Department of Energy
Carlsbad Area Office
P. O. Box 3090
Carlsbad, New Mexico 88221

April 12, 1996

1996
RE ED
HAZARDOUS WASTE
PROGRAM

Mr. Mark E. Weidler, Secretary
New Mexico Environment Department
P.O. Box 26110
Santa Fe, N.M. 87502

Dear Mr. Weidler:

Please find enclosed a complete revised Resource Conservation and Recovery Act (RCRA) permit application submitted in response to the Technical Adequacy Notice of Deficiency issued March 14, 1996. Additionally, copies of this application are being provided to your staff on disk, including the redline/strikeout version from the previous revision, to ease the review and permit development process.

With this submittal, we have met the regulatory time limit established for responding to notices of deficiencies and continue to meet the milestones we set for ourselves. We appreciate the commitment your staff has shown in meeting with us these past months. I understand the meetings were most beneficial in ensuring this application will stand up to the scrutiny of the regulatory process. I look forward to the next step of dialogue with you and your staff which will involve the development of the draft permit. As I have said in previous correspondence, I commit to making our project participants available to assist your staff in any way to enhance their abilities to review and render a timely decision on this important permit application.

If you have any questions or require further information, please call.

George E. Dials
Manager

Enclosure

cc w/enclosure:
B. Garcia, NMED (4)

Printed on recycled paper

960413

Steve T

RECEIPT

I acknowledge receipt of the following materials from the U.S. Department of Energy:

5 copies of Revision 6 of DOE/WIPP 91-005 entitled "Resource Conservation and Recovery Act Part B Permit Application" for the Waste Isolation Pilot Plant

5 copies of "Responses to New Mexico Environment Department Notice of Deficiency Dated March 14, 1996"

Disks containing the revised permit application (Redline/Strikeout and Final)

Signed: _____ for the New Mexico Environment Department

Date: 4/12/96

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

Form Approved, OMB No. 2050-0034 Expires 9-30-96
GSA No. 0248-EPA-OT

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

RECEIVED 1996 HAZARDOUS WASTE PROGRAM

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

[ ] A. First Part A Submission	[X] B. Part A Amendment # 6

C. Installation's EPA ID Number	D. Secondary ID Number *(If applicable)*
NM4890139088	

II. Name of Facility

WASTE ISOLATION PILOT PLANT

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

A. Street

30 MILES EAST OF CARLSBAD ON JAL HIGHWAY

Street *(Continued)*

City or Town	State	Zip Code
CARLSBAD	NM	88221

County Code *(If known)*	County Name
03	EDDY

B. Land Type (Enter code)	C. Geographic Location LATITUDE (Degrees, Minutes, & Seconds)	LONGITUDE (Degrees, Minutes & Seconds)	D. Facility Existence Date Month Day Year
F	32 22 30N	103 47 30W	05 18 1981

IV. Facility Mailing Address

Street or P.O. Box

P.O. BOX 3090

City or Town	State	Zip Code
CARLSBAD	NM	88221

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

Name *(Last)*	*(First)*
DIALS	GEORGE
Job Title	**Phone Number** *(Area Code and Number)*
MANAGER	505-234-7300

VI. Facility Contact Address *(See Instructions)*

A. Contact Address Location	Mailing	Other	B. Street or P.O. Box
	X		P.O. BOX 3090

City or Town	State	Zip Code
CARLSBAD	NM	88221

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

Form Approved, OMB No. 2050-0034 Expires 9-30-96
GSA No. 0248-EPA-OT

EPA I.D. Number *(Enter from page 1)*	Secondary ID Number *(Enter from page 1)*
NM4890139088	

VII. Operator Information *(See instructions)*

Name of Operator		
US DEPARTMENT OF ENERGY		
Street or P.O. Box		
P.O. BOX 3090		
City or Town	**State**	**ZIP Code**
CARLSBAD	NM	88221

Phone Number *(Area Code and Number)*	B. Operator Type	C. Change of Operator Indicator	Date Changed Month Day Year
505-234-7300	F	Yes [ ] No [X]	

VIII. Facility Owner *(See instructions)*

A. Name of Facility's Legal Owner		
US DEPARTMENT OF ENERGY		
Street or P.O. Box		
P.O. BOX 3090		
City or Town	**State**	**ZIP Code**
CARLSBAD	NM	88221

Phone Number *(Area Code and Number)*	B. Owner Type	C. Change of Owner Indicator	Date Changed Month Day Year
505-234-7300	F	Yes [ ] No [X]	

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

Primary		Secondary	
4953	*(Description)* REFUSE SYSTEMS		*(Description)*
Secondary		**Secondary**	
	(Description)		*(Description)*

X. Other Environmental Permits *(See instructions)*

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

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

Form Approved, OMB No. 2050-0034 Expires 9-30-96
GSA No. 0248-EPA-OT

EPA I.D. Number *(Enter from page 1)*	Secondary ID Number *(Enter from page 1)*
NM4890139088	

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

The Waste Isolation Pilot Plant (WIPP) is a U.S. Department of Energy facility intended to demonstrate the technical and operational principles involved in the permanent isolation and disposal of defense-generated transuranic waste. WIPP operations entail receiving, unloading, and transferring radioactive-mixed waste from the surface of the site to the underground hazardous waste management units. Waste will be emplaced in an underground geologic repository horizon located in a deep-bedded salt formation approximately 2,150 feet beneath the surface.

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 with the corresponding process code.*

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	Disposal:	
D79	Underground Injection	Gallons; Liters; Gallons Per Day; or Liters Per Day
D80	Landfill	Acre-feet or Hectare-meter
D81	Land Treatment	Acres or Hectares
D82	Ocean Disposal	Gallons Per Day r Liters Per Day
D83	Surface Impoundment	Gallons or Liters
D99	Other Disposal	Any Unit of Measure Listed Below
	Storage:	
S01	Container (Barrel, Drum, Etc.)	Gallons or Liters
S02	Tank	Gallons or Liters
S03	Waste Pile	Cubic Yards or Cubic Meters
S04	Surface Impoundment	Gallons or Liters
S05	Drip Pad	Gallons or Liters
S06	Containment Building-Storage	Cubic Yards or Cubic Meters
S99	Other Storage	Any Unit of Measure Listed Below
	Treatment:	
T01	Tank	Gallons Per Day or Liters Per Day
T02	Surface Impoundment	Gallons Per Day or Liters Per Day
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; or Btu's Per Hour
T04	Other Treatment	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; or Btu's Per Hour
T80	Boiler	Gallons or Liters
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; or Btu's 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; or Btu's Per Hour
T88	Titanium Dioxide Chloride Process 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 or Cubic Meters
	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; or Kilograms Per Hour
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; or Btu's Per Hour
X04	Geologic Repository	Cubic Yards or Cubic Meters
X99	Other Subpart X	Any Unit of 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
				Btu's Per Hour	I

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

Form Approved. OMB No. 2050-0034 Expires 6-30-96
GSA No. 0246-EPA-OT

EPA I.D. Number (Enter from page 1)	Secondary ID Number (Enter from page 1)
NM4890139088	

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)	2. Unit Of Measure (Enter code)	C. Process Total Number Of Units	For Official Use Only
X	1	S	0	2	533.788	G	001	
	1	X	0	4	175,600 TOTAL (54,064 in ten years)	C	010	
	2				See attached page for additional			
	3				process information			
	4	S	0	1	87.7	C	001	
	5				WHB Container Storage Unit			
	6			-	See attached page			
	7	S	0	1	47.1	C	001	
	8				Parking Area Container Storage Unit			
	9				See attached page			
1	0							
1	1							
1	2							
1	3							

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 as in seq w/XII)		A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY 1. Amount (Specify)	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							
	2							
	3							
	4							

NM4890139088

XII. PROCESS—CODES AND DESIGN CAPACITIES (continued)

The Waste Isolation Pilot Plant (WIPP) geologic repository is defined as a "miscellaneous unit" under 40 CFR §260.10. "Miscellaneous unit" means a hazardous waste management unit where hazardous waste is treated, stored, or disposed of and that is not a container, tank, surface impoundment, waste pile, land treatment unit, landfill, incinerator, containment building, boiler, industrial furnace, or underground injection well with appropriate technical standards under 40 CFR Part 146, corrective action management unit, or unit eligible for research, development, and demonstration permit under 40 CFR §270.65. The WIPP is a geologic repository designed for the disposal of defense-generated transuranic (TRU) waste. Some of the TRU wastes disposed of at the WIPP contain hazardous wastes as co-contaminants. More than half the waste to be disposed of at the WIPP also meets the definition of debris waste. The debris categories include manufactured goods, biological materials, and naturally occurring geological materials. Approximately 120,000 cubic meters (m^3) of the 175,600 m^3 of WIPP wastes is categorized as debris waste. The geologic repository has been divided into ten discrete hazardous waste management units (HWMU) which are being permitted under 40 CFR Part 264, Subpart X.

During the Disposal Phase of the facility, which is expected to last 25 years, the total amount of waste received from off-site generators and any derived waste will be limited to 175,600 m^3 of TRU waste of which up to 7,080 m^3 may be remote-handled (RH) TRU mixed waste. For purposes of this application, all TRU waste is managed as though it were mixed.

On March 25, 1996, the DOE reached the conclusion that in order to comply with 40 CFR 191 §13 which regulates the long-term release of radionuclides from a geologic disposal facility, it is necessary to add magnesium oxide to each disposal room. This additive is to be placed as a backfill over, beside, and within the waste stacks. The function of the backfill is to chemically alter the composition of brine that may accumulate in the disposal region. The result of the chemical alteration is to significantly reduce the solubility of the prevalent TRU radionuclides.

The process design capacity for the miscellaneous unit (composed of ten underground HWMUs in the geologic repository) shown in Section XII B, is for the maximum amount of waste that may be received from off-site generators plus the maximum expected amount of derived wastes that may be generated at the WIPP facility. In addition, two HWMUs have been designated as container storage units (S01) in Section XII. One is inside the Waste Handling Building (WHB) and consists of the contact-handled (CH) bay, conveyance loading room, waste hoist entry room, RH bay, cask unloading room, hot cell, transfer cell, and facility cask loading room. This HWMU will be used for waste receipt, handling, and storage (including storage of derived waste) prior to emplacement in the underground geologic repository. No treatment or disposal will occur in this S01 HWMU. The capacity of this S01 unit for storage is 87.7 m^3, based on 40 standard waste boxes or seven-packs of drums on pallets and in the TRUDOCKs, one standard waste box of derived waste, seven RH canisters in the transfer cell, and five RH canisters in the hot cell. The second S01 HWMU is the parking area outside the WHB where the Transuranic Package Transporter (TRUPACT-II) trailers and the road cask trailers will be parked awaiting waste handling operations. The capacity of this unit is 12 TRUPACT-IIs and three road casks or four rail casks with a combined volume of 47.1 m^3. The railroad side tracks are included in this area

to accommodate rail shipments of RH TRU mixed waste. The HWMUs are shown in Appendix A3 as Figures A3-2, A3-3, and A3-4.

During the ten year period of the permit, up to 52,110 m^3 of CH waste and 1,954 m^3 of RH waste could be emplaced in Panels 1 to 3. A fourth HWMU (Panel 4), plus disposal area access drifts (designated as Panels 9 and 10), will be constructed under this permit. These latter areas will not receive waste for disposal under this permit.

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

Form Approved, OMB No. 2050-0034 Expires 9-30-96
GSA No. 0248-EPA-OT

EPA I.D. Number *(Enter from page 1)*	Secondary ID Number *(Enter from page 1)*
NM4890139088	

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. *Enter in the space provided on page 7, item XIV-E, the line number and the additional code(s).*

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

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

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

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

Line Number		A. EPA HAZARD WASTE NO. (Enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS (1) PROCESS CODES (Enter code)									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

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

Form Approved, OMB No. 2050-0034 Expires 9-30-96
GSA No. 0248-EPA-OT

EPA I.D. Number *(Enter from page 1)*: NM4890139088

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

XIV. Description of Hazardous Wastes *(Continued)*

Line Number	A. EPA HAZARD WASTE NO. (Enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESSES (1) PROCESS CODES (Enter code)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	F001	1,891	M	X04 S01 S01	
2	F002	1,860	M	X04 S01 S01	
3	F003	1,593	M	X04 S01 S01	
4	F004	26	M	X04 S01 S01	
5	F005	1,829	M	X04 S01 S01	
6	D004	903	M	X04 S01 S01	
7	D005	484	M	X04 S01 S01	
8	D006	1,819	M	X04 S01 S01	
9	D007	1,248	M	X04 S01 S01	
10	D008	3,246	M	X04 S01 S01	
11	D009	1,727	M	X04 S01 S01	
12	D010	186	M	X04 S01 S01	
13	D011	1,090	M	X04 S01 S01	
14	D018	749	M	X04 S01 S01	
15	D019	761	M	X04 S01 S01	
16	D021	26	M	X04 S01 S01	
17	D022	1,098	M	X04 S01 S01	
18	D026	609	M	X04 S01 S01	
19	D027	26	M	X04 S01 S01	
20	D028	449	M	X04 S01 S01	
21	D029	478	M	X04 S01 S01	
22	D030	26	M	X04 S01 S01	
23	D032	26	M	X04 S01 S01	
24	D034	26	M	X04 S01 S01	
25	D035	139	M	X04 S01 S01	
26	D036	26	M	X04 S01 S01	
27	D037	26	M	X04 S01 S01	
28	D038	26	M	X04 S01 S01	
29	D039	26	M	X04 S01 S01	
30	D040	140	M	X04 S01 S01	
31	D043	26	M	X04 S01 S01	
32	P015	945	M	X04 S01 S01	
33					

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

Form Approved, OMB No. 2050-0034 Expires 9-30-96
GSA No. 0246-EPA-OT

EPA I.D. Number *(Enter from page 1)*	Secondary ID Number *(Enter from page 1)*
NM4890139088	

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.

XVI. Facility Drawing

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

XVII. Photographs

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

XVIII. Certification(s)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to 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: George E Dials	Date Signed ** April 10, 1996
Name and Official Title (Type or print): Manager, DOE/Carlsbad Area Office	
Owner Signature	Date Signed
Name and Official Title (Type or print)	
Operator Signature * : George E Dials	Date Signed ** April 10, 1996
Name and Official Title (Type or print): Manager, DOE/Carlsbad Area Office	
Operator Signature * : Joseph L. Ystem	Date Signed ** April 10, 1996
Name and Official Title (Type or print): General Manager - Westinghouse Waste Isolation Division	

XIX. Comments

Section XVIII Operator Signature - *See Attached "RCRA Part A Application Certification"

** Date of submittal of clarifying information as requested by NMED.

Additional data were submitted on July 9, 1991; November 12, 1992; January 29, 1993; March 2, 1995; and May 26, 1995. Part A originially signed on January 18, 1991, and submitted on January 22, 1991.

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

NM4890139088

RCRA PART A APPLICATION CERTIFICATION

The U.S. Department of Energy (DOE), through its Carlsbad Area Office, has signed as "owner and operator," and Westinghouse Electric Corporation, acting through its Waste Isolation Division (WID), has signed this application for the permitted facility as "co-operator."

The DOE has determined that dual signatures best reflect the actual apportionment of Resource Conservation and Recovery Act (RCRA) responsibilities as follows:

> The DOE's RCRA responsibilities are for policy, programmatic directives, funding and scheduling decisions, Waste Isolation Pilot Plant (WIPP) requirements of DOE generator sites, auditing, and oversight of all other parties engaged in work at the WIPP, as well as general oversight.
>
> The WID's RCRA responsibilities are for certain day-to-day operations (in accordance with general directions given by the DOE and in the Management and Operating Contract as part of its general oversight responsibility), including, but not limited to, the following: certain waste handling, monitoring, record keeping, certain data collection, reporting, technical advice, and contingency planning.
>
> For purposes of the certification required by Title 20 of the New Mexico Administrative Code, Chapter 4, Part 1 (20 NMAC 4.1), Subpart IX, §270.11(d), the DOE's and the WID's representatives certify, under penalty of law that this document and all attachments were prepared under their direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on their inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of their knowledge and belief, true, accurate, and complete for their respective areas of responsibility. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner and Operator Signature: George E. Dick
Title: Manager, Carlsbad Area Office
for: U.S. Department of Energy
Date: April 10, 1996

Co-Operator Signature: Joseph L. Epstein
Title: General Manager
for: Westinghouse Electric Corporation
Date: April 10, 1996

APPENDIX A1
OTHER ENVIRONMENTAL PERMITS

TABLE A1-1
ACTIVE ENVIRONMENTAL PERMITS/APPROVALS AS OF 4/1/96

Granting Agency	Type of Permit	Number	Granted/Submitted	Expiration	Permit Status
Department of Interior, Bureau of Land Management	Right-of-Way for Water Pipeline	NMM53809	8/17/83	None	Active
Department of Interior, Bureau of Land Management	Right-of-Way for the North Access Road	NM55676	8/24/83	None	Active
Department of Interior, Bureau of Land Management	Right-of-Way for Railroad	NM55699	9/27/83	None	Active
Department of Interior, Bureau of Land Management	Right-of-Way for Dosimetry and Aerosol Sampling Sites	NNM63136	7/3/86	None	Active
Department of Interior, Bureau of Land Management	Right-of-Way for Seven Subsidence Monuments	NM65801	11/7/86	None	Active
Department of Interior, Bureau of Land Management	Right-of-Way for Aerosol Sampling Site	NM77921	8/18/89	8/18/2019	Active
Department of Interior, Bureau of Land Management	Right-of-Way for Ten Raptor Nesting Platforms	NM82212	9/12/89	12/13/2019	Active
Department of the Interior, Bureau of Land Management	Right-of-Way for Survey Monument Installation	NM82245	12/13/89	12/13/2019	Active
Department of Interior, Bureau of Land Management	Approval to Drill 2 Additional Test Wells on Existing Pads at P-1 and P-2	None	9/18/86	None	Active[1]
Department of Interior, Bureau of Land Management	Free Use Permit for Caliche Extraction	NM-FU5 94405	6/6/95	5/12/98	Active
New Mexico Environment Department	Open Burning Permit to Train Fire Control Crews	None	2/10/95	3/1/96	Canceled 10/25/95 Open burn training no longer conducted on site.
New Mexico Environment Department	Operating Permit for two Backup Generators	310-M-2	12/7/93	None	Active
New Mexico Environment Department	Discharge Plan Approval	DP-831	1/16/92	1/16/97	Active
New Mexico Environment Department	Acknowledgement of Notification of Hazardous Waste Activity (WIPP)	NM48901 39088	1/88	None	Active
New Mexico Department of Game and Fish	Individual Banding	1961	2/16/96		Pending
New Mexico Department of Game and Fish	Master Collecting	1894	3/1/95	3/1/97	Active

TABLE A1-1 (CONTINUED)
ACTIVE ENVIRONMENTAL PERMITS/APPROVALS AS OF 4/1/96

Granting Agency	Type of Permit	Number	Granted/Submitted	Expiration	Permit Status
New Mexico Department of Game and Fish	Concurrence that WIPP construction activities will have no significant impact on State-listed threatened or endangered Species	None	5/26/89	None	Active
New Mexico State Engineer Office	H-19b1 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2420	11/10/94	1/31/98	Active
New Mexico State Engineer Office	H-19b2 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2421	11/10/94	1/31/98	Active
New Mexico State Engineer Office	H-19b3 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2422	11/10/94	1/31/98	Active
New Mexico State Engineer Office	H-19b4 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2423	11/10/94	1/31/98	Active
New Mexico State Engineer Office	H-19b5 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2424	11/10/94	1/31/98	Active
New Mexico State Engineer Office	H-19b6 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2425	11/10/94	1/31/98	Active
New Mexico State Engineer Office	WQSP-1 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2413	11/10/94	1/31/96	Resubmittal Pending
New Mexico State Engineer Office	WQSP-2 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2414	11/10/94	1/31/96	Resubmittal Pending
New Mexico State Engineer Office	WQSP-3 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2415	11/10/94	1/31/96	Resubmittal Pending
New Mexico State Engineer Office	WQSP-4 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2416	11/10/94	1/31/96	Resubmittal Pending

TABLE A1-1 (CONTINUED)
ACTIVE ENVIRONMENTAL PERMITS/APPROVALS AS OF 4/1/96

Granting Agency	Type of Permit	Number	Granted/Submitted	Expiration	Permit Status
New Mexico State Engineer Office	WQSP-5 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2417	11/10/94	1/31/96	Resubmittal Pending
New Mexico State Engineer Office	WQSP-6 well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2418	11/10/94	1/31/96	Resubmittal Pending
New Mexico State Engineer Office	WQSP-6a well, permit to appropriate the underground waters of New Mexico for monitoring and characterization	C-2419	11/10/94	1/31/96	Resubmittal Pending
U.S. Department of the Interior, Fish and Wildlife Service	Master Personal Banding	22478	5/19/93	6/30/98	Active
U.S. Department of the Interior, Fish and Wildlife Service	Concurrence that WIPP construction activities will have no significant impact on Federally-listed threatened or endangered species	None	5/29/80	None	Active
New Mexico Commissioner of Public Lands	Right-of-Way for High Volume Air Sampler	RW-22789	10/3/85	10/3/2000	Active
New Mexico Department of Finance and Administrative Planning Division, Historic Preservation Bureau	Concurrence that the DOE Archaeological Resources Protection Plan is adequate to mitigate any adverse impacts upon cultural resources resulting from construction of the WIPP facility	None	7/25/83	None	Active
New Mexico Environment Department	Notification of the presence of 2 Underground Storage Tanks	None	4/15/86	None	Active
U.S. Environmental Protection Agency	Conditional No-Migration Determination for the Test Phase	None	11/14/90	11/14/2000	Active
U.S. Environmental Protection Agency	NESHAPS (Radionuclides)	None	2/19/91 Data package submitted to the EPA		
U.S. Environmental Protection Agency	NPDES Storm Water General Permit	NMR00A021	12/31/92	12/31/97	Active

[1]Existing pads P-1 and P-2, as of October 1992, belong to the U.S. Department of Energy (DOE). Therefore this permit is no longer needed through the granting agency.

APPENDIX A2
MAPS

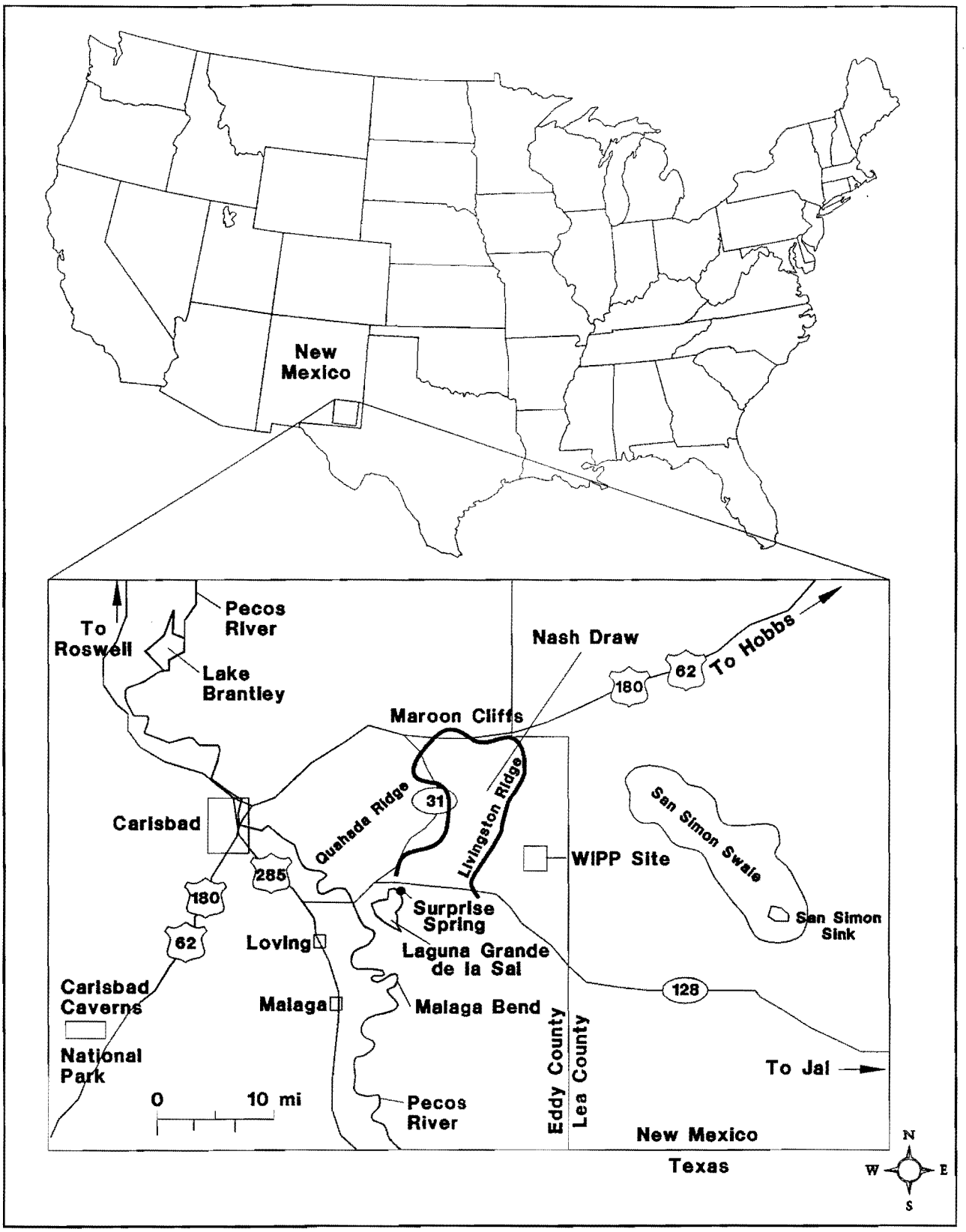


Figure A2-1
General Location of the WIPP Facility

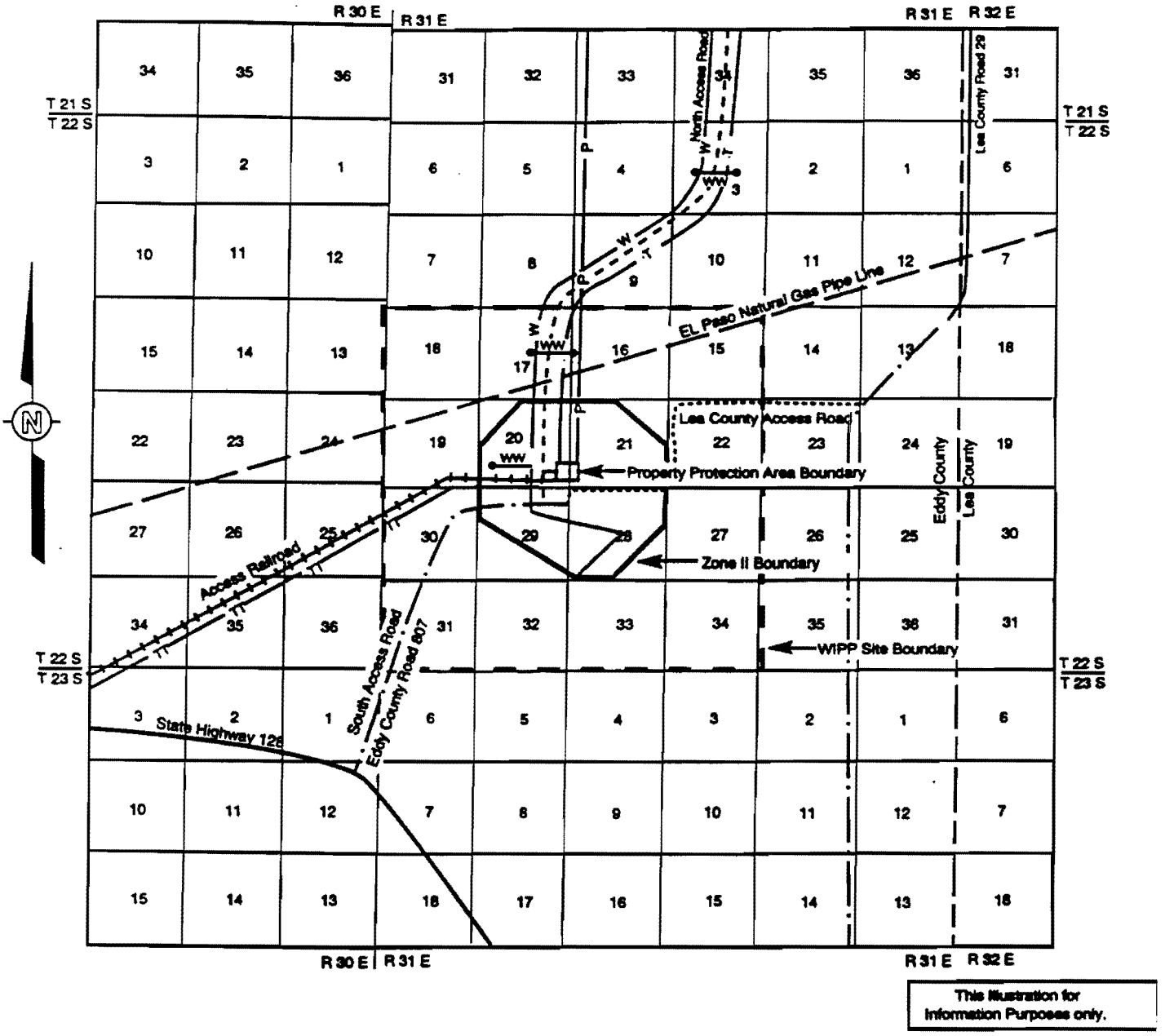


Figure A2-2
Planimetric Map - WIPP Facility Boundaries

LEGEND

— — · WIPP Site Boundary 10,240 Acres.

— W — U.S. DOE Right of Way Number NM-53809. For Waterline, 50 Feet Wide. The DOE had Agreed with the City of Carlsbad to Allow the Individuals to Tap this Line Located within the North Access Road Right of Way.

—WW— Stock Water Tanks and Tap Lines Connected to the Main WIPP Waterline.

—P— Southwestern Public Service Company Right of Way Number NM-43203 for Power 60 Feet Wide.

—T— General Telephone of the Southwest Right of Way for Telephone Line, 30 Feet Wide, Located within the North access Road Right of Way.

—TT— General Telephone of the Southwest Right of Way Number NM-60174 for Telephone Line, 30 Feet Wide, Located within the Railroad Right of Way.

---------- U.S. DOE Right of Way Number NM-55675 for North Access Road, 170 Feet Wide.

—— —— El Paso Natural Gas company Right of Way for Gas Pipeline, 30 Feet Wide in Section 16, 50 Feet Wide Elsewhere.

—+—+—+— U.S. DOE Right of Way Number NM-55699 for Access Railroad, 150 Feet Wide.

—— · —— Eddy County Right of Way for Access Roads Includes Right of Way Number NM-4130 for the South Access Road Which is 150 Feet Wide.

NOTES

1. The Property Protection Area is a fenced area of approximately 35 acres. It contains all surface facilities with the exception of salt storage piles, parking lot, landfill and waste water stabilization lagoons.

2. Zone II overlies the maximum extent of the Area available for underground development.

3. WIPP site boundary (WSB) provides a one mile buffer area around the area available for underground development.

Figure A2-2a
Legend to Figure A2-2

FIGURE A2-3

TOPOGRAPHIC MAP WITH UNDERGROUND FACILITIES

MAY 1995

APPENDIX A3
FACILITIES

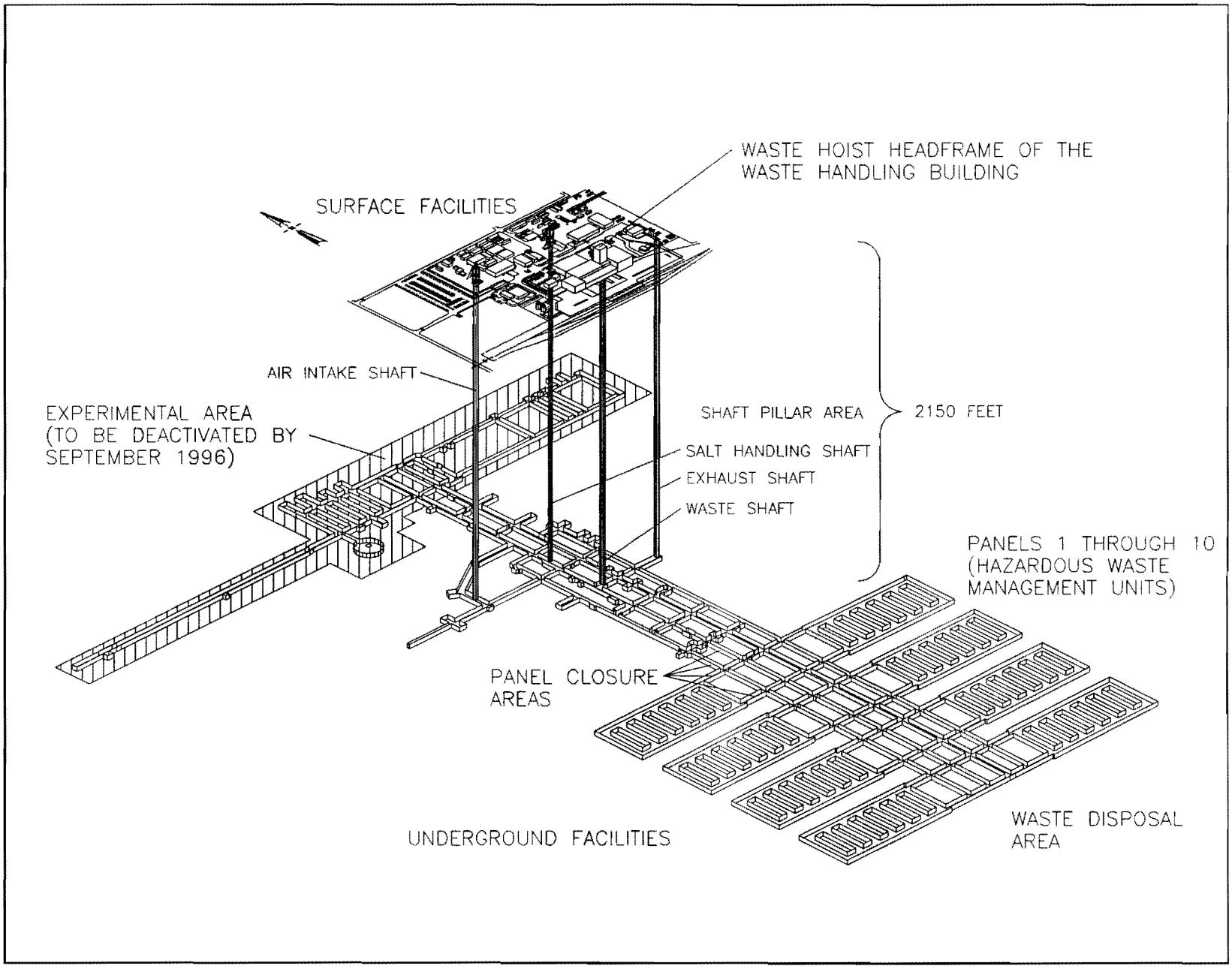


Figure A3-1
Spatial View of the WIPP Facility

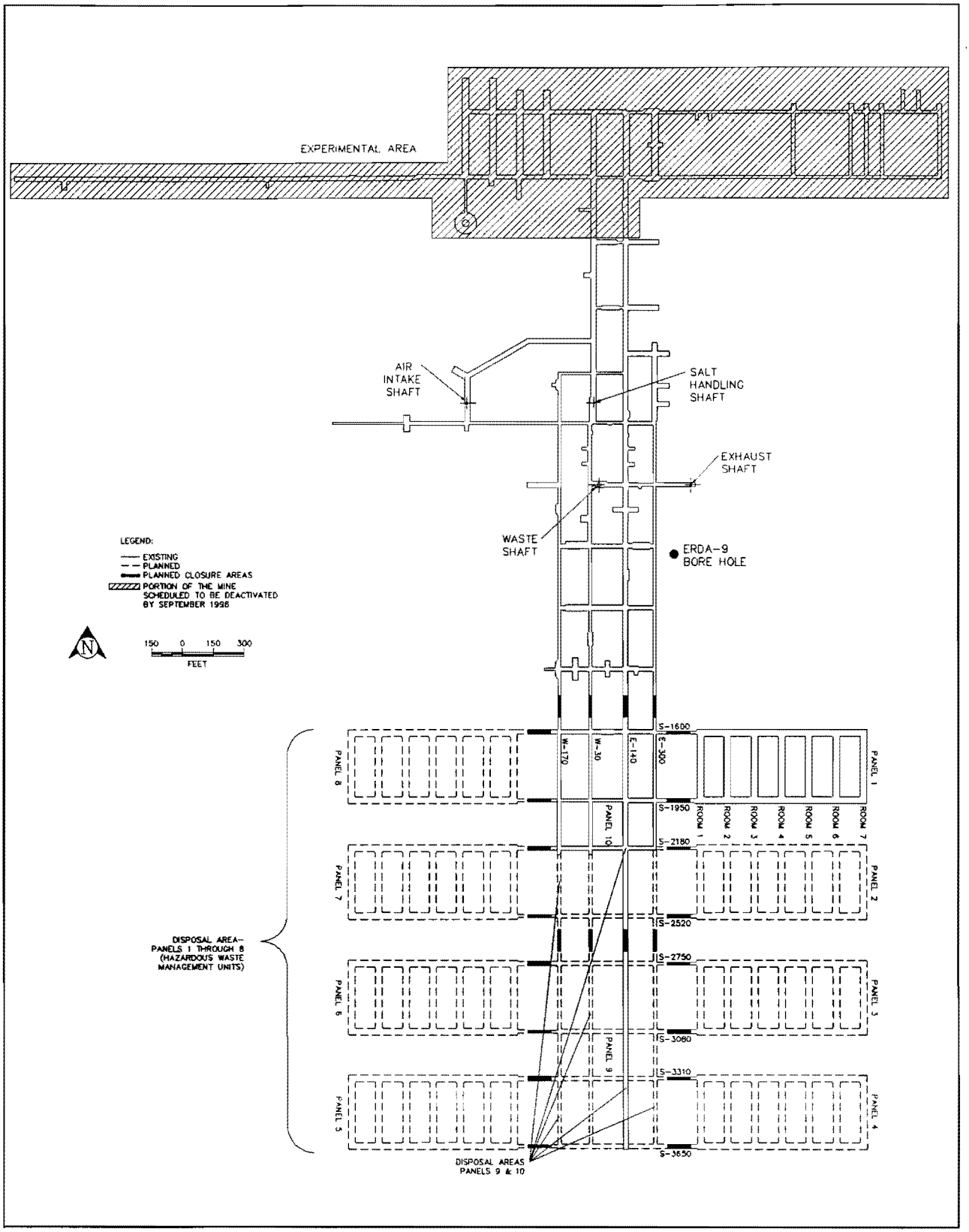


Figure A3-2
Repository Horizon

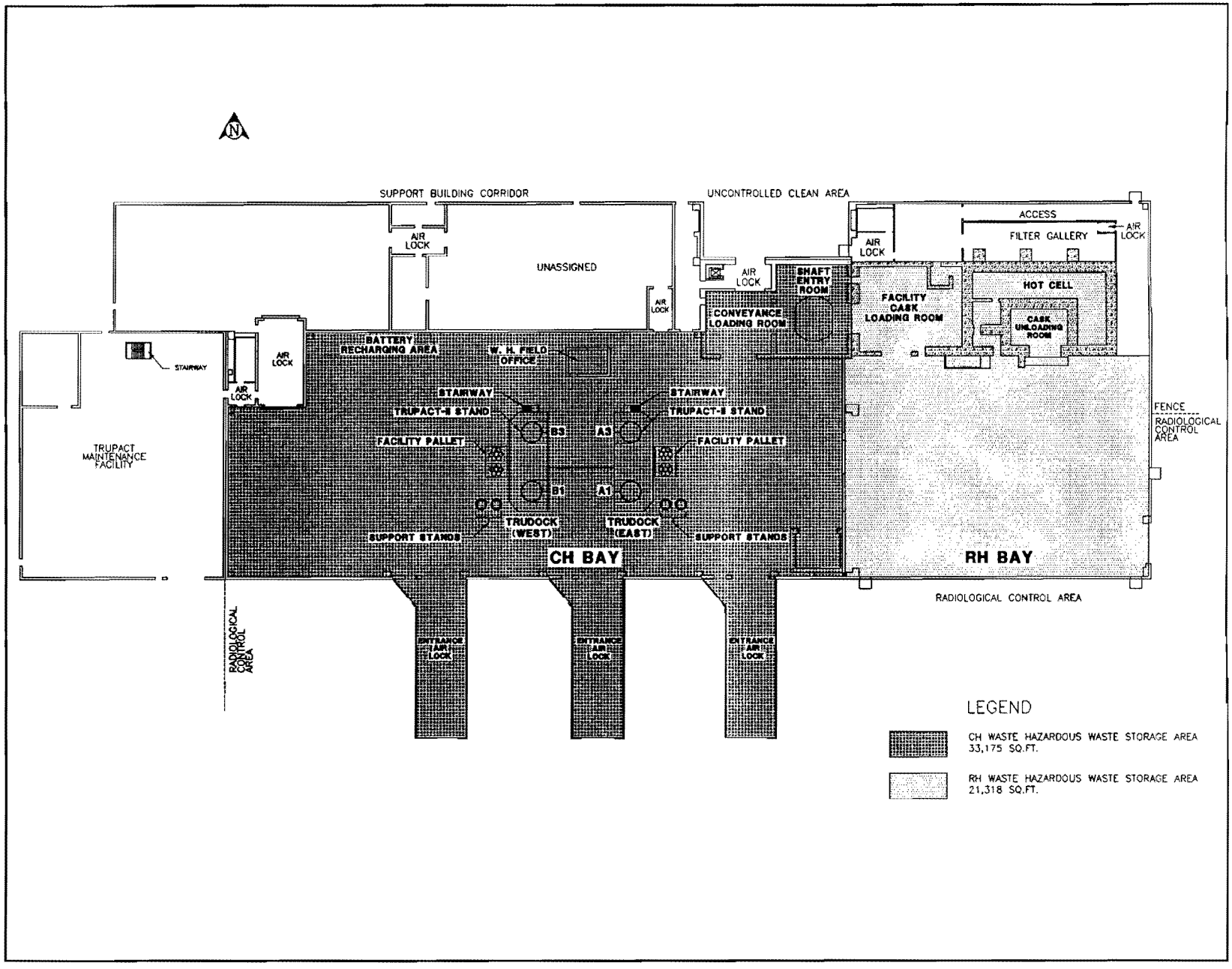


Figure A3-3
Waste Handling Building - Container Storage Unit

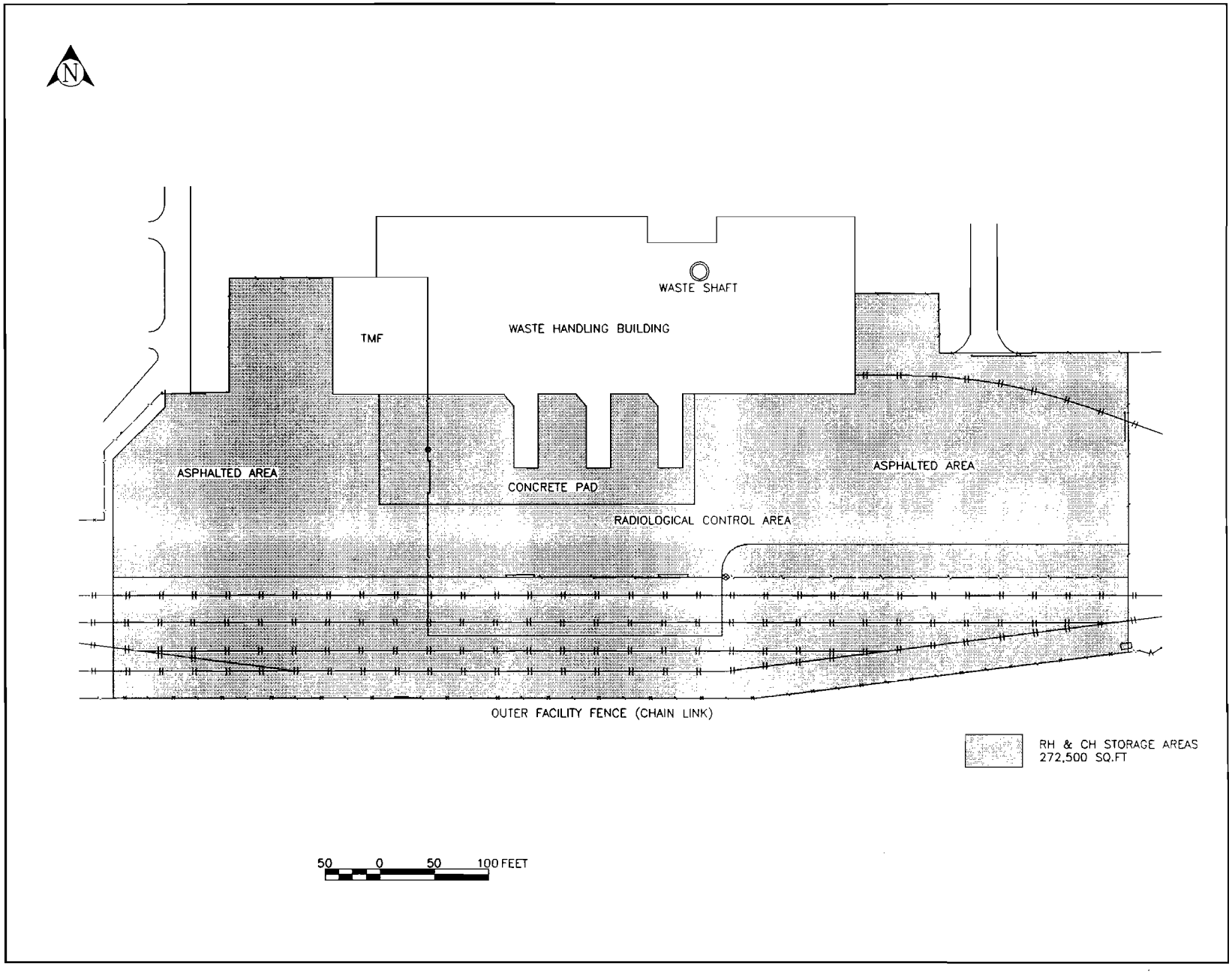


Figure A3-4
Parking Area - Container Storage Unit

APPENDIX A4
PHOTOGRAPHS

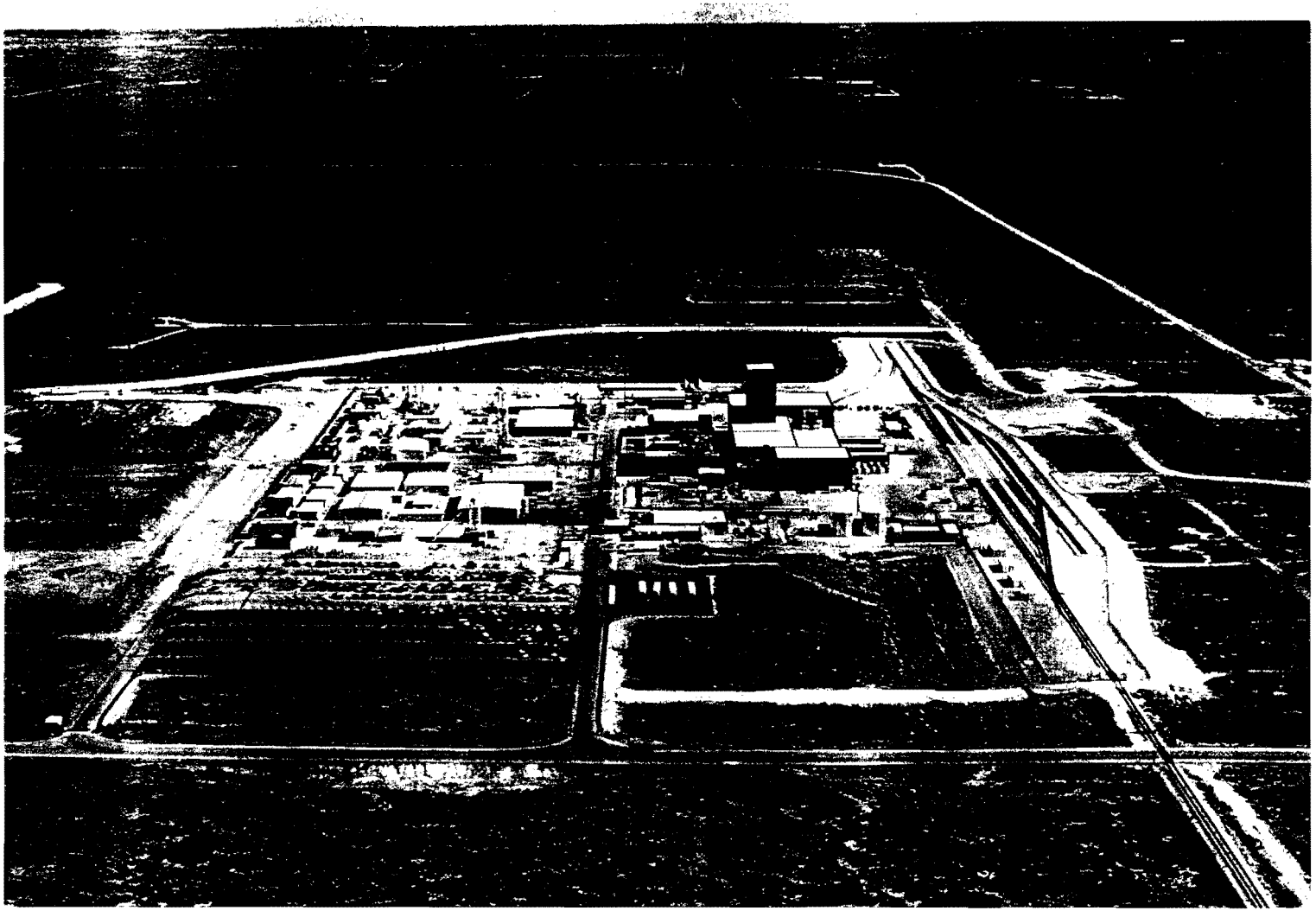
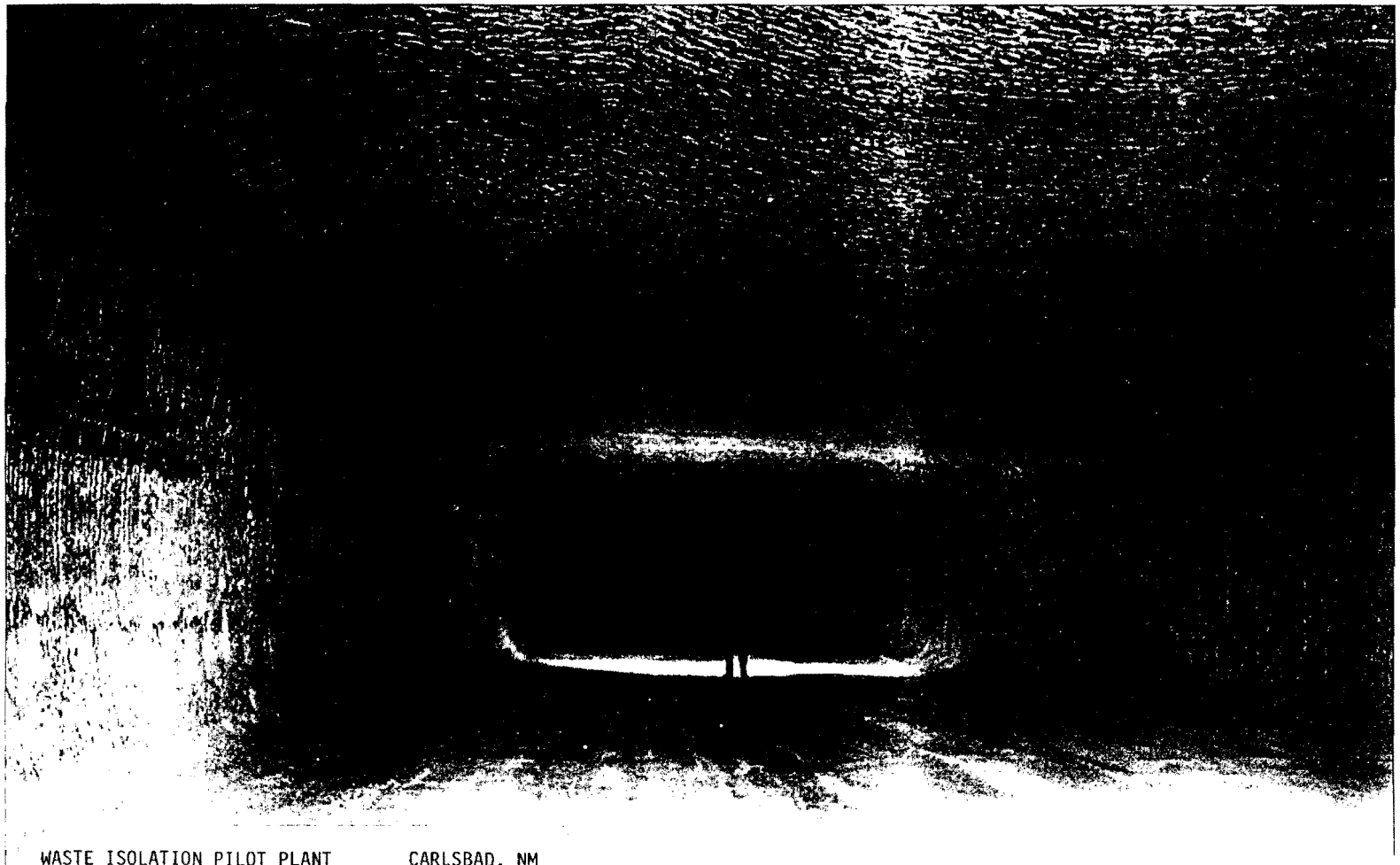


Figure A4-1
Aerial Photograph of the Waste Isolation Pilot Plant



WASTE ISOLATION PILOT PLANT CARLSBAD, NM

STORAGE ROOM 2,150 FEET UNDERGROUND IN SALT. DIMENSIONS ARE 33 FEET WIDE, 13 FEET HIGH AND 300 FEET LONG. THERE ARE 100' OF SALT PILLARS BETWEEN ROOMS.

Figure A4-2
Underground-Panel One-Waste Storage Room

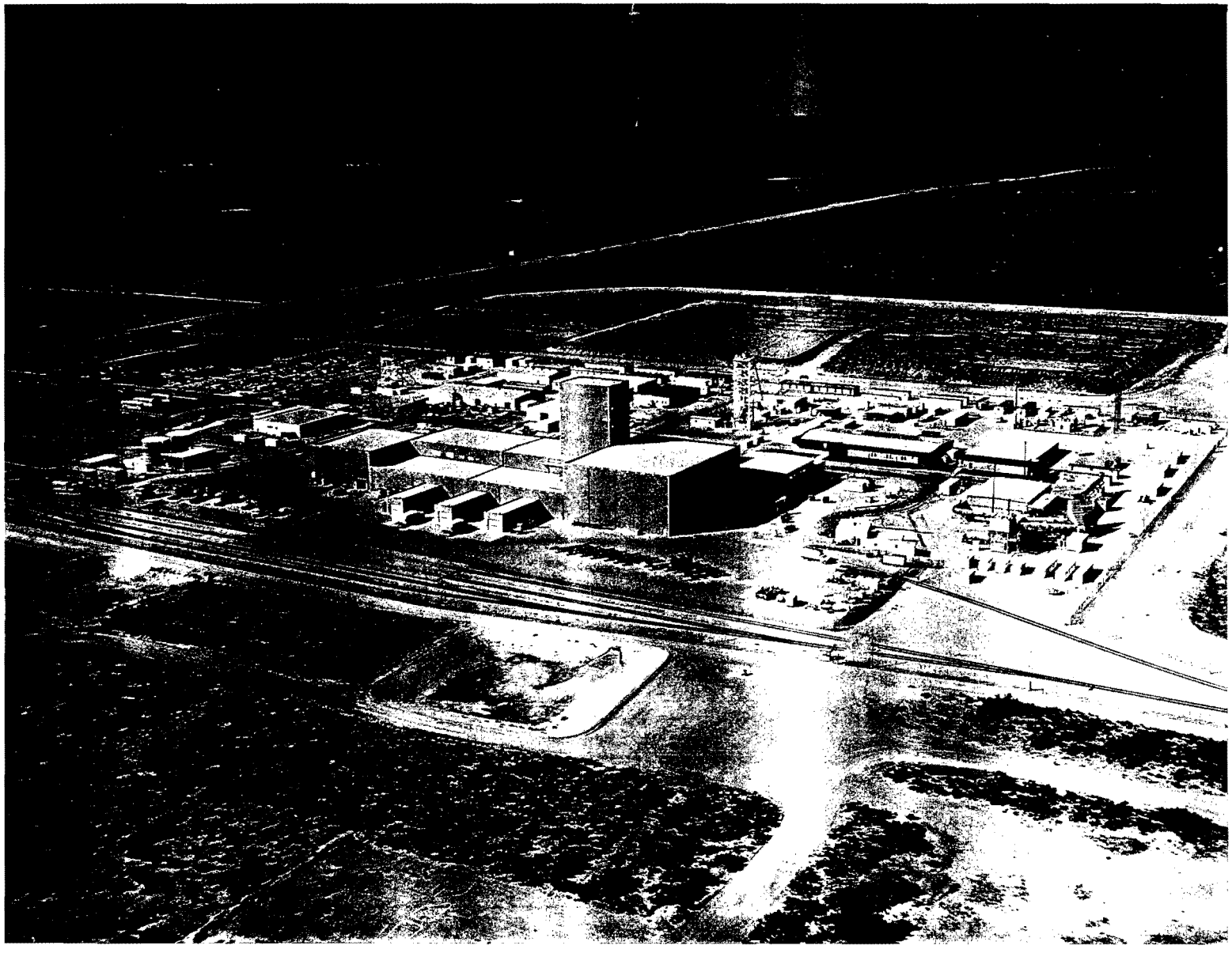


Figure A4-3
Aerial Photograph of the Waste Handling Building

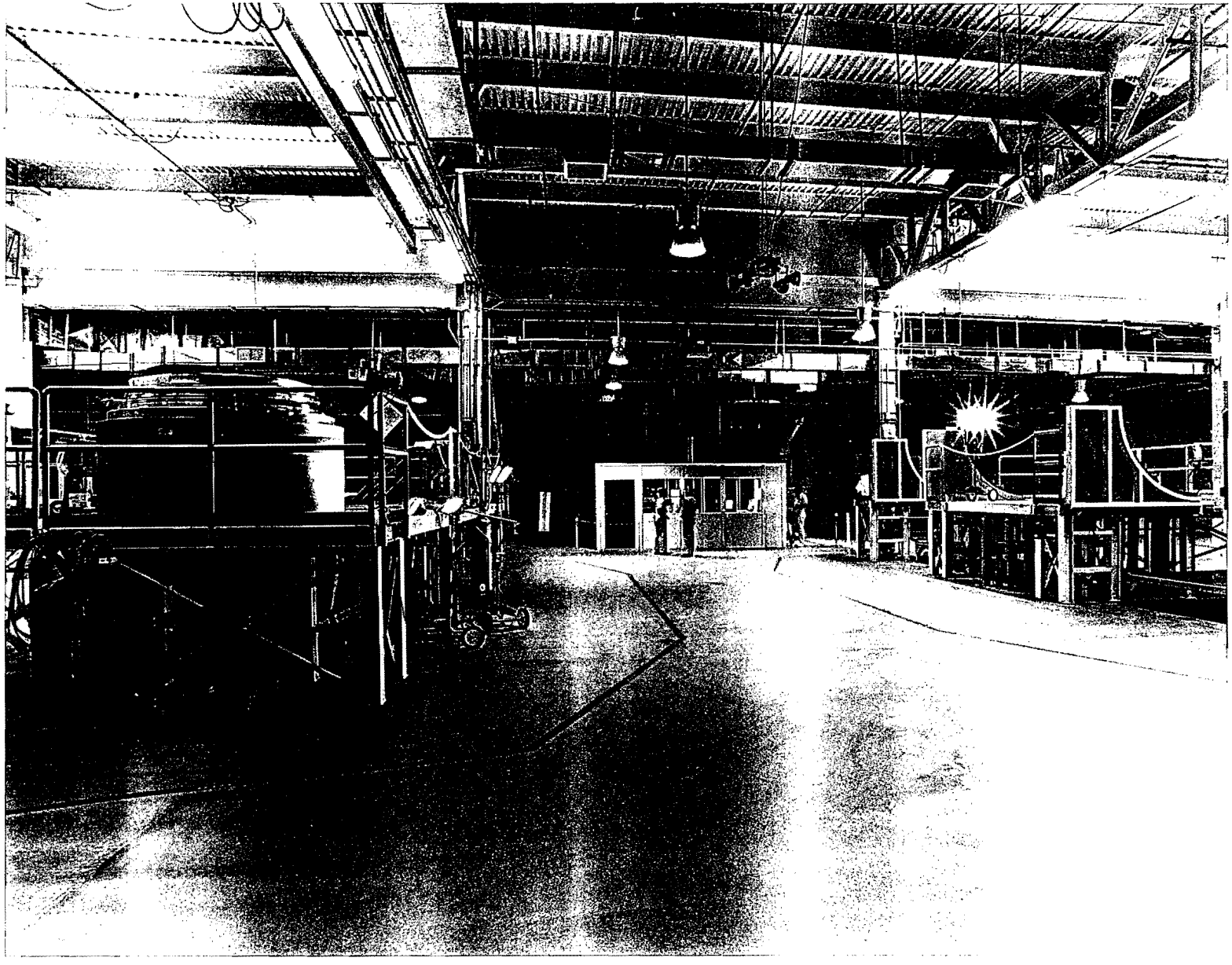


Figure A4-4
TRUDOCKs in CH Bay of the Waste Handling Building

Figure A4-5
NE Corner of CH Bay of the Waste Handling Building

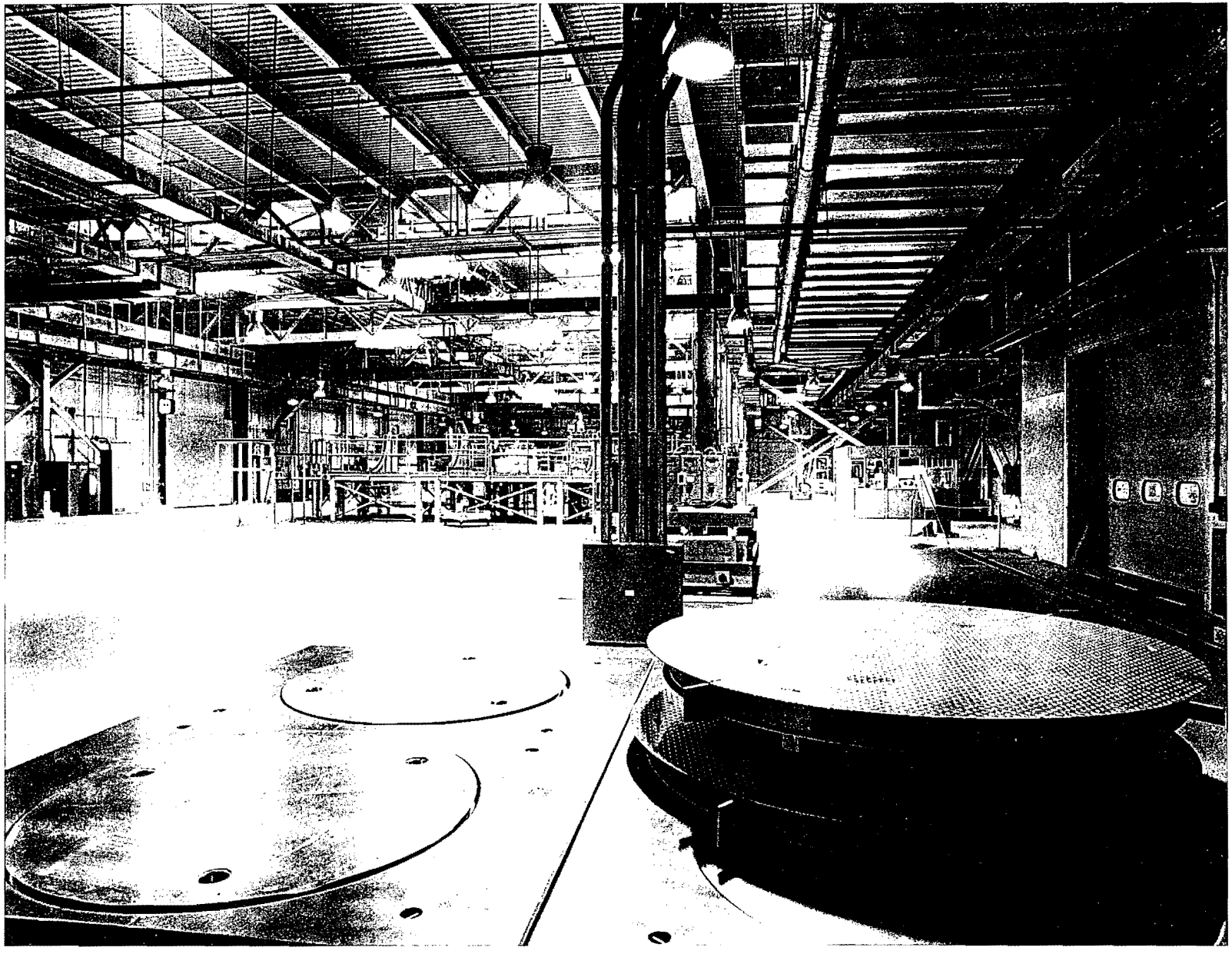


Figure A4-6
Westward View of CH Bay of the Waste Handling Building

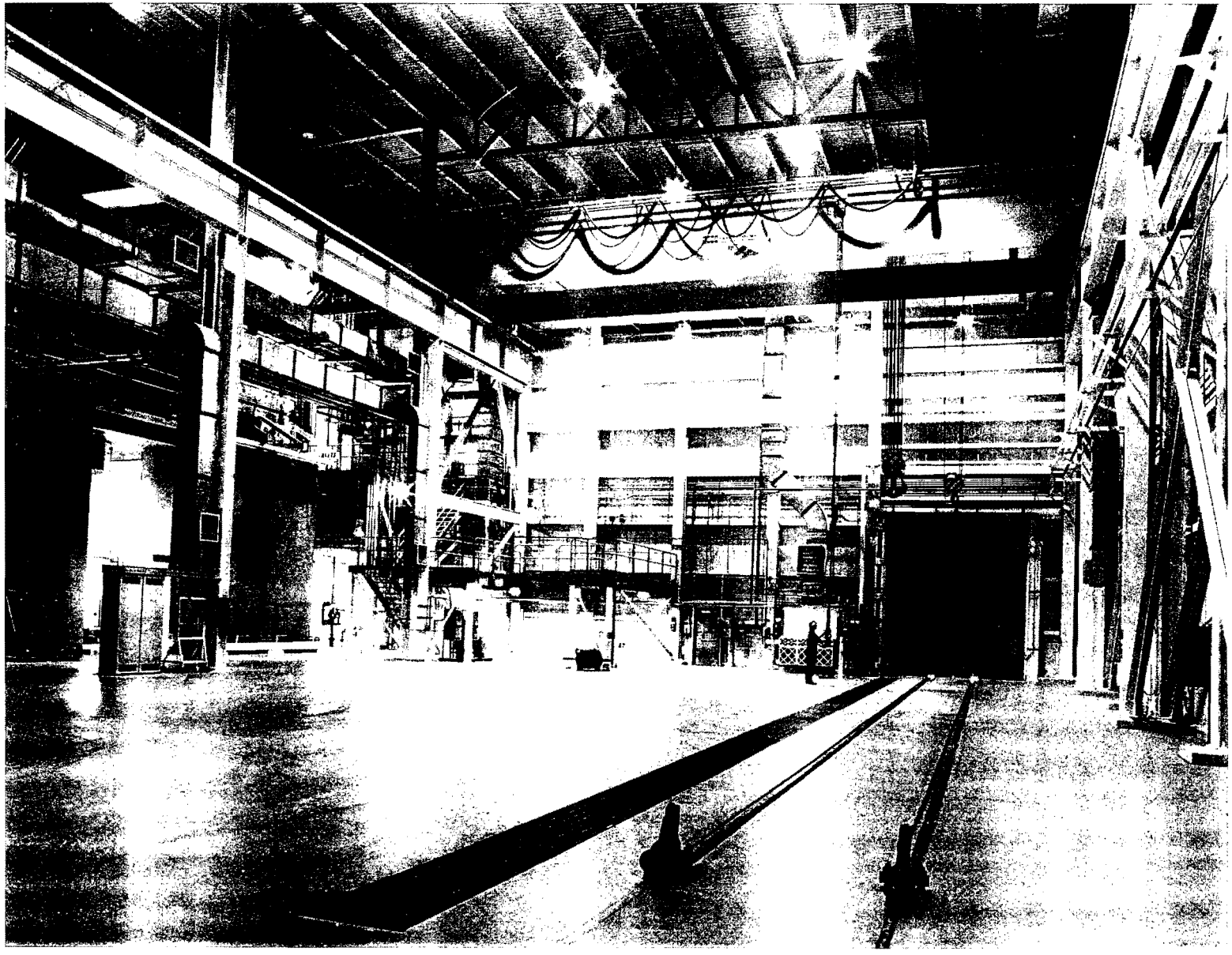


Figure A4-7
Eastward View of RH Bay of the Waste Handling Building

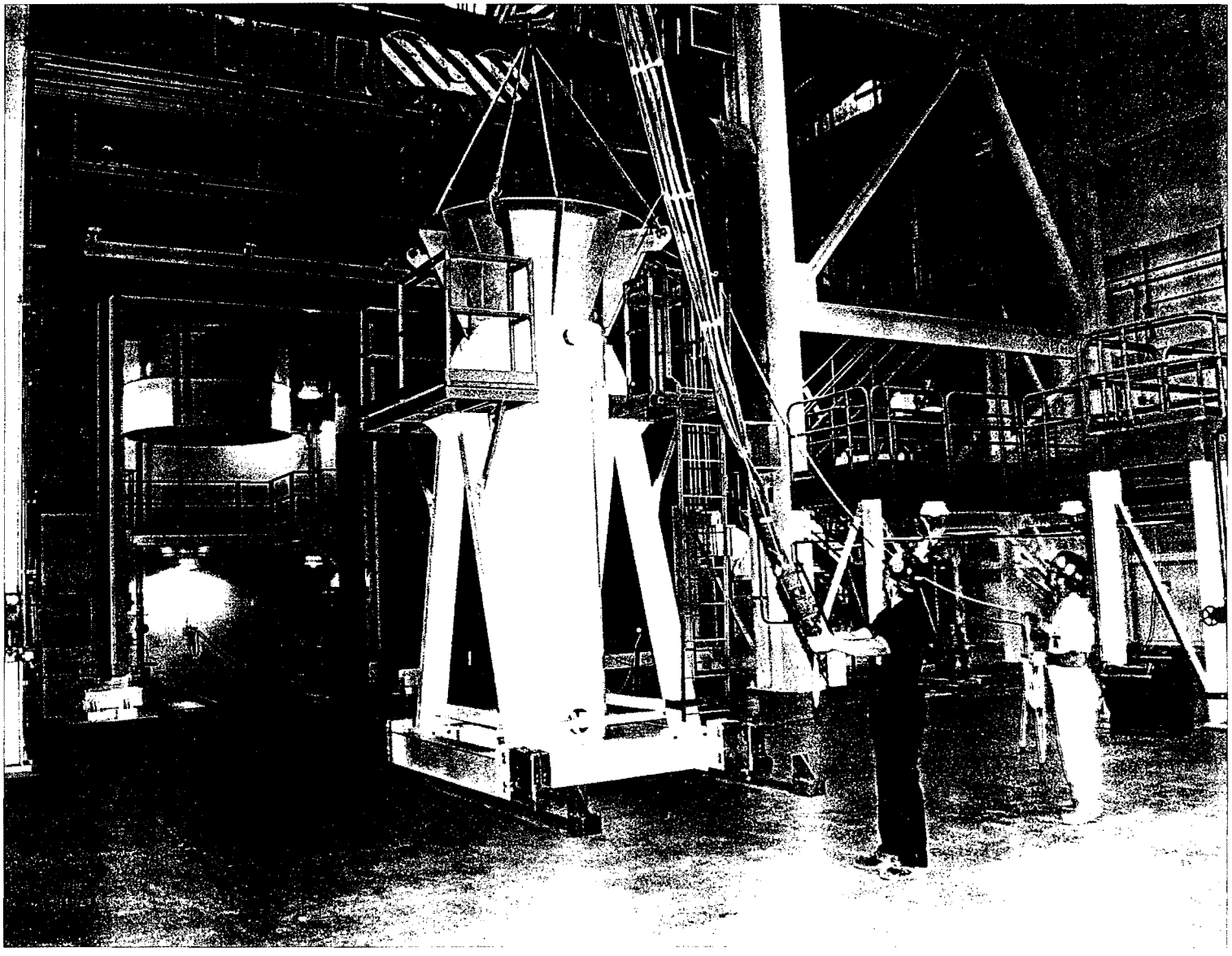


Figure A4-8
Road Cask Preparation to go into RH Unloading Room-RH Bay
Waste Hanlding Building

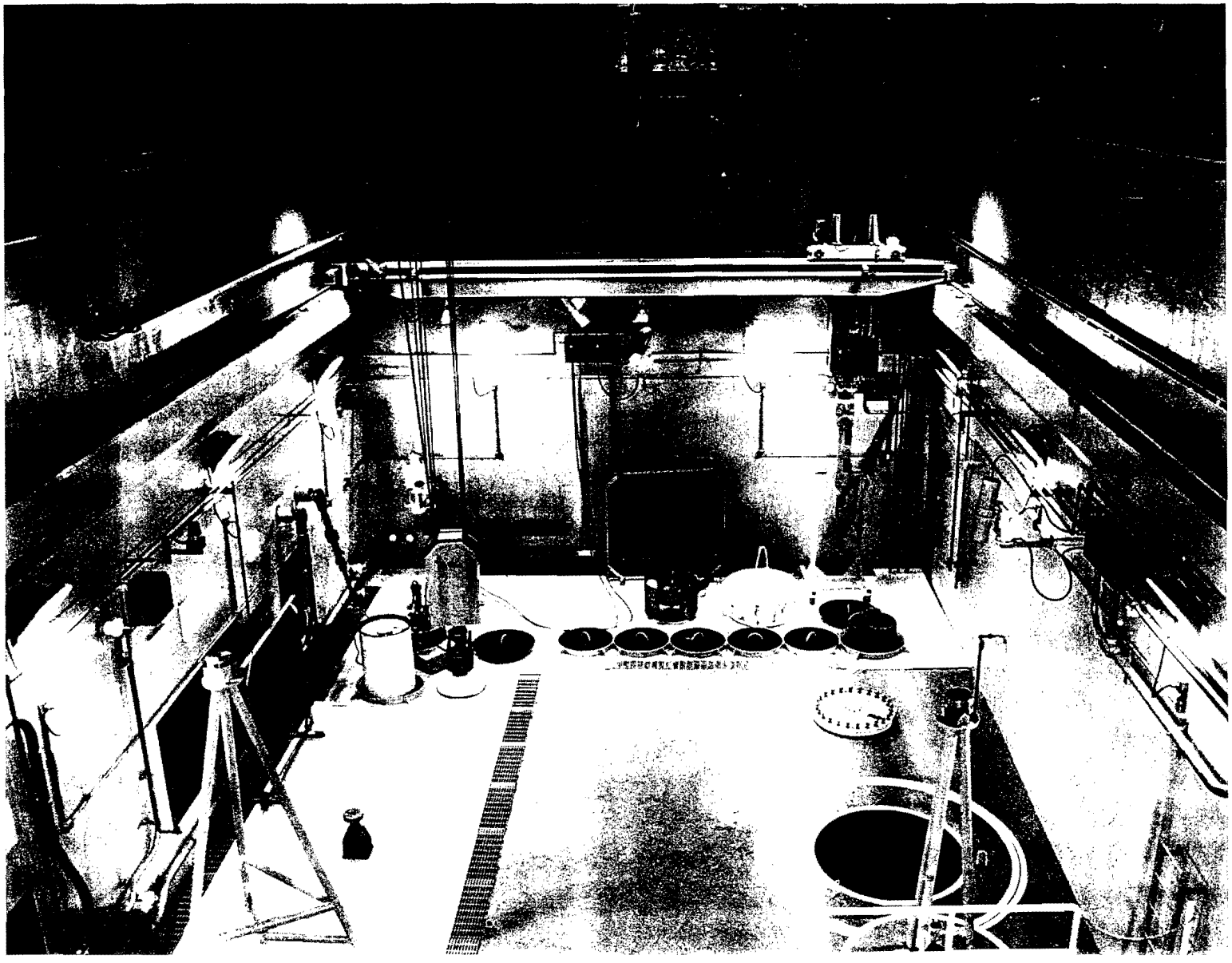


Figure A4-9
Hot Cell-Unloading Port Open-Waste Handling Building

Figure A4-10
Transfer Cell-Under RH Unloading Room
Waste Handling Building

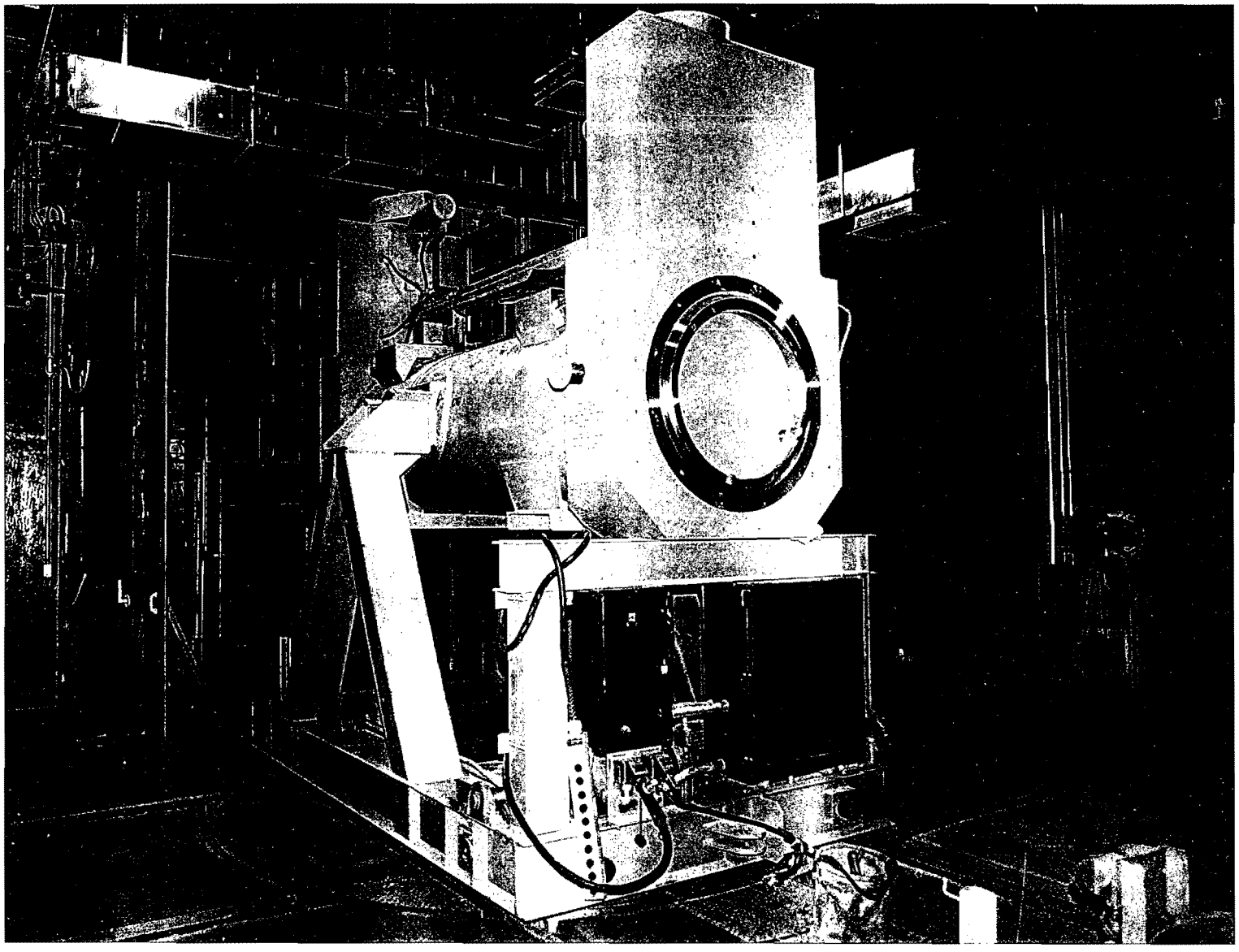


Figure A4-11
Facility Cask Loading Room and Waste Hoist Conveyance
Waste Handling Building

Figure A4-12
Waste Hoist Conveyance - Loading Facility Cask
Waste Handling Building

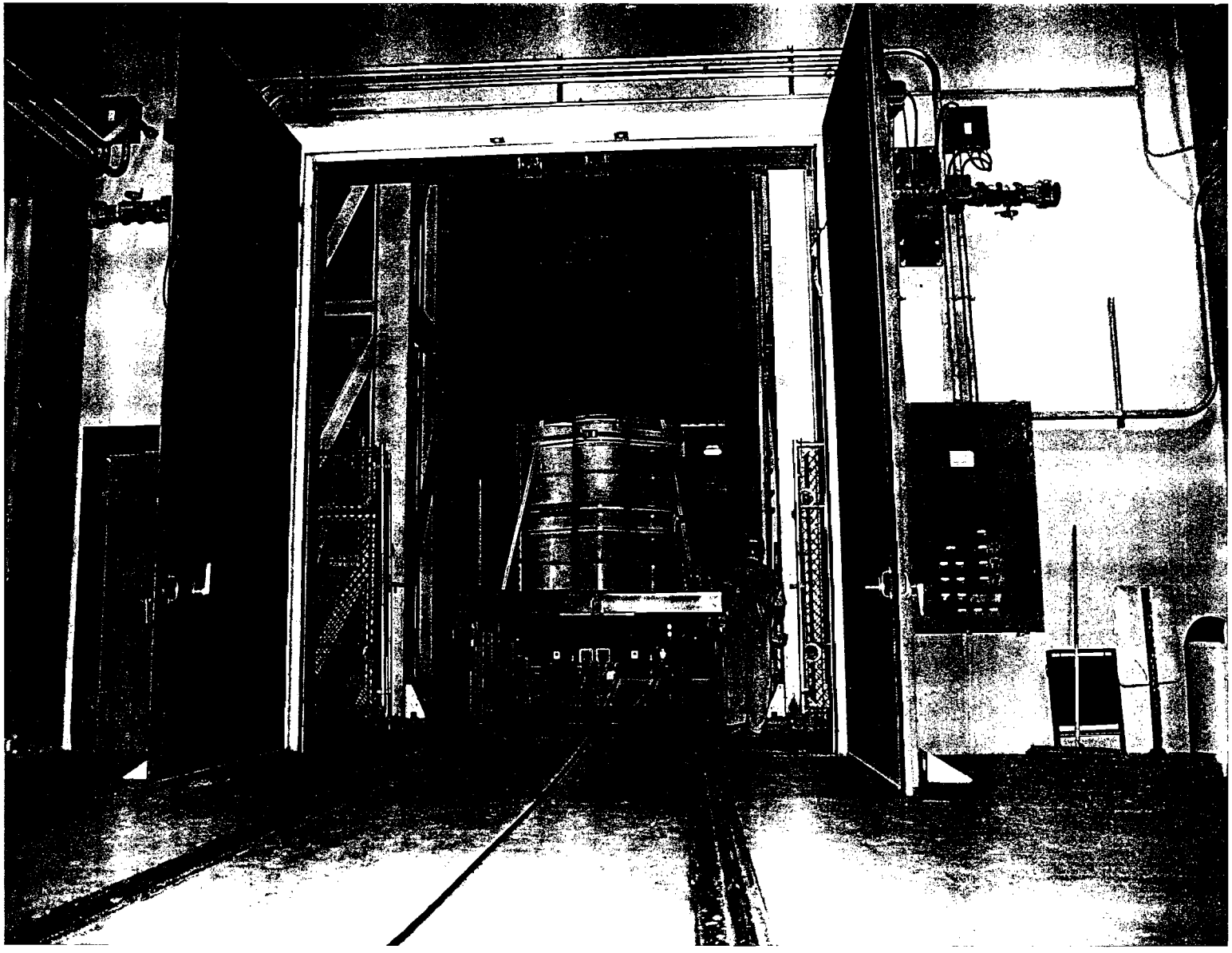


Figure A4-13
Waste Hoist Conveyance - Loading Facility Pallet with CH Waste
Waste Handling Building