & seconds): 35 01 45 N
LONGITUDE (Degrees, minutes & seconds): 106 32 30 W

D. Facility Existence Date
Month Day Year: 09 1945

IV. Facility Mailing Address

Street or P.O. Box: PO BOX 5400 KIRTLAND SITE OPS

City or Town: ALBUQUERQUE

State: NM

Zip Code: 87185-5400

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

Name ***(Last)***: GOULD

(First): JOHN

Job Title: PHYS SCIENTIST

Phone Number ***(Area Code and Number)***: 505-845-6089

VI. Facility Contact Address ***(See Instructions)***

A. Contact Address
Location Mailing Other
X

B. Street or P.O. Box

City or Town

State

Zip Code

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

EPA ID Number *(Enter from page 1)*: NM589011051 8

Secondary ID Number *(Enter from page 1)*:

VII. Operator Information *(See Instructions)*

A. Name of Operator: SANDIA CORPORATION

Street or P.O. Box: PO BOX 5800 DEPARTMENT 3100

City or Town: ALBUQUERQUE

State: NM

Zip Code: 87185-

Phone Number *(Area Code and Number)*: 505-844-8516

B. Operator Type: O

C. Change of Operator Indicator: Yes [ ] No [X]

Date Changed Month Day Year:

VIII. Facility Owner *(See Instructions)*

A. Name of Facility's Legal Owner: US DEPARTMENT OF ENERGY

Street or P.O. Box: PO BOX 5400 KIRTLAND SITE OPS

City or Town: ALBUQUERQUE

State: NM

Zip Code: 87185-5400

Phone Number *(Area Code and Number)*: 505-845-4094

B. Owner Type: F

C. Change of Owner Indicator: Yes [ ] No [X]

Date Changed Month Day Year:

IX. NAICS Codes *(in order of significance; start in left box)*

First	92811	**Third**	
(Description) National Security		*(Description)*	
Second	54171	**Fourth**	
(Description) Research and Development in the Physical, Engineering, and Life Sciences		*(Description)*	

X. Other Environmental Permits *(See instructions)*

A. Permit Type *(Enter code)*	B. Permit Number	C. Description
		See Appendix A

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

EPA ID Number (*Enter from page 1*)	Secondary ID Number (*Enter from page 1*)
N M 5 8 9 0 1 1 0 5 1 8	

XI. Nature of Business ***(Provide a brief description)***

Sandia National Laboratories/New Mexico is a multi-program Research and Development (R&D) laboratory of the U.S. Department of Energy. Missions include R&D related to nuclear weapons, energy, and other programs of national interest.

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. Thirteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), 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.***
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 in the corresponding process code.***

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	Disposal:	
D79	Underground Injection Well Disposal	Gallons; Liters; Gallons Per Day; or Liters Per Day
D80	Landfill	Acre-feet; Hectare-meter; Acres; Cubic Meters; Hectares; Cubic Yards
D81	Land Application	Acres or Hectares
D82	Ocean Disposal	Gallons Per Day or Liters Per Day
D83	Surface Impoundment Disposal	Gallons; Liters; Cubic Meters; or Cubic Yards
D99	Other Storage	Any Unit of Measure Listed Below
	Storage:	
S01	Container	Gallons; Liters; Cubic Meters; or Cubic Yards
S02	Tank Storage	Gallons; Liters; Cubic Meters; or Cubic Yards
S03	Waste Pile	Cubic Yards or Cubic Meters
S04	Surface Impoundment Storage	Gallons; Liters; Cubic Meters; or Cubic Yards
S05	Drip Pad	Gallons; Liters; Acres; Cubic Meters; Hectares; or Cubic Yards
S06	Containment Building Storage	Cubic Yards or Cubic Meters
S99	Other Disposal	Any Unit Measure Listed Below
	Treatment:	
T01	Tank Treatment	Gallons Per Day; Liters Per Day; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; or Metric Tons Per Hour
T02	Surface Impoundment Treatment	Gallons Per Day; Liters Per Day; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; or Metric Tons Per Hour
T03	Incinerator	Short Tons Per Hour Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per Hour
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Gallons Per Day; Liters Per Hour; or Million Btu Per Hour
T80	Boiler	Gallons; Liters; Gallons Per Hour; Liters Per Hour; Btu Per Hour; or Million Btu Per Hour
T81	Cement Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per \Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
T82	Lime Kiln	
T83	Aggregate Kiln}}	
T84	Phosphate Kiln	
T85	Coke Oven	
T86	Blast Furnace	
T87	Smelting, Melting, Or Refining Furnace	Gallons Per Day; Liters Per Day, Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day, Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour, Gallons Per Hour; Liters Per Hour; or Million Btu Per Hour
T88	Titanium Dioxide Chloride Oxidation Reactor	
T89	Methane Reforming Furnace	
T90	Pulping Liquor Recovery Furnace	
T91	Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid	
T92	Halogen Acid Furnaces	
T93	Other Industrial Furnaces Listed in 40 CFR §260.10	
T94	Containment Building - Treatment	Cubic Yards; Cubic Meters; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; Gallons Per Day; Liters Per Day, Metric Tons Per Hour, or Million Btu Per Hour
	Miscellaneous (Subpart X):	
X01	Open Burning/Open Detonation	Any Unit of Measure Listed Below
X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; Kilograms Per Hour; Gallons Per Hour; Liters Per Hour; or Gallons Per Day
X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; or Million Btu Per Hour
X04	Geologic Repository	Cubic Yards; Cubic Meters; Acre-feet; Hectare-meter; Gallons; or Liters
X99	Other Subpart X	Any Unit Measure Listed Below

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
Gallons	G	Short Tons Per Hour	D	Cubic Yards	Y
Gallons Per Hour	E	Metric Tons Per Hour	W	Cubic Meters	C
Gallons Per Day	U	Short Tons Per Day	N	Acres	B
Liters	L	Metric Tons Per Day	S	Acre-feet	A
Liters Per Hour	H	Pounds Per Hour	J	Hectares	Q
Liters Per Day	V	Kilograms Per Hour	R	Hectare-meter	F
		Million Btu Per Hour	X	Btu Per Hour	I

Form Approved, OMB No. 2050-0034 Expires XX/XX/02

EPA I.D. Number *(Enter from Page 1)* Secondary ID Number *(Enter from Page 1)*

NM5890110518

XII. Process Codes and Design Capabilities *(Continued)*

***EXAMPLE FOR COMPLETING ITEM XII** (shown in line number X-1 below): A facility has a storage tank, which can hold 533.788 gallons.*

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	5 3 3 . 7 8 8	G	0 0 1	
Hazardous Waste Management Facility, Thermal Treatment Facility, Radioactive Mixed Waste Management Facility, Manzano Storage Bunkers, High Bay Waste Storage Facility, Auxiliary Hot Cell Facility, (See Appendix B for Details)								
	1	S	0	1	607,076	G	005	
	2	T	0	4	945	U	002	
	3	T	0	4	10	J	001	
	4	X	0	2	40	J	002	
	5	X	0	3	(Thermal treatment of explosive waste) 2	G	001	
	7							
	8							
	9							
1	0							

***NOTE:** If you need to list more than 13 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 "other" processes (i.e., D99, S99, T04 and X99) in Item XIII.*

XIII. Other Processes (Follow instructions from Item XII for D99, S99, T04 and X99 process codes)

Line Number (Enter # in w/XII)		2. 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	D. Description Of Process
X	1	T	0	4				In-situ Vitrification
	1	T	0	4	120	U	002	Chemical deactivation
	1	T	0	4	220	U	002	Macroencapsulation
	1	T	0	4	605	U	002	Stabilization
	2	T	0	4	10	J	001	Thermal deactivation

EPA ID Number (*Enter from page 1*)	Secondary ID Number (*Enter from page 1*)
N M 5 8 9 0 1 1 0 5 1 8	

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 possess 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. *Use additional sheet, enter line number from previous sheet, and enter additional code(s) in item XIV-E.*

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 sued 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

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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[a] (Enter code)				D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
Hazardous Waste Management Facility (HWMF), Thermal Treatment Facility, Radioactive Mixed Waste Management Facility (RMWMF), High Bay Waste Storage Facility (HBWSF), and Auxiliary Hot Cell Facility (AHCF), Manzano Storage Bunkers (MSB)[b]								
1	P001	125	K	S01				
2	P002	110	K	S01				
3	P003	110	K	S01				
4	P004	110	K	S01				
5	P005	125	K	S01				
6	P006	110	K	S01				
7	P007	110	K	S01				
8	P008	110	K	S01				
9	P009	110	K	S01				
10	P010	110	K	S01				
11	P011	125	K	S01				
12	P012	110	K	S01				
13	P013	110	K	S01				
14	P014	110	K	S01				
15	P015	110	K	S01				
16	P016	110	K	S01				
17	P017	110	K	S01				
18	P018	110	K	S01				
19	P020	110	K	S01				
20	P021	110	K	S01				
21	P022	200	K	S01				
22	P023	110	K	S01				
23	P024	110	K	S01				
24	P026	110	K	S01				
25	P027	110	K	S01				
26	P028	110	K	S01				
27	P029	1,600	K	S01				
28	P030	350	K	S01				
29	P031	110	K	S01				
30	P033	110	K	S01				

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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[a] (Enter code)				D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
31	P034	110	K	S01				
32	P036	110	K	S01				
33	P037	110	K	S01				
34	P038	110	K	S01				
35	P039	110	K	S01				
36	P040	110	K	S01				
37	P041	110	K	S01				
38	P042	110	K	S01				
39	P043	110	K	S01				
40	P044	110	K	S01				
41	P045	110	K	S01				
42	P046	110	K	S01				
43	P047	110	K	S01				
44	P048	110	K	S01				
45	P049	110	K	S01				
46	P050	110	K	S01				
47	P051	110	K	S01				
48	P054	110	K	S01				
49	P056	110	K	S01				
50	P057	110	K	S01				
51	P058	110	K	S01				
52	P059	110	K	S01				
53	P060	110	K	S01				
54	P062	110	K	S01				
55	P063	110	K	S01				
56	P064	250	K	S01				
57	P065	110	K	S01				
58	P066	110	K	S01				
59	P067	110	K	S01				
60	P068	110	K	S01				
61	P069	110	K	S01				
62	P070	110	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
63	P071	110	K	S01				
64	P072	110	K	S01				
65	P073	110	K	S01				
66	P074	110	K	S01				
67	P075	110	K	S01				
68	P076	110	K	S01				
69	P077	110	K	S01				
70	P078	130	K	S01				
71	P081	110	K	S01				
72	P082	110	K	S01				
73	P084	110	K	S01				
74	P085	110	K	S01				
75	P087	150	K	S01				
76	P088	110	K	S01				
77	P089	110	K	S01				
78	P092	110	K	S01				
79	P093	110	K	S01				
80	P094	110	K	S01				
81	P095	110	K	S01				
82	P096	110	K	S01				
83	P097	110	K	S01				
84	P098	150	K	S01				
85	P099	110	K	S01				
86	P101	110	K	S01				
87	P102	110	K	S01				
88	P103	110	K	S01				
89	P104	200	K	S01				
90	P105	110	K	S01				
91	P106	1100	K	S01				
92	P108	110	K	S01				
93	P109	110	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
94	P110	110	K	S01				
95	P111	110	K	S01				
96	P112	110	K	S01				
97	P113	150	K	S01				
98	P114	110	K	S01				
99	P115	110	K	S01				
100	P116	110	K	S01				
101	P118	110	K	S01				
102	P119	110	K	S01				
103	P120	125	K	S01				
104	P121	110	K	S01				
105	P122	110	K	S01				
106	P123	110	K	S01				
107	P127	110	K	S01				
108	P128	110	K	S01				
109	P185	110	K	S01				
110	P188	110	K	S01				
111	P189	110	K	S01				
112	P190	110	K	S01				
113	P191	110	K	S01				
114	P192	110	K	S01				
115	P194	110	K	S01				
116	P196	110	K	S01				
117	P197	110	K	S01				
118	P198	110	K	S01				
119	P199	110	K	S01				
120	P201	110	K	S01				
121	P202	110	K	S01				
122	P203	110	K	S01				
123	P204	110	K	S01				
124	P205	110	K	S01				

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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 code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
125	U001	110	K	S01				
126	U002	1,100	K	S01				
127	U003	350	K	S01				
128	U004	110	K	S01				
129	U005	110	K	S01				
130	U006	110	K	S01				
131	U007	110	K	S01				
132	U008	200	K	S01				
133	U009	110	K	S01				
134	U010	110	K	S01				
135	U011	110	K	S01				
136	U012	125	K	S01				
137	U014	110	K	S01				
138	U015	110	K	S01				
139	U016	110	K	S01				
140	U017	110	K	S01				
141	U018	110	K	S01				
142	U019	250	K	S01				
143	U020	110	K	S01				
144	U021	110	K	S01				
145	U022	110	K	S01				
146	U023	110	K	S01				
147	U024	110	K	S01				
148	U025	110	K	S01				
149	U026	110	K	S01				
150	U027	110	K	S01				
151	U028	5,100	K	S01				
152	U029	110	K	S01				
153	U030	110	K	S01				
154	U031	600	K	S01				
155	U032	600	K	S01				
156	U033	110	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
157	U034	110	K	S01				
158	U035	150	K	S01				
159	U036	600	K	S01				
160	U037	150	K	S01				
161	U038	110	K	S01				
162	U039	110	K	S01				
163	U041	110	K	S01				
164	U042	110	K	S01				
165	U043	110	K	S01				
166	U044	250	K	S01				
167	U045	125	K	S01				
168	U046	110	K	S01				
169	U047	110	K	S01				
170	U048	110	K	S01				
171	U049	110	K	S01				
172	U050	110	K	S01				
173	U051	175	K	S01				
174	U052	125	K	S01				
175	U053	110	K	S01				
176	U055	125	K	S01				
177	U056	350	K	S01				
178	U057	125	K	S01				
179	U058	110	K	S01				
180	U059	110	K	S01				
181	U060	110	K	S01				
182	U061	110	K	S01				
183	U062	110	K	S01				
184	U063	110	K	S01				
185	U064	110	K	S01				
186	U066	110	K	S01				
187	U067	125	K	S01				
188	U068	110	K	S01				

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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[4] (Enter code)				D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
189	U069	200	K	S01				
190	U070	150	K	S01				
191	U071	110	K	S01				
192	U072	110	K	S01				
193	U073	110	K	S01				
194	U074	110	K	S01				
195	U075	300	K	S01				
196	U076	110	K	S01				
197	U077	300	K	S01				
198	U078	150	K	S01				
199	U079	150	K	S01				
200	U080	1,100	K	S01				
201	U081	110	K	S01				
202	U082	110	K	S01				
203	U083	110	K	S01				
204	U084	110	K	S01				
205	U085	110	K	S01				
206	U086	110	K	S01				
207	U087	110	K	S01				
208	U088	110	K	S01				
209	U089	110	K	S01				
210	U090	110	K	S01				
211	U091	110	K	S01				
212	U092	110	K	S01				
213	U093	110	K	S01				
214	U094	110	K	S01				
215	U095	110	K	S01				
216	U096	110	K	S01				
217	U097	110	K	S01				
218	U098	110	K	S01				
219	U099	110	K	S01				

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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 code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
220	U101	110	K	S01				
221	U102	120	K	S01				
222	U103	110	K	S01				
223	U105	110	K	S01				
224	U106	110	K	S01				
225	U107	150	K	S01				
226	U108	150	K	S01				
227	U109	110	K	S01				
228	U110	110	K	S01				
229	U111	110	K	S01				
230	U112	1,100	K	S01				
231	U113	110	K	S01				
232	U114	110	K	S01				
233	U115	110	K	S01				
234	U116	110	K	S01				
235	U117	130	K	S01				
236	U118	110	K	S01				
237	U119	110	K	S01				
238	U120	110	K	S01				
239	U121	300	K	S01				
240	U122	600	K	S01				
241	U123	135	K	S01				
242	U124	110	K	S01				
243	U125	110	K	S01				
244	U126	110	K	S01				
245	U127	110	K	S01				
246	U128	110	K	S01				
247	U129	110	K	S01				
248	U130	110	K	S01				
249	U131	150	K	S01				
250	U132	125	K	S01				

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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 code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
251	U133	350	K	S01				
252	U134	2,100	K	S01				
253	U135	175	K	S01				
254	U136	110	K	S01				
255	U137	110	K	S01				
256	U138	110	K	S01				
257	U140	150	K	S01				
258	U141	110	K	S01				
259	U142	110	K	S01				
260	U143	110	K	S01				
261	U144	400	K	S01				
262	U145	110	K	S01				
263	U146	110	K	S01				
264	U147	200	K	S01				
265	U148	110	K	S01				
266	U149	110	K	S01				
267	U150	110	K	S01				
268	U151	1,400	K	S01				
269	U152	110	K	S01				
270	U153	110	K	S01				
271	U154	600	K	S01				
272	U155	110	K	S01				
273	U156	110	K	S01				
274	U157	110	K	S01				
275	U158	125	K	S01				
276	U159	225	K	S01				
277	U160	150	K	S01				
278	U161	150	K	S01				
279	U162	200	K	S01				
280	U163	110	K	S01				
281	U164	110	K	S01				
282	U165	1,100	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
283	U166	110	K	S01				
284	U167	110	K	S01				
285	U168	110	K	S01				
286	U169	300	K	S01				
287	U170	110	K	S01				
288	U171	125	K	S01				
289	U172	110	K	S01				
290	U173	110	K	S01				
291	U174	110	K	S01				
292	U176	110	K	S01				
293	U177	150	K	S01				
294	U178	150	K	S01				
295	U179	200	K	S01				
296	U180	200	K	S01				
297	U181	150	K	S01				
298	U182	125	K	S01				
299	U183	125	K	S01				
300	U184	125	K	S01				
301	U185	125	K	S01				
302	U186	150	K	S01				
303	U187	110	K	S01				
304	U188	125	K	S01				
305	U189	110	K	S01				
306	U190	110	K	S01				
307	U191	110	K	S01				
308	U192	110	K	S01				
309	U193	110	K	S01				
310	U194	110	K	S01				
311	U196	125	K	S01				
312	U197	110	K	S01				
313	U200	110	K	S01				
314	U201	125	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
315	U202	110	K	S01				
316	U203	110	K	S01				
317	U204	125	K	S01				
318	U205	110	K	S01				
319	U206	110	K	S01				
320	U207	110	K	S01				
321	U208	110	K	S01				
322	U209	120	K	S01				
323	U210	125	K	S01				
324	U211	200	K	S01				
325	U213	450	K	S01				
326	U214	110	K	S01				
327	U215	110	K	S01				
328	U216	110	K	S01				
329	U217	110	K	S01				
330	U218	110	K	S01				
331	U219	125	K	S01				
332	U220	600	K	S01				
333	U221	110	K	S01				
334	U222	110	K	S01				
335	U223	1,100	K	S01				
336	U225	150	K	S01				
337	U226	4,100	K	S01				
338	U227	1,600	K	S01				
339	U228	1,100	K	S01				
340	U234	110	K	S01				
341	U235	110	K	S01				
342	U236	110	K	S01				
343	U237	110	K	S01				
344	U238	110	K	S01				
345	U239	350	K	S01				
346	U240	110	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
347	U243	110	K	S01				
348	U244	110	K	S01				
349	U246	110	K	S01				
350	U247	110	K	S01				
351	U248	110	K	S01				
352	U249	110	K	S01				
353	U271	110	K	S01				
354	U278	110	K	S01				
355	U279	110	K	S01				
356	U280	110	K	S01				
357	U328	110	K	S01				
358	U353	110	K	S01				
359	U359	200	K	S01				
360	U364	110	K	S01				
361	U367	110	K	S01				
362	U372	110	K	S01				
363	U373	110	K	S01				
364	U387	110	K	S01				
365	U389	110	K	S01				
366	U394	110	K	S01				
367	U395	110	K	S01				
368	U404	110	K	S01				
369	U409	110	K	S01				
370	U410	110	K	S01				
371	U411	110	K	S01				
372	F001	265,000	K	S01	T04	X02	X03	
373	F002	272,000	K	S01	T04	X02	X03	
374	F003	275,000	K	S01	T04	X02	X03	
375	F004	1,500	K	S01	T04	X02	X03	
376	F005	262,000	K	S01	T04	X02	X03	
377	F006	200	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
378	F007	6,500	K	S01				
379	F008	200	K	S01				
380	F009	200	K	S01				
381	F010	200	K	S01				
382	F011	200	K	S01				
383	F012	100	K	S01				
384	F019	100	K	S01				
385	F020	100	K	S01				
386	F021	100	K	S01				
387	F022	100	K	S01				
388	F023	100	K	S01				
389	F024	100	K	S01				
390	F025	100	K	S01				
391	F026	100	K	S01				
392	F027	150	K	S01				
393	F028	100	K	S01				
394	FO32	100	K	S01				
395	F034	100	K	S01				
396	F035	100	K	S01				
397	F037	100	K	S01				
398	F038	100	K	S01				
399	F039	250,000	K	S01	T04			
400	D001	125,500	K	S01	T04	X02	X03	
401	D002	58,000	K	S01	T04	X02		
402	D003	41,000	K	S01	T04	X03		
403	D004	39,000	K	S01	T04	X02		
404	D005	48,000	K	S01	T04	X02		
405	D006	105,000	K	S01	T04	X02		
406	D007	66,000	K	S01	T04	X02		
407	D008	125,000	K	S01	T04	X02		
408	D009	40,000	K	S01	T04	X02		
409	D010	2,000	K	S01	T04	X02		

EPA I.D. Number *(Enter from Page 1)* Secondary ID Number *(Enter from Page 1)*

NM5890110518

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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
410	D011	45,000	K	S01	T04	X02	X03	
411	D012	25,050	K	S01				
412	D013	150	K	S01				
413	D014	150	K	S01				
414	D015	150	K	S01				
415	D016	150	K	S01				
416	D017	150	K	S01				
417	D018	32,000	K	S01	T04	X02		
418	D019	25,200	K	S01	T04	X02		
419	D020	25,050	K	S01	T04	X02		
420	D021	25,100	K	S01	T04	X02		
421	D022	26,000	K	S01	T04	X02		
422	D023	25,050	K	S01	T04	X02		
423	D024	25,050	K	S01	T04	X02		
424	D025	25,050	K	S01	T04	X02		
425	D026	25,100	K	S01	T04	X02		
426	D027	25,100	K	S01	T04	X02		
427	D028	26,000	K	S01	T04	X02		
428	D029	25,100	K	S01	T04	X02		
429	D030	25,500	K	S01	T04	X02		
430	D031	25,050	K	S01	T04	X02		
431	D032	25,100	K	S01	T04	X02		
432	D033	25,100	K	S01	T04	X02		
433	D034	25,500	K	S01	T04	X02		
434	D035	40,000	K	S01	T04	X02		
435	D036	25,100	K	S01	T04	X02		
436	D037	25,100	K	S01	T04	X02		
437	D038	25,100	K	S01	T04	X02		
438	D039	27,000	K	S01	T04	X02		
439	D040	30,000	K	S01	T04	X02		
440	D041	25,050	K	S01	T04	X02		
441	D042	25,050	K	S01	T04	X02		

EPA I.D. Number *(Enter from Page 1)* Secondary ID Number *(Enter from Page 1)*

NM5890110518

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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
442	D038	25,100	K	S01	T04	X02		
443	D039	27,000	K	S01	T04	X02		
444	D040	30,000	K	S01	T04	X02		
445	D041	25,050	K	S01	T04	X02		
446	D042	25,050	K	S01	T04	X02		
447	D043	25,050	K	S01	T04	X02		

Notes for wastes described above:

[a] A waste carrying a particular EPA Hazardous Waste No. may be treated using any one or a combination, as appropriate, of the listed process codes. Multiple treatment process codes listed for one EPA Hazardous Waste No. do not imply a treatment train.

[b] Remediation wastes are generated during site investigations and corrective actions conducted under the SNL/NM Environmental Restoration (ER) Project. Remediation wastes that are managed through the HWMF, RMWMF, HBWSF, AHCF, and MSB are characterized to determine whether they are RCRA-regulated wastes. The waste codes and volumes of these remediation wastes are included in the totals in Column B. Estimated Annual Quantity of Waste.

EPA ID Number (*Enter from page 1*)	Secondary ID Number (*Enter from page 1*)
N M 5 8 9 0 1 1 0 5 1 8	

XV. Map

Attach to this application a topographic map, or other equivalent 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. **See Figure B-1**

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (See instructions for more detail). **See Appendix B**

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). **See Appendix B**

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 infomration, the information submitted is, to 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 5/23/02
Name and Official Title (Type or print) Michael Zamorski, Area Manager, DOE/OKSO	
Owner Signature	Date Signed
Name and Official Title (Type or print)	
Co-Operator Signature	Date Signed 5/23/02
Name and Official Title (Type or print) Michael Zamorski, Area Manager, DOE/OKSO	
Co-Operator Signature	Date Signed 5/21/02
Name and Official Title (Type or print) Donald H. Blanton, Vice President, Human Resources and Protection Services, Sandia Corporation	

XIX. Comments

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

APPENDIX A

ACTIVE ENVIRONMENTAL PERMITS

Sandia National Laboratories/New Mexico
Active Environmental Permits as of 01/22/02

Permit Type and/or Facility Name	Permit Number	Issue Date	Expiration Date	Regulatory Agency
SEWER WASTEWATER				
General	2069 A-5	01/3/00	06/30/03	COA
General	2069 F-5	01/3/00	06/30/03	COA
Microelectronics Development Laboratory	2069 G-4	07/1/98	05/31/02	COA
General	2069 I-4	01/24/00	01/31/04	COA
General	2069 K-3	07/1/98	02/28/02	COA
SURFACE DISCHARGE				
Pulsed Power Development Facilities (Discharge Plan)	DP-530	09/21/01	09/21/06	NMED
UNDERGROUND STORAGE TANKS				
9,730 gal emergency generator fuel		07/1/00	06/30/01[a]	NMED, UST Bur.
20,000 gal oil storage tank		07/1/00	06/30/01[a]	NMED, UST Bur.
20,000 gal oil storage tank		07/1/00	06/30/01[a]	NMED, UST Bur.
STORM WATER				
National Pollution Discharge Elimination System "Multi-sector General" Permit	NMR05A960	12/00	09/30/05	EPA
Storm Drain, Sanitary Sewer, and Domestic Water System Modernization	NMR10B507	06/29/99	06/31/03 (estimated date)	EPA
ECOLOGICAL				
New Mexico Department of Game and Fish for Scientific/Educational Purposes Authorization for Taking of Protected Wildlife	2931	01/1/01	12/31/01[a]	New Mexico Department of Game and Fish
Fish and Wildlife Special Purpose Salvage Permit (for migratory birds)		05/30/01	12/31/03	U.S. Fish and Wildlife Service

NOTE:

[a]Applied for permit renewal; not yet received.
COA = City of Albuquerque
NMED = New Mexico Environment Department
EPA = U.S. Environmental Protection Agency
UST Bur. = Underground Storage Tank Bureau

Sandia National Laboratories/New Mexico
Active Environmental Permits as of 01/22/02
(Continued)

Permit Type and/or Facility Name	Permit Number	Issue Date	Expiration Date	Regulatory Agency
RCRA				
"RCRA Part B Operating Permit" for the Hazardous Waste Management Facility Module I - General Permit Conditions Module II - General Facility Conditions Module III - Containers	NM5890110518-1	08/6/92	08/06/02	NMED
"RCRA Part B Operating Permit" Module IV - Hazardous and Solid Waste Amendments Portion for Solid Waste Management Units	NM5890110518-1	08/26/93	09/20/02	EPA/NMED
"RCRA Part B Operating Permit" for the Thermal Treatment Facility Module I - General Permit Conditions Module II - General Facility Conditions Module III - Containers	NM5890110518-2	12/4/94	12/4/04	NMED
"RCRA Part A and B Permit Applications for Hazardous Waste Management Units" For the hazardous component in mixed waste stored and/or treated at three waste management areas.	NM5890110518	Interim status first submitted 8/90; Rev. 3, 11/96	Pending Review[b] (No expiration date)	NMED
Class III Permit Modification for the Management of Hazardous Remediation Waste in the Corrective Action Management Unit (CAMU), Technical Area III	NM5890110518	09/25/97	09/20/02	EPA/NMED
Class II Permit Modification for Temporary Treatment Operations at the CAMU	NM5890110518	06/19/98	One year after TU is ready for operation	EPA/NMED
Temporary Authorization for Low Temperature Thermal Desorption Unit at the CAMU	NM5890110518	08/03/98	6 months after the start of operations	NMED
TSCA				
Risk-Based Approval for Cleanup of the Chemical Waste Landfill		Notification 12/98	No expiration date	EPA Region 6
Storage of Soils Containing Polychlorinated Biphenyls (PCBs) at Regulated Levels		04/28/00 and 05/22/01	Storage period extended pending EPA decision on 40 CFR 761.61(c) request	EPA Region 6
Risk-Based Approval Request under 40 CFR 761.61(c); Risk-Based Method for Management of PCB Materials; Chemical Waste Landfill and CAMU		Pending		EPA Region 6

NOTE:

[b]Submitted and awaiting agency review.
EPA = U.S. Environmental Protection Agency
NMED = New Mexico Environment Department
RCRA = Resource Conservation and Recovery Act
TSCA = Toxic Substances Control Act

Sandia National Laboratories/New Mexico
Active Environmental Permits as of 01/22/02
(Continued)

Permit Type and/or Facility Name	Permit Number	Issue Date	Expiration Date	Regulatory Agency
Open Burn Permits				
Fire Extinguisher (Fire Training)		[c]		COA
Burn Site (Building 9830)		[c]		COA
Burn Site/Sled Track (Wood Crib Fire Tests)		[c]		COA
Burn Site (Large Pool Fire Tests)		[c]		COA
185' Drop Tower (Alternative Fuel Tanks)		[c]		COA
Explosive Testing (Thermite Applications)		[c]		COA
9920 and Sled Track (Explosive Testing)		[c]		COA
Thermal Treatment Facility (permit must be submitted to NMED within 30 days of receipt)	76-OB-1-2002	01/8/02	12/31/02	COA
AIR (Permits & Registrations)				
Hammermill Facility	144	08/28/85	Biennial update	COA
Fire Laboratory used for the Authentication of Modeling and Experiments	196	5/19/88	Registration[†]	COA
Neutron Generator Facility	374- MI	7/17/98	Biennial update	COA
Neutron Generator Recertification	396	5/7/96	Registration[†]	COA
Standby diesel generators (four)	402 (old 150)	5/07/96	Biennial update	COA
Radioactive & Mixed Waste Management Facility	415- M1	11/24/99	Biennial update	COA
Isotope Production Facility (Hot Cell Facility)	428	7/08/96	Biennial update	COA
Title V Operating Permit	515 (pending)	Submitted[b] 3/1/96	Pending (5 yr renewal)	COA
Classified Waste Landfill	560	12/17/96	Biennial update	COA
Classified Waste Landfill	NESHAP	06/96	Approval[††]	EPA, Region 6
Advanced Manufacturing Processes Laboratory	646	1/23/97	Biennial update	COA
Portable Burn Pools	647	5/5/97	Biennial update	COA
Chemical Waste Landfill -Voluntary Corrective Measure	648	5/23/97	Registration[†]	COA
Soil Washing / Soil Stabilization Unit, CAMU and Low Temperature Thermal Desorption Unit	888	4/20/98	Biennial update	COA
Emergency Generator	924	5/5/98	Biennial update	COA
Processing and Environmental Technology Laboratory	925	5/5/98	Biennial update	COA

NOTE:

[†]Registration = Certificate, no permit required.
[††] Approval = EPA does not issue a permit.
[a]Applied for permit renewal; not yet received
[b]Submitted and awaiting agency review.
[c]Sandia/DOE has applied for this permit for calendar year 2002. The City of Albuquerque has not yet issued the permit.
EPA = U.S. Environmental Protection Agency

APPENDIX B

LOCATION-SPECIFIC PROCESS CODE LISTINGS, DESIGN CAPACITIES, FIGURES, AND PHOTOGRAPHS

LOCATION-SPECIFIC PROCESS CODE LISTINGS AND DESIGN CAPACITIES

Explanation of Process Code Listings and Design Capacities at the Hazardous Waste Management Facility

Description	Capacity	Associated Structure/Building
Line 1 S01 Container Storage		
Container storage area	99,950 gallons	Building 958
Container storage area	7,590 gallons	Building 959
Container storage area	5,005 gallons	Modular Storage Building 958B
Container storage area	5,005 gallons	Modular Storage Building 958C
Total S01	**117,550 gallons**	

Explanation of Process Code Listings and Design Capacities at the Thermal Treatment Facility

Description	Capacity	Associated Structure/Building
Line 5 X03 Treatment: Thermal		
Thermal treatment of explosive waste	2 gallons/batch 20 pounds/batch	South of Building 6715
Total X03	**2 gallons/batch** **20 pounds /batch**	

Explanation of Process Code Listings and Design Capacities at the Radioactive and Mixed Waste Management Facility

Description	Capacity	Associated Structure/Building
Line 1 S01 Container Storage		
Container storage area	13,420 gallons	Building 6920
Container storage area	7,810 gallons	Building 6921
Container storage area	83,160 gallons	Building 6925
Container storage area	83,160 gallons	Building 6926
Container storage area	1,100 gallons	Modular Storage Building
Container storage area	1,100 gallons	Modular Storage Building
Container storage area	19,800 gallons	Asphalt area N, E, and W of Building 6920
Total S01	**209,550 gallons**	
Line 3 T04 Other Treatment		
Chemical deactivation	65 gallons/day	Building 6920, Building 6921
Macroencapsulation	165 gallons/day	Building 6920, Building 6921
Stabilization	550 gallons/day	Building 6920, Building 6921
Thermal deactivation	10 pounds/hour	Building 6920
Total T04	**780 gallons/day and 10 pounds/hour**	
Line 4 X02 Mechanical Processing		
Mechanical processing	20 pounds/hour	Building 6920
Total X02	**20 pounds/hour**	

Explanation of Process Code Listings and Design Capacities at the High Bay Waste Storage Facility

Description	Capacity	Associated Structure/Building
Line 1 S01 Container Storage		
Container storage area	100,320 gallons	Building 6596
Total S01	**100,320 gallons**	

Explanation of Process Code Listings and Design Capacities at the Auxiliary Hot Cell Facility

Description	Capacity	Associated Structure/Building
Line 1 S01 Container Storage		
Container storage area	2,200 gallons	Building 6597
Storage silos	1,456 gallons	Building 6597
Total S01	**3,656 gallons**	
Line 2 T04 Other Treatment		
Chemical deactivation	55 gallons/day	Building 6597
Macroencapsulation	55 gallons/day	Building 6597
Stabilization	55 gallons/day	Building 6597
Total T04	**165 gallons/day**	
Line 4 X02 Mechanical Processing		
Mechanical processing	20 pounds/hour	Building 6597
Total X02	**20 pounds/hour**	

Explanation of Process Code Listings and Design Capacities at the Manzano Storage Bunkers

Description	Capacity	Associated Structure/Building
Line 1 S01 Container Storage		
Container storage area	50,160 gallons	Type B Bunkers Bunkers 37034 and 37063
Container storage area	70,400 gallons	Type C Bunkers Bunkers 37078 and 37118
Container storage area	55,440 gallons	Type D Bunkers Bunkers 37045, 37055, and 37057
Total S01	**176,000 gallons**	

FIGURES

TO VIEW THE MAP/MAPS ASSOCIATED WITH THIS DOCUMENT PLEASE CALL THE HAZARDOUS WASTE BUREAU AT 505-476-6000 TO MAKE AN APPOINTMENT

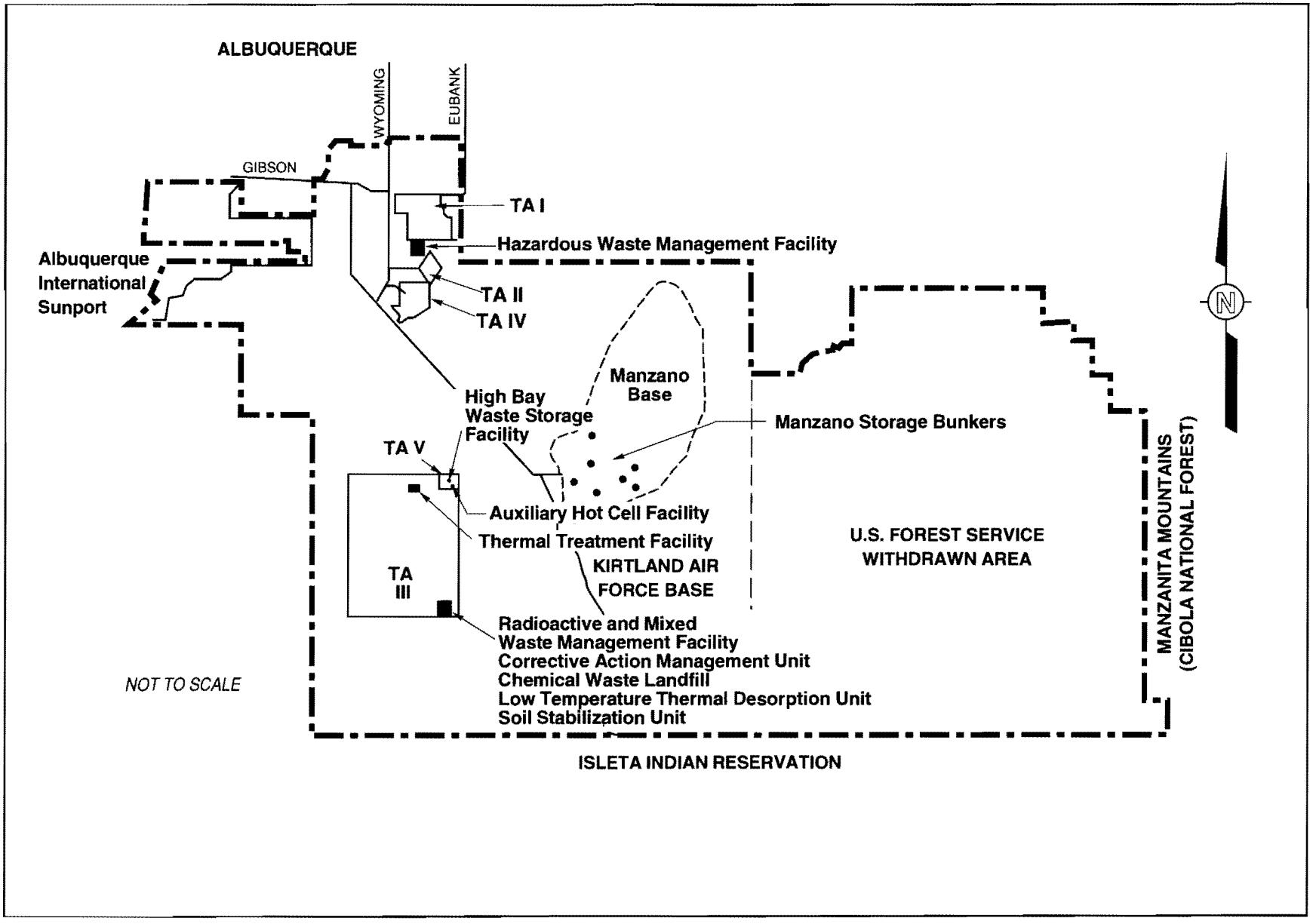


Figure B-2

Sandia National Laboratories/New Mexico, Technical Areas (TAs) and Resource Conservation and Recovery Act-Regulated Waste Management Units

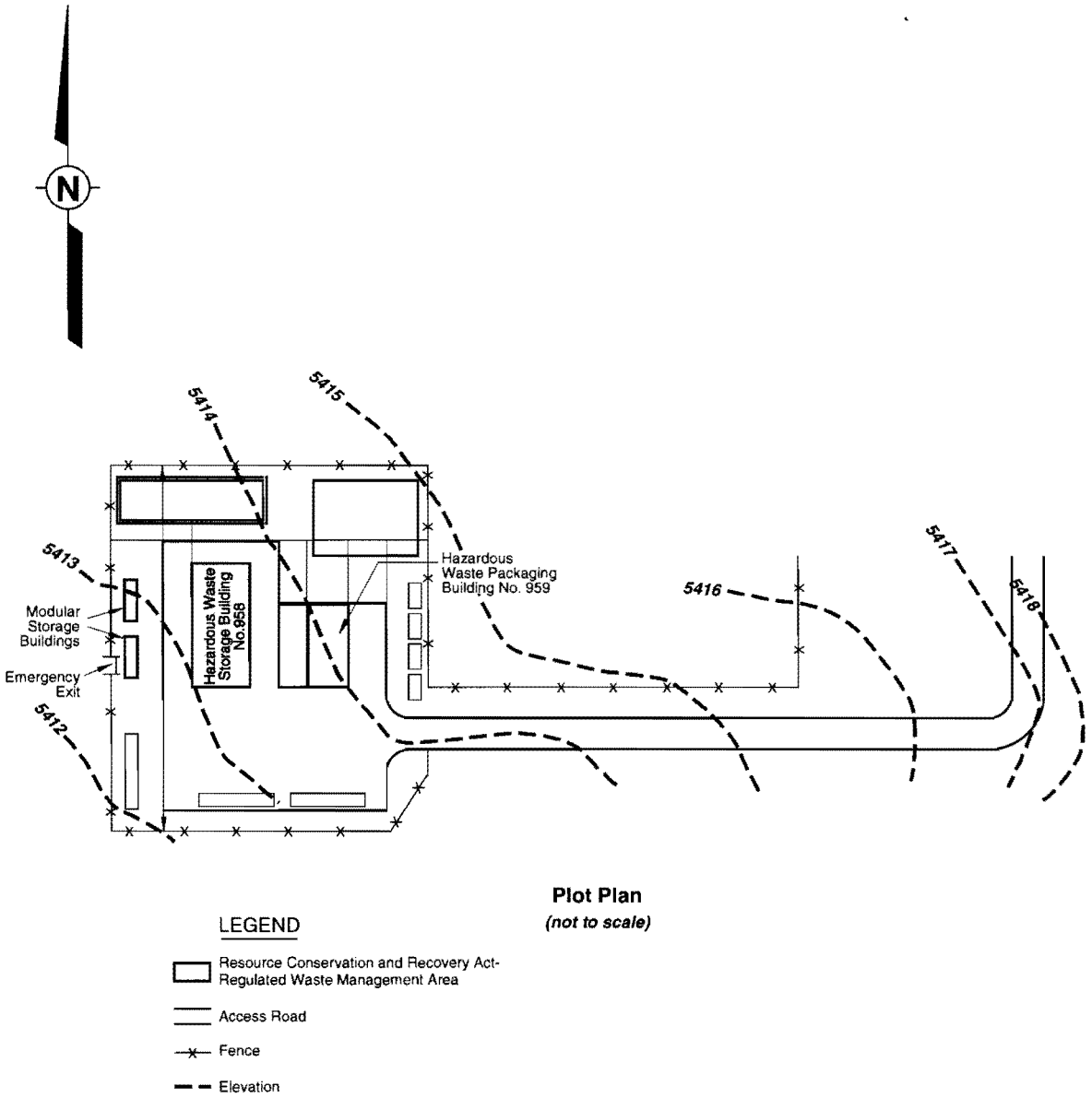
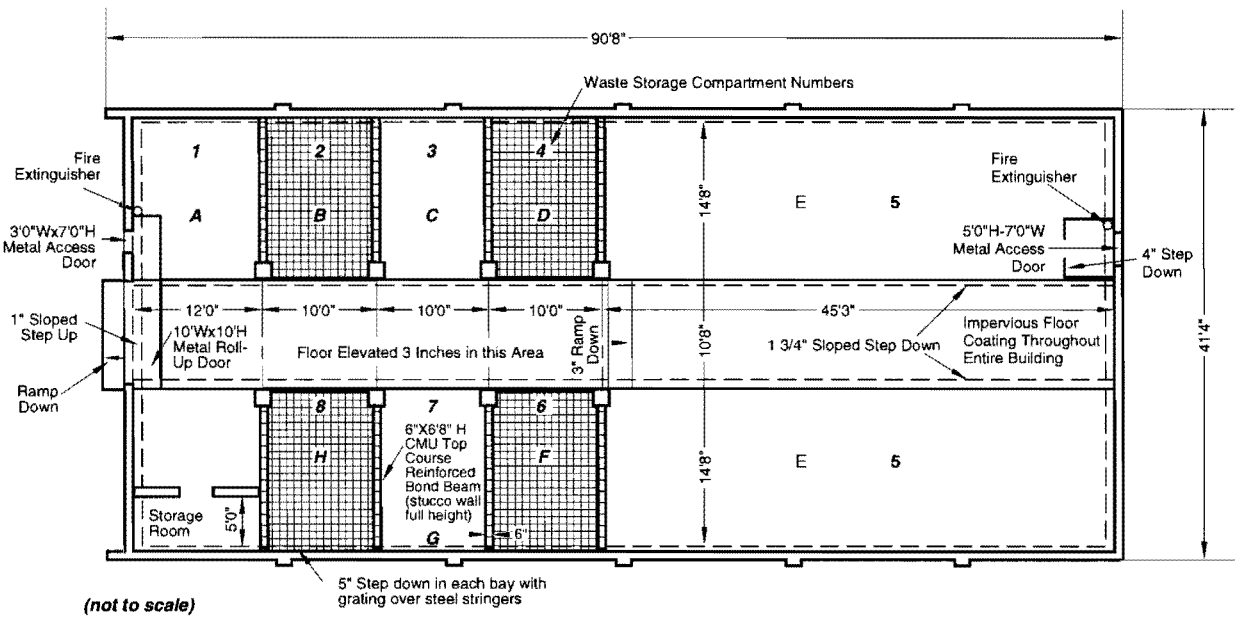


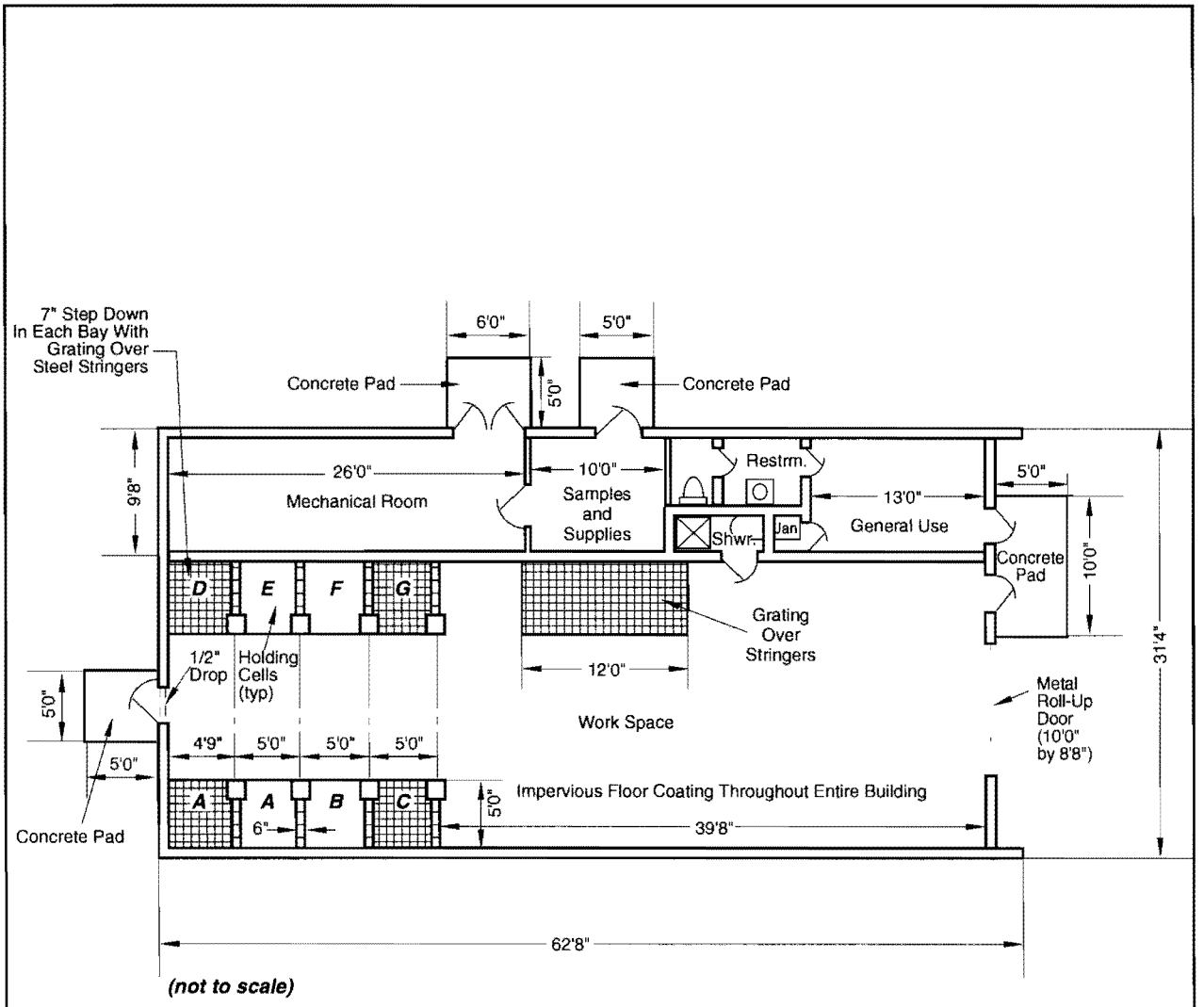
Figure B-3
Hazardous Waste Management Facility, Resource Conservation and Recovery Act-Regulated Waste Management Areas



Typical Waste Segregation Groups

- A Holding Bay
- B Poisons
- C Flammables
- D Oxidizers
- E Hydrocarbons, Organics, Solvents, Non-Regulated Wastes
- F Corrosives (caustics)
- G Corrosives (acids or caustics)
- H Corrosives (acids)

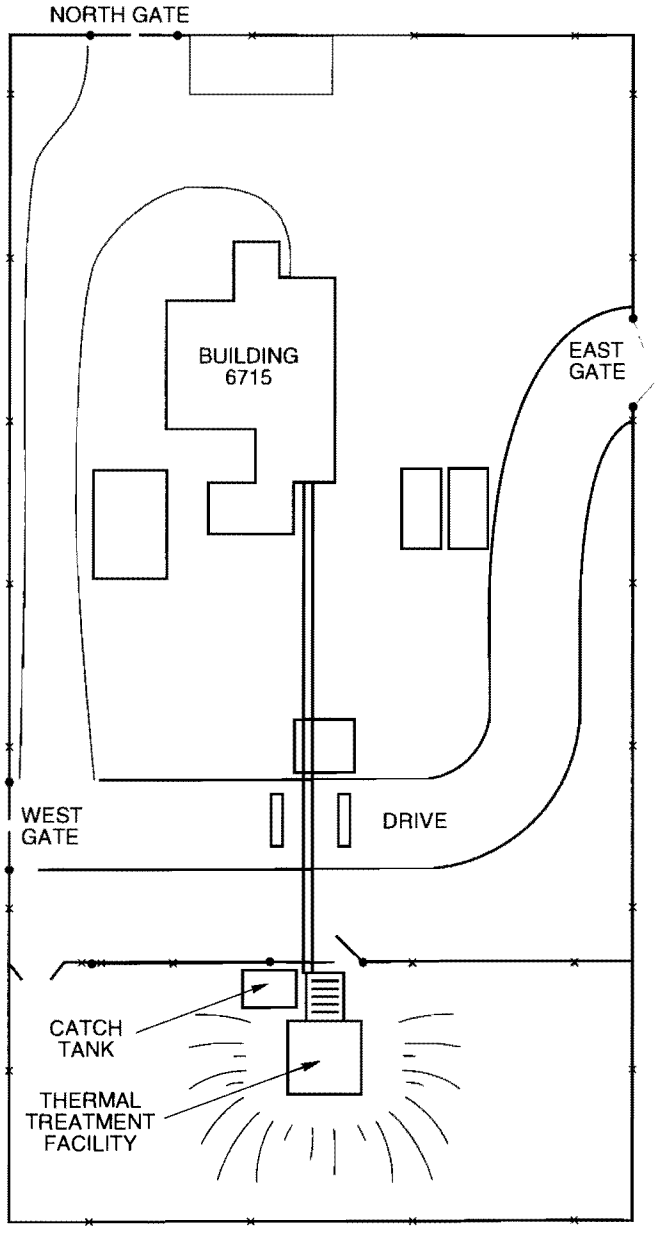
Figure B-4
Hazardous Waste Storage Building (Building 958), Floor Plan



Typical Waste Segregation Groups

- A Hydrocarbons, Organics, and Solvents
- B Class 9 Solids and Liquids
- C Poisons
- D Oxidizing Mineral Acids, Non-Acidic Oxidizers
- E Non-Regulated Waste
- F Caustics
- G Organic Acids, Non-Oxidizing Mineral Acids, Mercury

Figure B-5
Hazardous Waste Packaging Building (Building 959), Floor Plan



SITE SKETCH NOT TO SCALE

LEGEND

- Resource Conservation And Recovery Act-Regulated Waste Management Area
- Access Road
- Fence
- Gate
- Steps
- Earthen Berm

Figure B-6
Thermal Treatment Facility,
Resource Conservation and Recovery Act-Regulated Waste Management Area

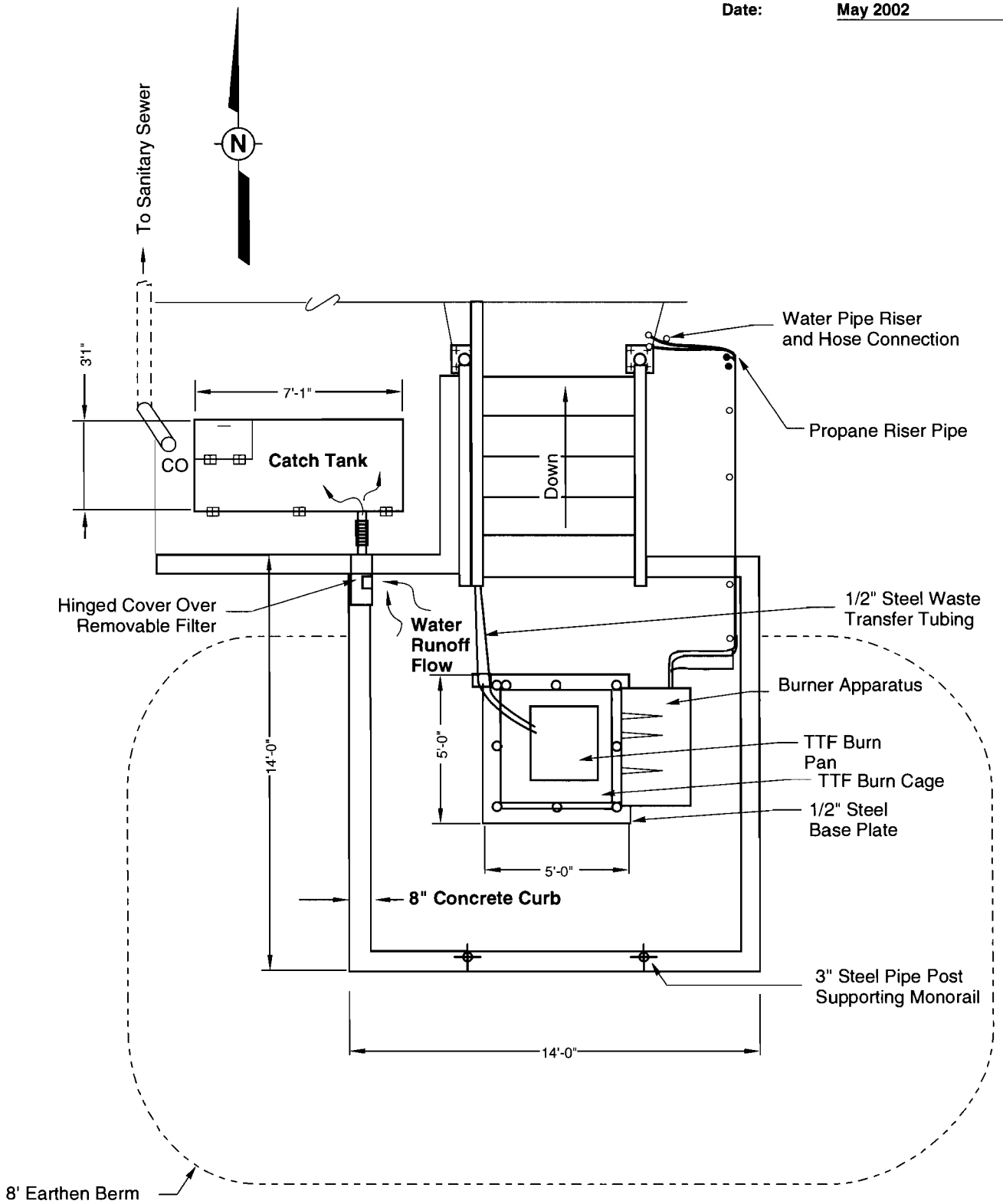


Figure B-7
Thermal Treatment Facility (TTF)—Plan View

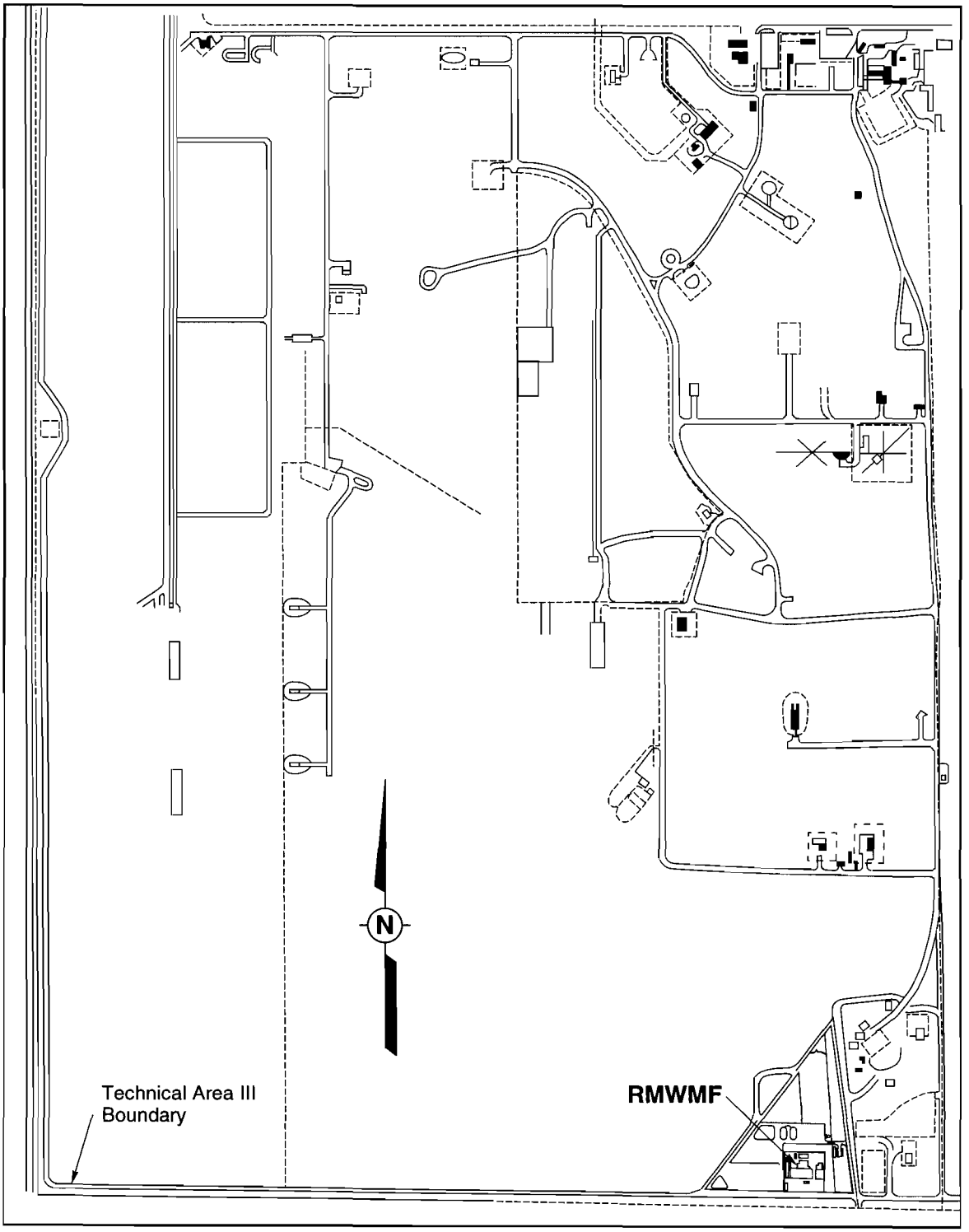


Figure B-8
Location of the Radioactive and Mixed Waste Management Facility (RMWMF) in Technical Area III

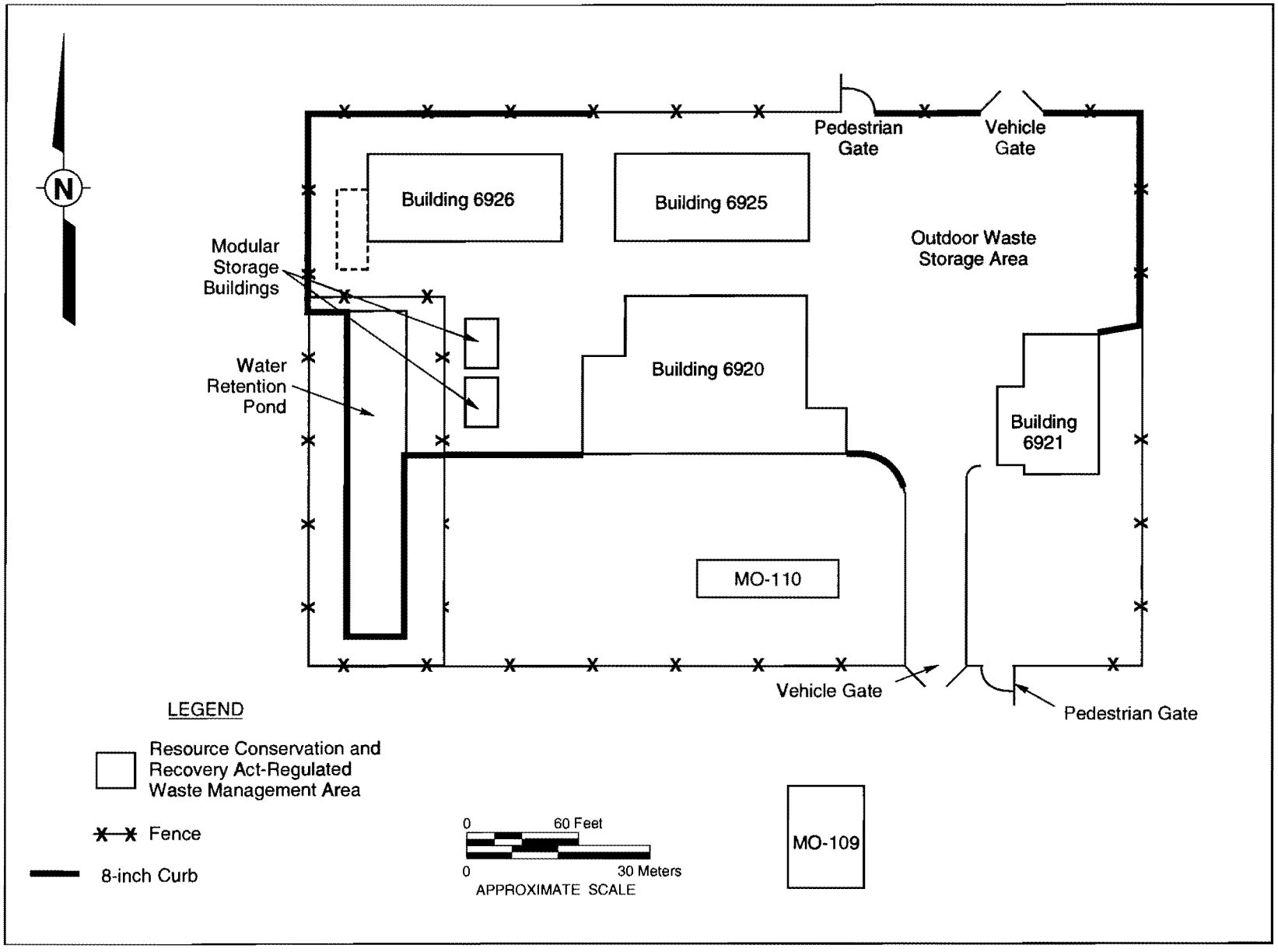


Figure B-9
Radioactive and Mixed Waste Management Facility,
Resource Conservation and Recovery Act-Regulated Waste Management Areas

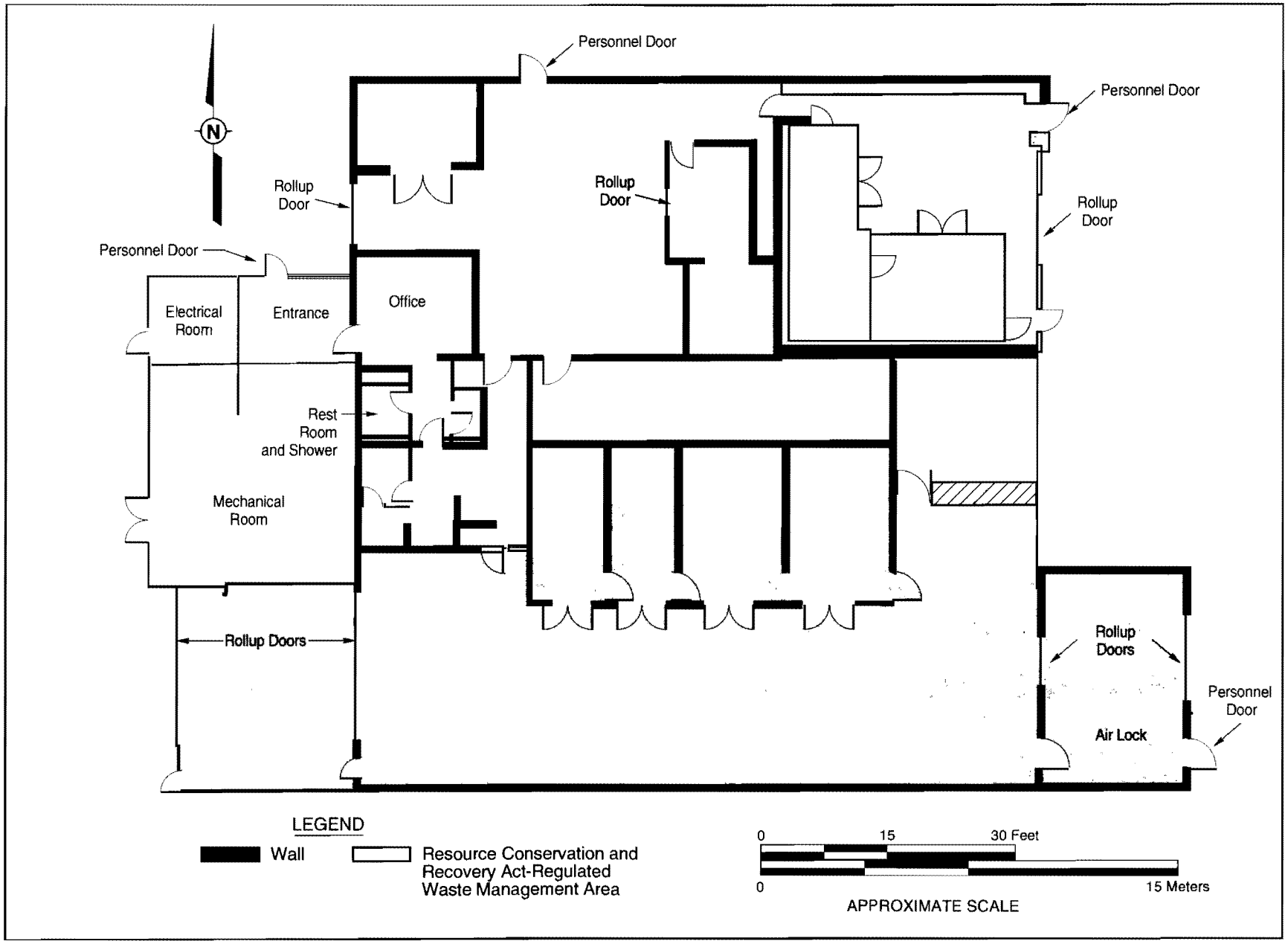


Figure B-10
Radioactive and Mixed Waste Management Facility, Building 6920, Resource Conservation and Recovery Act-Regulated Waste Management Areas

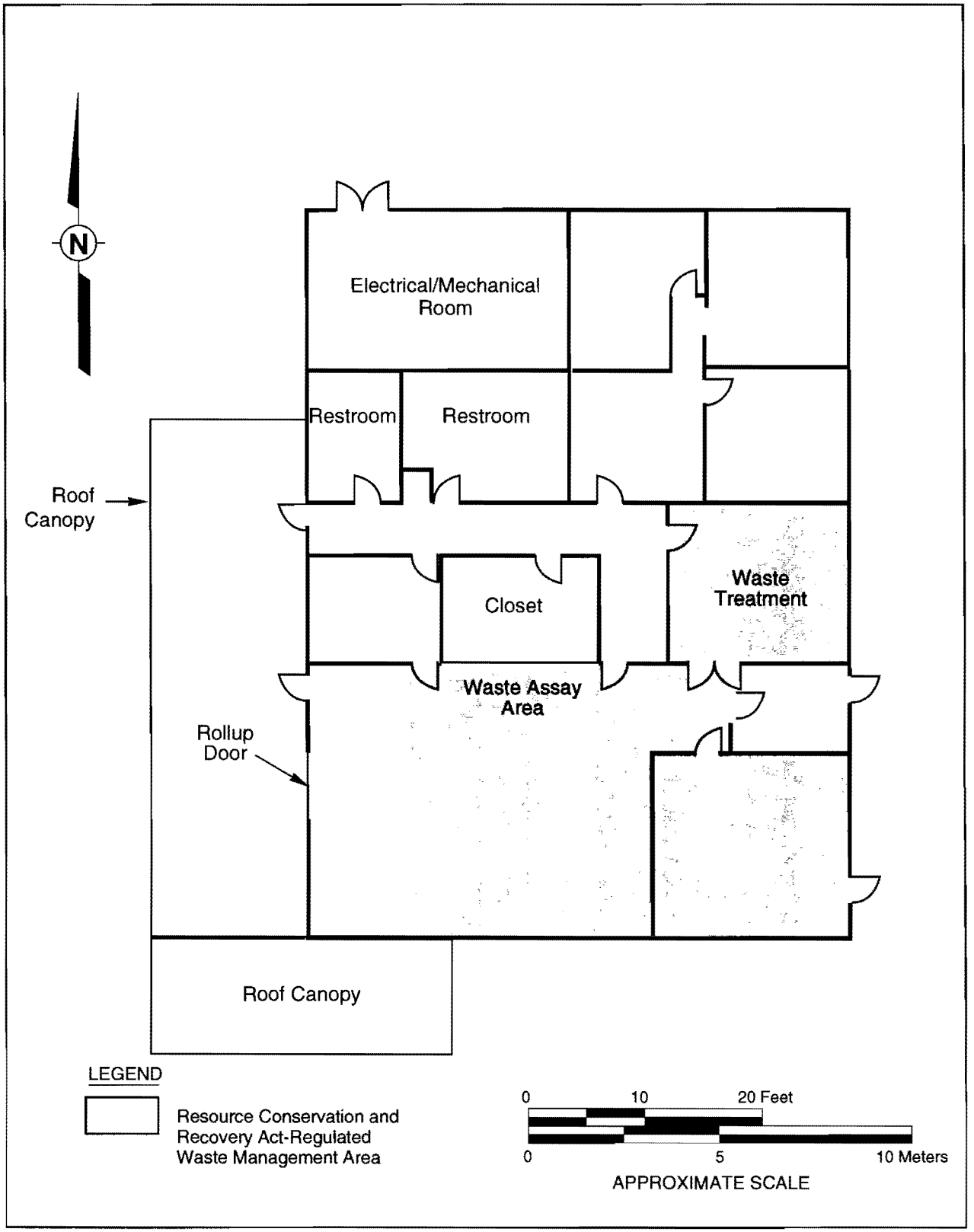


Figure B-11
Radioactive and Mixed Waste Management Facility, Building 6921, Resource Conservation and Recovery Act-Regulated Waste Management Areas

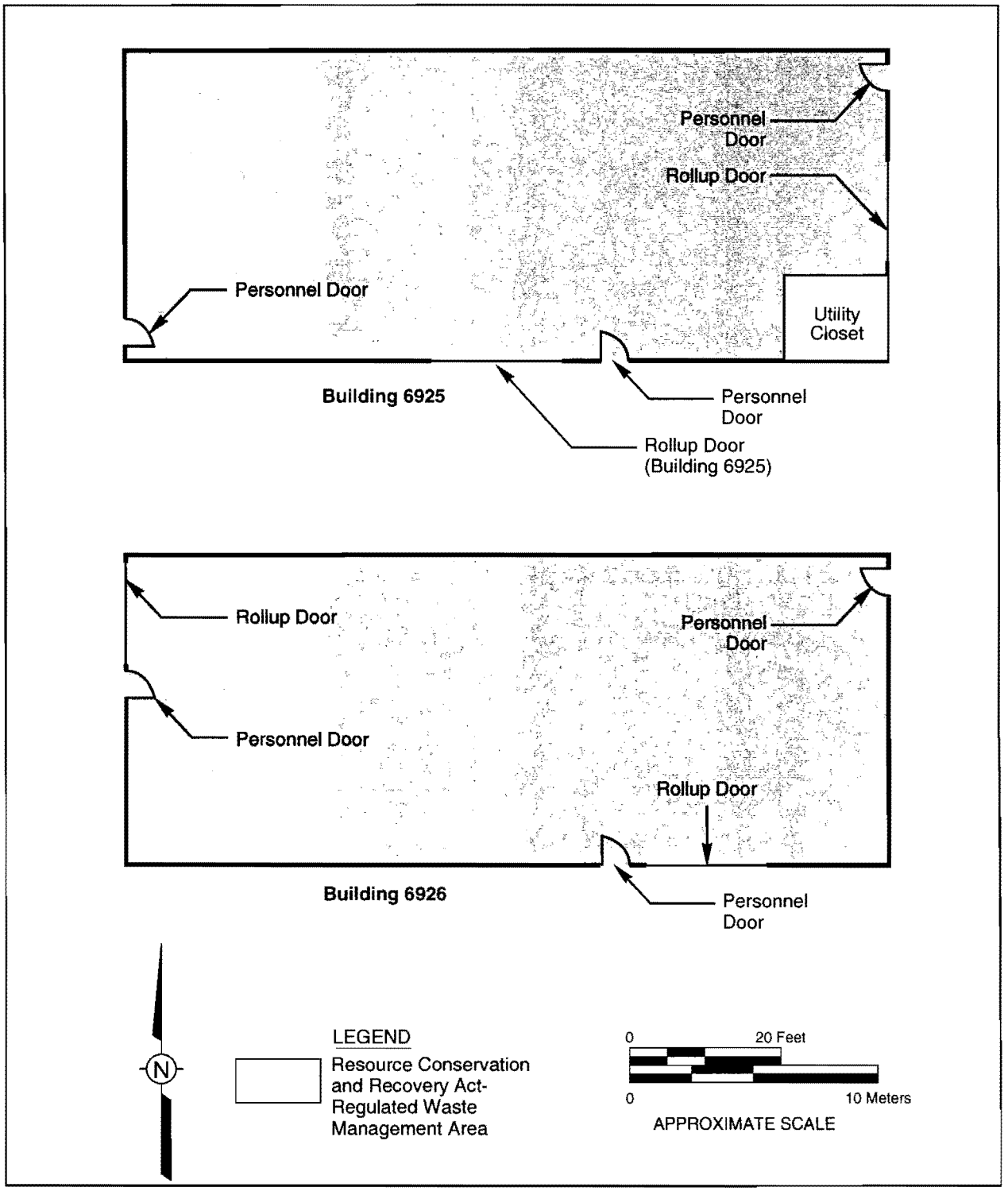


Figure B-12

Radioactive and Mixed Waste Management Facility Compound, Buildings 6925 and 6926, Resource Conservation and Recovery Act-Regulated Waste Management Areas

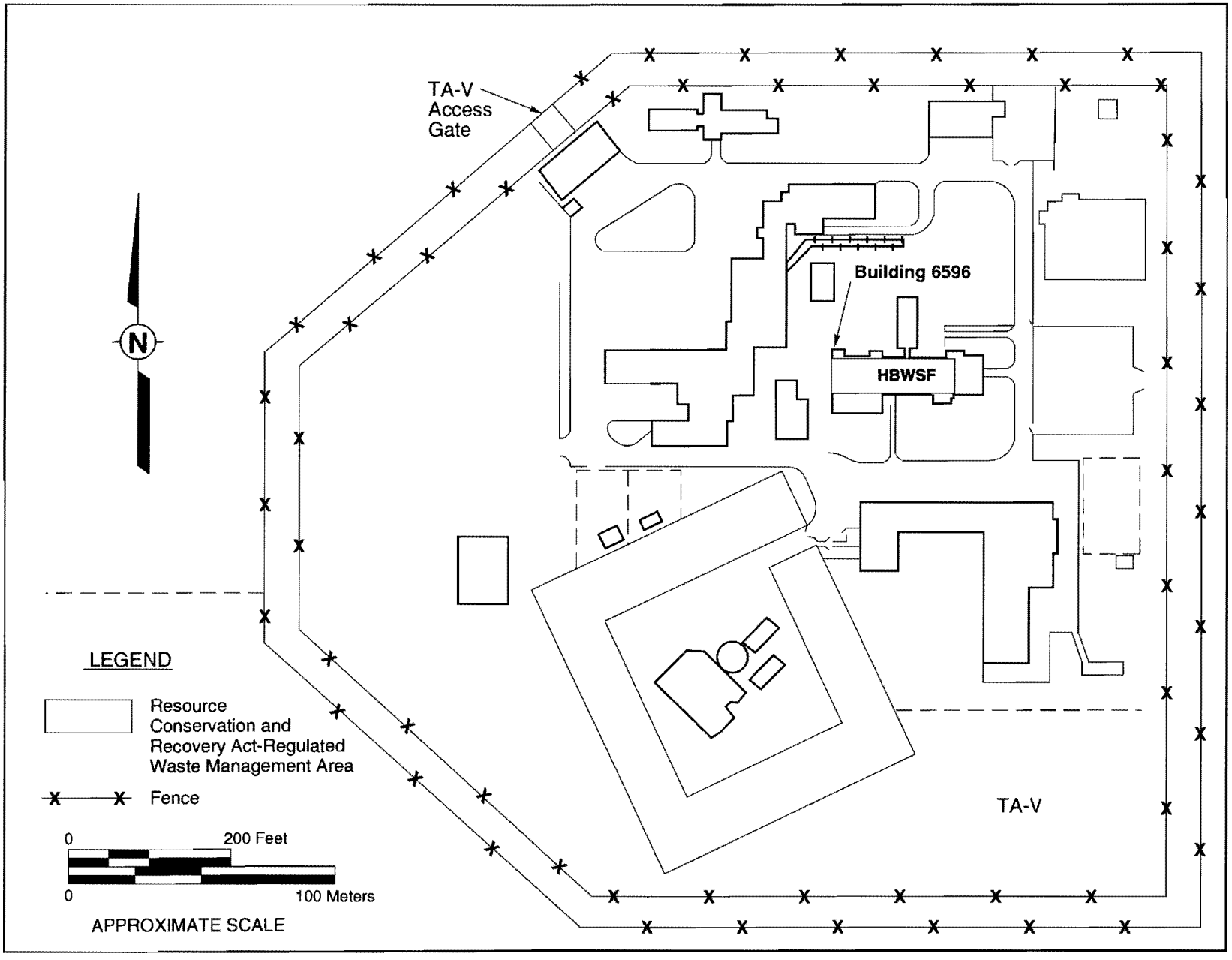


Figure B-13
Location of the High Bay Waste Storage Facility (HBWSF) in Technical Area (TA) V

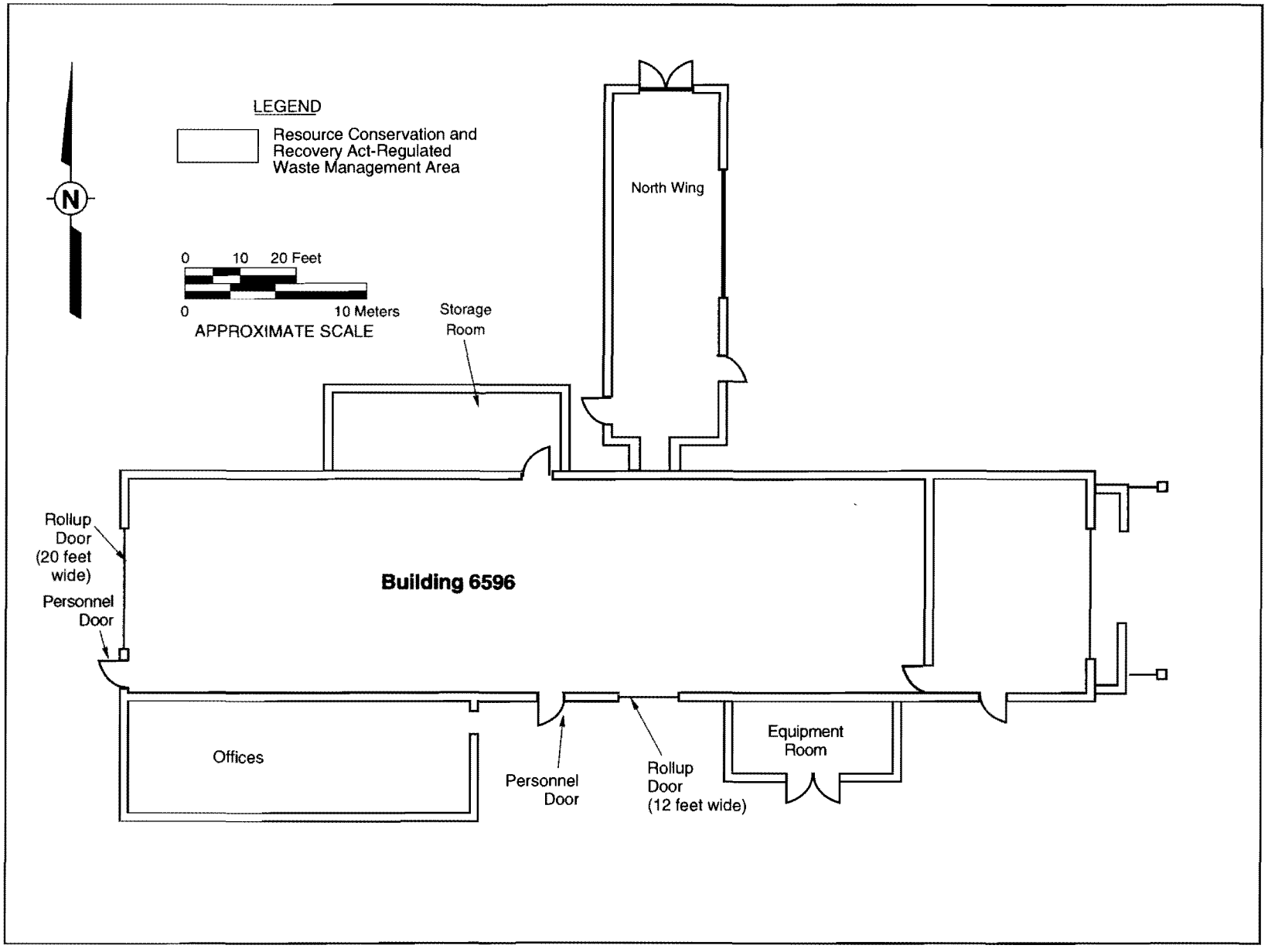


Figure B-14
High Bay Waste Storage Facility,
Resource Conservation and Recovery Act-Regulated Waste Management Area

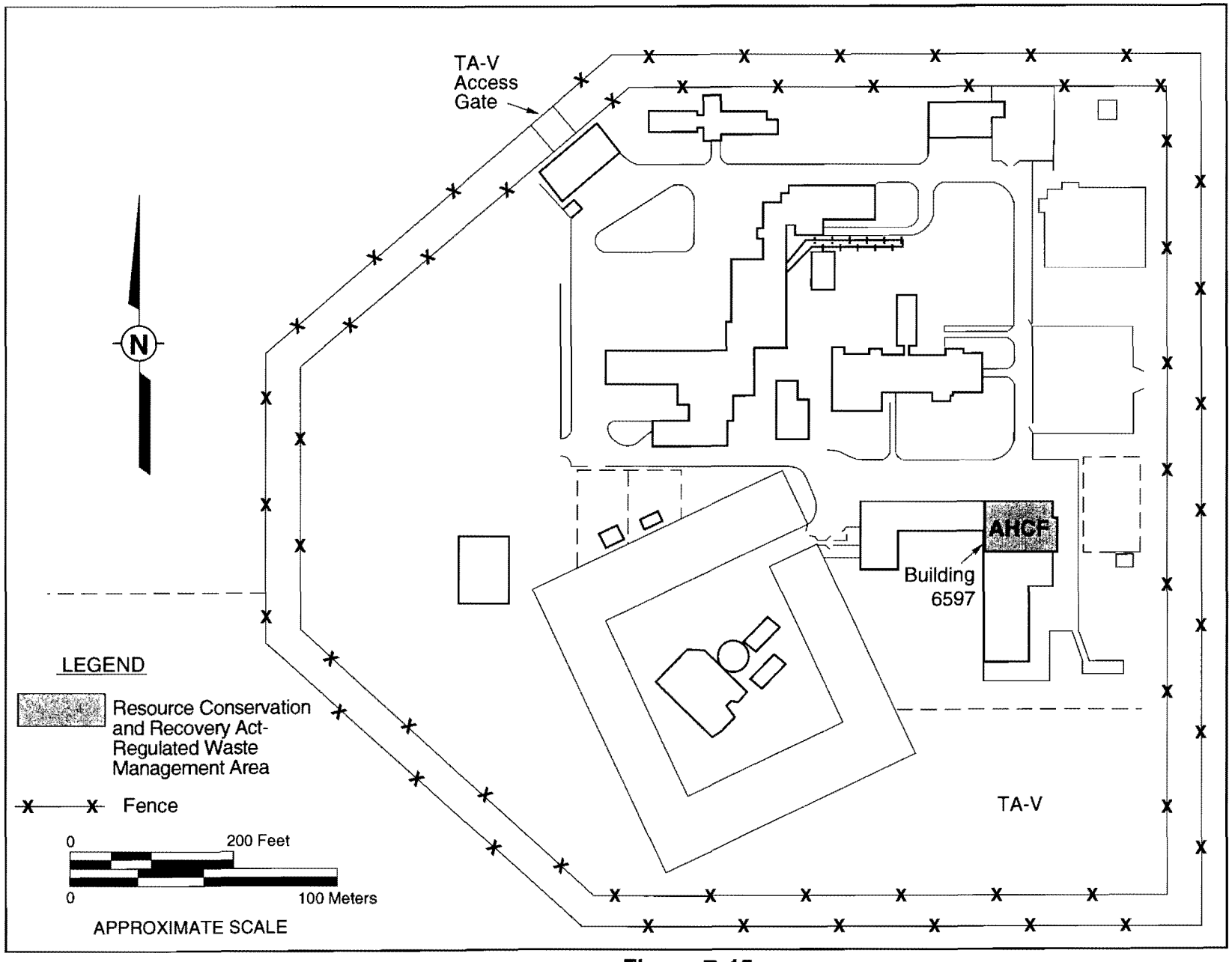


Figure B-15
Location of the Auxiliary Hot Cell Facility (AHCF) in Technical Area (TA) V

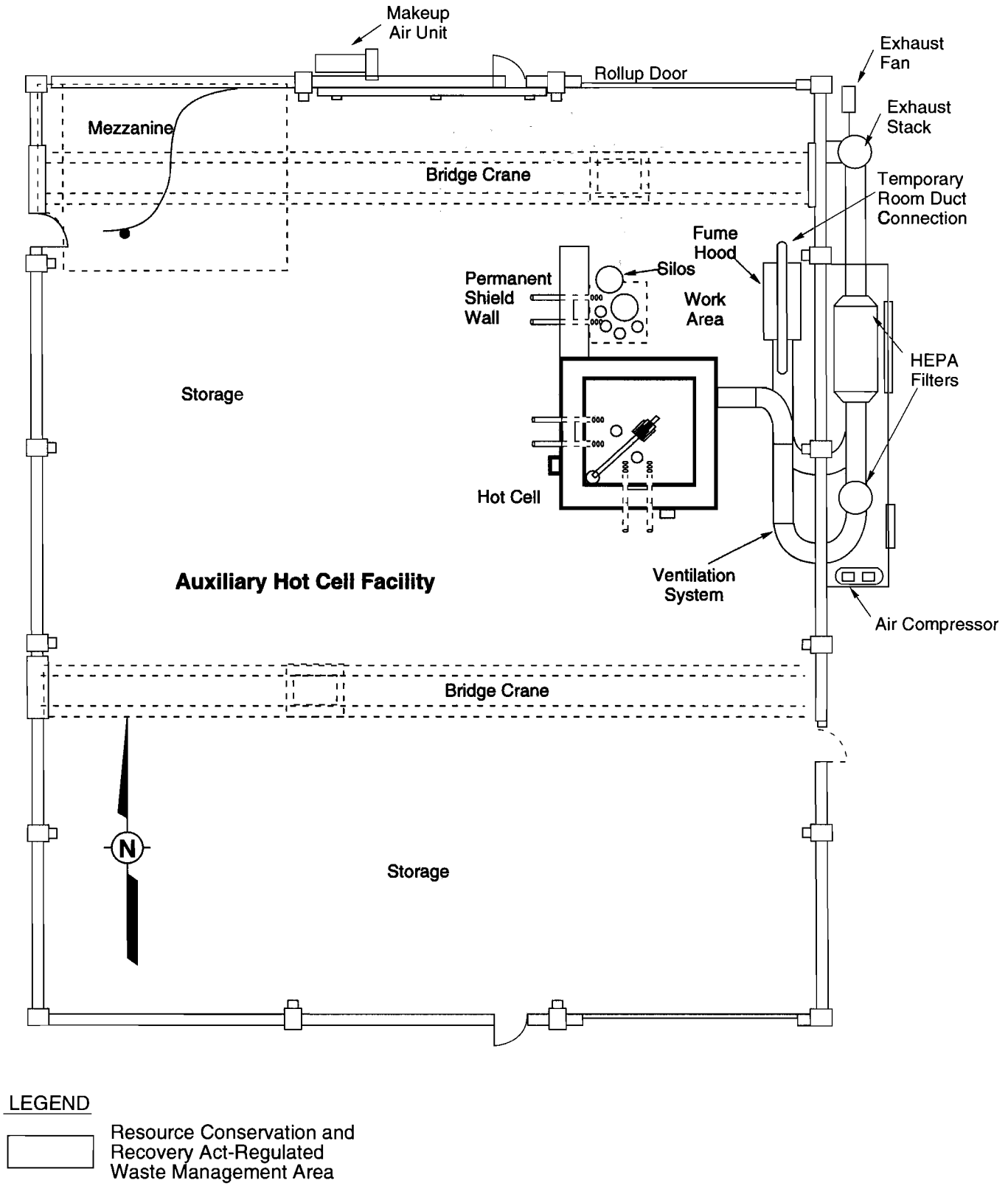


Figure B-16

Auxiliary Hot Cell Facility, Resource Conservation and Recovery Act-Regulated Waste Management Areas

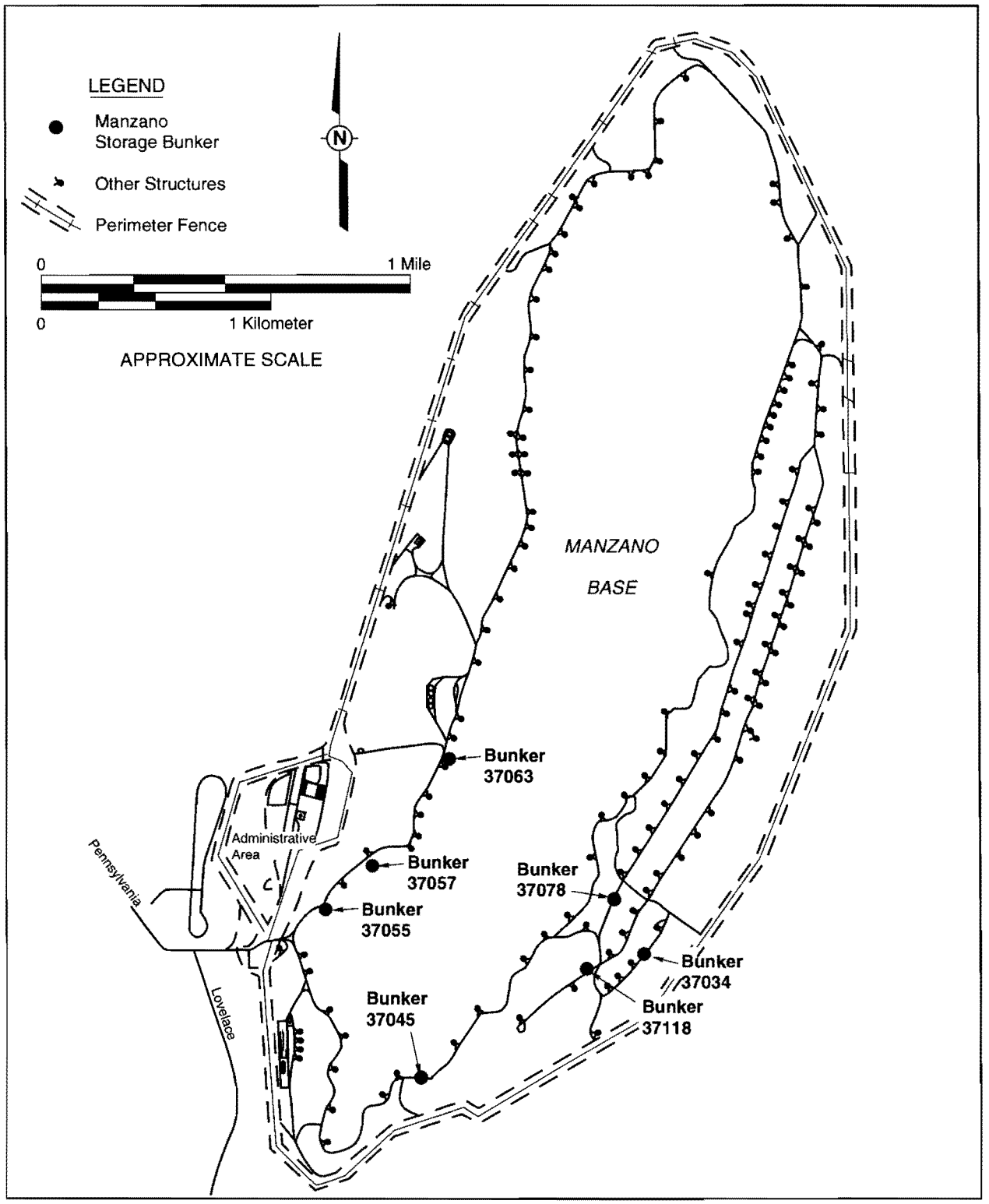


Figure B-17
Location of the Manzano Storage Bunkers at Manzano Base

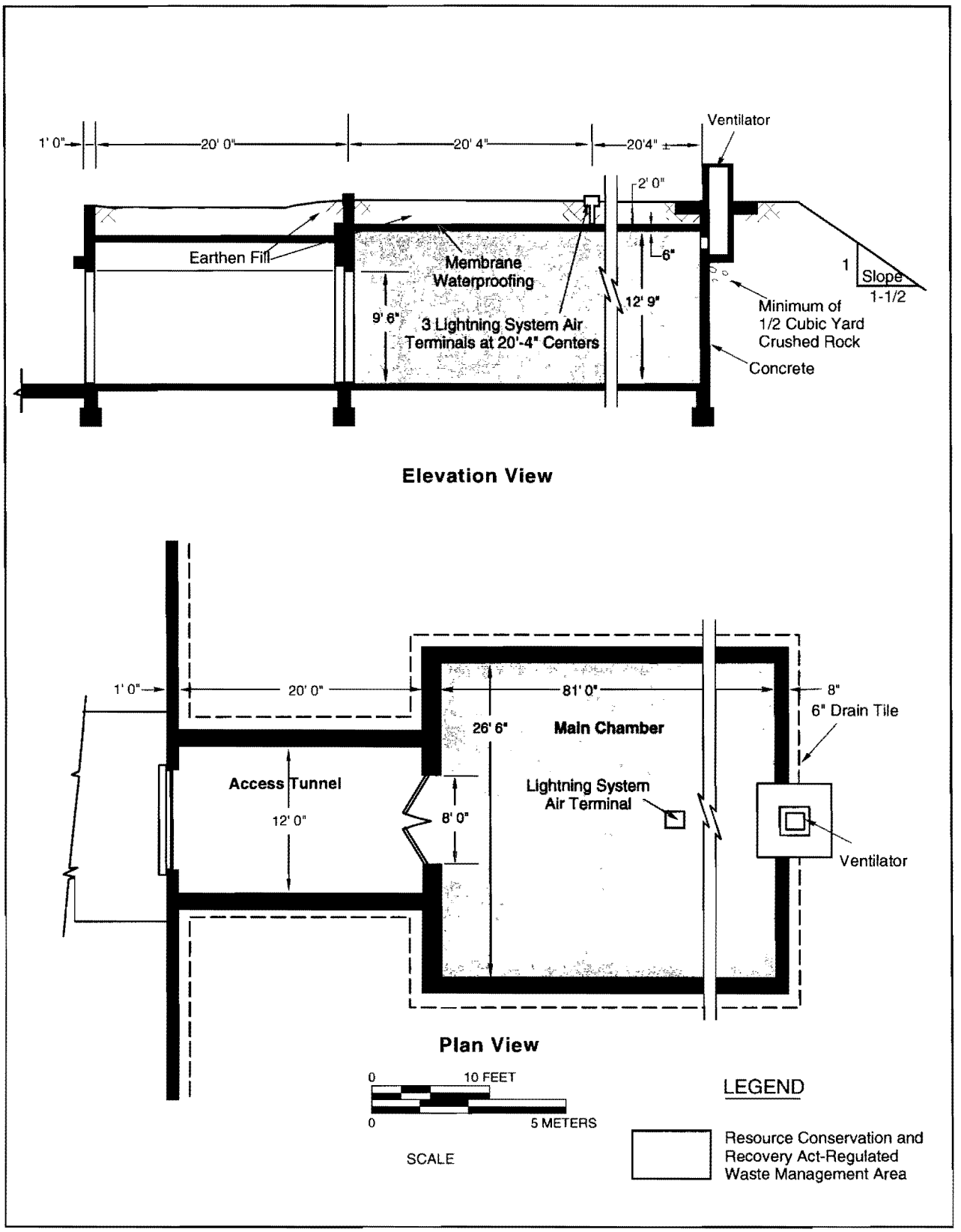


Figure B-18
Manzano Storage Bunkers, Type B, Bunkers 37034 and 37063

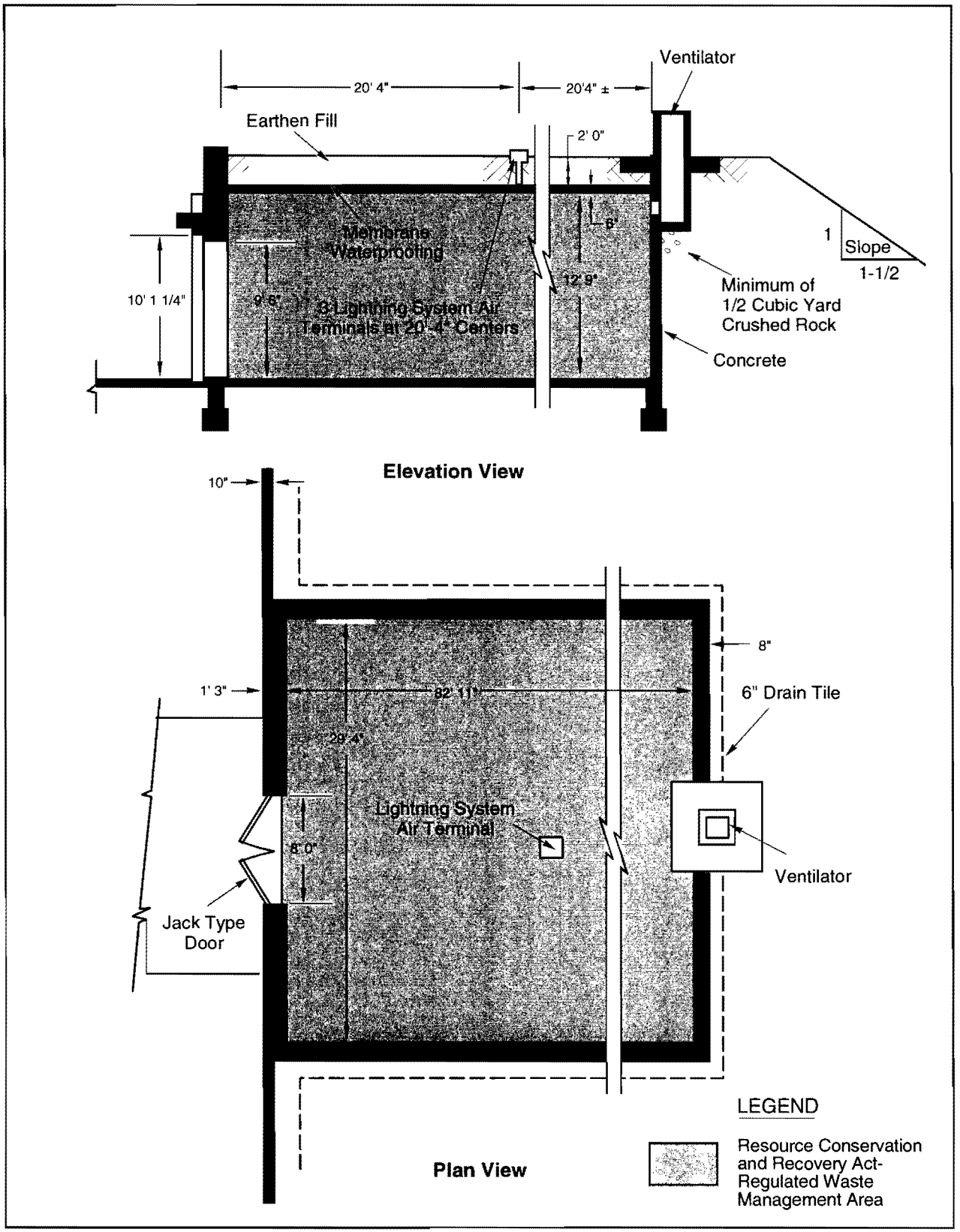


Figure B-19
Manzano Storage Bunkers, Type C, Bunkers 37078 and 37118

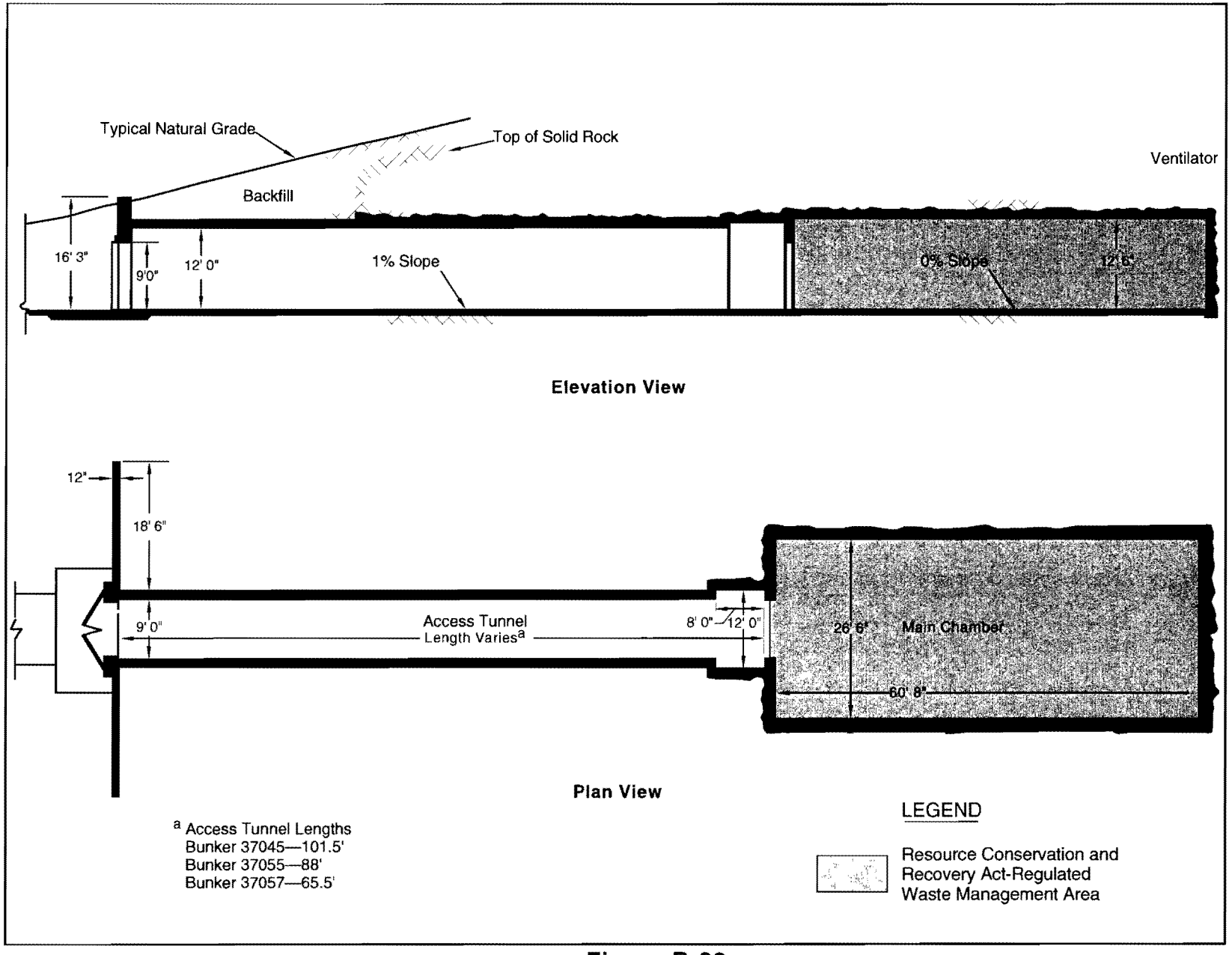


Figure B-20
Manzano Storage Bunkers, Type D
Bunkers 37045, 37055, and 37057

PHOTOGRAPHS

Hazardous Waste Management Facility, Buildings 958 and 959
Photograph Taken on January 3, 2002
Process Code: S01

Building 958 is on the left, and Building 959 is on the right.

Hazardous Waste Management Facility, Flammable Waste Storage Bay in Building 958
Photograph Taken on January 3, 2002
Process Code: S01

Hazardous Waste Management Facility, Waste Storage Bays in Building 959
Photograph Taken on January 3, 2002
Process Code: S01

The drum at the far end of the building near the door contains absorbent for spill control. The bucket on the wall above it contains clean up materials.

Containers of RCRA-regulated wastes (solids and liquids) are segregated into the bays by compatibility and are stored on shelves over secondary containment in the bays.

Hazardous Waste Management Facility, Waste Storage Bays in Building 959
Photograph Taken on September 2, 1999
Process Code: S01

Hazardous Waste Management Facility,
Modular Storage Buildings (958B and 958C) for Reactive and Ignitable Wastes
Photograph Taken on January 3, 2002
Process Code: S01

Thermal Treatment Facility (Viewed from the Roof of Building 6715)
Photograph Taken on December 20, 2001
Process Code: X03

The sheet metal housing for propane burners is on the left side of the burn cage. The sheets of steel on the right side and the back of the burn cage are attached at the top and provide protection from wind during waste treatment.

The entire surface of the concrete foundation pad and the inside edge of the concrete pad curb are lined with steel. Runoff water is directed toward the right front corner of the pad, through a filter, and into a covered catchment tank that is visible at the lower right corner of the photograph.

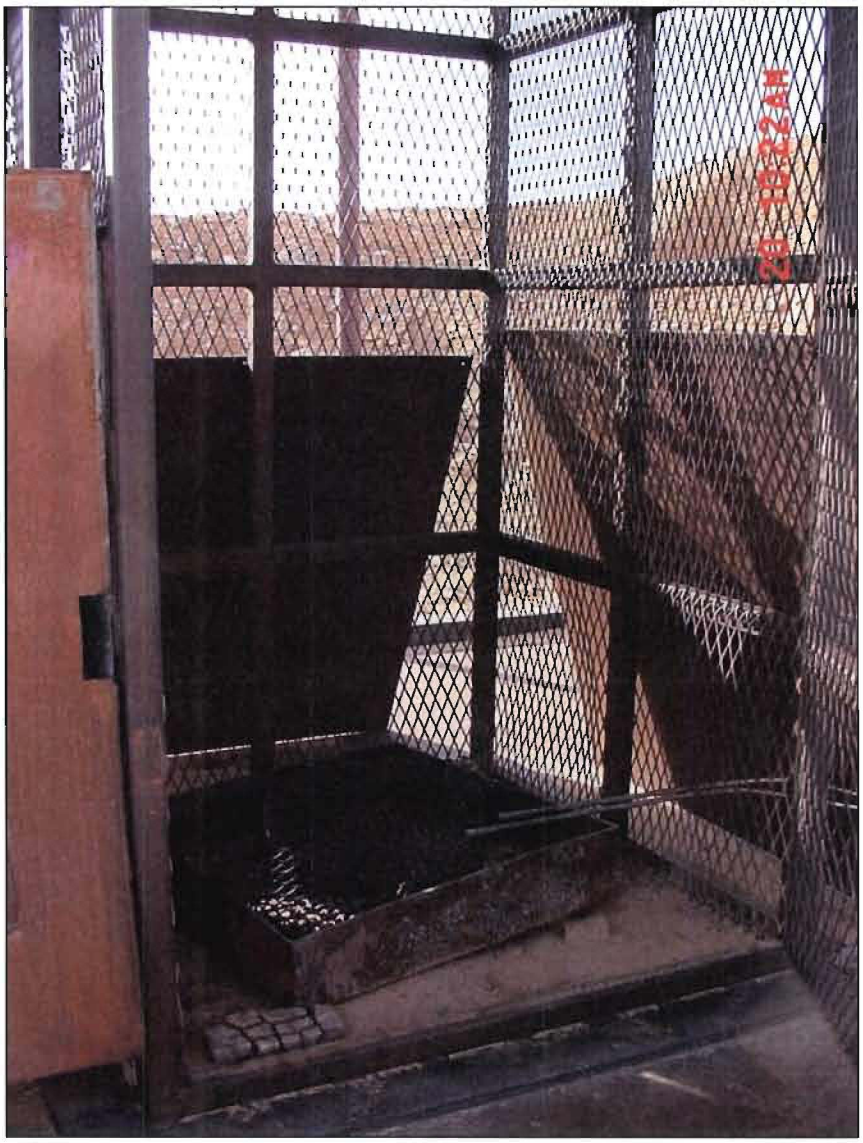
The burn pan lid is in the lowered position. The burn cage is surrounded by an earthen berm.

.

Thermal Treatment Facility (Viewed from the Top of the Earthen Berm)
Photograph Taken on December 20, 2001
Process Code: X03

The lid of the burn pan is raised and is visible near the top of the burn cage. The counterweight used to raise and lower the lid is resting on the foundation pad to the left (at the back) of the cage.

The sheet metal housing for the propane burners is visible on the right side of the burn cage.



Thermal Treatment Facility (Burn Pan Inside Burn Cage)
Photograph Taken on December 20, 2001
Process Code: X03

Solid RCRA-regulated wastes are placed inside the metal baskets inside the burn pan. The pieces of fire brick on the floor of the burn cage are used to hold the wastes in position for treatment. The tubing on the right would be used to pump liquid RCRA-regulated wastes into the burn pan. The liquid waste feed system is not currently in service.

The burn cage door is open, and the burn pan lid is in the raised position. The steel sheets on the outside of the burn cage provide protection from wind during treatment. The sheet metal housing for the propane burners is visible to the left of the burn cage.

Radioactive and Mixed Waste Management Facility, East Side of Building 6920
Photograph Taken on December 5, 2001
Process Codes: S01, T04, X02

Radioactive and Mixed Waste Management Facility, West Side of Building 6920
Photograph Taken on December 5, 2001
Process Codes: S01, T04, X02

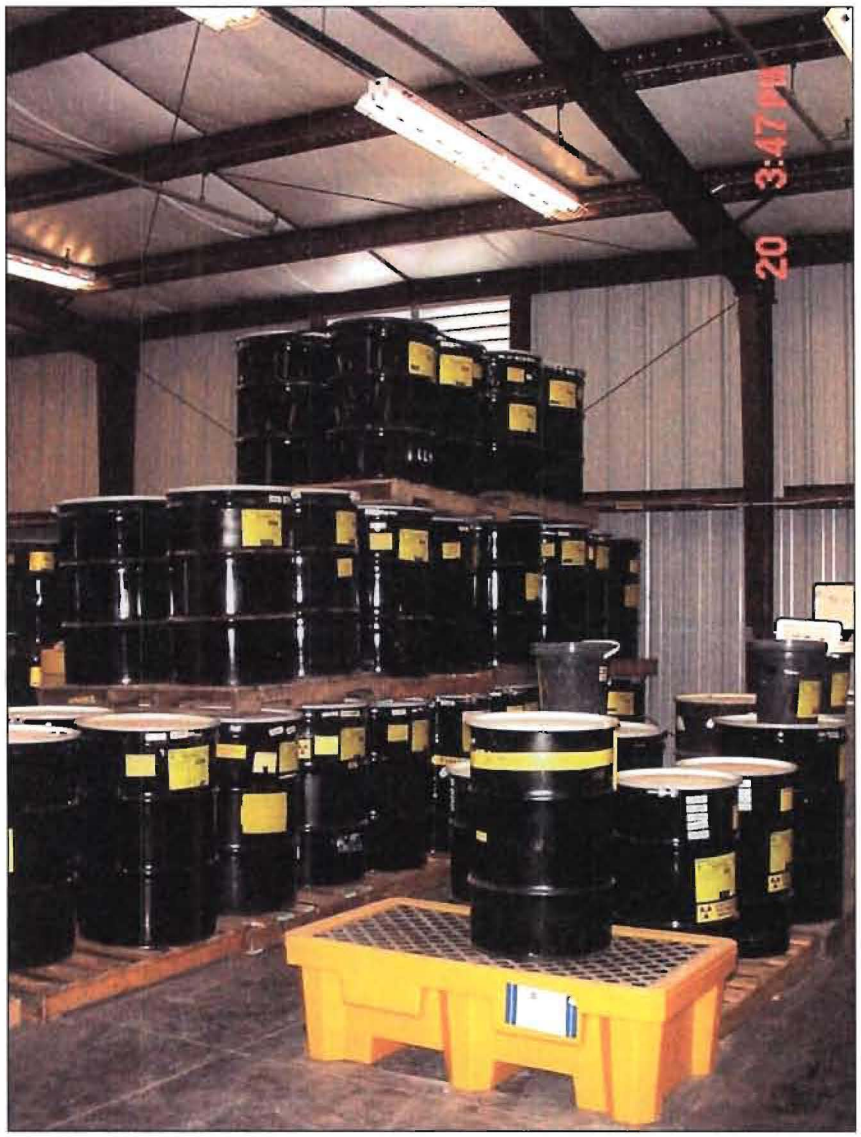
Radioactive and Mixed Waste Management Facility, Building 6920, Room 122
Photograph Taken on December 20, 2001
Process Codes: S01, T04, X02

The door to Room 118 is partially visible at the left edge of the picture. The doors to Rooms 119 and 120 are visible on the left beyond the door to Room 118. The roll-up door at the far end of the room leads to Room 125.

Containers of liquid RCRA-regulated waste are stored over the secondary containment sump shown on the right in the photograph. Containers of solid RCRA-regulated waste may also be stored over the sump.

Radioactive and Mixed Waste Management Facility, Building 6921
Photograph Taken on December 5, 2001
Process Codes: S01, T04

Radioactive and Mixed Waste Management Facility, Building 6925
Photograph Taken on December 5, 2001
Process Codes: S01



Radioactive and Mixed Waste Management Facility, Building 6925, Interior
Photograph Taken on December 20, 2001
Process Codes: S01

The drum in the front of the row on the right contains liquid RCRA-regulated waste and is stored on a portable spill containment pallet.

Radioactive and Mixed Waste Management Facility, Building 6926
Photograph Taken on December 5, 2001
Process Codes: S01

Radioactive and Mixed Waste Management Facility, Modular Storage Buildings
Photograph Taken on December 5, 2001
Process Code: S01

High Bay Waste Storage Facility, South Side of Building 6596
Photograph Taken on December 5, 2001
Process Code: S01

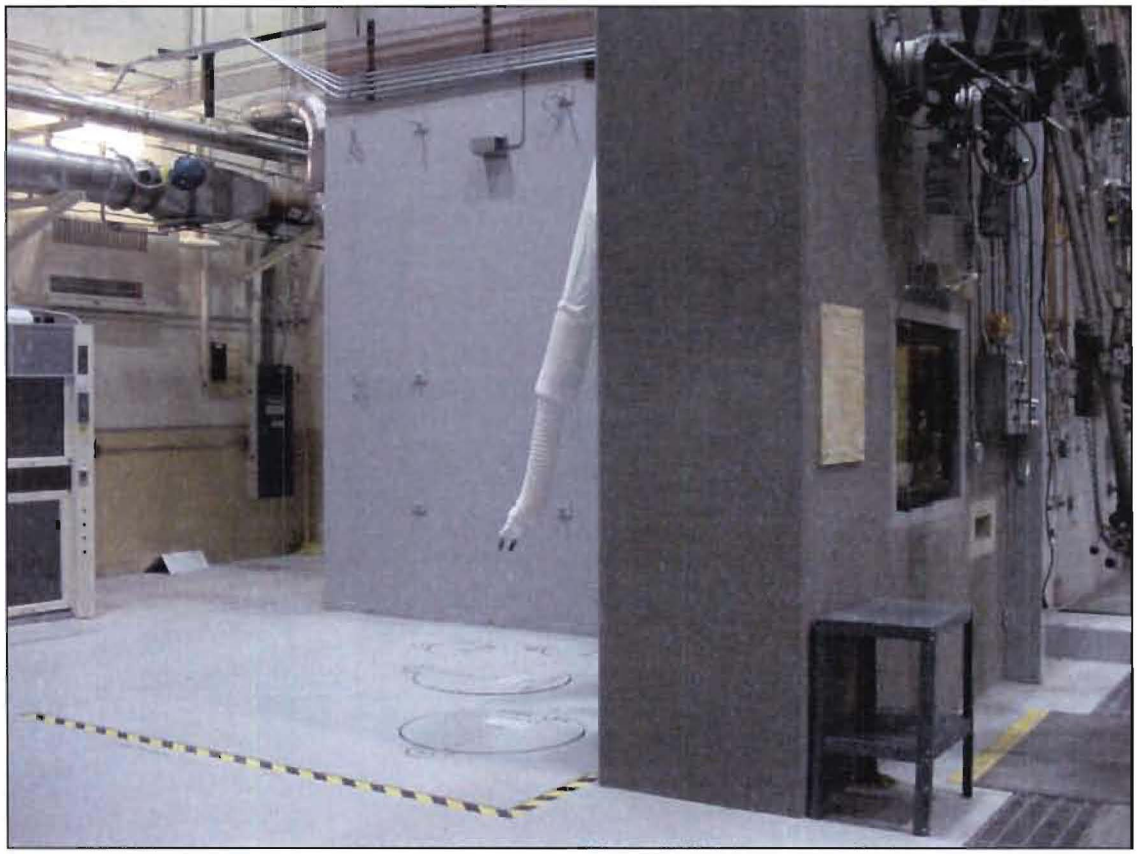
High Bay Waste Storage Facility, West Side of Building 6596
Photograph Taken on December 5, 2001
Process Code: S01

Auxiliary Hot Cell Facility, North Side of Building 6597
Photograph Taken on January 7, 2002
Process Codes: S01, T04, X02

The work area and permanent shield wall are visible inside the building.

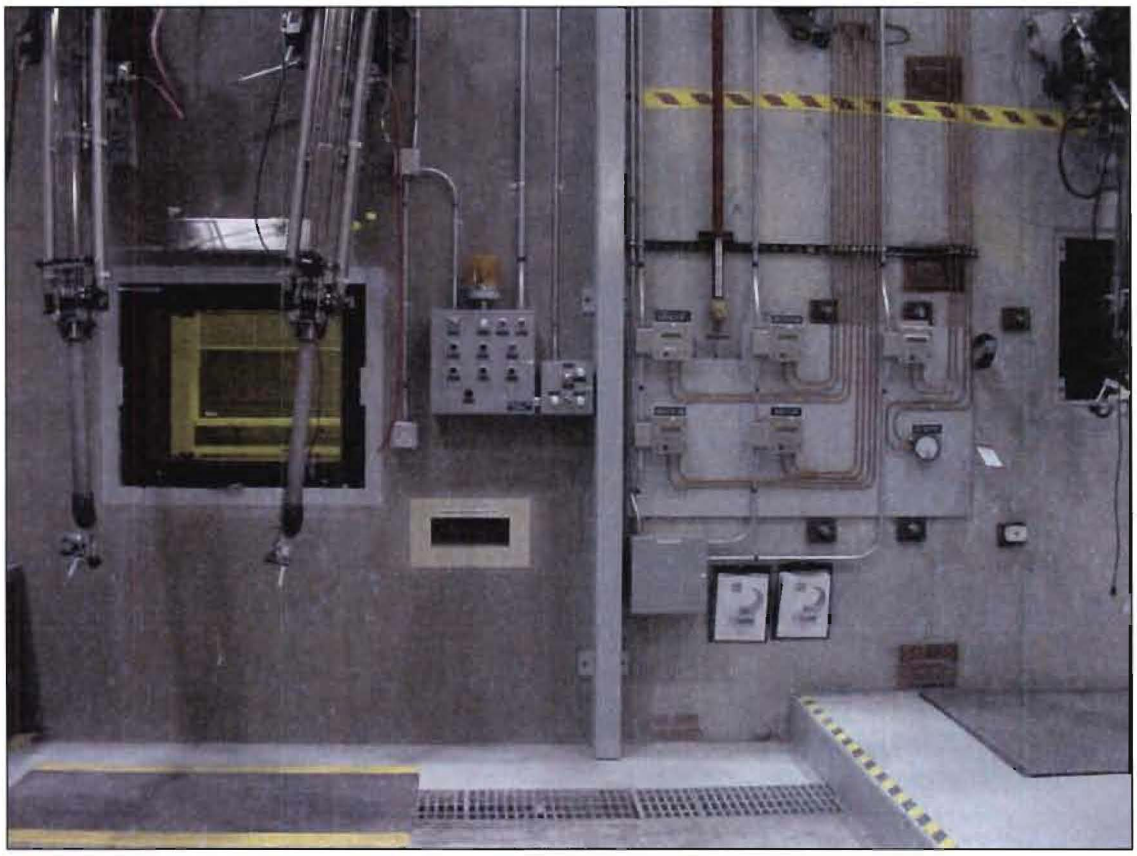
Auxiliary Hot Cell Facility, Work Area North of Auxiliary Hot Cell
Photograph Taken on January 7, 2002
Process Codes: S01, T04, X02

The permanent shield wall is visible inside the building at the right edge of the opening. The manipulator arms extend from the permanent shield wall into the work area. The north wall of the hot cell is visible behind the manipulator arms at the center of the picture. The fume hood is visible at the left edge of the work area.



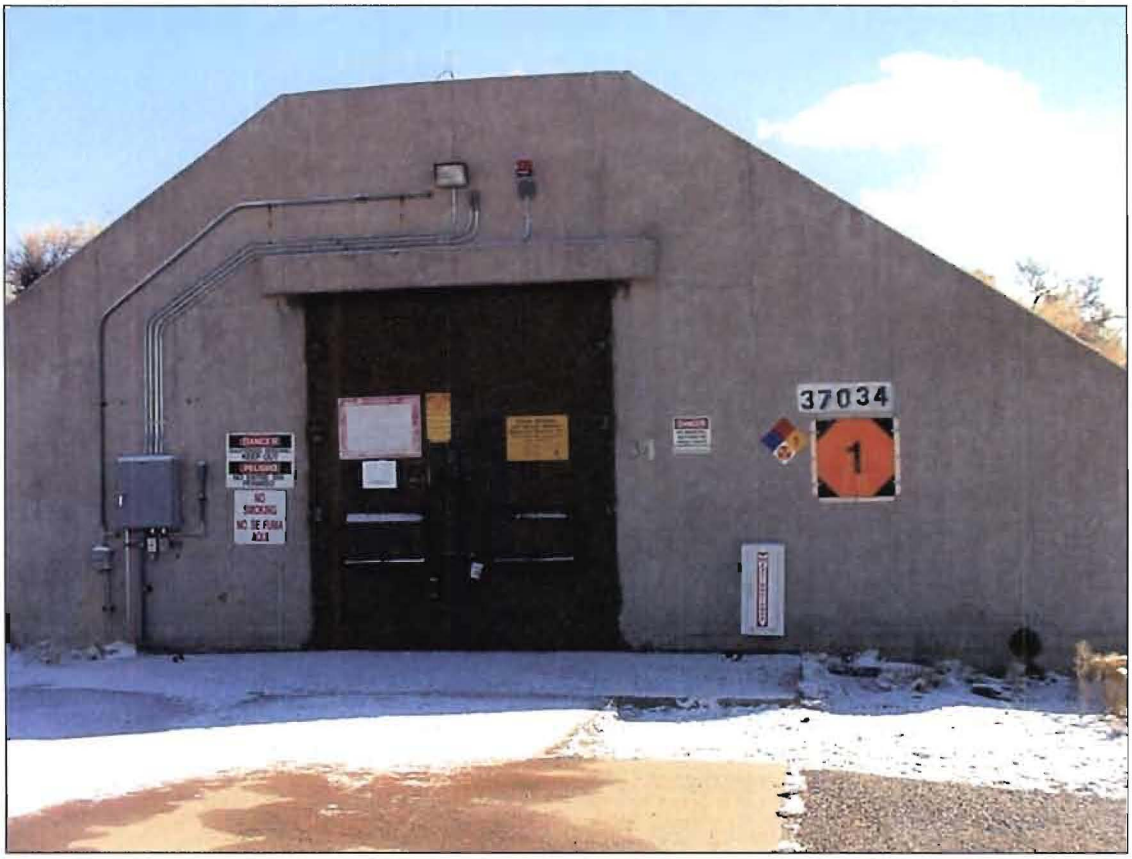
Auxiliary Hot Cell Facility, Fume Hood and Work Area North of Auxiliary Hot Cell
Photograph Taken on January 7, 2002
Process Codes: S01, T04, X02

One of the manipulator arms is visible. It extends from the permanent shield wall into the work area. The operator controls for the manipulator arms are on the right side (outside) of the permanent shield wall at the right edge of the picture. The fume hood is visible at the left edge of the picture.



Auxiliary Hot Cell Facility, Operator Controls for Work Area and Hot Cell
Photograph Taken on January 7, 2002
Process Codes: S01, T04, X02

The permanent shield wall is on the left, and the hot cell is located on the right. The operator controls for the manipulator arms in the permanent shield wall are visible on the left. The fume hood at the back of the work area is visible through the shield wall window. Similar operator controls and a window are located on the hot cell wall to the right.



Manzano Storage Bunkers, Type B, Front View of Bunker 37034
Photograph Taken on December 13, 2001
Process Code: S01

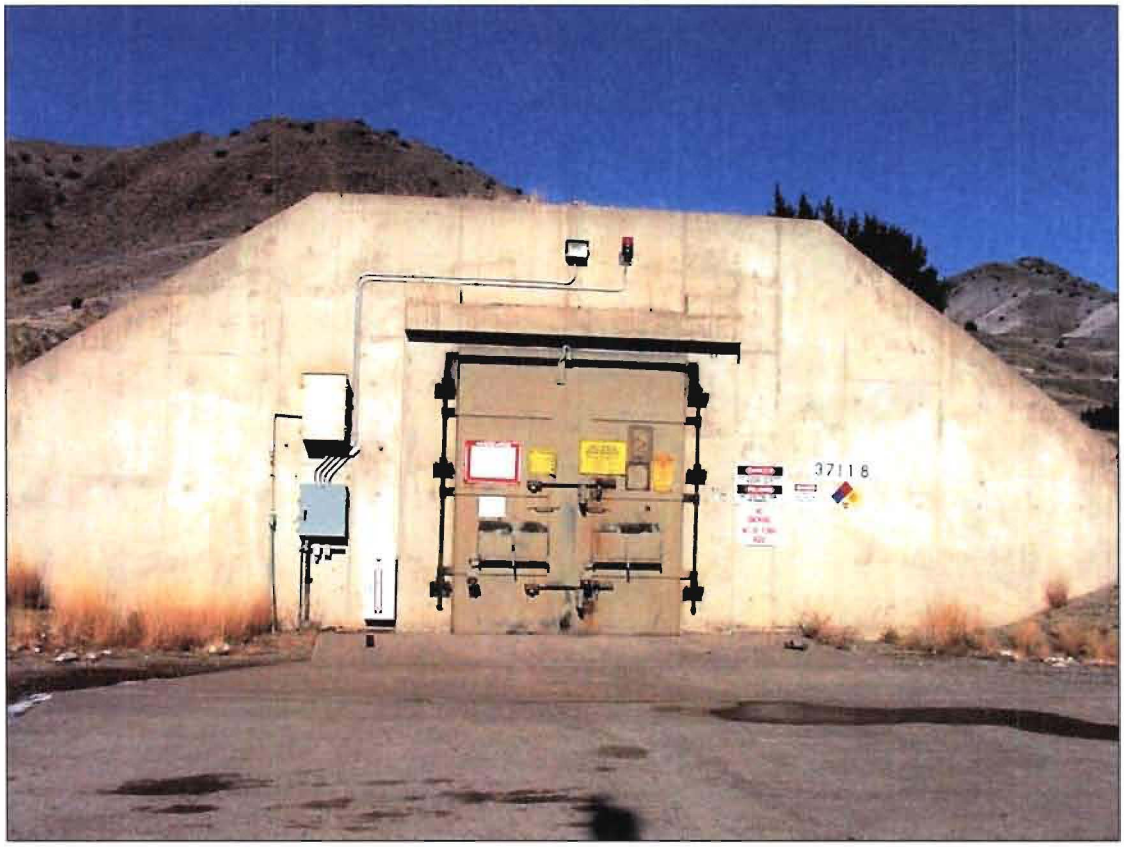
The drain shown near the right edge of the picture serves a drain tile on the outside of the bunker, allowing drainage of water (from precipitation) that may accumulate in the soil behind the concrete wall.

The large orange sign indicates that explosive (D003) waste is currently stored in this bunker. The fire extinguisher is located in the white box below and to the left of the orange sign.

The concrete pad in front of the bunker doors is level or slopes slightly away from the bunker, preventing surface water runon into the bunker.

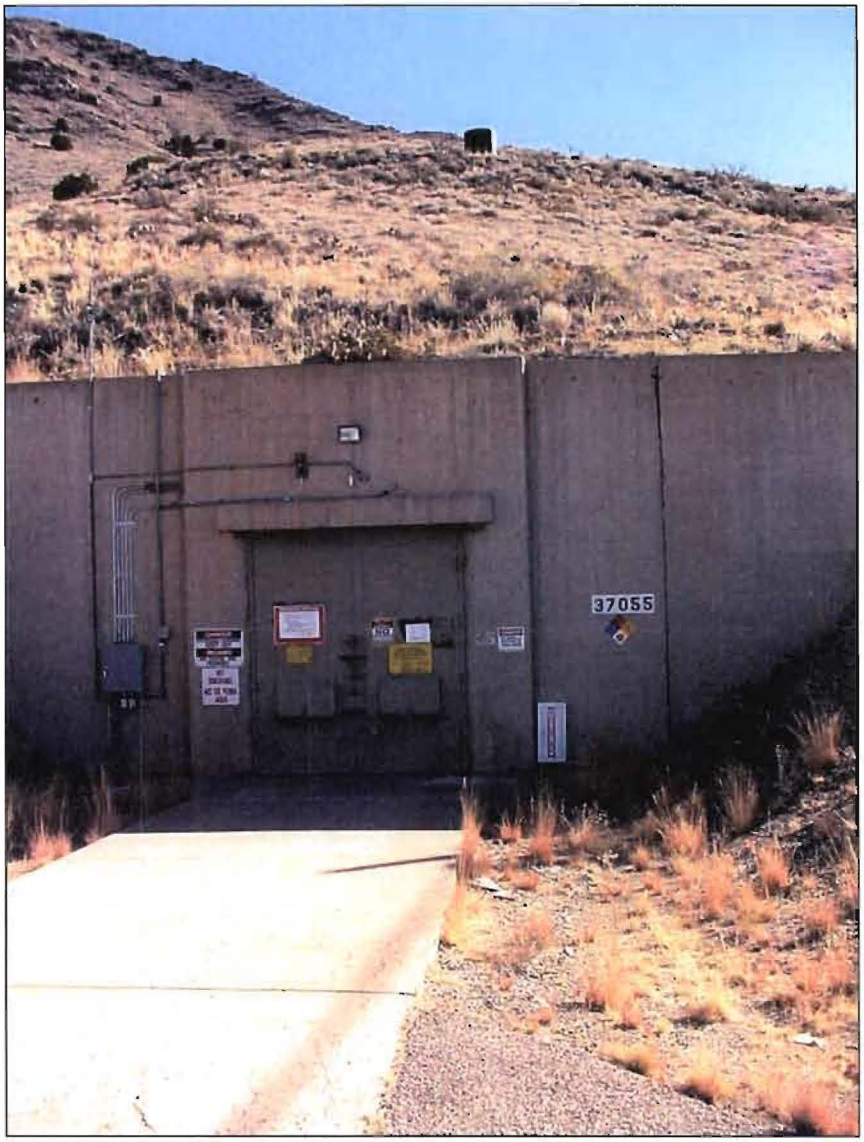
Manzano Storage Bunkers, Type B, Front View of Bunker 37063
Photograph Taken on December 5, 2001
Process Code: S01

Manzano Storage Bunkers, Type C, Front View of Bunker 37078
Photograph Taken on December 13, 2001
Process Code: S01

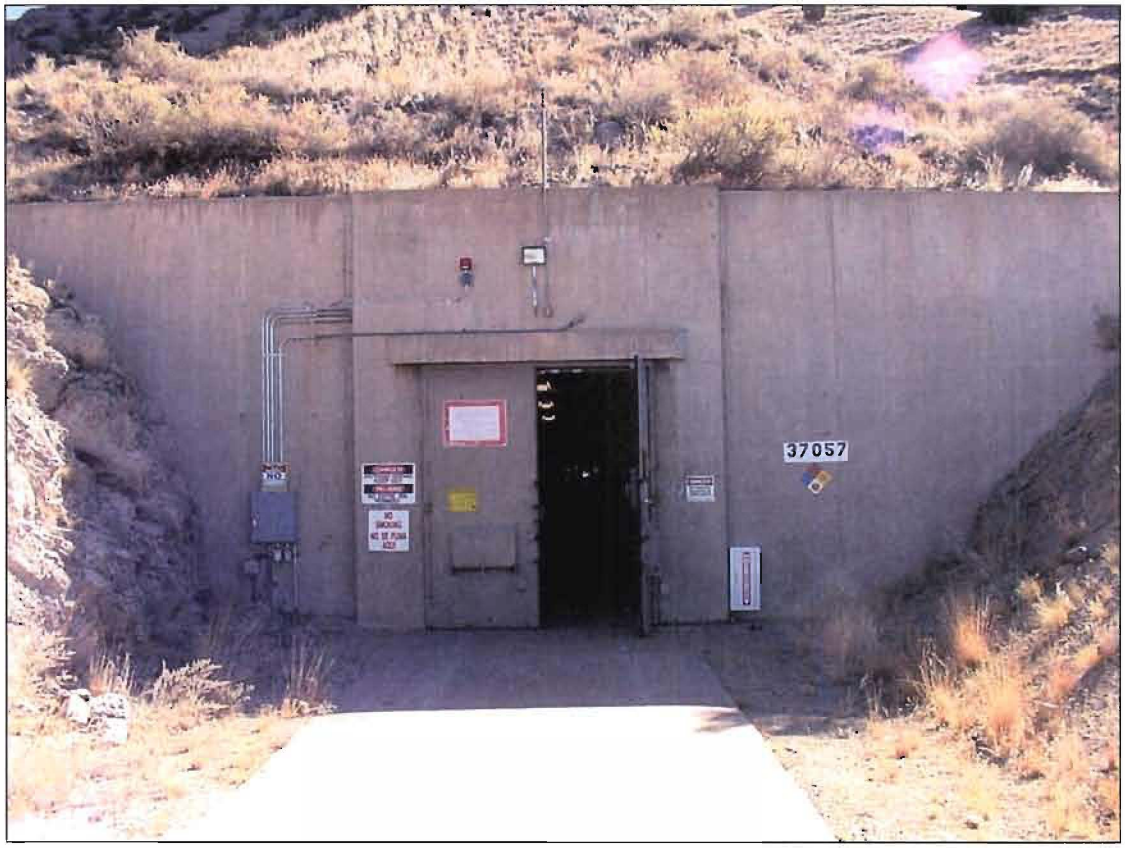


Manzano Storage Bunkers, Type C, Front View of Bunker 37118
Photograph Taken on December 13, 2001
Process Code: S01

Manzano Storage Bunkers, Type D, Front View of Bunker 37045
Photograph Taken on December 13, 2001
Process Code: S01



Manzano Storage Bunkers, Type D, Front View of Bunker 37055
Photograph Taken on December 5, 2001
Process Code: S01



Manzano Storage Bunkers, Type D, Front View of Bunker 37057
Photograph Taken on December 5, 2001
Process Code: S01

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ATTACHMENT B

General Part A Permit Request
Revision 4.0 (redline/strikeout)
US Department of Energy / Sandia Corporation / Sandia National Laboratories/NM
NM5890110518

Sandia National Laboratories/New Mexico General Part A Permit Renewal Request/Application

Revision ~~3.0~~4.0

May ~~January~~ 2002

Prepared by
Sandia National Laboratories/New Mexico
Albuquerque, New Mexico 87185

Prepared for
The U.S. Department of Energy

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Form Approved, OMB No. 2050-0034 Expires XX/XX/02
GSA No. 0248-EPA-OT

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

For EPA Regional Use Only

Date Received
Month Day Year

United States Environmental Protection Agency
Washington, DC 20460

Hazardous Waste Permit Application Part A

(Read the Instructions before starting)

I. Facility's EPA ID Number ***(Mark 'X' in the appropriate box)***

☐ A. First Part A Submission

[X] B. Part A Amendment # 3 (January 2002)

C. Facility's EPA ID Number: NM589011051 8

D. Secondary ID Number *(if applicable)*:

II. Name of Facility

SANDIA NATIONAL LABORATORIES

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

A. Street: 1515 EUBANK BOULEVARD SE

Street *(Continued)*:

City or Town: ALBUQUERQUE

State: NM

Zip Code: 87123-

County Code *(If known)*:

County Name: BERNALILLO

B. Land Type (Enter code): F

C. Geographic Location
LATITUDE (Degrees, minutes, & seconds): 35 01 45N
LONGITUDE (Degrees, minutes & seconds): 106 32 30W

D. Facility Existence Date
Month Day Year: 09 1945

IV. Facility Mailing Address

Street or P.O. Box: PO BOX 5400 KIRTLAND SITE OPS

City or Town: ALBUQUERQUE

State: NM

Zip Code: 87185-5400

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

Name *(Last)*: ~~GD~~ O ~~UB~~ ~~LB~~ ~~DS~~

(First): ~~JR~~ O ~~HN~~ ~~NA~~ ~~L~~ ~~D~~

Job Title: ~~PE~~ ~~HN~~ ~~YV~~ S ~~E~~ ~~SN~~ ~~CG~~ I ~~EN~~ ~~NE~~ ~~TE~~ ~~IR~~ S T

Phone Number *(Area Code and Number)*: 505-845-~~64~~ ~~04~~ ~~82~~ ~~98~~

VI. Facility Contact Address ***(See Instructions)***

A. Contact Address
Location Mailing Other: X

B. Street or P.O. Box:

City or Town:

State:

Zip Code: -

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

EPA ID Number *(Enter from page 1)*: NM589011051 8

Secondary ID Number *(Enter from page 1)*:

VII. Operator Information *(See Instructions)*

A. Name of Operator: SANDIA CORPORATION

Street or P.O. Box: PO BOX 5800 DEPARTMENT 3100

City or Town: ALBUQUERQUE

State: NM

Zip Code: 87185-

Phone Number *(Area Code and Number)*: 505-844-8516

B. Operator Type: O

C. Change of Operator Indicator: Yes [ ] No [X]

Date Changed Month Day Year:

VIII. Facility Owner *(See Instructions)*

A. Name of Facility's Legal Owner: US DEPARTMENT OF ENERGY

Street or P.O. Box: PO BOX 5400 KIRTLAND SITE OPS

City or Town: ALBUQUERQUE

State: NM

Zip Code: 87185-5400

Phone Number *(Area Code and Number)*: 505-845-4094

B. Owner Type: F

C. Change of Owner Indicator: Yes [ ] No [X]

Date Changed Month Day Year:

IX. NAICS Codes *(in order of significance; start in left box)*

First	92811	**Third**	
(Description) National Security		*(Description)*	
Second	54171	**Fourth**	
(Description) Research and Development in the Physical, Engineering, and Life Sciences		*(Description)*	

X. Other Environmental Permits *(See instructions)*

A. Permit Type *(Enter code)*	B. Permit Number	C. Description
		See Appendix A

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

EPA ID Number (*Enter from page 1*)	Secondary ID Number (*Enter from page 1*)
N M 5 8 9 0 1 1 0 5 1 8	

XI. Nature of Business (*Provide a brief description*)

Sandia National Laboratories/New Mexico is a multi-program Research and Development (R&D) laboratory of the U.S. Department of Energy. Missions include R&D related to nuclear weapons, energy, and other programs of national interest.

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. Thirteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), 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.*
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 in the corresponding process code.*

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	Disposal:	
D79	Underground Injection Well Disposal	Gallons; Liters; Gallons Per Day; or Liters Per Day
D80	Landfill	Acre-feet; Hectare-meter; Acres; Cubic Meters; Hectares; Cubic Yards
D81	Land Application	Acres or Hectares
D82	Ocean Disposal	Gallons Per Day or Liters Per Day
D83	Surface Impoundment Disposal	Gallons; Liters; Cubic Meters; or Cubic Yards
D99	Other Storage	Any Unit of Measure Listed Below
	Storage:	
S01	Container	Gallons; Liters; Cubic Meters; or Cubic Yards
S02	Tank Storage	Gallons; Liters; Cubic Meters; or Cubic Yards
S03	Waste Pile	Cubic Yards or Cubic Meters
S04	Surface Impoundment Storage	Gallons; Liters; Cubic Meters; or Cubic Yards
S05	Drip Pad	Gallons; Liters; Acres; Cubic Meters; Hectares; or Cubic Yards
S06	Containment Building Storage	Cubic Yards or Cubic Meters
S99	Other Disposal	Any Unit Measure Listed Below
	Treatment:	
T01	Tank Treatment	Gallons Per Day; Liters Per Day; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; or Metric Tons Per Hour
T02	Surface Impoundment Treatment	Gallons Per Day; Liters Per Day; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; or Metric Tons Per Hour
T03	Incinerator	Short Tons Per Hour Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per Hour
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Gallons Per Day; Liters Per Hour; or Million Btu Per Hour
T80	Boiler	Gallons; Liters; Gallons Per Hour; Liters Per Hour; Btu Per Hour; or Million Btu Per Hour
T81	Cement Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per \Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
T82	Lime Kiln	
T83	Aggregate Kiln}}	
T84	Phosphate Kiln	
T85	Coke Oven	
T86	Blast Furnace	
T87	Smelting, Melting, Or Refining Furnace	Gallons Per Day; Liters Per Day, Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day, Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour, Gallons Per Hour; Liters Per Hour; or Million Btu Per Hour
T88	Titanium Dioxide Chloride Oxidation Reactor	
T89	Methane Reforming Furnace	
T90	Pulping Liquor Recovery Furnace	
T91	Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid	
T92	Halogen Acid Furnaces	
T93	Other Industrial Furnaces Listed In 40 CFR §260.10	
T94	Containment Building - Treatment	Cubic Yards; Cubic Meters; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; Gallons Per Day; Liters Per Day, Metric Tons Per Hour, or Million Btu Per Hour
	Miscellaneous (Subpart X):	
X01	Open Burning/Open Detonation	Any Unit of Measure Listed Below
X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; Kilograms Per Hour; Gallons Per Hour; Liters Per Hour; or Gallons Per Day
X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; or Million Btu Per Hour
X04	Geologic Repository	Cubic Yards; Cubic Meters; Acre-feet; Hectare-meter; Gallons; or Liters
X99	Other Subpart X	Any Unit Measure Listed Below

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
Million Btu Per Hour	X
Cubic Yards	Y
Cubic Meters	C
Acres	B
Acre-feet	A
Hectares	Q
Hectare-meter	F
Btu Per Hour	I

Form Approved, OMB No. 2050-0034 Expires XX/XX/02

EPA I.D. Number *(Enter from Page 1)* Secondary ID Number *(Enter from Page 1)*

NM5890110518

XII. Process Codes and Design Capabilities *(Continued)*

***EXAMPLE FOR COMPLETING ITEM XII** (shown in line number X-1 below): A facility has a storage tank, which can hold 533.788 gallons.*

Line Number		A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY 1. Amount (Specify)	B. PROCESS DESIGN CAPACITY 2. Unit Of Measure (Enter code)	C. Process Total Number Of Units	For Official Use Only
X	1	S	0	2	5 3 3 . 7 8 8	G	0 0 1	

Hazardous Waste Management Facility, Thermal Treatment Facility, Radioactive Mixed Waste Management Facility, Manzano Storage Bunkers, High Bay Waste Storage Facility, Auxiliary Hot Cell Facility, ~~Corrective Action Management Unit, Temporary Unit, Low-Temperature Thermal Desorption Unit~~

(See Appendix B for Details)

	1	S	0	1	607,076 ~~559,266~~	G	005						
	~~2~~	~~S~~	~~0~~	~~2~~	~~101,900~~	~~Y~~	~~001~~						
	23	T	0	4	945 ~~935~~	U	002						
	34	T	0	4	10	J	001						
	~~5~~	~~T~~	~~0~~	~~4~~	~~1,500~~	~~N~~	~~001~~						
	46	X	0	2	40	J	002						
	57	X	0	3	(Thermal treatment of explosive waste) 2 ~~20.8~~	G	001						
	~~8~~	~~X~~	~~0~~	~~3~~	~~(Low temperature thermal desorption) 15~~	~~D~~	~~001~~						
	7												
	8												
	9												
1	0												

***NOTE:** If you need to list more than 13 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 "other" processes (i.e., D99, S99, T04 and X99) in Item XIII.*

XIII. Other Processes (Follow instructions from Item XII for D99, S99, T04 and X99 process codes)

Line Number (Enter # in w/XII)		2. Process Code (From list above)			B. PROCESS DESIGN CAPACITY 1. Amount (Specify)	B. PROCESS DESIGN CAPACITY 2. Unit Of Measure (Enter code)	C. Process Total Number Of Units	D. Description Of Process
X	1	T	0	4				In-situ Vitrification
	~~2~~	~~S~~	~~0~~	~~2~~	~~101,900~~	~~Y~~	~~001~~	~~CAMU remediation waste storage~~
	13	T	0	4	120 ~~110~~	U	002	Chemical deactivation
	13	T	0	4	220	U	002	Macroencapsulation
	13	T	0	4	605	U	002	Stabilization
	24	T	0	4	10	J	001	Thermal deactivation
	~~5~~	~~T~~	~~0~~	~~4~~	~~1,500~~	~~N~~	~~001~~	~~Soil Stabilization Unit~~

EPA ID Number (*Enter from page 1*)												Secondary ID Number (*Enter from page 1*)											
N	M	5	8	9	0	1	1	0	5	1	8												

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 possess 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. *Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item XIV-E.*

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 sued 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)									*(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

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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[a] (Enter code)				D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
Hazardous Waste Management Facility (HWMF), Thermal Treatment Facility, Radioactive Mixed Waste Management Facility (RMWMF), High Bay Waste Storage Facility (HBWSF), and Auxiliary Hot Cell Facility (AHCF), Manzano Storage Bunkers (MSB)[b]								
1	P001	125	K	S01				
2	P002	110	K	S01				
3	P003	110	K	S01				
4	P004	110	K	S01				
5	P005	125	K	S01				
6	P006	110	K	S01				
7	P007	110	K	S01				
8	P008	110	K	S01				
9	P009	110	K	S01				
10	P010	110	K	S01				
11	P011	125	K	S01				
12	P012	110	K	S01				
13	P013	110	K	S01				
14	P014	110	K	S01				
15	P015	110	K	S01				
16	P016	110	K	S01				
17	P017	110	K	S01				
18	P018	110	K	S01				
19	P020	110	K	S01				
20	P021	110	K	S01				
21	P022	200	K	S01				
22	P023	110	K	S01				
23	P024	110	K	S01				
24	P026	110	K	S01				
25	P027	110	K	S01				
26	P028	110	K	S01				
27	P029	1,600	K	S01				
28	P030	350	K	S01				
29	P031	110	K	S01				
30	P033	110	K	S01				

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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 code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
31	P034	110	K	S01				
32	P036	110	K	S01				
33	P037	110	K	S01				
34	P038	110	K	S01				
35	P039	110	K	S01				
36	P040	110	K	S01				
37	P041	110	K	S01				
38	P042	110	K	S01				
39	P043	110	K	S01				
40	P044	110	K	S01				
41	P045	110	K	S01				
42	P046	110	K	S01				
43	P047	110	K	S01				
44	P048	110	K	S01				
45	P049	110	K	S01				
46	P050	110	K	S01				
47	P051	110	K	S01				
48	P054	110	K	S01				
49	P056	110	K	S01				
50	P057	110	K	S01				
51	P058	110	K	S01				
52	P059	110	K	S01				
53	P060	110	K	S01				
54	P062	110	K	S01				
55	P063	110	K	S01				
56	P064	250	K	S01				
57	P065	110	K	S01				
58	P066	110	K	S01				
59	P067	110	K	S01				
60	P068	110	K	S01				
61	P069	110	K	S01				
62	P070	110	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
63	P071	110	K	S01				
64	P072	110	K	S01				
65	P073	110	K	S01				
66	P074	110	K	S01				
67	P075	110	K	S01				
68	P076	110	K	S01				
69	P077	110	K	S01				
70	P078	130	K	S01				
71	P081	110	K	S01				
72	P082	110	K	S01				
73	P084	110	K	S01				
74	P085	110	K	S01				
75	P087	150	K	S01				
76	P088	110	K	S01				
77	P089	110	K	S01				
78	P092	110	K	S01				
79	P093	110	K	S01				
80	P094	110	K	S01				
81	P095	110	K	S01				
82	P096	110	K	S01				
83	P097	110	K	S01				
84	P098	150	K	S01				
85	P099	110	K	S01				
86	P101	110	K	S01				
87	P102	110	K	S01				
88	P103	110	K	S01				
89	P104	200	K	S01				
90	P105	110	K	S01				
91	P106	1100	K	S01				
92	P108	110	K	S01				
93	P109	110	K	S01				

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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[a] (Enter code)				D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
94	P110	110	K	S01				
95	P111	110	K	S01				
96	P112	110	K	S01				
97	P113	150	K	S01				
98	P114	110	K	S01				
99	P115	110	K	S01				
100	P116	110	K	S01				
101	P118	110	K	S01				
102	P119	110	K	S01				
103	P120	125	K	S01				
104	P121	110	K	S01				
105	P122	110	K	S01				
106	P123	110	K	S01				
107	P127	110	K	S01				
108	P128	110	K	S01				
109	P185	110	K	S01				
110	P188	110	K	S01				
111	P189	110	K	S01				
112	P190	110	K	S01				
113	P191	110	K	S01				
114	P192	110	K	S01				
115	P194	110	K	S01				
116	P196	110	K	S01				
117	P197	110	K	S01				
118	P198	110	K	S01				
119	P199	110	K	S01				
120	P201	110	K	S01				
121	P202	110	K	S01				
122	P203	110	K	S01				
123	P204	110	K	S01				
124	P205	110	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
125	U001	110	K	S01				
126	U002	1,100	K	S01				
127	U003	350	K	S01				
128	U004	110	K	S01				
129	U005	110	K	S01				
130	U006	110	K	S01				
131	U007	110	K	S01				
132	U008	200	K	S01				
133	U009	110	K	S01				
134	U010	110	K	S01				
135	U011	110	K	S01				
136	U012	125	K	S01				
137	U014	110	K	S01				
138	U015	110	K	S01				
139	U016	110	K	S01				
140	U017	110	K	S01				
141	U018	110	K	S01				
142	U019	250	K	S01				
143	U020	110	K	S01				
144	U021	110	K	S01				
145	U022	110	K	S01				
146	U023	110	K	S01				
147	U024	110	K	S01				
148	U025	110	K	S01				
149	U026	110	K	S01				
150	U027	110	K	S01				
151	U028	5,100	K	S01				
152	U029	110	K	S01				
153	U030	110	K	S01				
154	U031	600	K	S01				
155	U032	600	K	S01				
156	U033	110	K	S01				

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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 code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
157	U034	110	K	S01				
158	U035	150	K	S01				
159	U036	600	K	S01				
160	U037	150	K	S01				
161	U038	110	K	S01				
162	U039	110	K	S01				
163	U041	110	K	S01				
164	U042	110	K	S01				
165	U043	110	K	S01				
166	U044	250	K	S01				
167	U045	125	K	S01				
168	U046	110	K	S01				
169	U047	110	K	S01				
170	U048	110	K	S01				
171	U049	110	K	S01				
172	U050	110	K	S01				
173	U051	175	K	S01				
174	U052	125	K	S01				
175	U053	110	K	S01				
176	U055	125	K	S01				
177	U056	350	K	S01				
178	U057	125	K	S01				
179	U058	110	K	S01				
180	U059	110	K	S01				
181	U060	110	K	S01				
182	U061	110	K	S01				
183	U062	110	K	S01				
184	U063	110	K	S01				
185	U064	110	K	S01				
186	U066	110	K	S01				
187	U067	125	K	S01				
188	U068	110	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
189	U069	200	K	S01				
190	U070	150	K	S01				
191	U071	110	K	S01				
192	U072	110	K	S01				
193	U073	110	K	S01				
194	U074	110	K	S01				
195	U075	300	K	S01				
196	U076	110	K	S01				
197	U077	300	K	S01				
198	U078	150	K	S01				
199	U079	150	K	S01				
200	U080	1,100	K	S01				
201	U081	110	K	S01				
202	U082	110	K	S01				
203	U083	110	K	S01				
204	U084	110	K	S01				
205	U085	110	K	S01				
206	U086	110	K	S01				
207	U087	110	K	S01				
208	U088	110	K	S01				
209	U089	110	K	S01				
210	U090	110	K	S01				
211	U091	110	K	S01				
212	U092	110	K	S01				
213	U093	110	K	S01				
214	U094	110	K	S01				
215	U095	110	K	S01				
216	U096	110	K	S01				
217	U097	110	K	S01				
218	U098	110	K	S01				
219	U099	110	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
220	U101	110	K	S01				
221	U102	120	K	S01				
222	U103	110	K	S01				
223	U105	110	K	S01				
224	U106	110	K	S01				
225	U107	150	K	S01				
226	U108	150	K	S01				
227	U109	110	K	S01				
228	U110	110	K	S01				
229	U111	110	K	S01				
230	U112	1,100	K	S01				
231	U113	110	K	S01				
232	U114	110	K	S01				
233	U115	110	K	S01				
234	U116	110	K	S01				
235	U117	130	K	S01				
236	U118	110	K	S01				
237	U119	110	K	S01				
238	U120	110	K	S01				
239	U121	300	K	S01				
240	U122	600	K	S01				
241	U123	135	K	S01				
242	U124	110	K	S01				
243	U125	110	K	S01				
244	U126	110	K	S01				
245	U127	110	K	S01				
246	U128	110	K	S01				
247	U129	110	K	S01				
248	U130	110	K	S01				
249	U131	150	K	S01				
250	U132	125	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
251	U133	350	K	S01				
252	U134	2,100	K	S01				
253	U135	175	K	S01				
254	U136	110	K	S01				
255	U137	110	K	S01				
256	U138	110	K	S01				
257	U140	150	K	S01				
258	U141	110	K	S01				
259	U142	110	K	S01				
260	U143	110	K	S01				
261	U144	400	K	S01				
262	U145	110	K	S01				
263	U146	110	K	S01				
264	U147	200	K	S01				
265	U148	110	K	S01				
266	U149	110	K	S01				
267	U150	110	K	S01				
268	U151	1,400 ~~1,100~~	K	S01				
269	U152	110	K	S01				
270	U153	110	K	S01				
271	U154	600	K	S01				
272	U155	110	K	S01				
273	U156	110	K	S01				
274	U157	110	K	S01				
275	U158	125	K	S01				
276	U159	225	K	S01				
277	U160	150	K	S01				
278	U161	150	K	S01				
279	U162	200	K	S01				
280	U163	110	K	S01				
281	U164	110	K	S01				
282	U165	1,100	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
283	U166	110	K	S01				
284	U167	110	K	S01				
285	U168	110	K	S01				
286	U169	300	K	S01				
287	U170	110	K	S01				
288	U171	125	K	S01				
289	U172	110	K	S01				
290	U173	110	K	S01				
291	U174	110	K	S01				
292	U176	110	K	S01				
293	U177	150	K	S01				
294	U178	150	K	S01				
295	U179	200	K	S01				
296	U180	200	K	S01				
297	U181	150	K	S01				
298	U182	125	K	S01				
299	U183	125	K	S01				
300	U184	125	K	S01				
301	U185	125	K	S01				
302	U186	150	K	S01				
303	U187	110	K	S01				
304	U188	125	K	S01				
305	U189	110	K	S01				
306	U190	110	K	S01				
307	U191	110	K	S01				
308	U192	110	K	S01				
309	U193	110	K	S01				
310	U194	110	K	S01				
311	U196	125	K	S01				
312	U197	110	K	S01				
313	U200	110	K	S01				
314	U201	125	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
315	U202	110	K	S01				
316	U203	110	K	S01				
317	U204	125	K	S01				
318	U205	110	K	S01				
319	U206	110	K	S01				
320	U207	110	K	S01				
321	U208	110	K	S01				
322	U209	120	K	S01				
323	U210	125	K	S01				
324	U211	200	K	S01				
325	U213	450	K	S01				
326	U214	110	K	S01				
327	U215	110	K	S01				
328	U216	110	K	S01				
329	U217	110	K	S01				
330	U218	110	K	S01				
331	U219	125	K	S01				
332	U220	600	K	S01				
333	U221	110	K	S01				
334	U222	110	K	S01				
335	U223	1,100	K	S01				
336	U225	150	K	S01				
337	U226	4,100	K	S01				
338	U227	1,600	K	S01				
339	U228	1,100	K	S01				
340	U234	110	K	S01				
341	U235	110	K	S01				
342	U236	110	K	S01				
343	U237	110	K	S01				
344	U238	110	K	S01				
345	U239	350	K	S01				
346	U240	110	K	S01				

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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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
347	U243	110	K	S01				
348	U244	110	K	S01				
349	U246	110	K	S01				
350	U247	110	K	S01				
351	U248	110	K	S01				
352	U249	110	K	S01				
353	U271	110	K	S01				
354	U278	110	K	S01				
355	U279	110	K	S01				
356	U280	110	K	S01				
357	U328	110	K	S01				
358	U353	110	K	S01				
359	U359	200	K	S01				
360	U364	110	K	S01				
361	U367	110	K	S01				
362	U372	110	K	S01				
363	U373	110	K	S01				
364	U387	110	K	S01				
365	U389	110	K	S01				
366	U394	110	K	S01				
367	U395	110	K	S01				
368	U404	110	K	S01				
369	U409	110	K	S01				
370	U410	110	K	S01				
371	U411	110	K	S01				
372	F001	265,000	K	S01	T04	X02	X03	
373	F002	272,000	K	S01	T04	X02	X03	
374	F003	275,000	K	S01	T04	X02	X03	
375	F004	1,500	K	S01	T04	X02	X03	
376	F005	262,000	K	S01	T04	X02	X03	
377	F006	200	K	S01				

EPA I.D. Number *(Enter from Page 1)* Secondary ID Number *(Enter from Page 1)*

NM5890110518

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[a] (Enter code)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
378	F007	6,500	K	S01				
379	F008	200	K	S01				
380	F009	200	K	S01				
381	F010	200	K	S01				
382	F011	200	K	S01				
383	F012	100	K	S01				
384	F019	100	K	S01				
385	F020	100	K	S01				
386	F021	100	K	S01				
387	F022	100	K	S01				
388	F023	100	K	S01				
389	F024	100	K	S01				
390	F025	100	K	S01				
391	F026	100	K	S01				
392	F027	150	K	S01				
393	F028	100	K	S01				
394	FO32	100	K	S01				
395	F034	100	K	S01				
396	F035	100	K	S01				
397	F037	100	K	S01				
398	F038	100	K	S01				
399	F039	250,000	K	S01	T04			
400	D001	125,500~~115,000~~	K	S01	T04	X02	X03	
401	D002	58,000	K	S01	T04	X02		
402	D003	41,000~~32,000~~	K	S01	T04	X03		
403	D004	39,000	K	S01	T04	X02		
404	D005	48,000	K	S01	T04	X02		
405	D006	105,000	K	S01	T04	X02		
406	D007	66,000	K	S01	T04	X02		
407	D008	125,000	K	S01	T04	X02		
408	D009	40,000	K	S01	T04	X02		
409	D010	2,000	K	S01	T04	X02		

EPA I.D. Number *(Enter from Page 1)* Secondary ID Number *(Enter from Page 1)*

NM5890110518

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[a] (Enter code)				D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
410	D011	45,000	K	S01	T04	X02	X03	
411	D012	25,050	K	S01				
412	D013	150	K	S01				
413	D014	150	K	S01				
414	D015	150	K	S01				
415	D016	150	K	S01				
416	D017	150	K	S01				
417	D018	32,000	K	S01	T04	X02		
418	D019	25,200	K	S01	T04	X02		
419	D020	25,050	K	S01	T04	X02		
420	D021	25,100	K	S01	T04	X02		
421	D022	26,000	K	S01	T04	X02		
422	D023	25,050	K	S01	T04	X02		
423	D024	25,050	K	S01	T04	X02		
424	D025	25,050	K	S01	T04	X02		
425	D026	25,100	K	S01	T04	X02		
426	D027	25,100	K	S01	T04	X02		
427	D028	26,000	K	S01	T04	X02		
428	D029	25,100	K	S01	T04	X02		
429	D030	25,500	K	S01	T04	X02		
430	D031	25,050	K	S01	T04	X02		
431	D032	25,100	K	S01	T04	X02		
432	D033	25,100	K	S01	T04	X02		
433	D034	25,500	K	S01	T04	X02		
434	D035	40,000	K	S01	T04	X02		
435	D036	25,100	K	S01	T04	X02		
436	D037	25,100	K	S01	T04	X02		
437	D038	25,100	K	S01	T04	X02		
438	D039	27,000	K	S01	T04	X02		
439	D040	30,000	K	S01	T04	X02		
440	D041	25,050	K	S01	T04	X02		
441	D042	25,050	K	S01	T04	X02		

EPA I.D. Number *(Enter from Page 1)* Secondary ID Number *(Enter from Page 1)*

NM5890110518

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[a] (Enter code)				D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
442	D038	25,100	K	S01	T04	X02		
443	D039	27,000	K	S01	T04	X02		
444	D040	30,000	K	S01	T04	X02		
445	D041	25,050	K	S01	T04	X02		
446	D042	25,050	K	S01	T04	X02		
447	D043	25,050	K	S01	T04	X02		

Notes for wastes described above:

[a] A waste carrying a particular EPA Hazardous Waste No. may be treated using any one or a combination, as appropriate, of the listed process codes. Multiple treatment process codes listed for one EPA Hazardous Waste No. do not imply a treatment train.

[b] Remediation wastes are generated during site investigations and corrective actions conducted under the SNL/NM Environmental Restoration (ER) Project. Remediation wastes that are managed through the HWMF, RMWMF, HBWSF, AHCF, and MSB are characterized to determine whether they are RCRA-regulated wastes. The waste codes and volumes of these remediation wastes are included in the totals in Column B. Estimated Annual Quantity of Waste.

~~Corrective Action Management Unit (CAMU), Low Temperature Thermal Desorption Unit (LTTD), Temporary Unit (TU)~~

	~~D001-D043, F001, F002, F003, F005, F039~~	~~50,000~~	~~Y~~	~~S99~~	~~T04~~	~~X03~~		~~T04 = soil stabilization in TU; X03 = thermal treatment in LTTD; S99 = management in CAMU containment cell~~

~~Notes for remediation wastes managed at the CAMU:~~
~~Some of the remediation wastes generated during site investigations and corrective action conducted under the SNL/NM ER Project are managed at the CAMU. CAMU processes include a LTTD, a TU (soil stabilization unit), and a containment cell. The majority of the remediation wastes to be managed at the CAMU are generated through excavation (remediation) of the Chemical Waste Landfill (CWL). These remediation wastes are characterized to determine whether they meet the waste acceptance criteria for management at the CAMU. For the most part, the CAMU remediation wastes are characterized only for the purposes of determining whether treatment is required and the type of treatment needed; CAMU remediation wastes are not routinely assigned RCRA waste codes. All of the remediation waste is included in this Part A for completeness, and all of the hazardous waste codes that may be applicable to any of the remediation wastes managed at the CAMU are listed above. Not all of the waste codes apply to all of the remediation waste, so volumes have not been assigned to individual waste codes.~~

EPA ID Number (*Enter from page 1*)	Secondary ID Number (*Enter from page 1*)
N M 5 8 9 0 1 1 0 5 1 8	

XV. Map

Attach to this application a topographic map, or other equivalent 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. ***See Figure B-1***

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (See instructions for more detail). ***See Appendix B***

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). ***See Appendix B***

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 infomration, the information submitted is, to 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
Name and Official Title (Type or print) Michael Zamorski, Area Manager, DOE/OKSO	
Owner Signature	Date Signed
Name and Official Title (Type or print)	
Co-Operator Signature	Date Signed
Name and Official Title (Type or print) Michael Zamorski, Area Manager, DOE/OKSO	
Co-Operator Signature	Date Signed
Name and Official Title (Type or print) Donald H. Blanton, Vice President, Human Resources and Protection Services, Sandia Corporation	

XIX. Comments

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

APPENDIX A

ACTIVE ENVIRONMENTAL PERMITS

Sandia National Laboratories/New Mexico
Active Environmental Permits as of 01/22/02

Permit Type and/or Facility Name	Permit Number	Issue Date	Expiration Date	Regulatory Agency
SEWER WASTEWATER				
General	2069 A-5	01/3/00	06/30/03	COA
General	2069 F-5	01/3/00	06/30/03	COA
Microelectronics Development Laboratory	2069 G-4	07/1/98	05/31/02	COA
General	2069 I-4	01/24/00	01/31/04	COA
General	2069 K-3	07/1/98	02/28/02	COA
SURFACE DISCHARGE				
Pulsed Power Development Facilities (Discharge Plan)	DP-530	09/21/01	09/21/06	NMED
UNDERGROUND STORAGE TANKS				
9,730 gal emergency generator fuel		07/1/00	06/30/01[a]	NMED, UST Bur.
20,000 gal oil storage tank		07/1/00	06/30/01[a]	NMED, UST Bur.
20,000 gal oil storage tank		07/1/00	06/30/01[a]	NMED, UST Bur.
STORM WATER				
National Pollution Discharge Elimination System "Multi-sector General" Permit	NMR05A960	12/00	09/30/05	EPA
Storm Drain, Sanitary Sewer, and Domestic Water System Modernization	NMR10B507	06/29/99	06/31/03 (estimated date)	EPA
ECOLOGICAL				
New Mexico Department of Game and Fish for Scientific/Educational Purposes Authorization for Taking of Protected Wildlife	2931	01/1/01	12/31/01[a]	New Mexico Department of Game and Fish
Fish and Wildlife Special Purpose Salvage Permit (for migratory birds)		05/30/01	12/31/03	U.S. Fish and Wildlife Service

NOTE:

[a] Applied for permit renewal; not yet received.
COA = City of Albuquerque
NMED = New Mexico Environment Department
EPA = U.S. Environmental Protection Agency
UST Bur. = Underground Storage Tank Bureau

Sandia National Laboratories/New Mexico
Active Environmental Permits as of 01/22/02
(Continued)

Permit Type and/or Facility Name	Permit Number	Issue Date	Expiration Date	Regulatory Agency
RCRA				
"RCRA Part B Operating Permit" for the Hazardous Waste Management Facility Module I - General Permit Conditions Module II - General Facility Conditions Module III - Containers	NM5890110518-1	08/6/92	08/06/02	NMED
"RCRA Part B Operating Permit" Module IV - Hazardous and Solid Waste Amendments Portion for Solid Waste Management Units	NM5890110518-1	08/26/93	09/20/02	EPA/NMED
"RCRA Part B Operating Permit" for the Thermal Treatment Facility Module I - General Permit Conditions Module II - General Facility Conditions Module III - Containers	NM5890110518-2	12/4/94	12/4/04	NMED
"RCRA Part A and B Permit Applications for Hazardous Waste Management Units" For the hazardous component in mixed waste stored and/or treated at three waste management areas.	NM5890110518	Interim status first submitted 8/90; Rev. 3, 11/96	Pending Review[b] (No expiration date)	NMED
Class III Permit Modification for the Management of Hazardous Remediation Waste in the Corrective Action Management Unit (CAMU), Technical Area III	NM5890110518	09/25/97	09/20/02	EPA/NMED
Class II Permit Modification for Temporary Treatment Operations at the CAMU	NM5890110518	06/19/98	One year after TU is ready for operation	EPA/NMED
Temporary Authorization for Low Temperature Thermal Desorption Unit at the CAMU	NM5890110518	08/03/98	6 months after the start of operations	NMED
TSCA				
Risk-Based Approval for Cleanup of the Chemical Waste Landfill		Notification 12/98	No expiration date	EPA Region 6
Storage of Soils Containing Polychlorinated Biphenyls (PCBs) at Regulated Levels		04/28/00 and 05/22/01	Storage period extended pending EPA decision on 40 CFR 761.61(c) request	EPA Region 6
Risk-Based Approval Request under 40 CFR 761.61(c); Risk-Based Method for Management of PCB Materials; Chemical Waste Landfill and CAMU		Pending		EPA Region 6

NOTE: [b]Submitted and awaiting agency review.
EPA = U.S. Environmental Protection Agency
NMED = New Mexico Environment Department
RCRA = Resource Conservation and Recovery Act
TSCA = Toxic Substances Control Act

Sandia National Laboratories/New Mexico
Active Environmental Permits as of 01/22/02
(Continued)

Permit Type and/or Facility Name	Permit Number	Issue Date	Expiration Date	Regulatory Agency
Open Burn Permits				
Fire Extinguisher (Fire Training)		[c]		COA
Burn Site (Building 9830)		[c]		COA
Burn Site/Sled Track (Wood Crib Fire Tests)		[c]		COA
Burn Site (Large Pool Fire Tests)		[c]		COA
185' Drop Tower (Alternative Fuel Tanks)		[c]		COA
Explosive Testing (Thermite Applications)		[c]		COA
9920 and Sled Track (Explosive Testing)		[c]		COA
Thermal Treatment Facility (permit must be submitted to NMED within 30 days of receipt)	76-OB-1-2002	01/8/02	12/31/02	COA
AIR (Permits & Registrations)				
Hammermill Facility	144	08/28/85	Biennial update	COA
Fire Laboratory used for the Authentication of Modeling and Experiments	196	5/19/88	Registration[†]	COA
Neutron Generator Facility	374- MI	7/17/98	Biennial update	COA
~~W76~~-Neutron Generator Recertification	396	5/7/96	Registration[†]	COA
Standby diesel generators (four)	402 (old 150)	5/07/96	Biennial update	COA
Radioactive & Mixed Waste Management Facility	415- M1	11/24/99	Biennial update	COA
Isotope Production Facility (Hot Cell Facility)	428	7/08/96	Biennial update	COA
Title V Operating Permit	515 (pending)	Submitted[b] 3/1/96	Pending (5 yr renewal)	COA
Classified Waste Landfill	560	12/17/96	Biennial update	COA
Classified Waste Landfill	NESHAP	06/96	Approval[††]	EPA, Region 6
Advanced Manufacturing Processes Laboratory	646	1/23/97	Biennial update	COA
Portable Burn Pools	647	5/5/97	Biennial update	COA
Chemical Waste Landfill -Voluntary Corrective Measure	648	5/23/97	Registration[†]	COA
Soil Washing / Soil Stabilization Unit, CAMU and Low Temperature Thermal Desorption Unit	888	4/20/98	Biennial update	COA
Emergency Generator	924	5/5/98	Biennial update	COA
Processing and Environmental Technology Laboratory	925	5/5/98	Biennial update	COA

NOTE: [†]Registration = Certificate, no permit required.
[††] Approval = EPA does not issue a permit.
[a]Applied for permit renewal; not yet received
[b]Submitted and awaiting agency review.
[c]Sandia/DOE has applied for this permit for calendar year 2002. The City of Albuquerque has not yet issued the permit.
EPA = U.S. Environmental Protection Agency

APPENDIX B

LOCATION-SPECIFIC PROCESS CODE LISTINGS, DESIGN CAPACITIES, FIGURES, AND PHOTOGRAPHS

LOCATION-SPECIFIC PROCESS CODE LISTINGS AND DESIGN CAPACITIES

Explanation of Process Code Listings and Design Capacities at the Hazardous Waste Management Facility

Description	Capacity	Associated Structure/Building
Line 1 S01 Container Storage		
Container storage area	99,950~~59,950~~ gallons	Building 958
Container storage area	7,590 gallons	Building 959
Container storage area	5,005~~1,100~~ gallons	Modular Storage Building 958B
Container storage area	5,005~~1,100~~ gallons	Modular Storage Building 958C
Total S01	**117,550~~69,740~~ gallons**	

Explanation of Process Code Listings and Design Capacities at the Thermal Treatment Facility

Description	Capacity	Associated Structure/Building
Line 5 X03 Treatment: Thermal		
Thermal treatment of explosive waste	2~~20.8~~ gallons/batch 20 pounds/batch	South of Building 6715
Total X03	**2~~20.8~~ gallons/batch** **20 pounds /batch**	

Explanation of Process Code Listings and Design Capacities at the Radioactive and Mixed Waste Management Facility

Description	Capacity	Associated Structure/Building
Line 1 S01 Container Storage		
Container storage area	13,420 gallons	Building 6920
Container storage area	7,810 gallons	Building 6921
Container storage area	83,160 gallons	Building 6925
Container storage area	83,160 gallons	Building 6926
Container storage area	1,100 gallons	Modular Storage Building
Container storage area	1,100 gallons	Modular Storage Building
Container storage area	19,800 gallons	Asphalt area N, E, and W of Building 6920
Total S01	**209,550 gallons**	
Line 3 T04 Other Treatment		
Chemical deactivation	65 gallons/day	Building 6920, Building 6921
Macroencapsulation	165 gallons/day	Building 6920, Building 6921
Stabilization	550 gallons/day	Building 6920, Building 6921
Thermal deactivation	10 pounds/hour	Building 6920
Total T04	**780 gallons/day and 10 pounds/hour**	
Line 4 X02 Mechanical Processing		
Mechanical processing	20 pounds/hour	Building 6920
Total X02	**20 pounds/hour**	

Explanation of Process Code Listings and Design Capacities at the High Bay Waste Storage Facility

Description	Capacity	Associated Structure/Building
Line 1 S01 Container Storage		
Container storage area	100,320 gallons	Building 6596
Total S01	**100,320 gallons**	

Explanation of Process Code Listings and Design Capacities at the Auxiliary Hot Cell Facility

Description	Capacity	Associated Structure/Building
Line 1 S01 Container Storage		
Container storage area	2,200 gallons	Building 6597
Storage silos	1,456 gallons	Building 6597
Total S01	**3,656 gallons**	
Line 2 T04 Other Treatment		
Chemical deactivation	55 gallons/day	Building 6597
Macroencapsulation	55 gallons/day	Building 6597
Stabilization	55 gallons/day	Building 6597
Total T04	**165 gallons/day**	
Line 4 X02 Mechanical Processing		
Mechanical processing	20 pounds/hour	Building 6597
Total X02	**20 pounds/hour**	

Explanation of Process Code Listings and Design Capacities at the Manzano Storage Bunkers

Description	Capacity	Associated Structure/Building
Line 1 S01 Container Storage		
Container storage area	50,160 gallons	Type B Bunkers Bunkers 37034 and 37063
Container storage area	70,400 gallons	Type C Bunkers Bunkers 37078 and 37118
Container storage area	55,440 gallons	Type D Bunkers Bunkers 37045, 37055, and 37057
Total S01	**176,000 gallons**	

~~Explanation of Process Code Listings and Design Capacities at the Corrective Action Management Unit (CAMU)~~

~~Description~~	~~Capacity~~	~~Associated Structure/Building~~
~~Line 1 S99 Remediation Waste Storage~~		
	~~60,000 yd^3~~	~~Bulk waste staging area~~
	~~4,000 yd^3~~	~~Sprung Structures~~
	~~800 yd^3~~	~~Containerized waste storage area~~
	~~37,100 yd^3~~	~~CAMU containment cell~~
~~Total S99~~	~~101,900 yd^3~~	
~~Line 5 T04 Other Treatment~~		
	~~1,500 yd$^{3/}$day~~	~~Soil Stabilization Unit~~
~~Total T04~~	~~1,500 yd$^{3/}$day~~	
~~Line 8 X03 Thermal Treatment~~		
	~~15 tons/hour~~	~~Low Temperature Thermal Desorption Unit~~
~~Total X03~~	~~15 tons/hour~~	

~~yd^3 = cubic yard(s).~~
~~yd$^{3/}$day = cubic yard(s) per day.~~
~~tons/hour = tons per hour.~~

FIGURES

TO VIEW THE MAP/MAPS ASSOCIATED WITH THIS DOCUMENT PLEASE CALL THE HAZARDOUS WASTE BUREAU AT 505-476-6000 TO MAKE AN APPOINTMENT

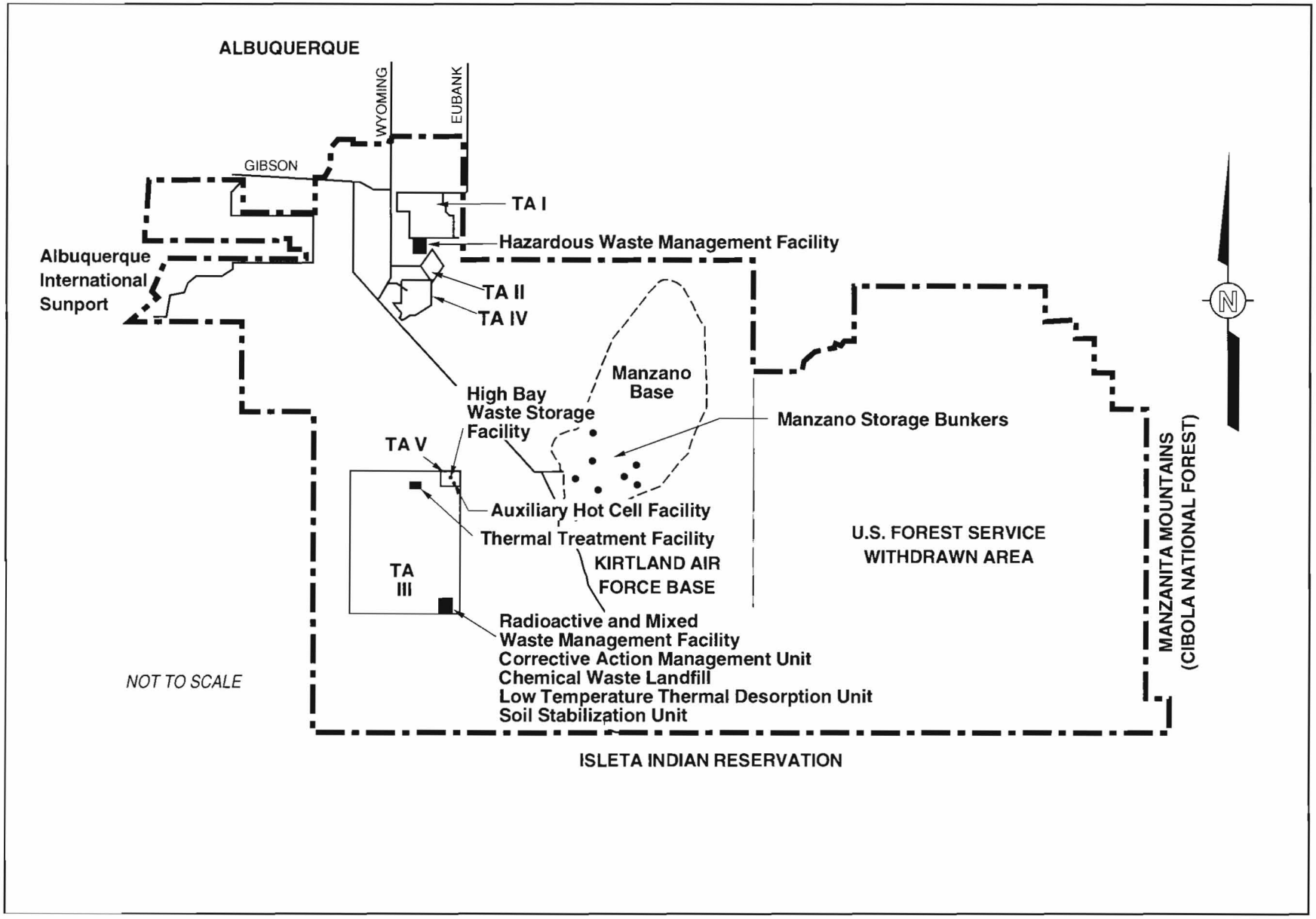


Figure B-2

Sandia National Laboratories/New Mexico, Technical Areas (TAs) and Resource Conservation and Recovery Act-Regulated Waste Management Units

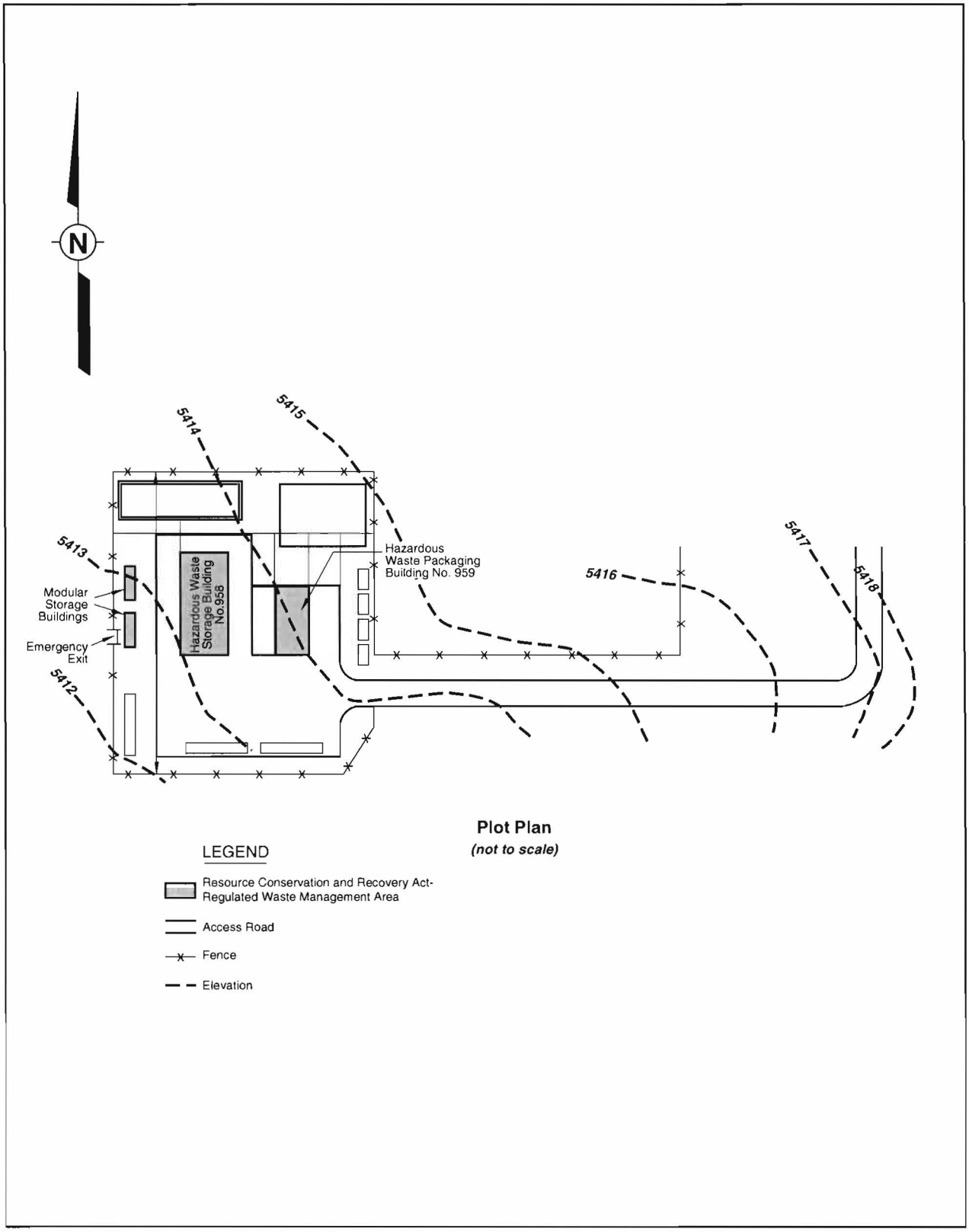
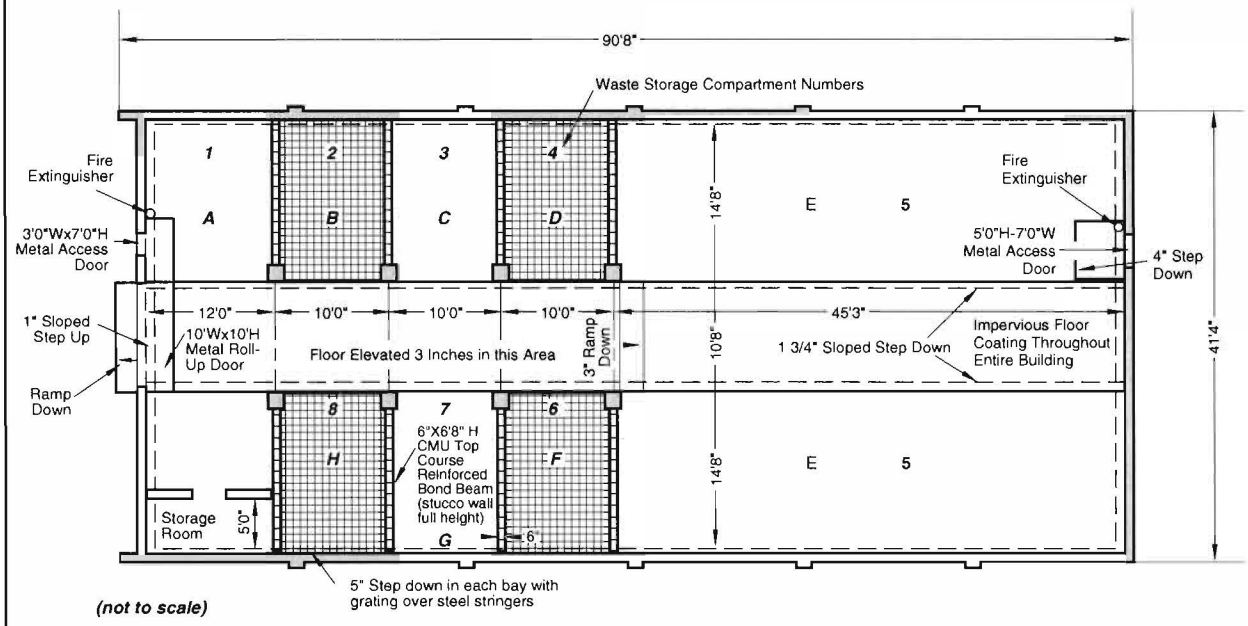


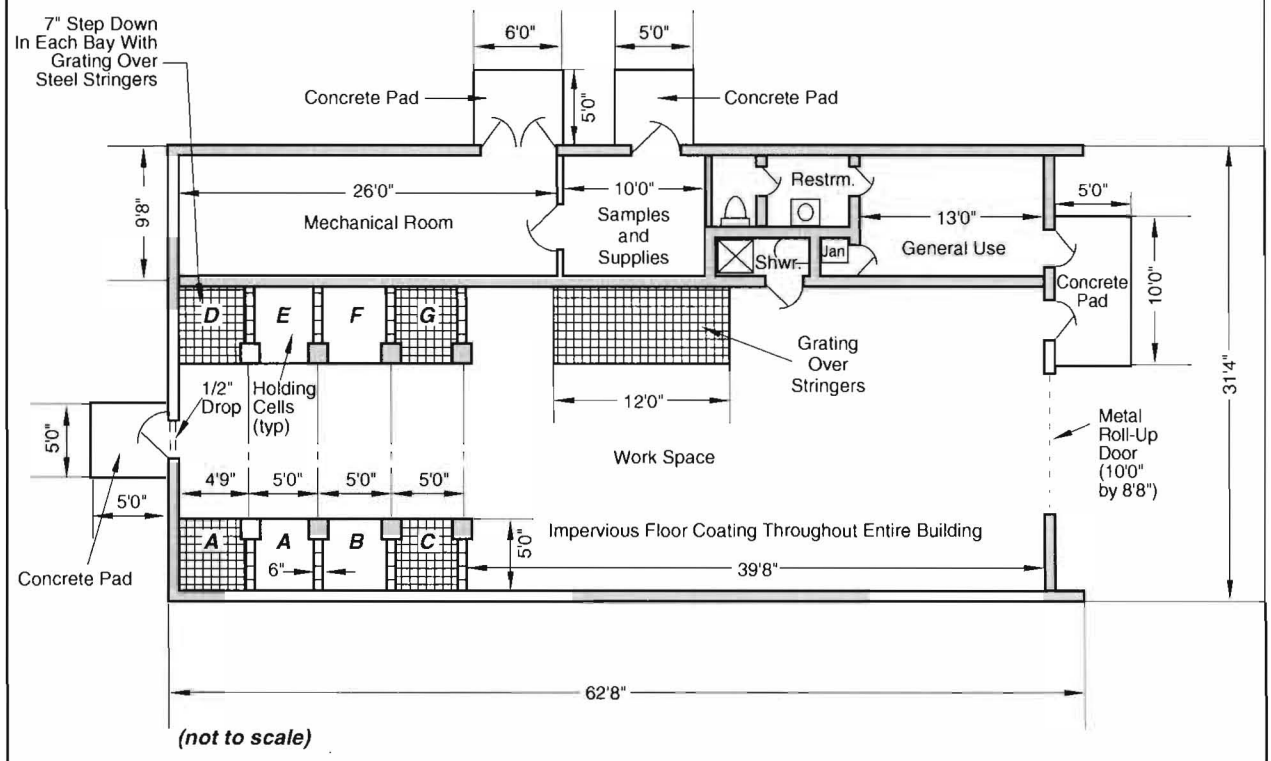
Figure B-3
Hazardous Waste Management Facility, Resource Conservation and Recovery Act-Regulated Waste Management Areas



Typical Waste Segregation Groups

- A Holding Bay
- B Poisons
- C Flammables
- D Oxidizers
- E Hydrocarbons, Organics, Solvents, Non-Regulated Wastes
- F Corrosives (caustics)
- G Corrosives (acids or caustics)
- H Corrosives (acids)

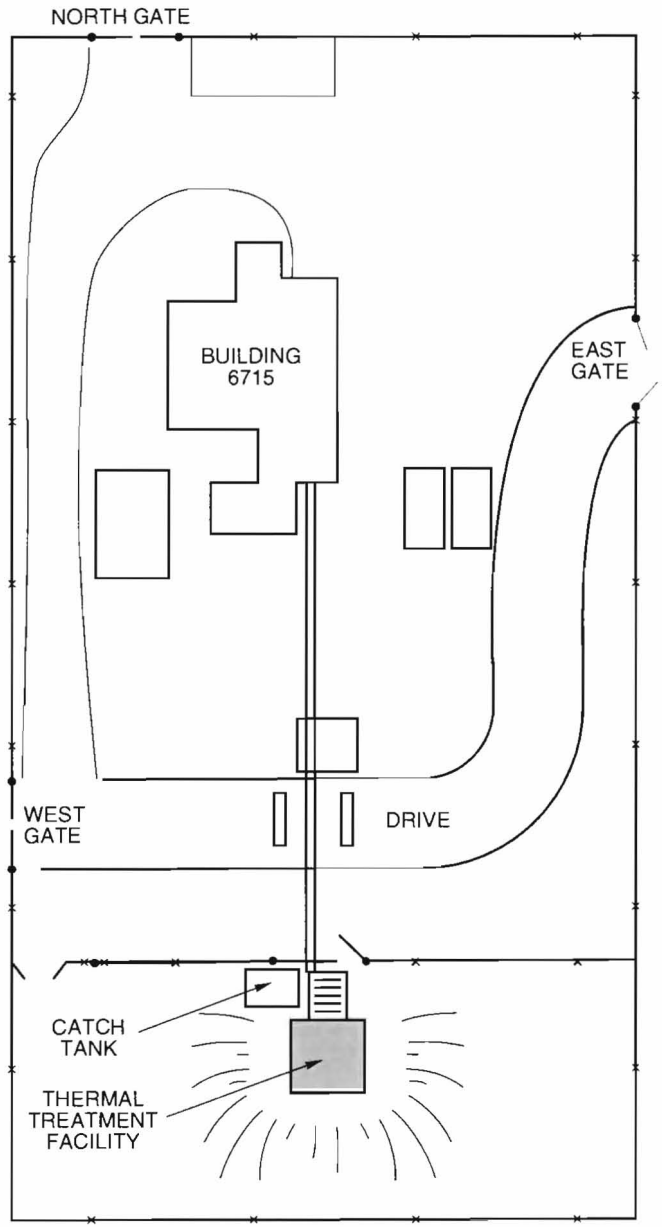
Figure B-4
Hazardous Waste Storage Building (Building 958), Floor Plan



Typical Waste Segregation Groups

A Hydrocarbons, Organics, and Solvents
B Class 9 Solids and Liquids
C Poisons
D Oxidizing Mineral Acids, Non-Acidic Oxidizers
E Non-Regulated Waste
F Caustics
G Organic Acids, Non-Oxidizing Mineral Acids, Mercury

Figure B-5
Hazardous Waste Packaging Building (Building 959), Floor Plan



SITE SKETCH NOT TO SCALE

LEGEND

- Resource Conservation And Recovery Act-Regulated Waste Management Area
- Access Road
- Fence
- Gate
- Steps
- Earthen Berm

Document: SNL/NM General Part A, Appendix B
Revision No.: ~~3.0~~ 4.0
Date: ~~January~~ May 2002

Figure B-6
Thermal Treatment Facility,
Resource Conservation and Recovery Act-Regulated Waste Management Area

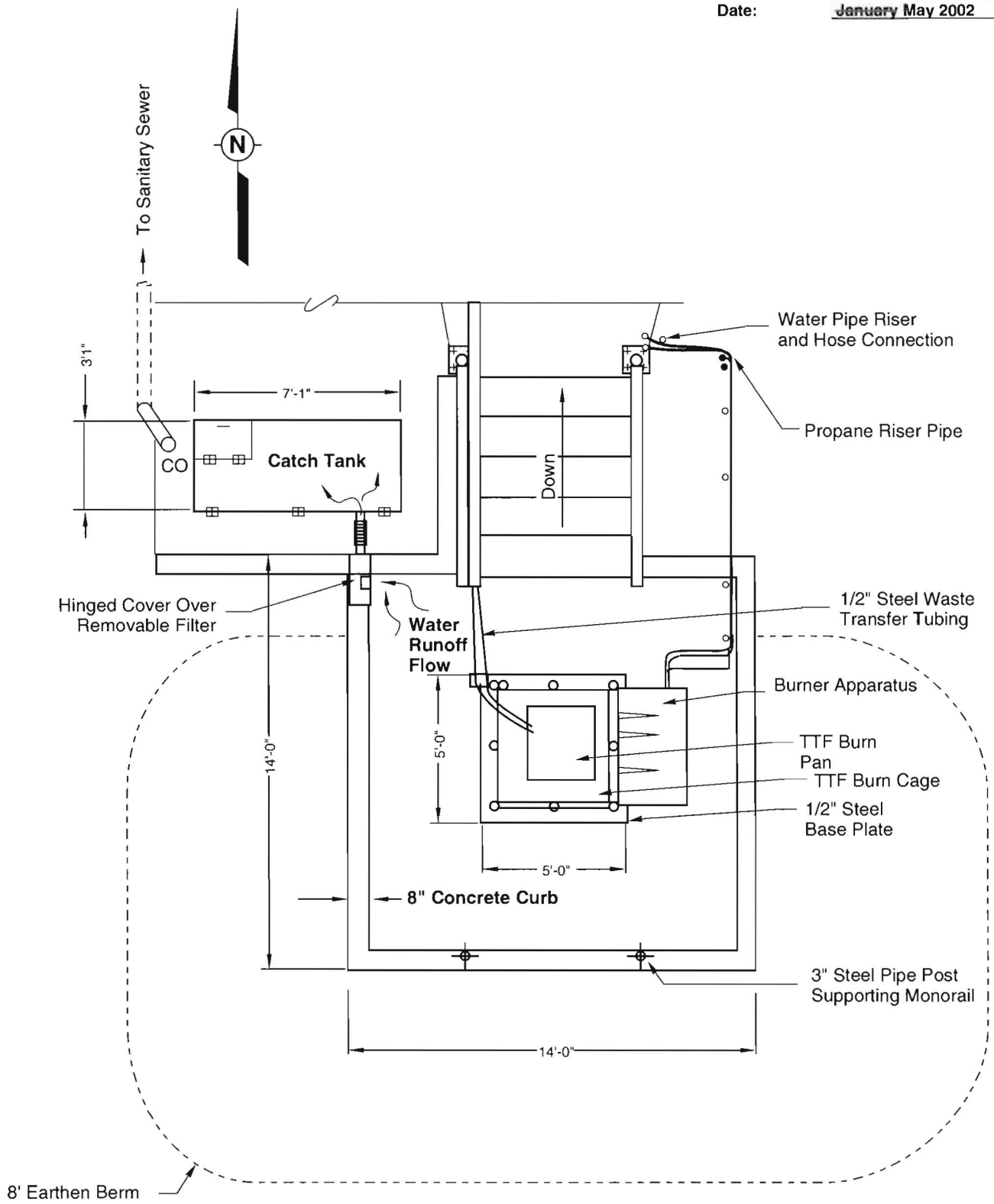


Figure B-7
Thermal Treatment Facility (TTF)—Plan View

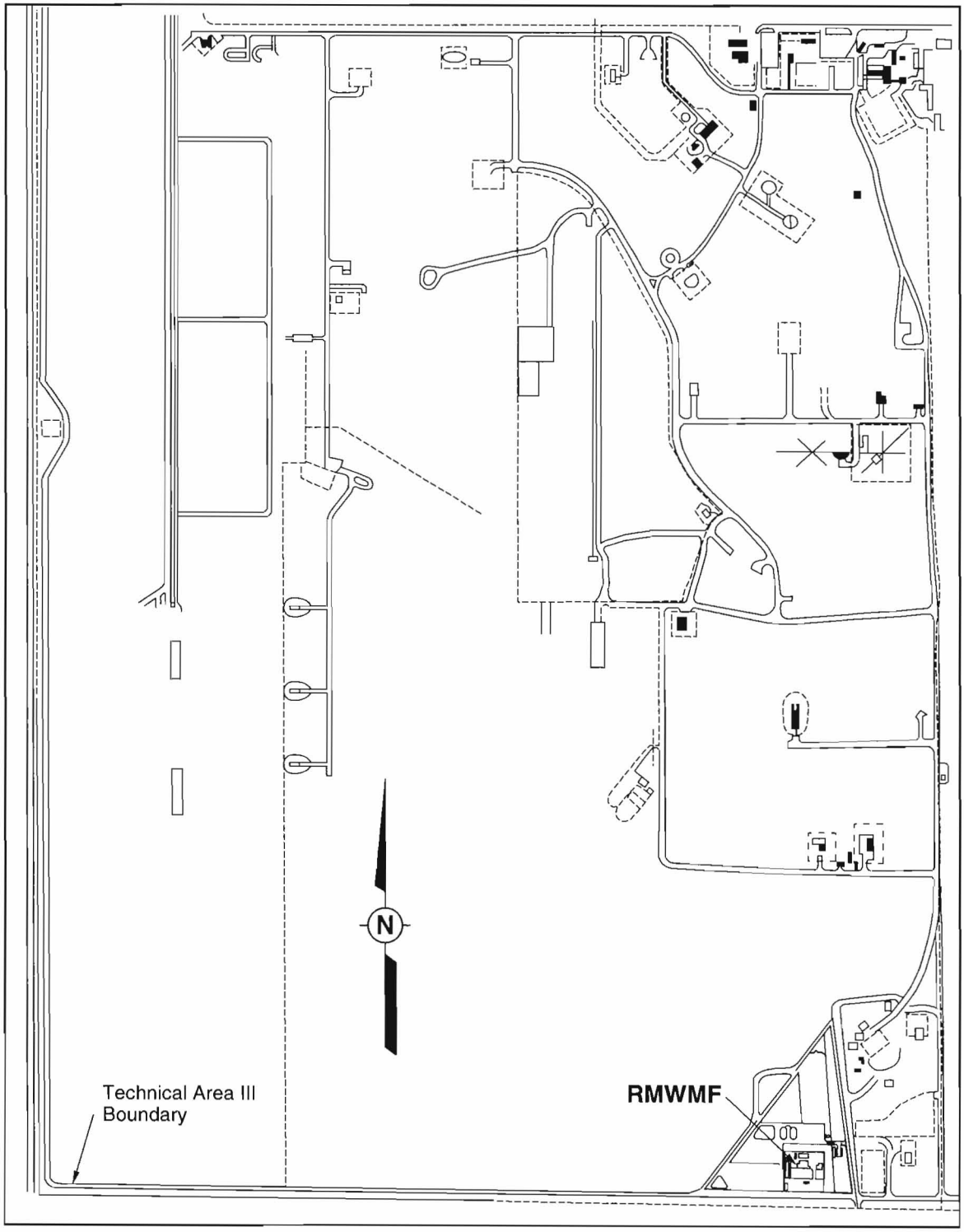


Figure B-8
Location of the Radioactive and Mixed Waste Management Facility (RMWMF) in Technical Area III

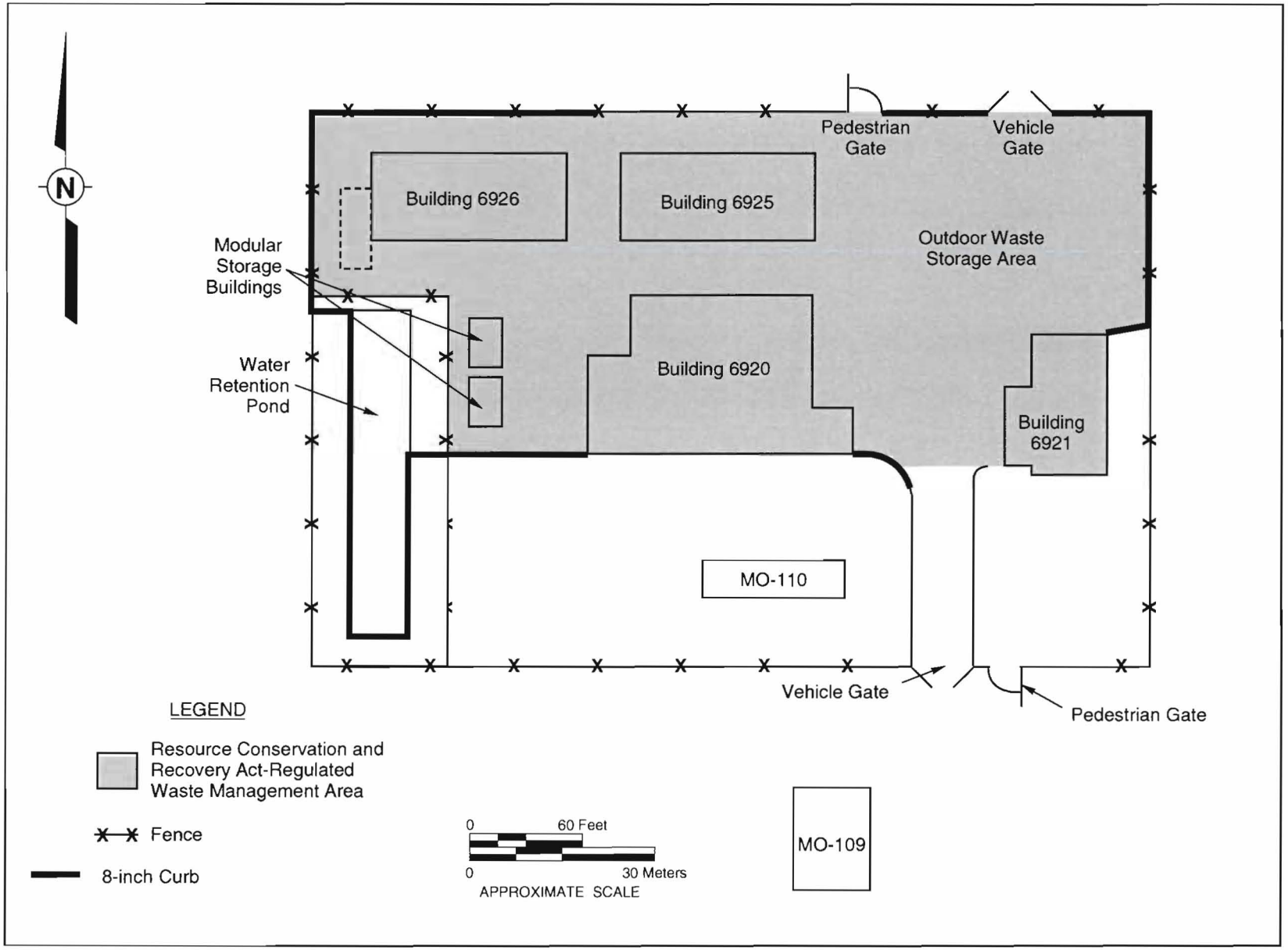


Figure B-9
Radioactive and Mixed Waste Management Facility,
Resource Conservation and Recovery Act-Regulated Waste Management Areas

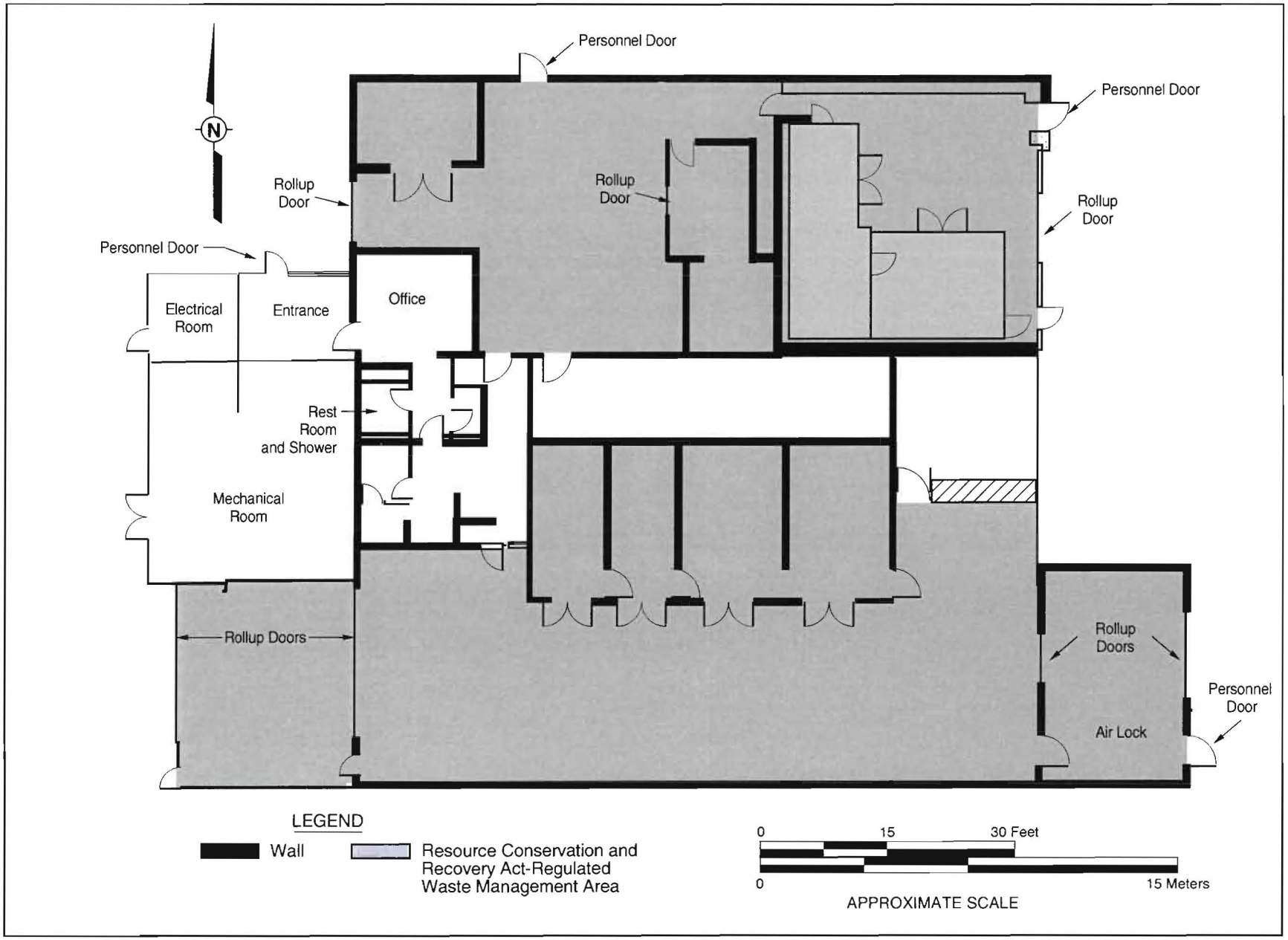


Figure B-10

Radioactive and Mixed Waste Management Facility, Building 6920, Resource Conservation and Recovery Act-Regulated Waste Management Areas

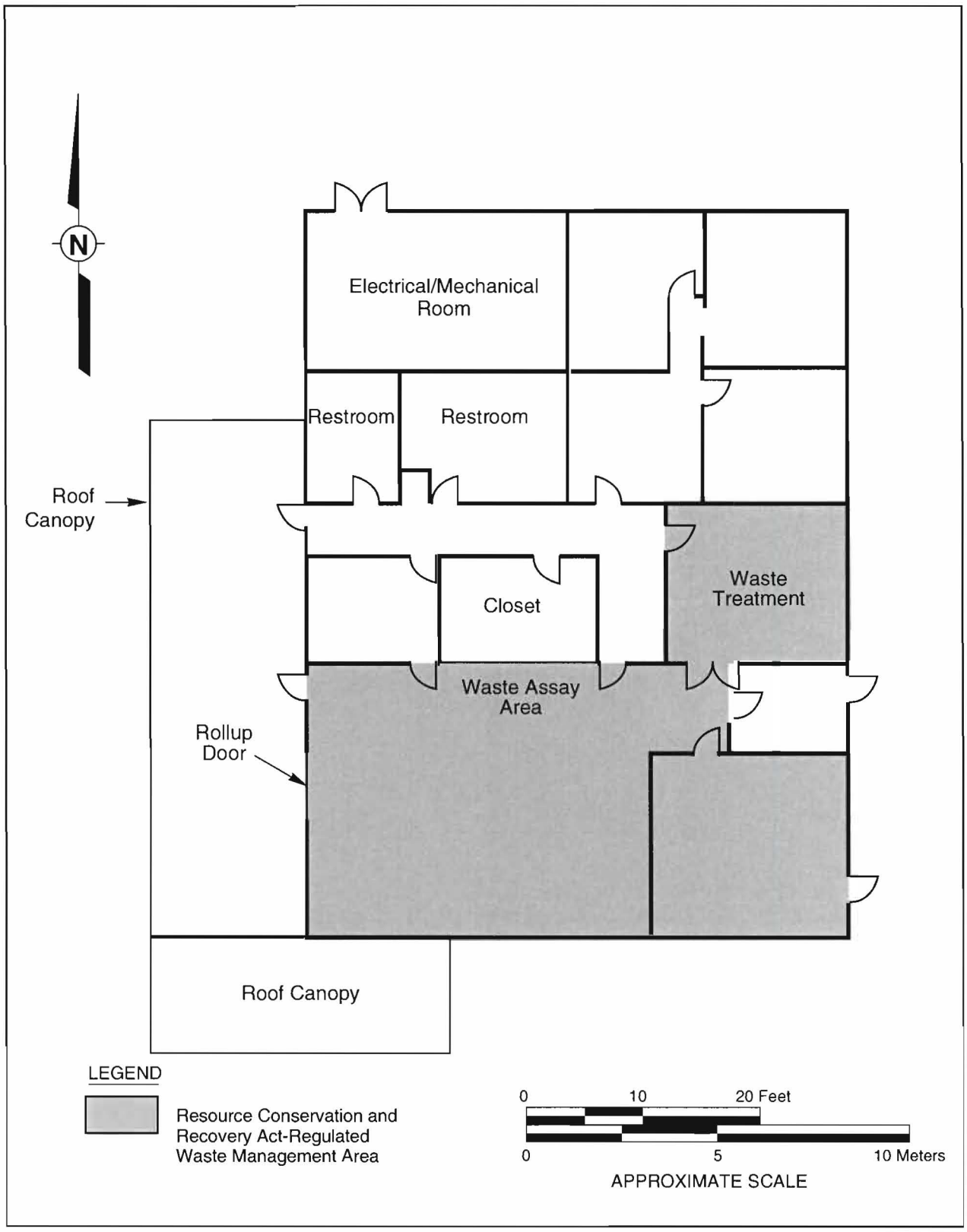


Figure B-11
Radioactive and Mixed Waste Management Facility, Building 6921, Resource Conservation and Recovery Act-Regulated Waste Management Areas

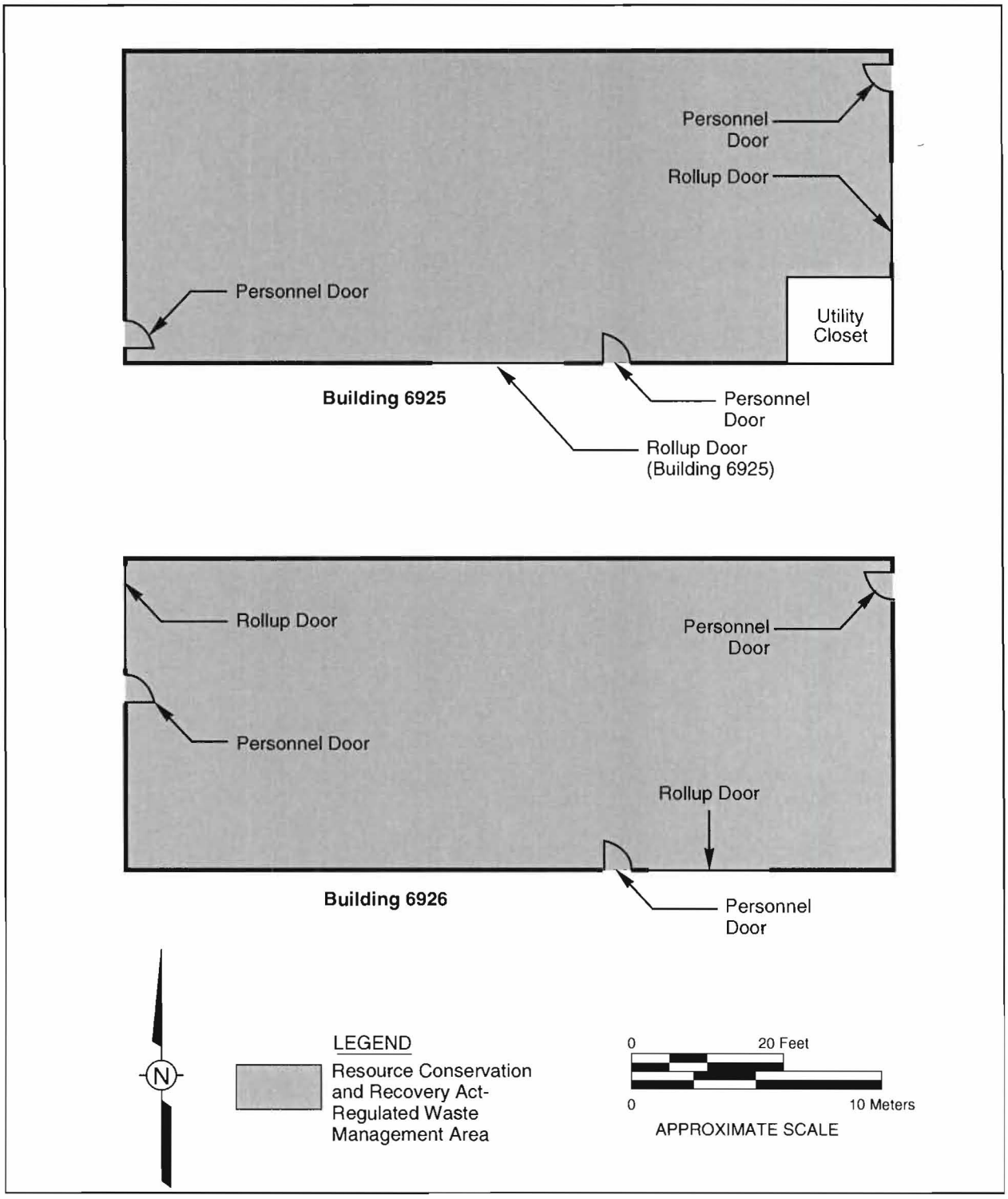


Figure B-12

Radioactive and Mixed Waste Management Facility Compound, Buildings 6925 and 6926, Resource Conservation and Recovery Act-Regulated Waste Management Areas

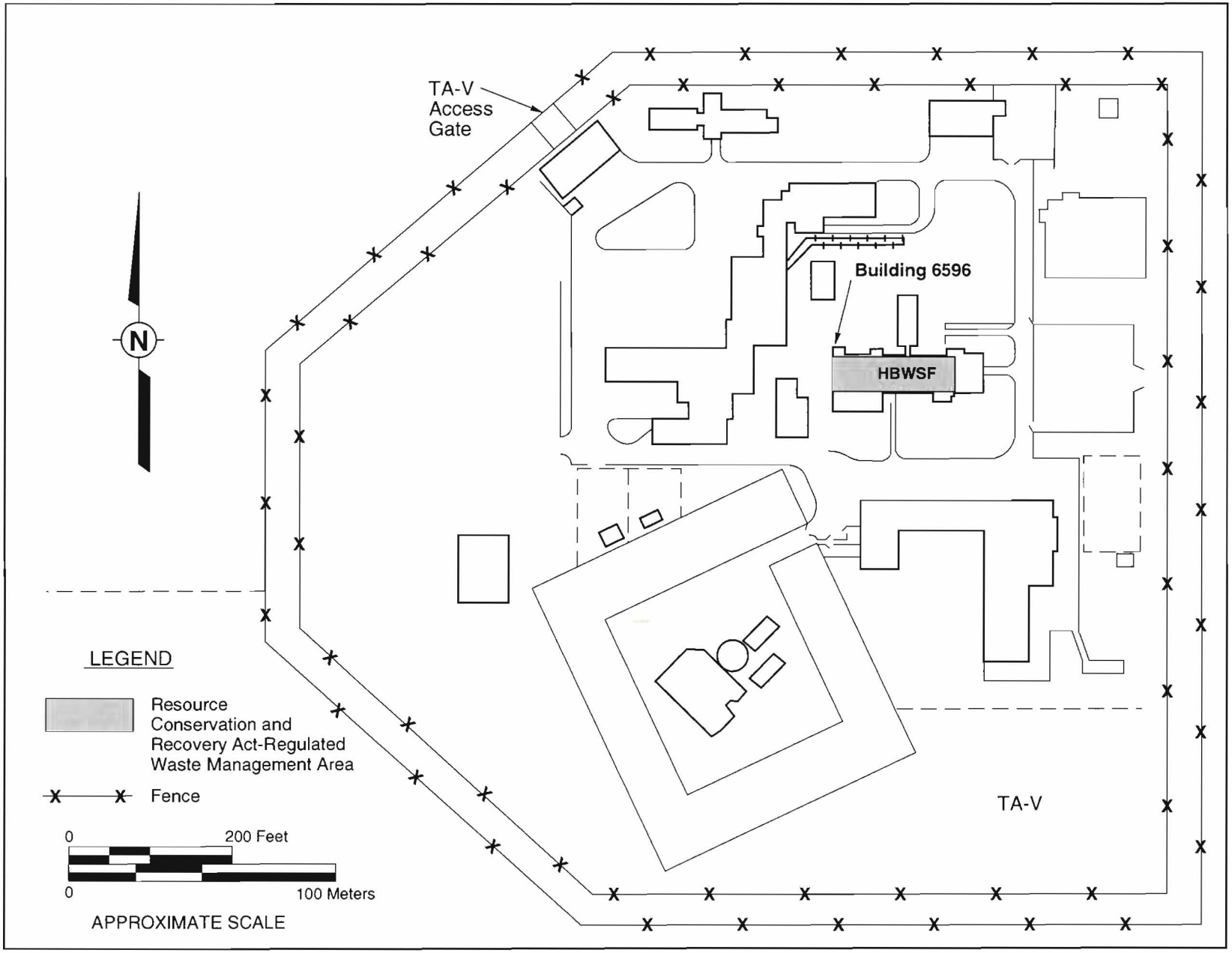


Figure B-13
Location of the High Bay Waste Storage Facility (HBWSF) in Technical Area (TA) V

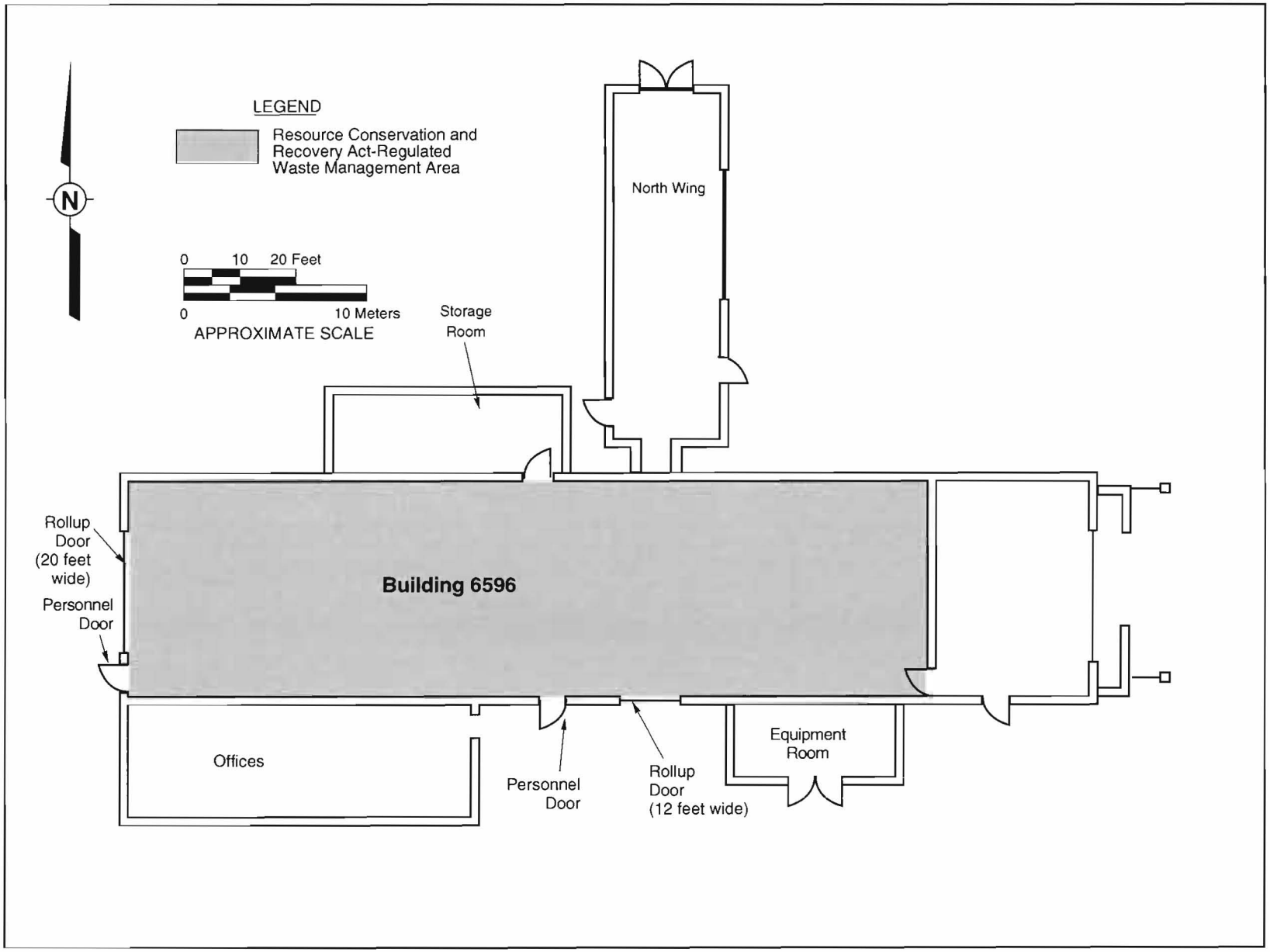


Figure B-14
High Bay Waste Storage Facility,
Resource Conservation and Recovery Act-Regulated Waste Management Area

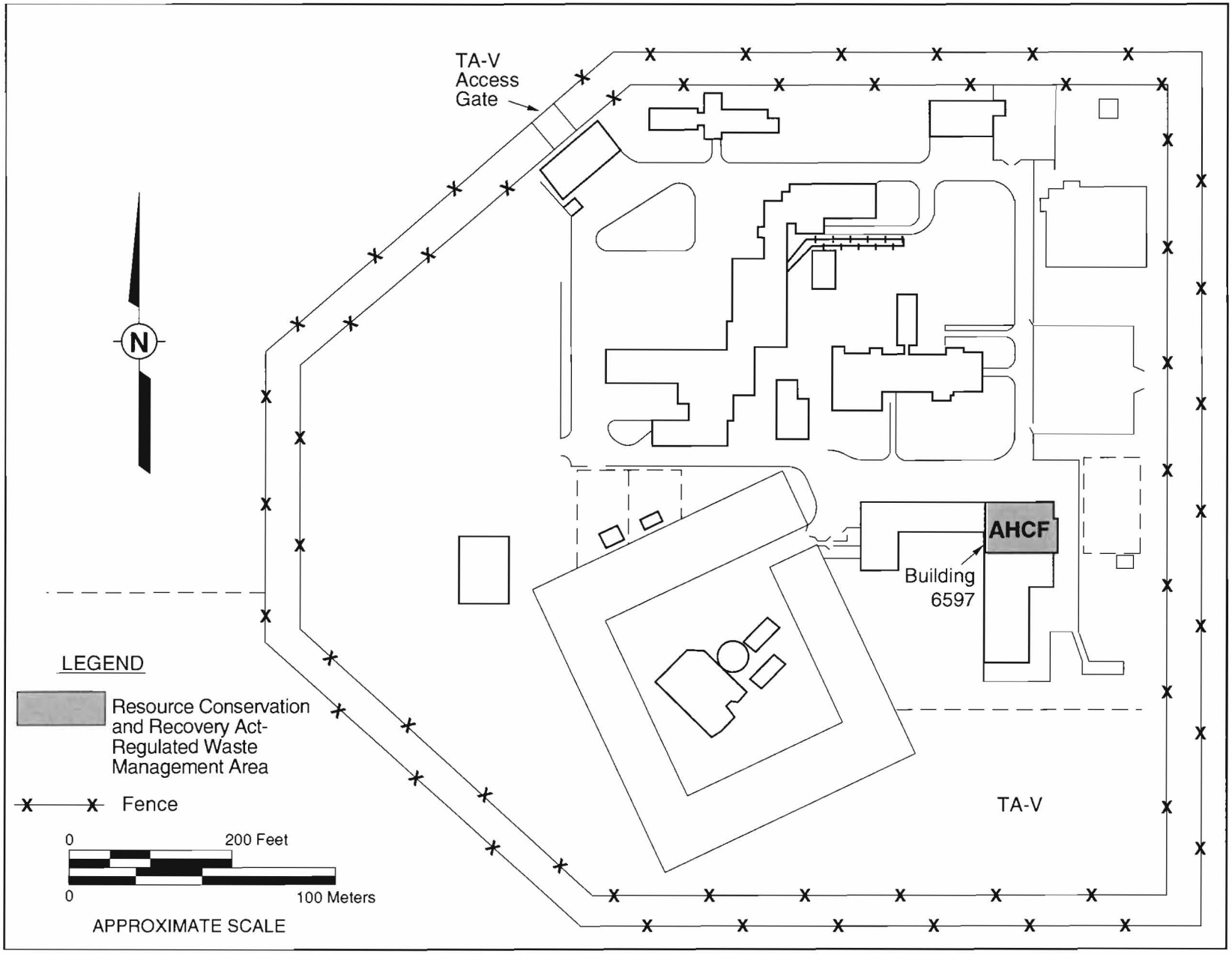
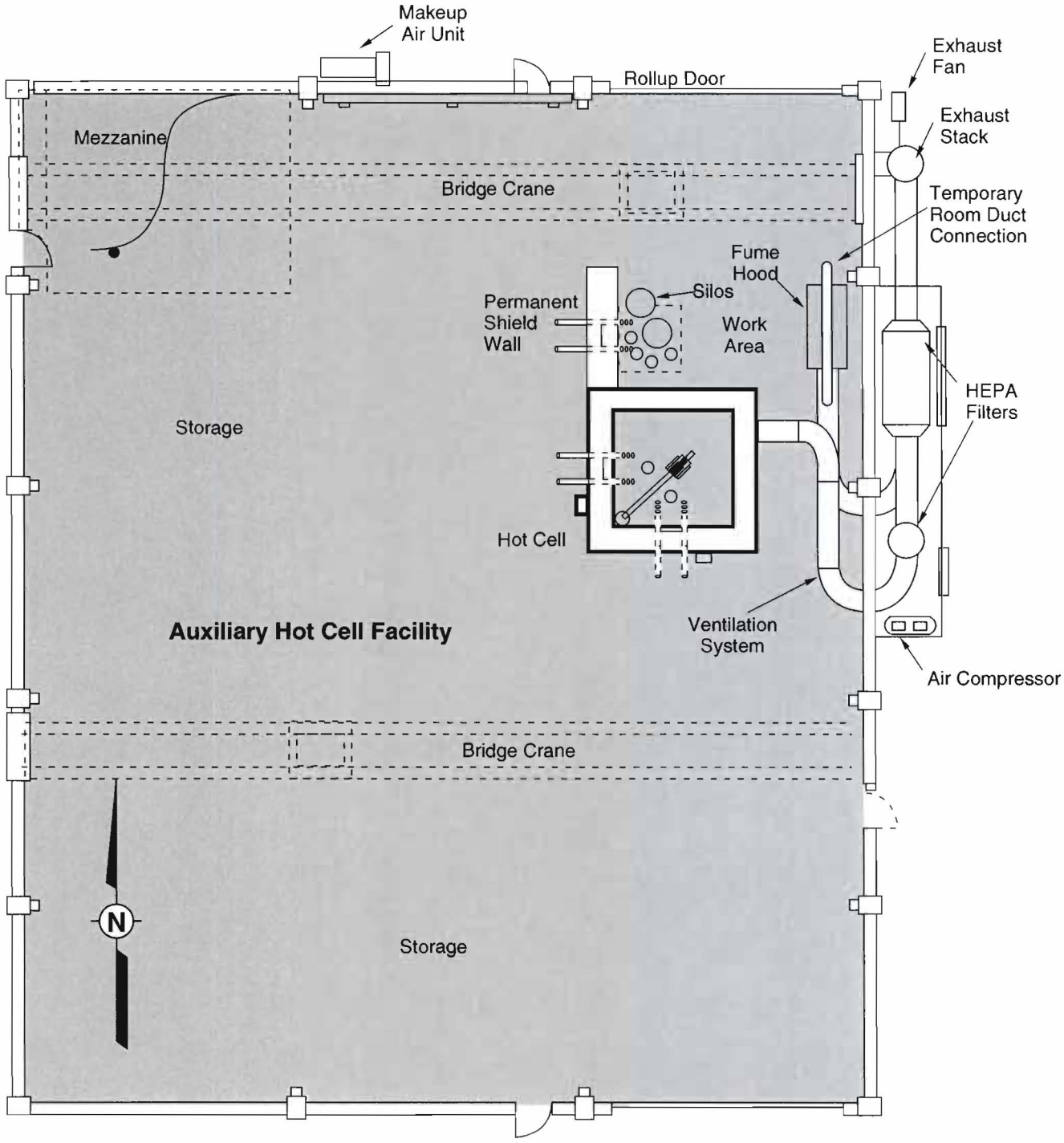


Figure B-15
Location of the Auxiliary Hot Cell Facility (AHCF) in Technical Area (TA) V



LEGEND

Resource Conservation and Recovery Act-Regulated Waste Management Area

Figure B-16

Auxiliary Hot Cell Facility, Resource Conservation and Recovery Act-Regulated Waste Management Areas

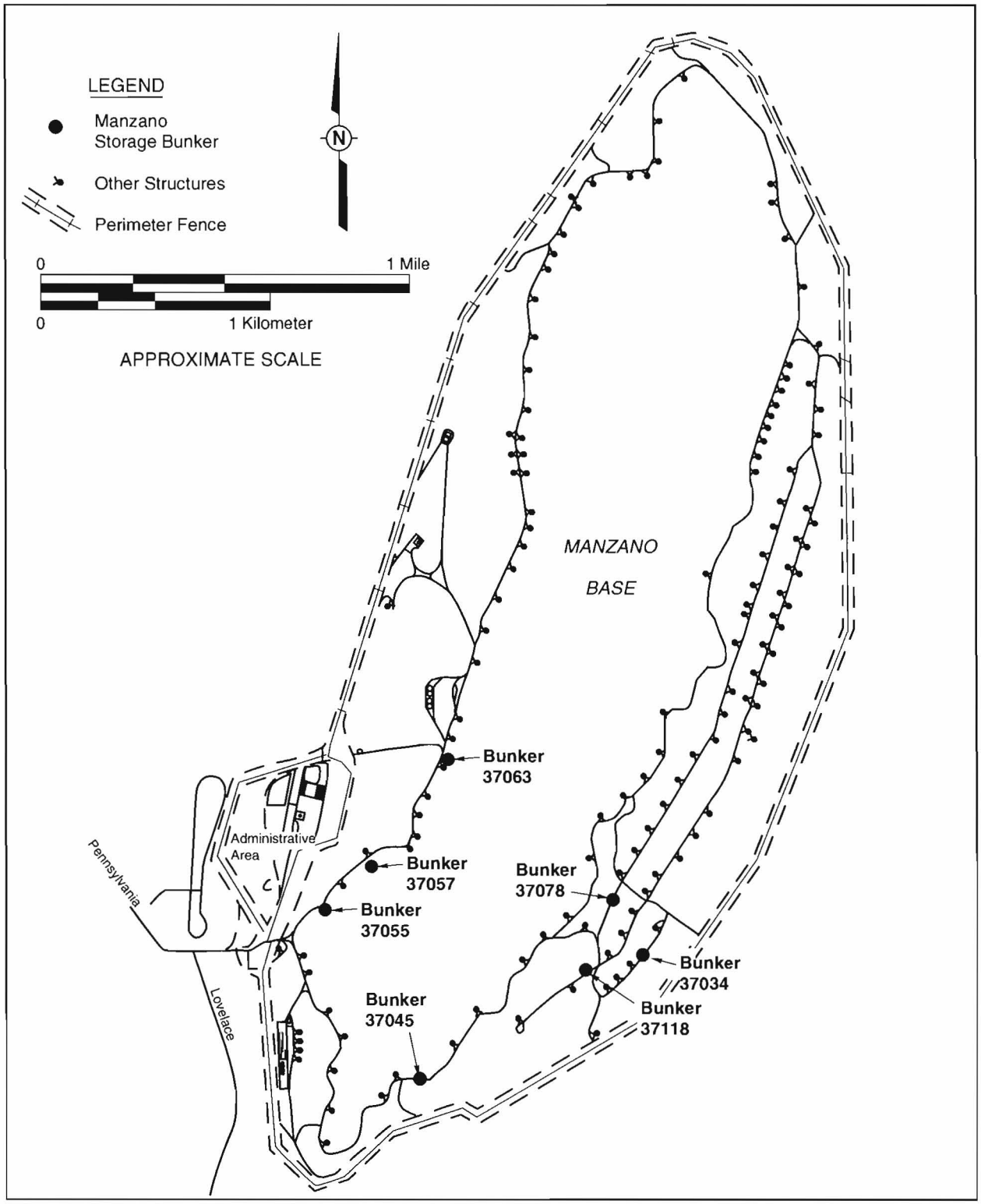


Figure B-17
Location of the Manzano Storage Bunkers at Manzano Base

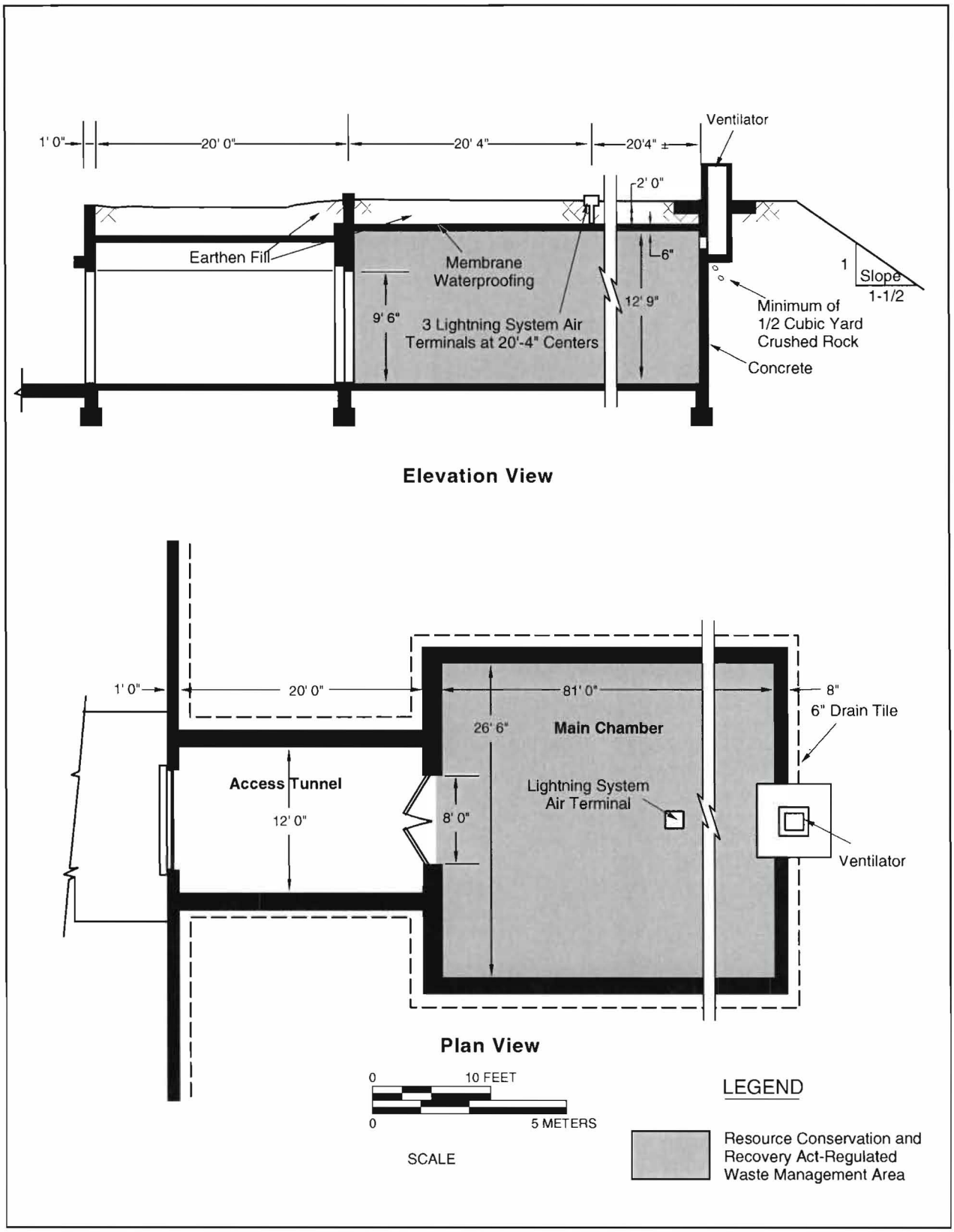


Figure B-18
Manzano Storage Bunkers, Type B, Bunkers 37034 and 37063

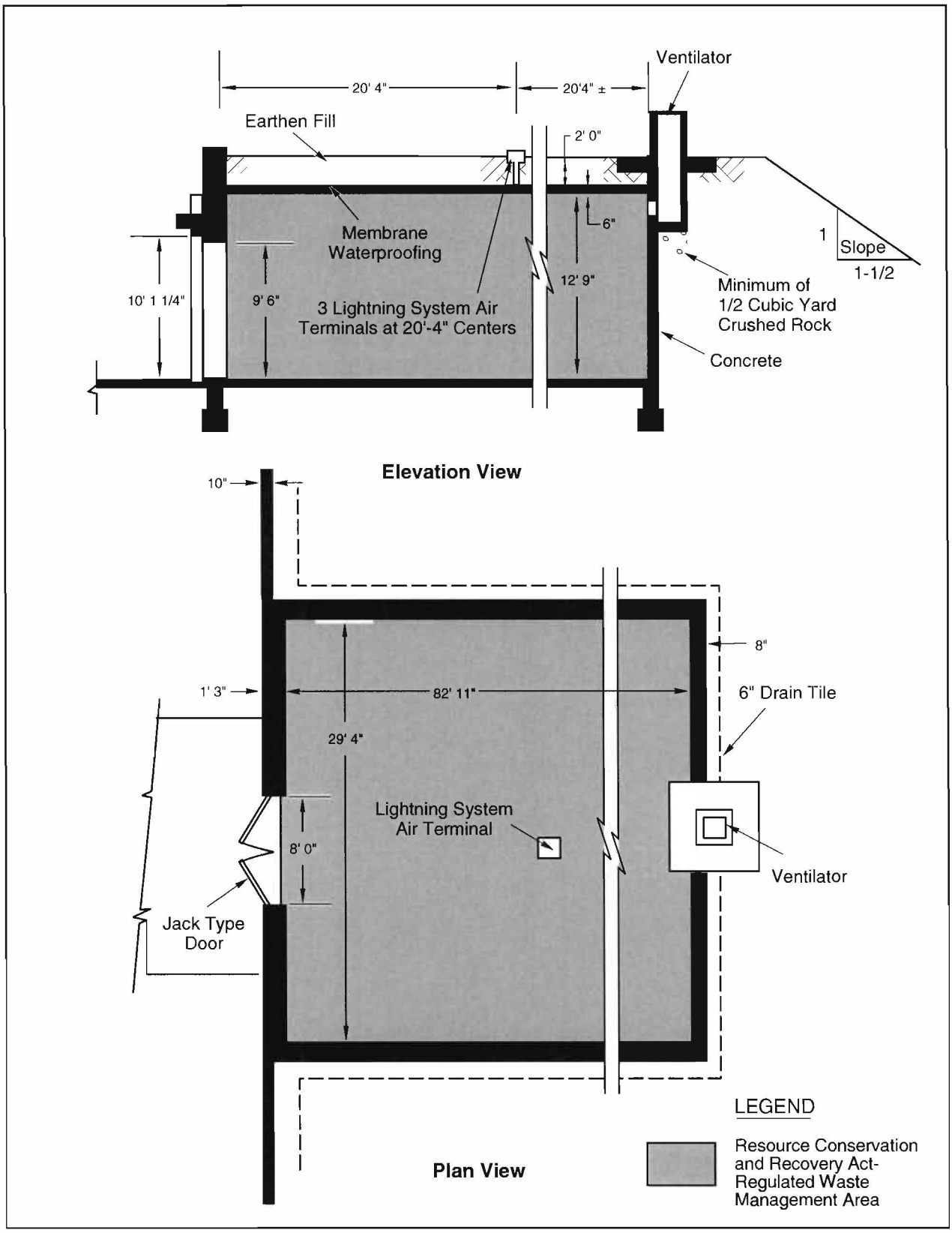


Figure B-19
Manzano Storage Bunkers, Type C, Bunkers 37078 and 37118

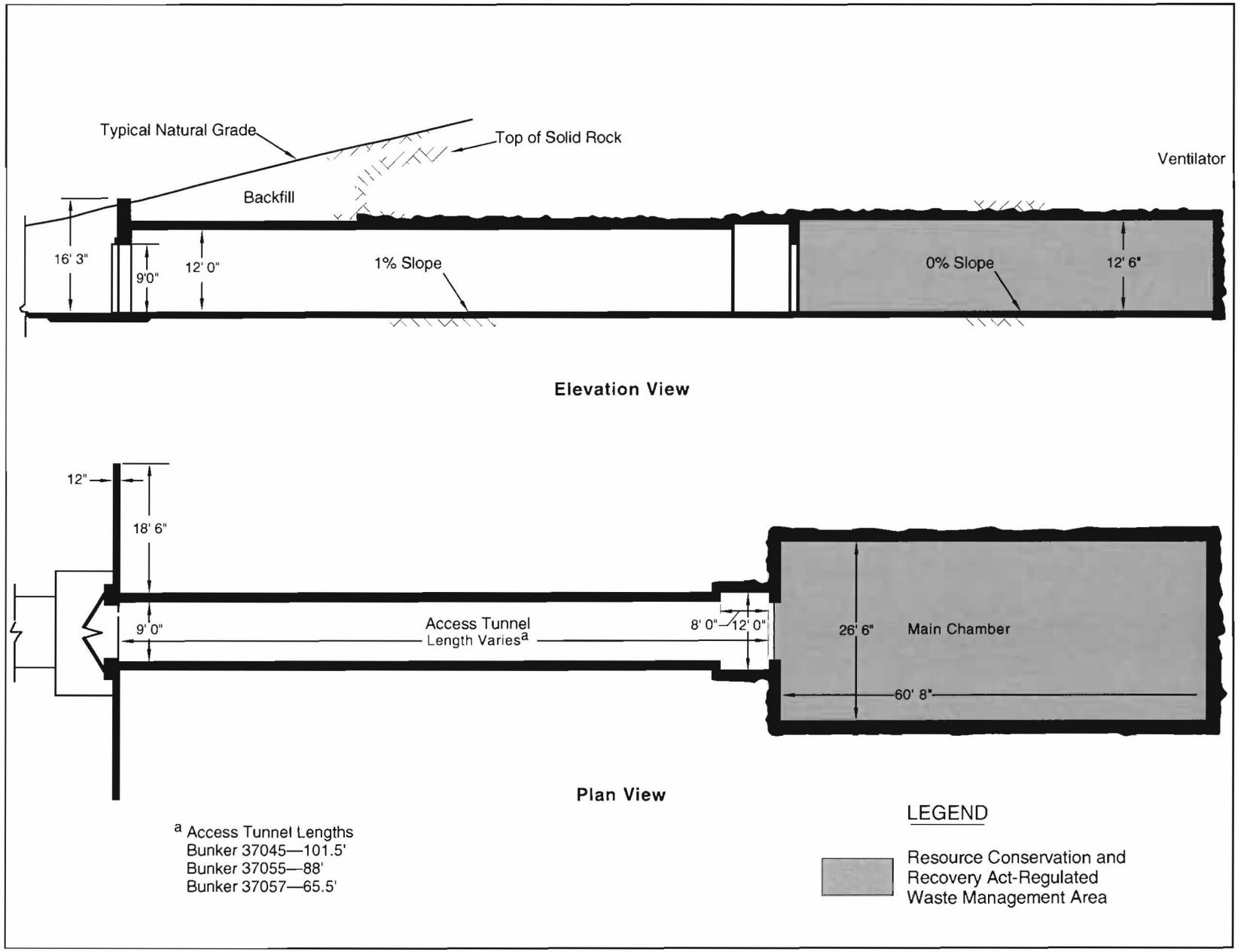


Figure B-20
Manzano Storage Bunkers, Type D
Bunkers 37045, 37055, and 37057

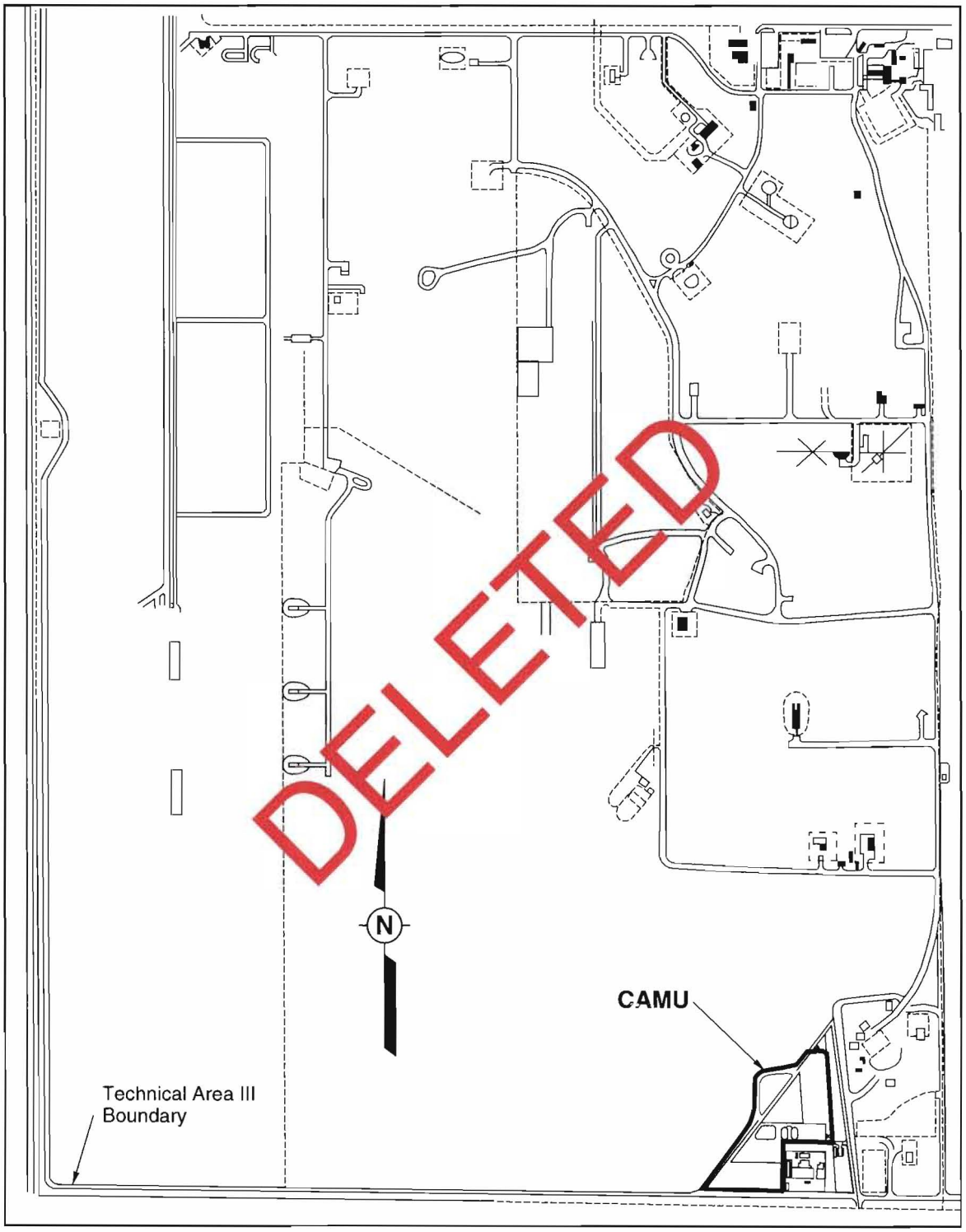


Figure B-21
Location of the Corrective Action Management Unit (CAMU) in Technical Area III

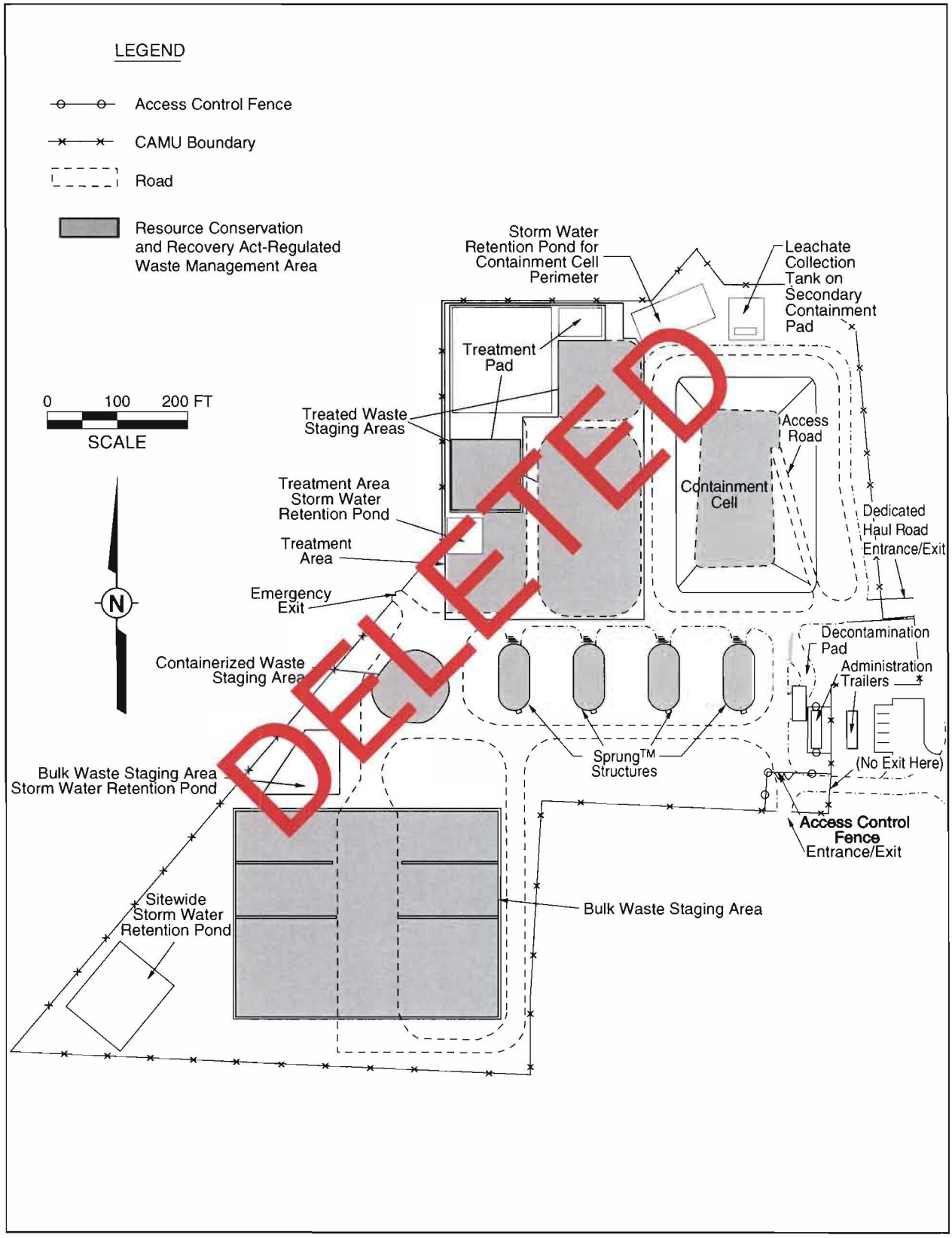


Figure B-22
Corrective Action Management Unit, Resource Conservation and Recovery Act-Regulated Waste Management Areas

PHOTOGRAPHS

Hazardous Waste Management Facility, Buildings 958 and 959
Photograph Taken on January 3, 2002
Process Code: S01

Building 958 is on the left, and Building 959 is on the right.

Hazardous Waste Management Facility, Flammable Waste Storage Bay in Building 958
Photograph Taken on January 3, 2002
Process Code: S01

Hazardous Waste Management Facility, Waste Storage Bays in Building 959
Photograph Taken on January 3, 2002
Process Code: S01

The drum at the far end of the building near the door contains absorbent for spill control. The bucket on the wall above it contains clean up materials.

Containers of RCRA-regulated wastes (solids and liquids) are segregated into the bays by compatibility and are stored on shelves over secondary containment in the bays.

Hazardous Waste Management Facility,
Modular Storage Buildings (958B and 958C) for Reactive and Ignitable Wastes
Photograph Taken on January 3, 2002
Process Code: S01

Hazardous Waste Management Facility, Waste Storage Bays in Building 959
Photograph Taken on September 2, 1999
Process Code: S01

Thermal Treatment Facility (Viewed from the Roof of Building 6715)
Photograph Taken on December 20, 2001
Process Code: X03

The sheet metal housing for propane burners is on the left side of the burn cage. The sheets of steel on the right side and the back of the burn cage are attached at the top and provide protection from wind during waste treatment.

The entire surface of the concrete foundation pad and the inside edge of the concrete pad curb are lined with steel. Runoff water is directed toward the right front corner of the pad, through a filter, and into a covered catchment tank that is visible at the lower right corner of the photograph.

The burn pan lid is in the lowered position. The burn cage is surrounded by an earthen berm.

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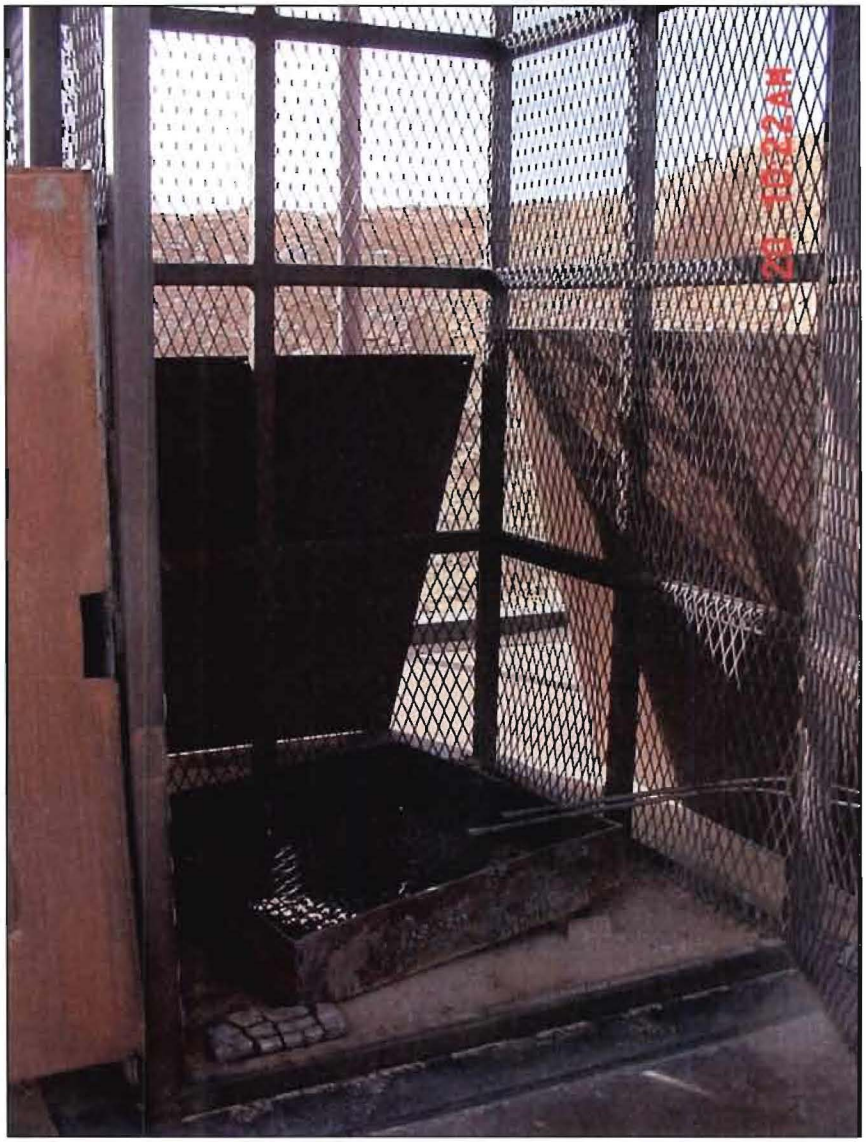
Thermal Treatment Facility (Viewed from the Top of the Earthen Berm)
Photograph Taken on December 20, 2001
Process Code: X03

The lid of the burn pan is raised and is visible near the top of the burn cage. The counterweight used to raise and lower the lid is resting on the foundation pad to the left (at the back) of the cage.

The sheet metal housing for the propane burners is visible on the right side of the burn cage.



Thermal Treatment Facility (Burn Pan Inside Burn Cage)
Photograph Taken on December 20, 2001
Process Code: X03

Solid RCRA-regulated wastes are placed inside the metal baskets inside the burn pan. The pieces of fire brick on the floor of the burn cage are used to hold the wastes in position for treatment. The tubing on the right would be used to pump liquid RCRA-regulated wastes into the burn pan. The liquid waste feed system is not currently in service.

The burn cage door is open, and the burn pan lid is in the raised position. The steel sheets on the outside of the burn cage provide protection from wind during treatment. The sheet metal housing for the propane burners is visible to the left of the burn cage.

Radioactive and Mixed Waste Management Facility, East Side of Building 6920
Photograph Taken on December 5, 2001
Process Codes: S01, T04, X02

Radioactive and Mixed Waste Management Facility, West Side of Building 6920
Photograph Taken on December 5, 2001
Process Codes: S01, T04, X02

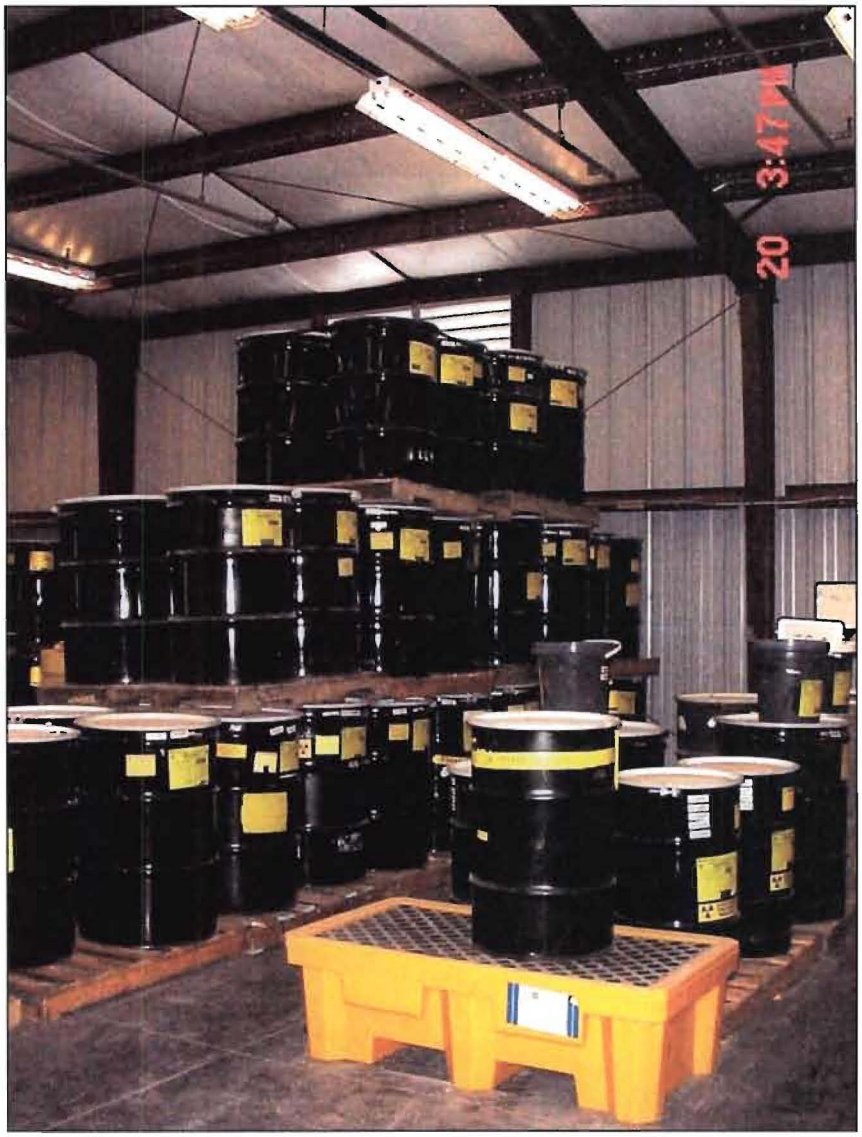
Radioactive and Mixed Waste Management Facility, Building 6920, Room 122
Photograph Taken on December 20, 2001
Process Codes: S01, T04, X02

The door to Room 118 is partially visible at the left edge of the picture. The doors to Rooms 119 and 120 are visible on the left beyond the door to Room 118. The roll-up door at the far end of the room leads to Room 125.

Containers of liquid RCRA-regulated waste are stored over the secondary containment sump shown on the right in the photograph. Containers of solid RCRA-regulated waste may also be stored over the sump.

Radioactive and Mixed Waste Management Facility, Building 6921
Photograph Taken on December 5, 2001
Process Codes: S01, T04

Radioactive and Mixed Waste Management Facility, Building 6925
Photograph Taken on December 5, 2001
Process Codes: S01



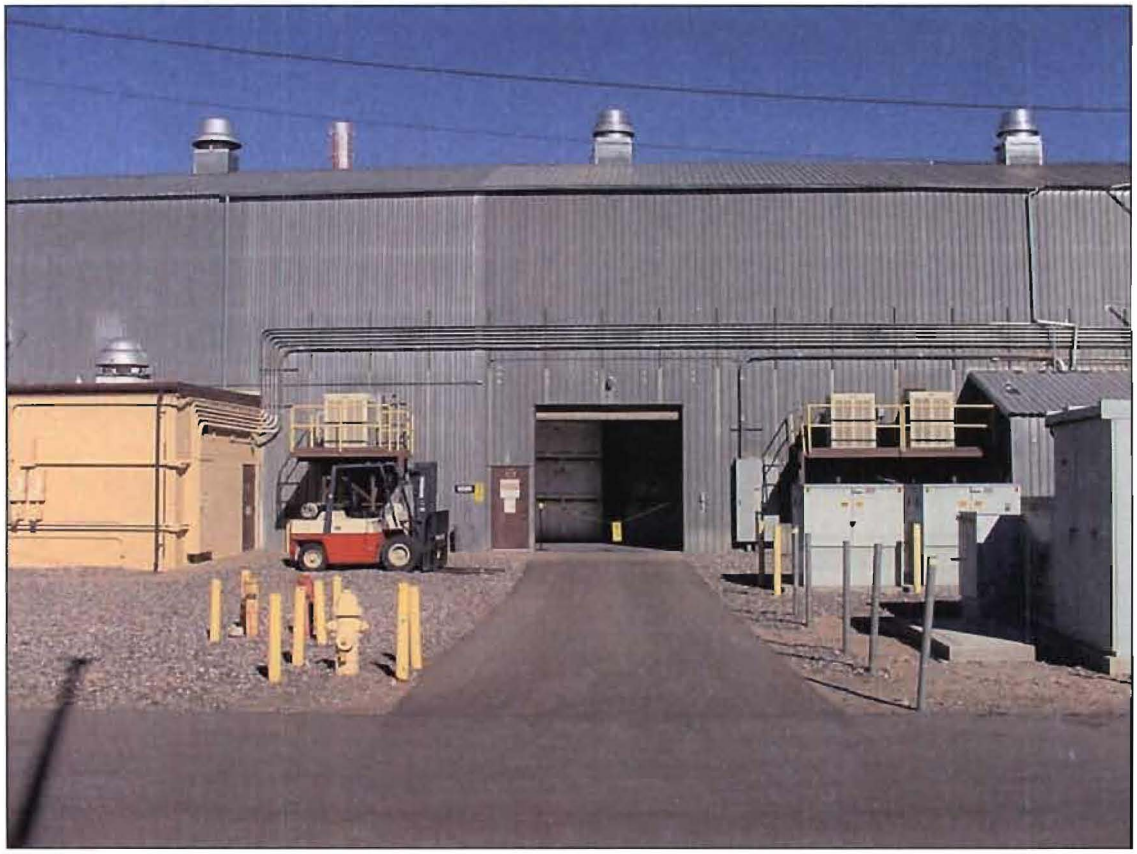
Radioactive and Mixed Waste Management Facility, Building 6925, Interior
Photograph Taken on December 20, 2001
Process Codes: S01

The drum in the front of the row on the right contains liquid RCRA-regulated waste and is stored on a portable spill containment pallet.

Radioactive and Mixed Waste Management Facility, Building 6926
Photograph Taken on December 5, 2001
Process Codes: S01

Radioactive and Mixed Waste Management Facility, Modular Storage Buildings
Photograph Taken on December 5, 2001
Process Code: S01

High Bay Waste Storage Facility, West Side of Building 6596
Photograph Taken on December 5, 2001
Process Code: S01



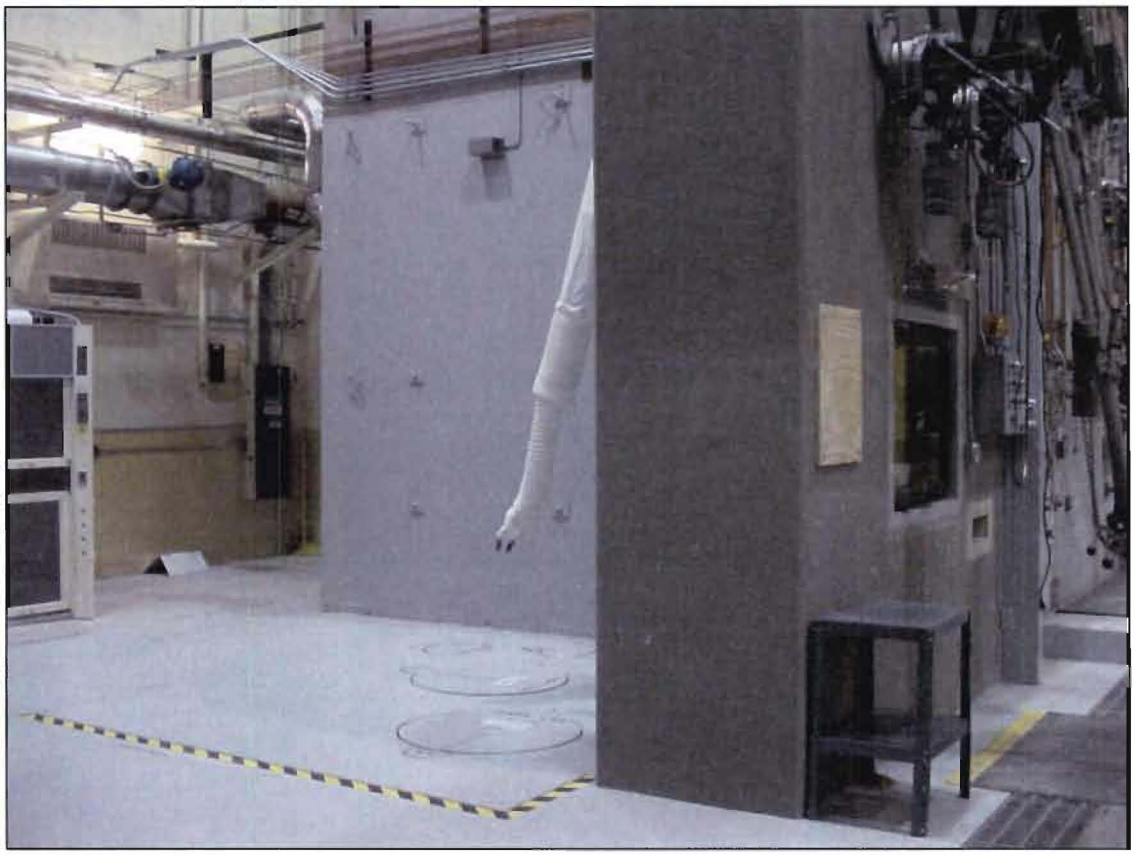
High Bay Waste Storage Facility, South Side of Building 6596
Photograph Taken on December 5, 2001
Process Code: S01

Auxiliary Hot Cell Facility, North Side of Building 6597
Photograph Taken on January 7, 2002
Process Codes: S01, T04, X02

The work area and permanent shield wall are visible inside the building.

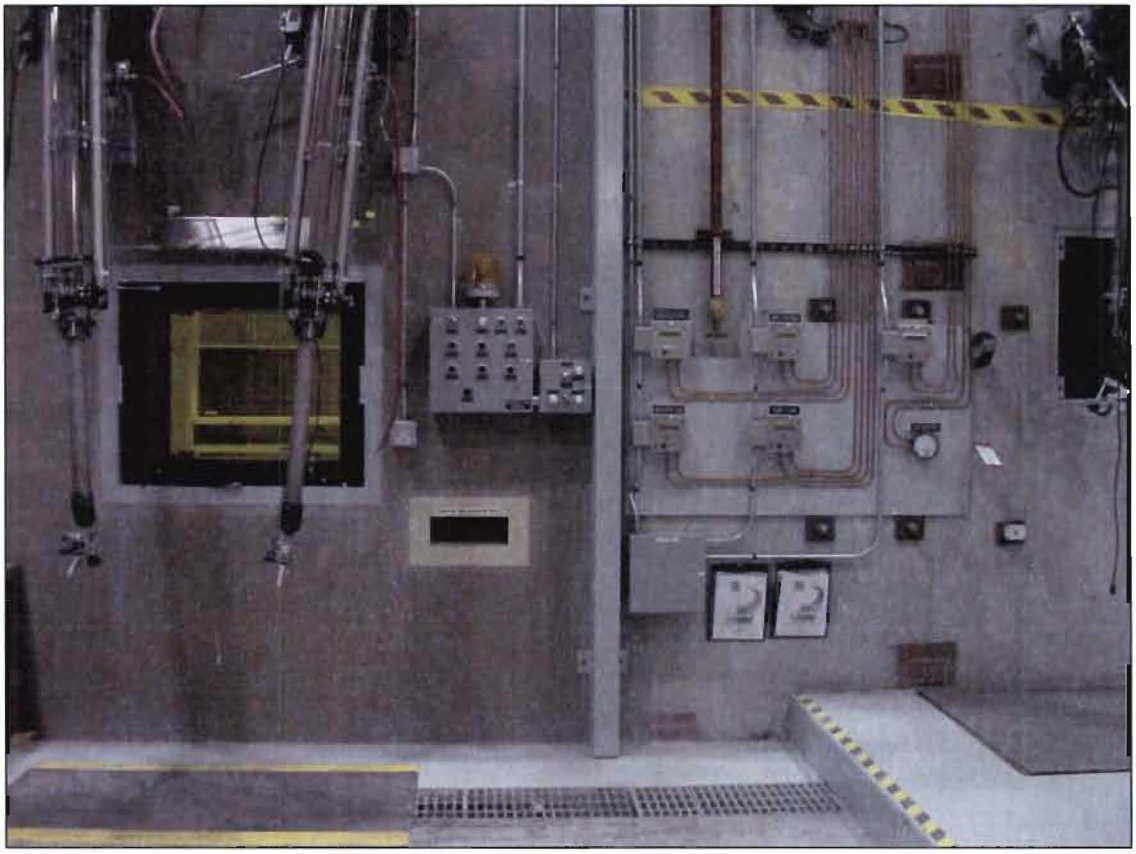
Auxiliary Hot Cell Facility, Work Area North of Auxiliary Hot Cell
Photograph Taken on January 7, 2002
Process Codes: S01, T04, X02

The permanent shield wall is visible inside the building at the right edge of the opening. The manipulator arms extend from the permanent shield wall into the work area. The north wall of the hot cell is visible behind the manipulator arms at the center of the picture. The fume hood is visible at the left edge of the work area.



Auxiliary Hot Cell Facility, Fume Hood and Work Area North of Auxiliary Hot Cell
Photograph Taken on January 7, 2002
Process Codes: S01, T04, X02

One of the manipulator arms is visible. It extends from the permanent shield wall into the work area. The operator controls for the manipulator arms are on the right side (outside) of the permanent shield wall at the right edge of the picture. The fume hood is visible at the left edge of the picture.



Auxiliary Hot Cell Facility, Operator Controls for Work Area and Hot Cell
Photograph Taken on January 7, 2002
Process Codes: S01, T04, X02

The permanent shield wall is on the left, and the hot cell is located on the right. The operator controls for the manipulator arms in the permanent shield wall are visible on the left. The fume hood at the back of the work area is visible through the shield wall window. Similar operator controls and a window are located on the hot cell wall to the right.

Manzano Storage Bunkers, Type B, Front View of Bunker 37034
Photograph Taken on December 13, 2001
Process Code: S01

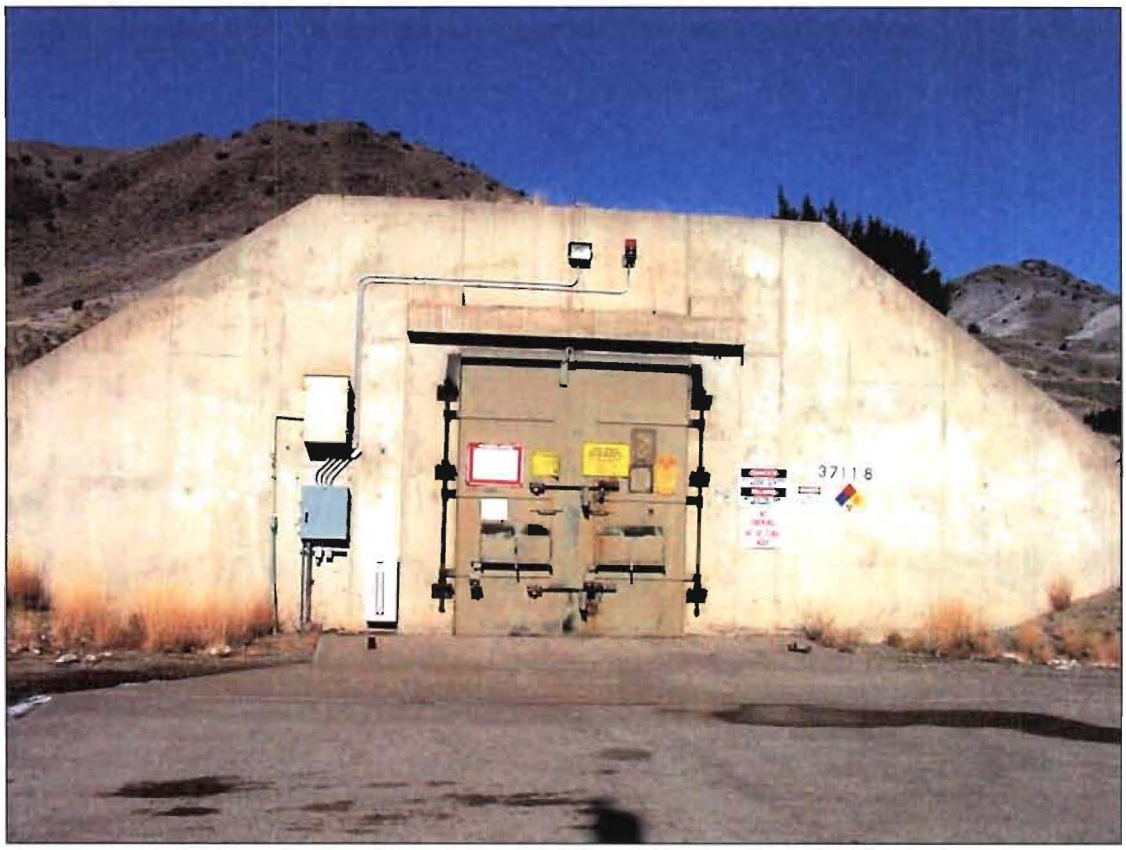
The drain shown near the right edge of the picture serves a drain tile on the outside of the bunker, allowing drainage of water (from precipitation) that may accumulate in the soil behind the concrete wall.

The large orange sign indicates that explosive (D003) waste is currently stored in this bunker. The fire extinguisher is located in the white box below and to the left of the orange sign.

The concrete pad in front of the bunker doors is level or slopes slightly away from the bunker, preventing surface water runon into the bunker.

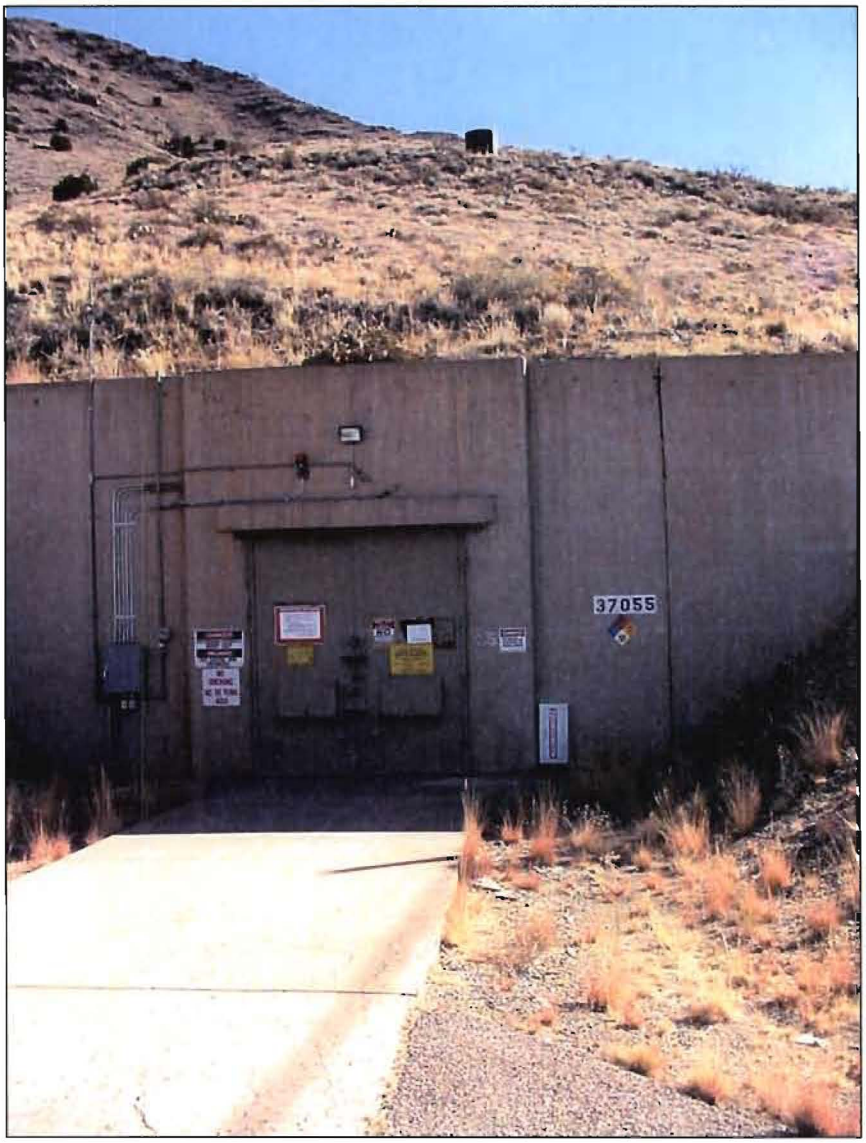
Manzano Storage Bunkers, Type B, Front View of Bunker 37063
Photograph Taken on December 5, 2001
Process Code: S01

Manzano Storage Bunkers, Type C, Front View of Bunker 37078
Photograph Taken on December 13, 2001
Process Code: S01



Manzano Storage Bunkers, Type C, Front View of Bunker 37118
Photograph Taken on December 13, 2001
Process Code: S01

Manzano Storage Bunkers, Type D, Front View of Bunker 37045
Photograph Taken on December 13, 2001
Process Code: S01



Manzano Storage Bunkers, Type D, Front View of Bunker 37055
Photograph Taken on December 5, 2001
Process Code: S01

Manzano Storage Bunkers, Type D, Front View of Bunker 37057
Photograph Taken on December 5, 2001
Process Code: S01

DELETED

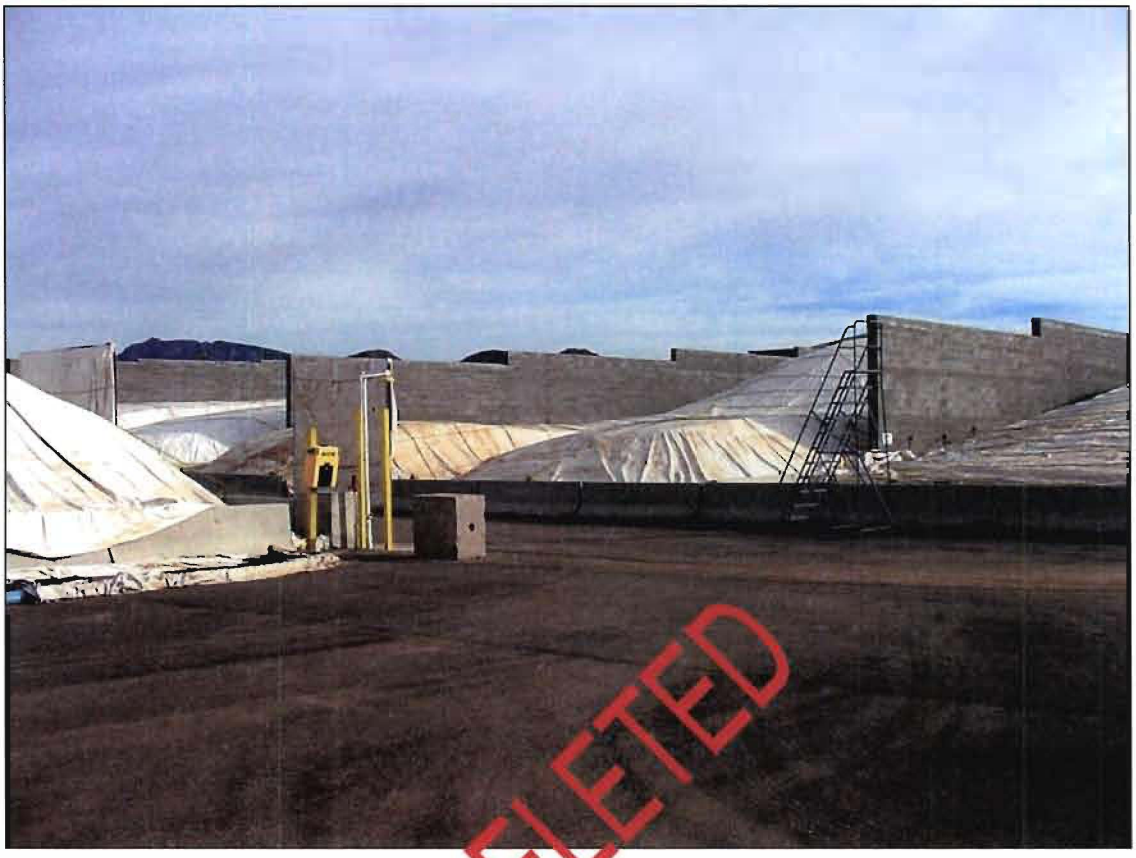
Corrective Action Management Unit, Bulk Waste Storage Area Bays
Photograph taken on January 9, 2002
Process Code: S99

Bay 3 is at the far right of the picture. Bays 1 and 2 are visible on the right beyond Bay 3. Bay 5 is visible on the left, and Bay 4 is visible beyond it.

The soil in the bays is designated for placement in the containment cell. Soil in Bays 1 and 5 does not require treatment before it is placed in the cell. Soil in Bays 2, 3, and 4 will be treated with the Low-Temperature Thermal Desorption Unit and/or the Temporary Unit (soil stabilization).

Air support structures (inflatable tents) cover the soil and include an entrance doorway in each bay. The doorways are large enough to accommodate earth-moving equipment and trucks. Each doorway is equipped with a curtain of plastic strips to control airflow (the curtains are not visible in this photograph). Each air support structure is inflated and raised with air to allow Unit personnel to work within the bay.

The yellow safety shower and eyewash are visible on the left at the edge of Bay 5. The marks on the pavement are melting/evaporating frost.

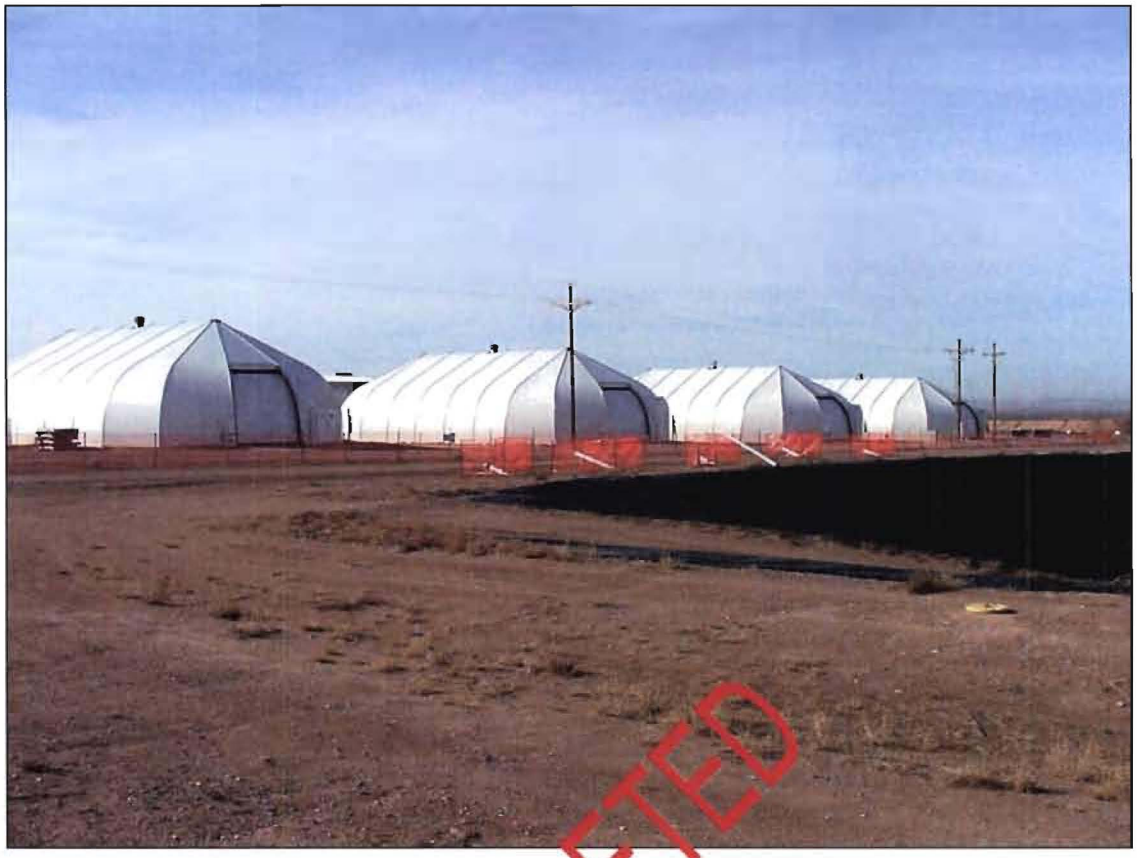


Corrective Action Management Unit, Bulk Waste Storage Area Bay 2
Photograph Taken on January 9, 2002
Process Code: S99

Bay 2 is in the center of the picture. Bay 3 is at the right. Bay 5 is at the left edge of the picture. Bay 1 is visible beyond Bay 5.

The safety shower and eyewash are visible at the edge of Bay 5.

A movable personnel ladder is visible between Bay 2 and Bay 3.



Corrective Action Management Unit, Sprung™ Structures
Photograph Taken on January 9, 2002
Process Code: S99

DELETED

Sprung 1 is on the left, Sprungs 2 and 3 are in the middle, and Sprung 4 is on the right.

Sprung 1 is currently used for storage of equipment. Sprungs 2, 3, and 4 are used for storage of soils.

The corner of the containment cell is visible on the right.

There are several pipes protruding from the ground at the edge of the containment cell. These are part of the vadose zone monitoring system used to detect moisture in the soil under the containment cell.

DELETED

Corrective Action Management Unit, Containment Cell
Photograph Taken on January 9, 2002
Process Code: 399

The bottom of the containment cell is covered with a layer of clean soil to protect the liner from damage by equipment traffic. The cell bottom (under the soil) is sloped toward a sump (not visible) at the near end. The access road into the cell is visible at the left edge of the picture.

The four Sprung structures are visible beyond the containment cell. They are numbered 1 through 4, starting at the left.

The Radioactive and Mixed Waste Management Facility is located beyond the Sprung structures. Buildings 6925 and 6920 are visible between Sprungs 1 and 2. Building 6926 is visible between Sprungs 2 and 3.

Corrective Action Management Unit, Containment Cell Leachate Collection System
Photograph Taken on January 9, 2002
Process Code: S93

DELETED

Liquids collect in the sump at the bottom of the containment cell and are pumped through the piping at the right side of the picture into a storage tank. The only liquid currently pumped from the sump is rainwater that collects in the bottom of the containment cell.

The containment cell is visible to the left of the pump.

One of the containment cell vadose zone monitoring stations is visible directly beyond the leachate pump.

The Low Temperature Thermal Desorption Unit (LTTD) is currently in storage and is visible on the left edge of the picture. Several equipment storage transportainers are visible beyond the treatment pad and LTTD.

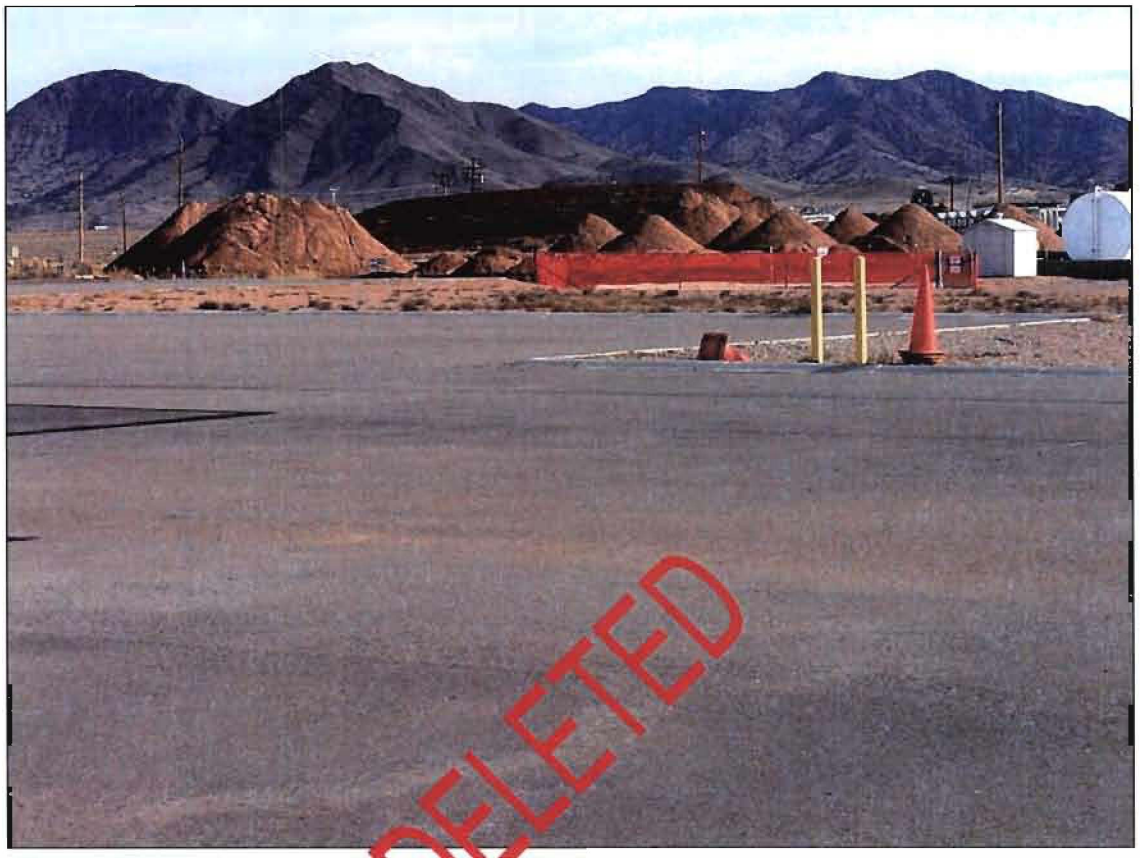
The soil that was excavated during construction of the containment cell is visible in the background of the picture.

Corrective Action Management Unit, Low Temperature Thermal Desorption Unit
Photograph Taken on January 9, 2002
Process Code: X03

DELETED

The unit components are stored on two trailers. The unit will be assembled on the treatment pad for operation. The trailer at the left edge of the picture is used for equipment storage.

The trailer on the right contains the soil treatment unit. The trailer in the center contains the catalytic oxidation system that will be used to treat the exhaust gas from the soil treatment unit.



Corrective Action Management Unit, Treatment Pad
Photograph Taken on January 9, 2002
Process Codes: T04, X03

The posts and traffic cones mark the edge of the treatment pad and a sanitary sewer cleanout pipe in the dirt near the pad.

The tank visible at the right edge of the picture holds rainwater pumped from the sump at the bottom of the containment cell.

There are several piles of soil beyond the pad. The soil was excavated from the Chemical Waste Landfill (CWL) and is stored within the CWL site operational boundary. The soil has been sampled and the analytical results indicate it meets the requirements for placement back in the landfill.