G-000-102.73

3196

RCRA PART B PERMIT APPLICATION SECTION A: PART A PERMIT APPLICATION (MODIFIED) VOLUME 1 OF 13 MARCH 31, 1992

03/31/92

50
APPLICATION

G-000-101.295

RCRA PART B PERMIT APPLICATION

3196

March 31, 1992

SECTION A: PART A PERMIT APPLICATION (MODIFIED)

(Volume 1 of 13)

Fernald Environmental Management Project

U.S. EPA Identification No. 0H6890008976
Ohio EPA Permit No. 05-31-0681

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

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

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

3196

I. ID Number(s)

A. EPA ID Number	B. Secondary ID Number *(if applicable)*
OH6890008976	

II. Name of Facility

US DOE FERNALD ENV MGT PROJECT

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

A. Street: 7400 WILLEY ROAD

Street *(continued)*:

City or Town	State	ZIP Code
FERNALD	OH	45030-

County Code *(if known)*	County Name
031	HAMILTON

B. Land Type	C. Geographic Location		D. Facility Existence Date
(enter code)	*LATITUDE (degrees, minutes, & seconds)*	*LONGITUDE (degrees, minutes, & seconds)*	Month Day Year
F	39 18 00 N	084 41 00 W	11 19 1980

IV. Facility Mailing Address

Street or P.O. Box: PO BOX 3987705

City or Town	State	ZIP Code
CINCINNATI	OH	45239-8705

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

Name *(last)*	*(first)*
RAST	DAVID

Job Title	Phone Number *(area code and number)*
ENV ENGINEER	513-738-6322

VI. Facility Contact Address *(See instructions)*

A. Contact Address Location	Mailing	B. Street or P.O. Box
XX		

City or Town	State	ZIP Code
		-

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Form Approved. OMB No. 2050-0034 Expires 12-31-91
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EPA I.D. Number *(enter from page 1)*: OH6890008976

3196

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

VII. Operator Information *(see instructions)*

Name of Operator: US DEPARTMENT OF ENERGY

Street or P.O. Box: PO BOX 39705

City or Town: CINCINNATI

State: OH

ZIP Code: 45239-8705

Phone Number *(area code and number)*: 513-738-6200

B. Operator Type: F

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

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 398705

City or Town: CINCINNATI

State: OH

ZIP Code: 45239-8705

Phone Number *(area code and number)*: 513-738-6200

B. Owner Type: F

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

Date Changed Month Day Year:

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

Primary		Secondary	
2819	(description) PROD OF URANIUM METAL & COMPOUND		(description)
Secondary		**Secondary**	
	(description)		(description)

X. Other Environmental Permits *(see instructions)*

A. Permit Type *(enter code)*	B. Permit Number	C. Description
NE	1I0000004*CD	
	OTHER	See Attachment #1

ITEM VII: OPERATOR INFORMATION (Continued)

3196

NAME OF CO-OPERATOR

Westinghouse Environmental Management Company of Ohio, Inc. (WEMCO)
(Formerly Westinghouse Materials Company of Ohio (WMCO))

STREET OR P.O. BOX

P.O. BOX 398704

CITY OR TOWN	STATE	ZIP CODE
Cincinnati	Ohio	45239-8704

TELEPHONE NUMBER

(513) 738-6200

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0	H	6	8	9	0	0	0	8	9	7	6		

XI. Nature of Business (provide a brief description)

The Fernald Environmental Management Project (FEMP) is a large scale integrated production facility which formerly produced uranium metal used in the fabrication of fuel cores for nuclear reactors operated by the United States Department of Energy. Current activities include waste management operations, remedial investigation, environmental response actions, nuclear materials disposition, new construction, and miscellaneous operations (e.g., wastewater treatment).

XII. Process - Codes and Design Capacities

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

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

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

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

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

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

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OH 6 8 9 0 0 0 8 9 7 6	3196

XII. Process - Codes and Design Capacities (continued)

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

Line Number		A. PROCESS CODE (from list above)			B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. 2. UNIT OF MEASURE (enter code)	C. PROCESS TOTAL NUMBER OF UNITS			FOR OFFICIAL USE ONLY
X	1	S	0	2	600	G	0	0	2	
X	2	T	0	3	20	E	0	0	1	
	1	S	0	1	11,689,095	G	0	0	7	
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
1	0									
1	1									
1	2									

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

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

Line Number (enter numbers in sequence with Item XII)	A. PROCESS CODE	B. TREATMENT PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. 2. UNIT OF MEASURE (enter code)	C. PROCESS TOTAL NUMBER OF UNITS	D. DESCRIPTION OF PROCESS
	T 0 4				
	T 0 4				
	T 0 4				
	T 0 4				

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EPA I.D. Number (enter from page 1)												3196	Secondary ID Number (enter from page 1)
0	H	6	8	9	0	0	0	8	9	7	6		

XIV. Description of Hazardous Wastes

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

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

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

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

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

D. PROCESSES

1. PROCESS CODES:

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

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

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

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

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

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

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

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

Line Number		A. EPA HAZARD WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS (1) PROCESS CODES (enter)									D. PROCESS (2) PROCESS DESCRIPTION (if a code is not entered in D(1))
X	1	K	0	5	4	900	P	T	0	3	D	8	0				
X	2	D	0	0	2	400	P	T	0	3	D	8	0				
X	3	D	0	0	1	100	P	T	0	3	D	8	0				7
X	4	D	0	0	2												Included With Above

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EPA I.D. Number (enter from page 1): 0 H 6 8 9 0 0 0 8 9 7 6

3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D001	11,000	P	S01	
2	D002				Included with above
3	D001	80,000	P	S01	
4	D002				Included with above
5	D007				Included with above
6	D001	10,000	P	S01	
7	D002				Included with above
8	D007				Included with above
9	D008				Included with above
10	D001	11,000	P	S01	
11	D003				Included with above
12	D001	10,000	P	S01	
13	D003				Included with above
14	D005				Included with above
15	D001	11,000	P	S01	
16	D003				Included with above
17	F003				Included with above
18	D001	19,000	P	S01	
19	D005				Included with above
20	D007				Included with above
21	D001	10,000	P	S01	
22	D005				Included with above
23	D008				Included with above
24	D001	11,000	P	S01	
25	D005				Included with above
26	D008				Included with above
27	D018				Included with above
28	D001	10,500	P	S01	
29	D007				Included with above
30	D008				Included with above
31	D010				Included with above
32	D018				Included with above
33	F002				Included with above

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EPA I.D. Number (enter from page 1): 0 H 6 8 9 0 0 0 8 9 7 6

3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D001	15,000	P	S01	
2	D007				Included in above
3	D008				Included in above
4	D001	20,000	P	S01	
5	D008				Included in above
6	D001	15,000	P	S01	
7	D008				Included in above
8	D018				Included in above
9	D001	10,000	P	S01	
10	D008				Included in above
11	D018				Included in above
12	D019				Included in above
13	D039				Included in above
14	D040				Included in above
15	F002				Included in above
16	F003				Included in above
17	D001	10,000	P	S01	
18	D008				Included in above
19	D018				Included in above
20	D035				Included in above
21	D001	10,500	P	S01	
22	D008				Included in above
23	D035				Included in above
24	F005				Included in above
25	D001	136,000	P	S01	
26	D019				Included in above
27	D022				Included in above
28	D028				Included in above
29	D029				Included in above
30	D035				Included in above
31	D039				Included in above
32	D040				Included in above
33	F005				Included in above

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EPA I.D. Number (enter from page 1): O H 6 8 9 0 0 0 8 9 7 6

3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D001	10,500	P	S01	
2	D008				Included in above
3	F002				Included in above
4	D001	20,000	P	S01	
5	D018				Included in above
6	D001	10,500	P	S01	
7	D018				Included in above
8	U019				Included in above
9	D001	10,000	P	S01	
10	D019				Included in above
11	D022				Included in above
12	D039				Included in above
13	F002				Included in above
14	F003				Included in above
15	D001	44,500	P	S01	
16	D019				Included in above
17	D039				Included in above
18	D040				Included in above
19	F001				Included in above
20	F003				Included in above
21	F005				Included in above
22	D001	16,000	P	S01	
23	D039				Included in above
24	F001				Included in above
25	D001	185,000	P	S01	
26	F001				Included in above
27	D001	10,500	P	S01	
28	F001				Included in above
29	F002				Included in above
30	F003				Included in above
31	D001	11,000	P	S01	
32	F003				Included in above
33	U056				Included in above

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3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D001	185,100	P	S01	
2	F001				Included in above
3	D001	10,500	P	S01	
4	F001				Included in above
5	F002				Included in above
6	F003				Included in above
7	D001	37,500	P	S01	
8	F002				Included in above
9	D001	13,000	P	S01	
10	F002				Included in above
11	F003				Included in above
12	F005				Included in above
13	D001	13,500	P	S01	
14	F003				Included in above
15	D001	10,500	P	S01	
16	U108				Included in above
17	D001	10,500	P	S01	
18	U108				Included in above
19	U117				Included in above
20	U161				Included in above
21	U213				Included in above
22	U359				Included in above
23	D001	10,500	P	S01	
24	U108				Included in above
25	U117				Included in above
26	U169				Included in above
27	U213				Included in above
28	U359				Included in above
29	D001	10,500	P	S01	
30	U117				Included in above
31	D001	10,500	P	S01	
32	U161				Included in above
33	D002	954,600	P	S01	

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Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D001	1,000	P	S01	
2	U117				Included in above
3	U213				Included in above
4	U108				Included in above
5	U359				Included in above
6	U161				Included in above
7	D001	15,000	P	S01	
8	F005				Included in above
9	D001	1,000	P	S01	
10	U117				Included in above
11	U213				Included in above
12	U108				Included in above
13	U359				Included in above
14	U161				Included in above
15	D002	11,500	P	S01	
16	D004				Included in above
17	D007				Included in above
18	D008				Included in above
19	D011				Included in above
20	D002	10,000	P	S01	
21	D004				Included in above
22	D008				Included in above
23	D002	10,000	P	S01	
24	D006				Included in above
25	D002	10,000	P	S01	
26	D006				Included in above
27	D009				Included in above
28	D002	25,000	P	S01	
29	D007				Included in above
30	D002	15,000	P	S01	
31	D007				Included in above
32	D008				Included in above
33	D003	11,000	P	S01	

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EPA I.D. Number (enter from page 1): 0 H 6 8 9 0 0 0 8 9 7 6

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Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D002	2,490,000	P	S01	
2	D005				Included in above
3	D007				Included in above
4	D002	13,500	P	S01	
5	D004				Included in above
6	D007				Included in above
7	D001	16,000	P	S01	
8	D039				Included in above
9	F003				Included in above
10	F005				Included in above
11	D002	10,000	P	S01	
12	D007				Included in above
13	D010				Included in above
14	D002	10,000	P	S01	
15	D009				Included in above
16	D002	10,000	P	S01	
17	D009				Included in above
18	U151				Included in above
19	D003	10,000	P	S01	
20	D018				Included in above
21	D003	11,000	P	S01	
22	F001				Included in above
23	D003	11,000	P	S01	
24	F001				Included in above
25	U056				Included in above
26	D003	10,000	P	S01	
27	F003				Included in above
28	D004	10,000	P	S01	
29	D004	12,000	P	S01	
30	D005				Included in above
31	D006				Included in above
32	D007				Included in above
33	D008				Included in above

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EPA I.D. Number (enter from page 1): 0 H 6 8 9 0 0 0 8 9 7 6

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Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D004	11,000	P	S01	
2	D005				Included in above
3	D006				Included in above
4	D007				Included in above
5	D004	10,500	P	S01	
6	D005				Included in above
7	D006				Included in above
8	D007				Included in above
9	D008				Included in above
10	D010				Included in above
11	D018				Included in above
12	F002				Included in above
13	D004	11,000	P	S01	
14	D005				Included in above
15	D006				Included in above
16	D007				Included in above
17	D008				Included in above
18	D011				Included in above
19	D004	10,500	P	S01	
20	D005				Included in above
21	D006				Included in above
22	D007				Included in above
23	D008				Included in above
24	D022				Included in above
25	F002				Included in above
26	F003				Included in above
27	D004	17,000	P	S01	
28	D005				Included in above
29	D007				Included in above
30	D008				Included in above
31	D010				Included in above
32	D011				Included in above
33	D004	238,000	P	S01	

14

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

EPA I.D. Number (enter from page 1): O H 6 8 9 0 0 0 8 9 7 6

3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D004	10,000	P	S01	
2	D005				Included in above
3	D008				Included in above
4	D022				Included in above
5	F002				Included in above
6	F003				Included in above
7	D004	10,500	P	S01	
8	D005				Included in above
9	D008				Included in above
10	F001				Included in above
11	F002				Included in above
12	D004	10,500	P	S01	
13	D006				Included in above
14	D004	12,500	P	S01	
15	D006				Included in above
16	D007				Included in above
17	D008				Included in above
18	D004	82,500	P	S01	
19	D006				Included in above
20	D008				Included in above
21	D004	637,000	P	S01	
22	D006				Included in above
23	D008				Included in above
24	D010				Included in above
25	D004	10,000	P	S01	
26	D006				Included in above
27	D008				Included in above
28	F002				Included in above
29	D004	10,000	P	S01	
30	D008				Included in above
31	D004	11,500	P	S01	
32	D008				Included in above
33	D011				Included in above

15

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EPA I.D. Number (enter from page 1)												3196	Secondary ID Number (enter from page 1)
0	H	6	8	9	0	0	0	8	9	7	6		

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D004	10,100	P	S01	
2	D008				Included in above
3	D011				Included in above
4	F005				Included in above
5	D004	11,000	P	S01	
6	D011				Included in above
7	D005	19,000	P	S01	
8	D006				Included in above
9	D007				Included in above
10	D008				Included in above
11	D005	12,500	P	S01	
12	D006				Included in above
13	D007				Included in above
14	D008				Included in above
15	D009				Included in above
16	D005	10,000	P	S01	
17	D006				Included in above
18	D007				Included in above
19	D008				Included in above
20	D010				Included in above
21	D018				Included in above
22	F001				Included in above
23	F002				Included in above
24	F003				Included in above
25	F004				Included in above
26	D005	10,000	P	S01	
27	D006				Included in above
28	D007				Included in above
29	D008				Included in above
30	F003				Included in above
31	D005	10,750	P	S01	
32	D008				Included in above
33	D018				Included in above

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EPA I.D. Number (enter from page 1): O H 6 8 9 0 0 0 8 9 7 6

3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D005	25,000	P	S01	
2	D007				Included in above
3	D005	213,000	P	S01	
4	D008				Included in above
5	D005	10,000	P	S01	
6	D008				Included in above
7	D018				Included in above
8	F002				Included in above
9	D005	16,500	P	S01	
10	D008				Included in above
11	F002				Included in above
12	D005	252,000	P	S01	
13	D010				Included in above
14	D005	10,000	P	S01	
15	D018				Included in above
16	D005	46,500	P	S01	
17	F002				Included in above
18	D006	11,000	P	S01	
19	D006	10,500	P	S01	
20	D007				Included in above
21	D006	11,000	P	S01	
22	D007				Included in above
23	D008				Included in above
24	D006	10,200	P	S01	
25	D007				Included in above
26	D008				Included in above
27	D018				Included in above
28	D040				Included in above
29	F002				Included in above
30	F005				Included in above
31	D006	10,000	P	S01	
32	D009				Included in above
33	D007	49,000	P	S01	

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EPA I.D. Number (enter from page 1): 0 H 6 8 9 0 0 0 8 9 7 6

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Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D006	10,200	P	S01	
2	D007				Included in above
3	D008				Included in above
4	D018				Included in above
5	D040				Included in above
6	F002				Included in above
7	D006	14,000	P	S01	
8	D007				Included in above
9	D008				Included in above
10	D019				Included in above
11	D029				Included in above
12	D040				Included in above
13	F001				Included in above
14	D006	14,000	P	S01	
15	D007				Included in above
16	D008				Included in above
17	D029				Included in above
18	D040				Included in above
19	D041				Included in above
20	D006	10,000	P	S01	
21	D008				Included in above
22	D018				Included in above
23	D019				Included in above
24	D028				Included in above
25	D029				Included in above
26	D039				Included in above
27	D040				Included in above
28	F002				Included in above
29	F005				Included in above
30	D006	12,500	P	S01	
31	D008				Included in above
32	D007	81,000	P	S01	
33	D010				

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EPA I.D. Number (enter from page 1): 0 H 6 8 9 0 0 0 8 9 7 6

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Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D007	10,100	P	S01	
2	D011				Included in above
3	D007	18,000	P	S01	
4	D018				Included in above
5	D019				Included in above
6	D021				Included in above
7	D029				Included in above
8	D039				Included in above
9	D040				Included in above
10	F001				Included in above
11	D007	10,500	P	S01	
12	D018				Included in above
13	D021				Included in above
14	D029				Included in above
15	D007	11,000	P	S01	
16	F001				Included in above
17	D008	720,000	P	S01	
18	D008	11,000	P	S01	
19	D009				Included in above
20	D039				Included in above
21	F001				Included in above
22	D008	11,000	P	S01	
23	D011				Included in above
24	F001				Included in above
25	D008	20,000	P	S01	
26	D018				Included in above
27	D008	11,500	P	S01	
28	D018				Included in above
29	F001				Included in above
30	F002				Included in above
31	D008	13,000	P	S01	
32	D018				Included in above
33	F002				Included in above

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

EPA I.D. Number (enter from page 1): 0 H 6 8 9 0 0 0 8 9 7 6

3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D008	13,000	P	S01	
2	D018				Included in above
3	D019				Included in above
4	D028				Included in above
5	D029				Included in above
6	D039				Included in above
7	D040				Included in above
8	F002				Included in above
9	D008	11,000	P	S01	
10	D039				Included in above
11	D040				Included in above
12	F001				Included in above
13	D008	82,000	P	S01	
14	F001				Included in above
15	D008	11,000	P	S01	
16	F001				Included in above
17	F002				Included in above
18	F003				Included in above
19	D008	166,500	P	S01	
20	F002				Included in above
21	D009	11,000	P	S01	
22	D010	10,000	P	S01	
23	D010	19,500	P	S01	
24	D018				Included in above
25	F002				Included in above
26	D010	13,000	P	S01	
27	D035				Included in above
28	F001				Included in above
29	D010	17,500	P	S01	
30	F002				Included in above
31	D010	37,000	P	S01	
32	F002				Included in above
33	F005				Included in above

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GSA No. 0246-EPA-OT

EPA I.D. Number (enter from page 1): O H 6 8 9 0 0 0 8 9 7 6

3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D011	16,500	P	S01	
2	D011	10,500	P	S01	
3	F001				Included in above
4	F005				Included in above
5	D012	25,000	P	S01	
6	D013				Included in above
7	D014				Included in above
8	D015				Included in above
9	D016				Included in above
10	D017				Included in above
11	D016	10,500	P	S01	
12	F002				Included in above
13	D018	52,000	P	S01	
14	D018	42,500	P	S01	
15	F001				Included in above
16	D018	15,000	P	S01	
17	F001				Included in above
18	F002				Included in above
19	D018	15,000	P	S01	
20	F002				Included in above
21	D018	10,000	P	S01	
22	F005				Included in above
23	D019	12,500	P	S01	
24	D019	10,500	P	S01	
25	D022				Included in above
26	D028				Included in above
27	D029				Included in above
28	D039				Included in above
29	F001				Included in above
30	F005				Included in above
31	D019	15,000	P	S01	
32	F001				Included in above
33	D020	10,000	P	S01	

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GSA No. 0246-EPA-OT

EPA I.D. Number (enter from page 1): O H 6 8 9 0 0 0 8 9 7 6

3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D019	10,500	P	S01	
2	D022				Included in above
3	D039				Included in above
4	F002				Included in above
5	D019	21,600	P	S01	
6	D029				Included in above
7	D039				Included in above
8	D040				Included in above
9	F001				Included in above
10	D019	10,000	P	S01	
11	U211				Included in above
12	D021	10,000	P	S01	
13	D021	700,000	P	S01	
14	F002				Included in above
15	D022	10,000	P	S01	
16	D023	10,000	P	S01	
17	D024				Included in above
18	D025				Included in above
19	D026				Included in above
20	D026	10,000	P	S01	
21	F004				Included in above
22	D027	10,000	P	S01	
23	D028	15,000	P	S01	
24	D029	10,000	P	S01	
25	D029	200,000	P	S01	
26	D039				Included in above
27	D040				Included in above
28	F001				Included in above
29	D029	11,500	P	S01	
30	D039				Included in above
31	F001				Included in above
32	D030	10,000	P	S01	
33	D031	10,000	P	S01	

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

EPA I.D. Number (enter from page 1): 0 H 6 8 9 0 0 0 8 9 7 6

3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D 0 2 9	10,500	P	S 0 1	
2	D 0 3 9				Included in above
3	F 0 0 2				Included in above
4	D 0 3 2	10,000	P	S 0 1	
5	D 0 3 3	10,000	P	S 0 1	
6	D 0 3 4	10,000	P	S 0 1	
7	D 0 3 5	10,000	P	S 0 1	
8	D 0 3 5	10,000	P	S 0 1	
9	F 0 0 5				Included in above
10	D 0 3 6	10,000	P	S 0 1	
11	D 0 3 7	10,000	P	S 0 1	
12	D 0 3 8	10,000	P	S 0 1	
13	D 0 3 9	20,000	P	S 0 1	
14	D 0 3 9	18,500	P	S 0 1	
15	D 0 4 0				Included in above
16	F 0 0 1				Included in above
17	D 0 3 9	38,000	P	S 0 1	
18	D 0 4 0				Included in above
19	F 0 0 2				Included in above
20	D 0 3 9	700,000	P	S 0 1	
21	F 0 0 2				Included in above
22	D 0 3 9	10,500	P	S 0 1	
23	F 0 0 3				Included in above
24	F 0 0 5				Included in above
25	D 0 4 0	10,000	P	S 0 1	
26	D 0 4 0	25,000	P	S 0 1	
27	F 0 0 1				Included in above
28	D 0 4 1	10,000	P	S 0 1	
29	D 0 4 2	10,000	P	S 0 1	
30	D 0 4 3	10,000	P	S 0 1	
31	F 0 0 1	210,000	P	S 0 1	
32	F 0 0 1	10,500	P	S 0 1	
33	F 0 0 2				Included in above

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EPA I.D. Number (enter from page 1): 0 H 6 8 9 0 0 0 8 9 7 6

3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	F001	12,000	P	S01	
2	F002				Included in above
3	F003				Included in above
4	F001	13,500	P	S01	
5	F003				Included in above
6	F001	10,000	P	S01	
7	F005				Included in above
8	F001	50,000	P	S01	
9	F019				Included in above
10	F002	1,748,700	P	S01	
11	F002	14,000	P	S01	
12	F003				Included in above
13	F002	10,500	P	S01	
14	F003				Included in above
15	F005				Included in above
16	F002	20,000	P	S01	
17	F005				Included in above
18	F003	10,500	P	S01	
19	F005	10,000	P	S01	
20	F032	10,000	P	S01	
21	F039	10,000	P	S01	
22	P015	10,000	P	S01	
23	P028	10,000	P	S01	
24	P051	10,000	P	S01	
25	P059	10,000	P	S01	
26	P075	10,000	P	S01	
27	P098	10,000	P	S01	
28	P119	10,000	P	S01	
29	P120	10,000	P	S01	
30	P123	10,000	P	S01	
31	U019	10,000	P	S01	
32	U036	10,000	P	S01	
33	U037	10,000	P	S01	

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

EPA I.D. Number (enter from page 1): 0 H 6 8 9 0 0 0 8 9 7 6

3196

Secondary ID Number (enter from page 1):

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	U043	10,000	P	S01	
2	U044	12,000	P	S01	
3	U052	10,000	P	S01	
4	U078	10,000	P	S01	
5	U079	10,000	P	S01	
6	U080	11,000	P	S01	
7	U080	10,000	P	S01	
8	F002				Included in above
9	U101	10,000	P	S01	
10	U105	10,000	P	S01	
11	U107	10,000	P	S01	
12	U127	10,000	P	S01	
13	U128	10,000	P	S01	
14	U129	10,000	P	S01	
15	U131	10,000	P	S01	
16	U151	10,500	P	S01	
17	U159	11,000	P	S01	
18	U169	10,000	P	S01	
19	U188	10,000	P	S01	
20	U196	10,000	P	S01	
21	U210	14,500	P	S01	
22	U211	15,000	P	S01	
23	U220	12,000	P	S01	
24	U226	10,000	P	S01	
25	F002				Included in above
26	U227	10,000	P	S01	
27	U228	2,374,000	P	S01	
28	U240	10,000	P	S01	
29	U247	10,000	P	S01	
30	D001	39,000	P	S01	
31					
32					
33					

25

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Form Approved. OMB No. 2050-0034 Expires 12-31-91
GSA No. 0248-EPA-OT

EPA I.D. Number *(enter from page 1)*												3196	Secondary ID Number *(enter from page 1)*
O	H	6	8	9	0	0	0	8	9	7	6		

XIV. Description of Hazardous Waste *(continued)*

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

Line Number	Additional Process Codes (enter)
	N A

XV. Map

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

XVI. Facility Drawing

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

XVII. Photographs

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

XVIII. Certification(s)

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

Owner Signature	Date Signed
Name and Official Title *(type or print)*	
Operator Signature	Date Signed
Name and Official Title *(type or print)*	

XIX. Comments

26

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

ITEM XV: MAPS

There are fifty-two (52) RCRA Hazardous Waste Management Units (HWMUs) at the Fernald Environmental Management Project (FEMP). The HWMU #2, Parts Cleaner in Welding Shop (Bldg 12), has been removed as requested in DOE letter # 997-92, dated 2-28-92. The HWMU's are identified on Figure A-1. The type of HWMU, process code, status, and dimensions are provided on Table A-1.

Drinking Wells

The only drinking water wells within one-quarter mile of the production area are those that supply the FEMP. They are shown on Figure A-1 as Production Wells #1 through #3. The drinking water wells within one-quarter mile of the property boundaries are shown on Figure A-2.

Outfall Locations

Outfall No.	Latitude (Deg Min Sec)	Longitude (Deg Min Sec)	Receiving Water
001	39 17 53	84 40 48	Great Miami River
002	39 17 36	84 41 21	Storm Sewer Outfall Ditch to Paddy's Run

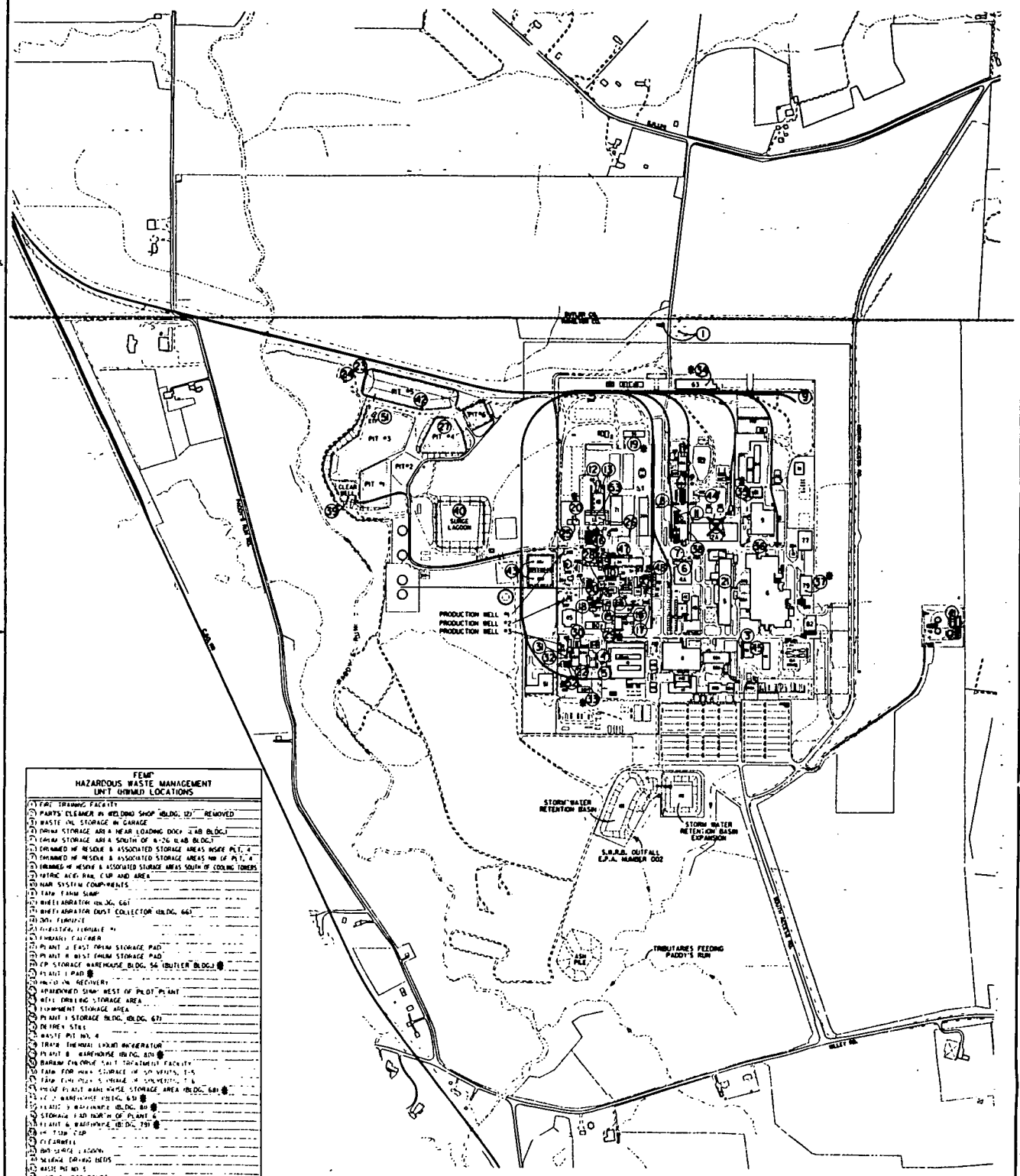
XVI: FACILITY DRAWING

The Fernald Environmental Management Project is located on a 1,050 acre Federal Reservation in Hamilton and Butler Counties, Ohio. It is approximately 20 miles northwest of downtown Cincinnati, midway between Ross and Fernald, Ohio.

Due to the size of the FEMP, two maps have been provided to indicate the Hazardous Waste Management Units and their boundaries. Figure A-1 shows the location of each HWMU and Figure A-2 provides a general overview of the topographic region.

Figure A-1

3196



FEMP
HAZARDOUS WASTE MANAGEMENT
UNIT (HWMU) LOCATIONS

1. FIRE TRAINING FACILITY
2. PARTS CLEANER IN WELDING SHOP (BLDG. 12) REMOVED
3. WASTE OIL STORAGE IN GARAGE
4. DRUM STORAGE AREA NEAR LOADING DOCK (LAB BLDG.)
5. DRUM STORAGE AREA SOUTH OF 4-26 (LAB BLDG.)
6. DRUMMED HF RESIDUE & ASSOCIATED STORAGE AREAS INSIDE PIT 4
7. DRUMMED HF RESIDUE & ASSOCIATED STORAGE AREAS NW OF PIT 4
8. DRUMMED HF RESIDUE & ASSOCIATED STORAGE AREAS SOUTH OF COOLING TOWERS
9. NITRIC ACID RAIL CAR AND AREA
10. MAIN SYSTEM COMPONENTS
11. TANK FARM SUMP
12. WHEELABRATOR (BLDG. 66)
13. WHEELABRATOR DUST COLLECTOR (BLDG. 66)
14. DRY FURNITURE
15. INDUSTRIAL WASTE #1
16. THERMAL FAILURE
17. PLANT 4 EAST DRUM STORAGE PAD
18. PLANT 4 WEST DRUM STORAGE PAD
19. CP STORAGE WAREHOUSE BLDG. 56 (BUTLER BLDG.)
20. PLANT 1 PAD
21. HF-TO-UN RECEIVERS
22. ABANDONED SUMP WEST OF PILOT PLANT
23. REFIL DRILLING STORAGE AREA
24. EQUIPMENT STORAGE AREA
25. PLANT 1 STORAGE BLDG. (BLDG. 67)
26. DEBRIS STEEL
27. WASTE PIT NO. 4
28. TRAP THERMAL LIQUID INCINERATOR
29. PLANT 8 WAREHOUSE (BLDG. 80)
30. BARIUM CHLORIDE SALT TREATMENT FACILITY
31. TANK FOR HWM STORAGE OF SOLVENTS, 1-5
32. TANK FOR HWM STORAGE OF SOLVENTS, 1-6
33. PILOT PLANT WAREHOUSE STORAGE AREA (BLDG. 68)
34. [illegible] WAREHOUSE (BLDG. 63)
35. PLANT 5 WAREHOUSE (BLDG. 80)
36. STORAGE PAD NORTH OF PLANT 6
37. PLANT 6 WAREHOUSE (BLDG. 79)
38. [illegible] TANK CAP
39. FLOCCULATE
40. BIO SURGE LAGOON
41. SEDIMENT DRYING BEDS
42. WASTE PIT NO. 5
43. FLUME SEDIMENT PONDS
44. COAL PILE RUNOFF BASIN
45. PIT #5
46. URANYL NITRATE TANKS (NFS STORAGE AREA)
47. URANYL NITRATE TANKS (NORTH OF PLANT 2)
48. URANYL NITRATE TANKS (SOUTHEAST OF PLANT 2)
49. URANYL NITRATE TANKS (DIGESTION AREA)
50. URANYL NITRATE TANKS (RAFFINATE BLDG.)
51. EXPERIMENTAL TREATMENT FACILITY (ETF)
52. NORTH & SOUTH SOLVENT TANKS (PILOT PLANT)
53. SAFE GEOMETRY DIGESTION SUMP

● - WHERE THE FEMP IS SEEKING TO PERMIT

29

NO.	REVISIONS	DATE	DWN.	CHK.	APPD.	REF. DWG. NO.
1	REVISED PER RES. MGM	1/93				

NOTE: REMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

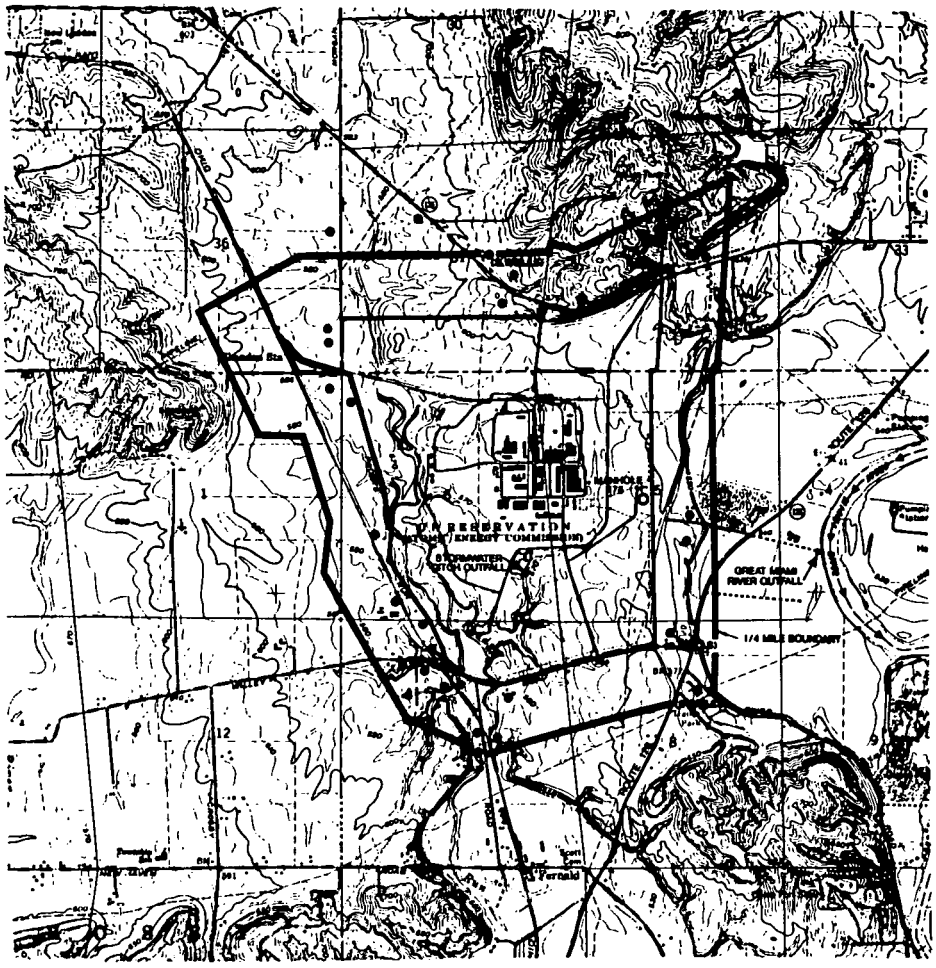
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

SITE PLAN — RCRA PART A

FIGURE A-1
FACILITY LOCATION MAP
SCALE: 1" = 300'

75X-5500-X-00171 | 1

Figure A-2



RCRA PART A
TOPOGRAPHIC MAP

LEGEND:

- RESIDENTIAL WATER WELLS
- NPDES DISCHARGE POINT
- RIVER FLOW
- PROPERTY BOUNDARY
- INTERMITTENT STREAM
- MANHOLE

NOTE:

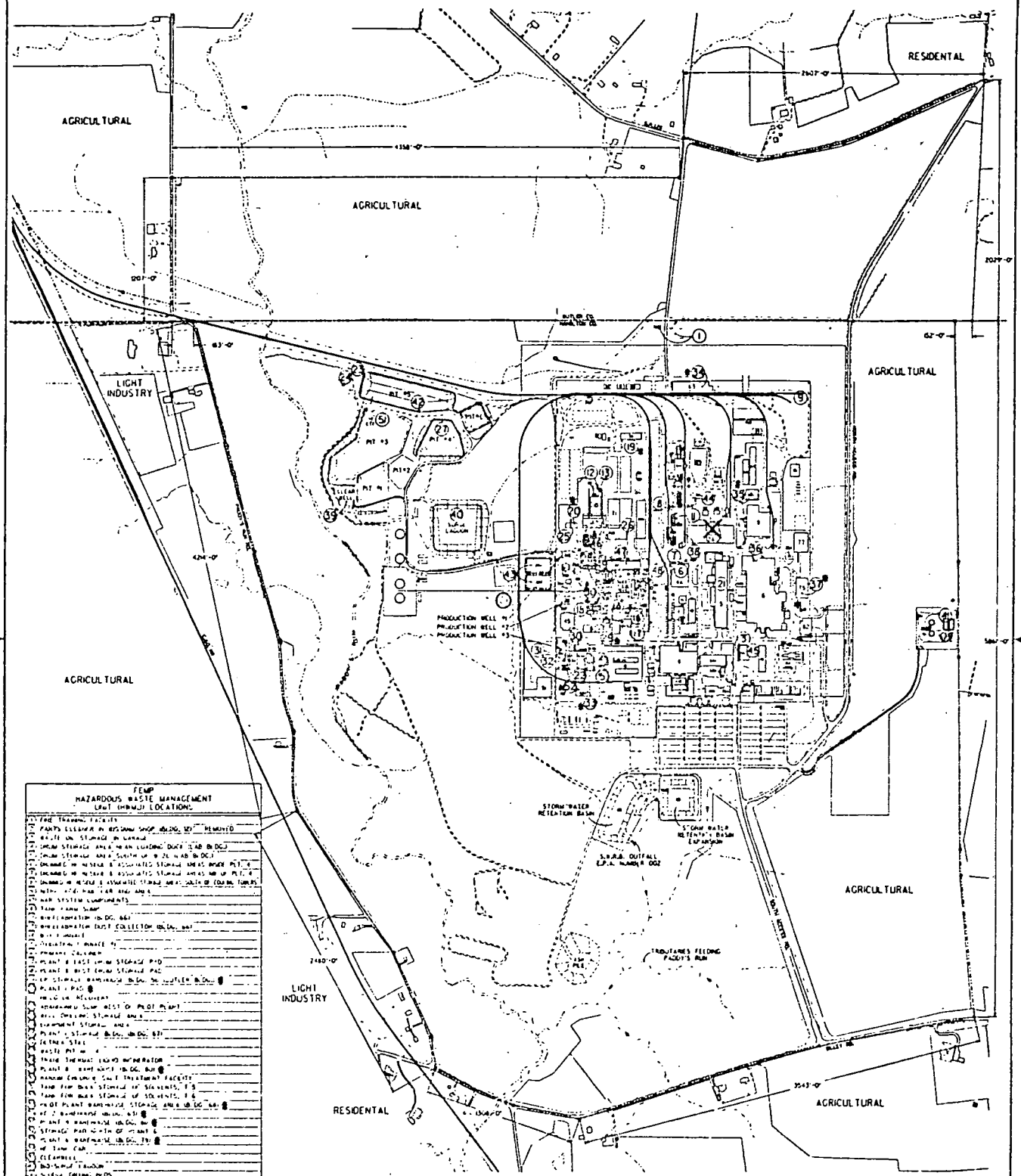
MAP SOURCE - USGS SHANDON QUADRANGLE, REV. 1974

NO.	REVISIONS	DATE	DRN. BY	APPD.	REF. DWG. NO.

NOTE: UNICO C.A.D. DRAWING, NOT TO BE REVISED MANUALLY

WESTINGHOUSE NAT'L. CO. OF OHIO
FERNALD, OHIO
FEED MATERIALS PRODUCTION CENTER
U.S. DEPARTMENT OF ENERGY

SITE PLAN — RCRA PART A
SCALE: 1" = 1000'
30
76X-6600-X-00172 0


AGRICULTURAL
AGRICULTURAL
RESIDENTAL
AGRICULTURAL
LIGHT INDUSTRY
AGRICULTURAL
AGRICULTURAL
LIGHT INDUSTRY
RESIDENTAL
AGRICULTURAL
PRODUCTION WELL #7
PRODUCTION WELL #2
PRODUCTION WELL #3
STORM WATER RETENTION BASIN
STORM WATER RETENTION BASIN EXPANSION
S.W.R.B. OUTFALL
TRIBUTARIES FEEDING PADDY'S RUN
FEMP
HAZARDOUS WASTE MANAGEMENT
UNIT (WMU) LOCATIONS
FIRE TRAINING FACILITY
PARTS CLEANER IN BUSBAR SHOP BLDG. 101 REMOVED
WASTE OIL STORAGE IN GARAGE
DRUM STORAGE AREA NEAR LOADING DOCK (LAB BLDG)
DRUM STORAGE AREA SOUTH OF B 26 (LAB BLDG)
DRUMMED HAZARDOUS & ASSOCIATED STORAGE AREAS NORTH OF PLT. 6
DRUMMED HAZARDOUS & ASSOCIATED STORAGE AREAS NW OF PLT. 4
DRUMMED HAZARDOUS & ASSOCIATED STORAGE AREAS SOUTH OF COOLING TOWERS
WATER TREATMENT PLANT AND AREA
MAP SYSTEM COMPONENTS
TANK FARM SUMP
BIOREMEDIATION (BLDG. 66)
BIOREMEDIATION DUST COLLECTOR (BLDG. 66)
BIO-P PONDS
TREATMENT PONDS #1
PRIMARY CLARIFIER
PLANT 8 WASTE DRUM STORAGE PAD
PLANT 8 WASTE DRUM STORAGE PAD
UP STORAGE WAREHOUSE (BLDG. 36 SOUTHEAST BLDG.)
PLANT 1 PAD
PRODUCTION RECOVERY
WAREHOUSE SUMP WEST OF PILOT PLANT
DRUM ONGOING SALT TREATMENT FACILITY
EQUIPMENT STORAGE AREA
PLANT 1 STORAGE (BLDG. 18 DG. 83)
SCRAP STEEL
WASTE PILE #
TRUE THERMAL (LOW) INCINERATOR
PLANT 8 WAREHOUSE (BLDG. 8)
RANDOM ONGOING SALT TREATMENT FACILITY
TANK FARM BULK STORAGE OF SOLVENTS, T-5
TANK FARM BULK STORAGE OF SOLVENTS, T-6
PILOT PLANT WAREHOUSE STORAGE AREA (BLDG. 6)
WAREHOUSE (BLDG. 63)
PLANT 4 WAREHOUSE (BLDG. 8)
STORAGE PAD NORTH OF PLANT 6
PLANT 6 WAREHOUSE (BLDG. 70)
OF TANK CAR
CLEARWELL
BIOSURVEY TRAILER
SCIENCE DRYING BEDS
WASTE PILE NO. 5
EAST SLUDGE PONDS
COAL PILE RUNOFF BASIN
WPP #5
URANYL NITRATE TANKS (BUS) STORAGE AREA
URANYL NITRATE TANKS (NORTH OF PLANT 2)
URANYL NITRATE TANKS (SOUTHEAST OF PLANT 2)
URANYL NITRATE TANKS (CONSTRUCTION AREA)
URANYL NITRATE TANKS (WAREHOUSE BLDG.)
EXPERIMENTAL TREATMENT FACILITY (ETF)
NORTH & SOUTH SOLVENT TANKS (PLANT 2)
= INDICATES THE FEMP IS SEEKING TO PERMIT
31
NOTE: REVISED FROM CAD DRAWING NOT TO BE REVISED MANUALLY
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO OF OHIO
FERNALD, OHIO
FERNALD
ENVIRONMENTAL MANAGEMENT PROJECT
US DEPARTMENT OF ENERGY
SITE PLAN
RCRA PART A
FIGURE A-1
FACILITY LOCATION MAP
SCALE: 1" = 300'
75X-5500-X-00171
1

ITEM XVII: PHOTOGRAPHS

Photographs of the fifty-two (52) RCRA Hazardous Waste Management Units are provided as Attachment #2.

ITEM XVIII. CERTIFICATION(S) (Page 1)

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.

U.S. Department of Energy
Owner and Operator

G W Westerbeck

Gerald W. Westerbeck, Manager
Fernald Site Office

6/28/91

Date signed

The Department of Energy has signed this certification as the owner and operator of the subject facility and the contractor has signed as co-operator of the facility. The Department has determined (U.S. Department of Energy, Secretary of Energy Notice SEN-22-90, dated 5/8/90) that dual signatures best reflect the actual apportionment of responsibility under which the Department is responsible for policy, programmatic, funding and scheduling decisions, as well as general oversight; and the contractor is responsible for certain day-to-day activities which are performed by contractor employees and subcontractors, (in accordance with general directions given by the Department as part of its general oversight responsibility), such as waste analyses and handling, monitoring, record keeping, reporting, and contingency planning. Westinghouse Materials Company of Ohio (WMCO) executes this application as co-operator with the following specific exception to the statements in the application: It is WMCO's position that the following surface impoundments listed in Section XV did not manage a listed hazardous waste because of the application of the wastewater mixture rule exemption, and, as such, are exempt from hazardous waste management unit requirements: waste pit No. 5, the clearwell, the bio-surge lagoon, the sludge drying beds, the lime sludge ponds and the coal pile runoff basin. WMCO is executing this Part A application as co-operator in the spirit of cooperation with DOE which has overall responsibility for the FMPC. But in doing so, WMCO does not agree that the listed surface impoundments are hazardous waste management units or that they and the listed wastewater streams are subject to hazardous waste statutes or regulations and WMCO, in executing this Part A, expressly reserves all rights with respect thereto. 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.

Westinghouse Materials Company
of Ohio, Co-operator

W. H. Britton, President
Westinghouse Materials Company
of Ohio

6/28/91
Date signed

Table A-1

Table A-1

NIT O.	FEMP HAZARDOUS WASTE MANAGEMENT UNITS	Type of Unit (1)	Process Code (2)	Status (3)	Dimensions (4)
1	Fire Training Facility	D	D80	2	105' x 134'
2	~~Parts Cleaner in Welding Shop (Bldg 12)~~ (Removed)	~~S~~	~~S01~~	~~2~~	~~33" x 71" x 5'9"~~
3	Waste Oil Storage In Garage	S	S01	2	10' x 10'
4	Drum Storage Area Near Loading Dock (Lab Bldg)	S	S01	2	40' x 76'
5	Drum Storage Area South of W-26 (Lab Bldg)	S	S01	2	31'8" x 41'
6	Drummed HF Residue/Associated Storage Areas Inside Plant 4	S	S01	2	4' x 17'
7	Drummed HF Residue/Associated Storage Areas NW of Plant 4	S	S01	2	25' x 30'
8	Drummed HF Residue/Associated Storage Areas S. of Cooling Towers	S	S01	2	10' x 32'
9	Nitric Acid Rail Car and Area	S	S01	2	10' x 40' x 15'
10	NAR System Components	S	S02	2	13,262 sq ft
11	Tank Farm Sump	T	T02	3	165' x 135'
12	Wheelabrator (Bldg 66)	S	S01	2	24' x 20'
13	Wheelabrator Dust Collector (Bldg 66)	S	S01	2	30' x 17'
14	Box Furnace	T	T03	2	14' x 18'
15	Oxidation Furnace #1	T	T03	2	85 sq ft
16	Primary Calciner	T	T03	2	13.5 ft diam x 40' high
17	Plant 8 East Drum Storage Pad	S	S01	2	18,330 sq ft
18	Plant 8 West Drum Storage Pad	S	S01	2	12,304 sq ft
19	CP Storage Warehouse - Bldg 56 (Butler Bldg)	S	S01	1	50' x 180'
20	Plant 1 Pad	S	S01	1	480,000 sq ft
21	Hilco Oil Recovery	S	S01	2	272 sq ft
22	Abandoned Sump West of Pilot Plant	S	S02	2	2' diam x 14' deep
23	Well Drilling Storage Area	S	S01	2	29' x 56'
24	Equipment Storage Area	S	S01	2	45' x 145'
25	Plant 1 Storage Bldg (Bldg 67)	S	S01	2	165' x 190'
26	Detrex Still	S	S02	2	32" x 76" x 7'6"

1) T= Treatment S= Storage D= Disposal
2) Process Codes provided in Item XII of Hazardous Waste Permit Application Part A
3) 1= HWMU to be permitted
   2= HWMU to be closed
   3= HWMU to be operated, not permitted, Closure to be integrated with remedial actions
   4= HWMU not to be operated, Closure to be integrated with remedial actions
   5= HWMU closed
4) Dimensions: width x length x height - unless otherwise indicated
5) Waste Pit No. 4 is irregularly shaped; dimensions provided are for each side

Table A-1 (cont.)

NIT O.	FEMP HAZARDOUS WASTE MANAGEMENT UNITS	Type of Unit (1)	Process Code (2)	Status (3)	Dimensions (4)
27	Waste Pit No. 4	D	D80	5	170' x 320' x 400' x 320' (5)
28	Trane Thermal Liquid Incinerator	T	T03	2	50' x 52'
29	Plant 8 Warehouse (Bldg 80)	S	S01	1	60' x 170'
30	Barium Chloride Salt Treatment Facility	T	T04	5	50' x 75'
31	Tank for Bulk Storage of Solvents, T-5	S	S02	2	10' diameter
32	Tank for Bulk Storage of Solvents, T-6	S	S02	2	10' diameter
33	Pilot Plant Warehouse (Bldg 68)	S	S01	1	7' x 62'
34	KC-2 Warehouse (Bldg 63)	S	S01	1	346'2-3/8" x 82'
35	Plant 9 Warehouse (Bldg 81)	S	S01	1	80' x 100'
36	Storage Pad North of Plant 6	S	S01	2	8' x 40'
37	Plant 6 Warehouse (Bldg 79)	S	S01	1	100' x 170'
38	HF Tank Car	S	S01	2	10' x 36' x 15'
39	Clearwell	T	T02	3	30,600 sq ft
40	Bio-surge Lagoon	T	T02	3	160,000 sq ft
41	Sludge Drying Beds	T	T02	3	79' x 92'
42	Waste Pit No. 5	T	T02	4	184,000 sq ft
43	Lime Sludge Ponds	S	S04	3	40,000 sq ft
44	Coal Pile Runoff Basin	S	S04	3	5,778 sq ft
45	UST #5	S	S02	2	2' 6" diameter
46	Uranyl Nitrate Tanks (NFS Storage Area)	S	S02	2	61'7" x 53'9"
47	Uranyl Nitrate Tanks (North of Plant 2)	S	S02	2	63'6" x 40'6"
48	Uranyl Nitrate Tanks (Southeast of Plant 2)	S	S02	2	54'7" x 45'4"
49	Uranyl Nitrate Tanks (Digestion Area (2 locations))	S	S02	2	127' x 20' (each location)
50	Uranyl Nitrate Tanks (Raffinate Building (2 locations))	S	S02	2	14' x 50' : 15' x 30'
51	Experimental Treatment Facility (ETF)	T	T04	4	20' x 48'
52	North and South Solvent Tanks (Pilot Plant)	S	S02	2	6'6" diameter each
53	Safe Geometry Digestion Sump (Plant 1)	S	S02	2	8" diameter x 12" deep

1) T= Treatment S= Storage D= Disposal
2) Process Codes provided in Item XII of Hazardous Waste Permit Application Part A
3) 1= HWMU to be permitted
   2= HWMU to be closed
   3= HWMU to be operated, not permitted, Closure to be integrated with remedial actions
   4= HWMU not to be operated, Closure to be integrated with remedial actions
   5= HWMU closed
4) Dimensions: width x length x height - unless otherwise indicated
5) Waste Pit No. 4 is irregularly shaped; dimensions provided are for each side

Attachment 1

ITEM X: OTHER ENVIRONMENTAL PERMITS

Pursuant to OAC 3745-50-41, the following is a list of all permits or construction approvals received or applied for under the specified programs:

3196

1) **Hazardous Waste Management Program under RCRA**

Part A Permit Applications submitted to OEPA:

Original Submittal	07/06/84
Revision 1	05/15/85
Revision 2	03/19/86
Revision 3	04/28/86
Revision 4	03/27/87
Revision 5	11/02/87
Revision 6	02/04/88
Revision 7	07/28/88
Revision 8	03/22/89
Revision 9	09/22/89
Revision 10	09/25/90
Revision 11	06/28/91
Revision FEMP 0	10/31/91
Revision FEMP 1	03/31/92

Closure Plans (CP) previously submitted:

a. (HWMUs the FEMP is not seeking to permit):
Waste Pit No. 4
Barium Chloride Salt Treatment Facility
Storage Pad North of Plant 6
Trane Thermal Liquid Incinerator
Tank for Bulk Storage of Solvents, T-5 & T-6
UST #5
Waste Pit No. 5
Equipment Storage Area

b. Waste Pit No. 4 Post Closure Permit

c. Closure Plans for HWMUs identified during HWMU review will be completed based on the schedules submitted to OEPA in accordance with the Consent Decree and its Amendments.

2) **Underground Injection Control Program (UIC) under SWDA**

None

3) **National Pollutant Discharge Eliminating System (NPDES) Program under CWA**

1IOOO004*CD (former NPDES permit no. OHOOO004*CD)

4) **Prevention of Significant Deterioration (PSD) Program under the Clean Air Act**

None

5) Nonattainment Program under the Clean Air Act

None

6) National Emission Standards for Hazardous Pollutants (NESHAPS) preconstruction approval under the Clean Air Act

NESHAP approval of construction received from EPA for the following:

1. UF_6 to UF_4 Reduction Facility #2
2. Thorium Repackaging

NESHAP approval of modification received for the following:

1. Plasma Spray Crucible Coating Station
2. Crucible Grit Blaster
3. West Wagner Cold Saw
4. Flat Ingot Model 4 Milling Machine
5. Flat Ingot Model 4A Milling Machine
6. Flat Ingot Model 4B Milling Machine
7. Flat Ingot 425-20 Milling Machine
8. Flat Ingot No. 6 Milling Machine
9. Flat Ingot K&T A Milling Machine
10. Flat Ingot K&T B Milling Machine
11. Plant 6 Sump and Waste Treatment System
12. D&D Facility
13. Ingot Cooling Booth
14. Plant 8 Sump
15. Plant 8 Crusher
16. Plant 1 Material Handling

7) Ocean Dumping permits under the Marine Protection Research and Sanctuaries Act

None

8) Dredge or Fill permits under section 404 of the CWA

None

9) Other relevant environmental permits, including State Permits

State of Ohio Hazardous Waste Permit 05-31-0681

10) Wastewater Treatment Facility, Ohio EPA Permits-To-Install (PTI)

	Project	PTI No.
1.	Stormwater/Spill Retention Facility - FMPC	05-1043
2.	Process Wastewater Biodenitrification	05-3672
3.	Biodenitrification Surge Lagoon Facility - FMPC	05-2872
4.	Plant 6 Sump Reconstruction	05-2405
5.	Tank Farm Padwater Collection & Neutralization Sump	05-2873
6.	General Sump/Lime Handling System	05-3368
7.	Modification Plant 8 Sump	05-3518
8.	Decontamination and Decommissioning (D&D) Facility	05-3390
9.	Biodenitrification Effluent Treatment System	05-3879
10.	Coal Pile Runoff Collection Facility	05-4172
11.	Manhole 34 Spill Control	05-5127

11) Air Permit Status Source Report

See attached lists: FEMP Air Permit Report
FEMP Sources Submitted for Air Permits

Fernald Environmental Management Project
Environmental Compliance
Air Permit Report for Ohio EPA Premise No. 1431110128
Listed by Ohio EPA Permit Number

3196

Permit Number	Equipment Description
B001	100 MMBTU/HR COAL-FIRED BOILER:MULTICLONE-ESP
B002	RILEY MODIFIED, GAS-FIRED BOILER
B003	100 MMBTU/HR COAL-FIRED BOILER:MULTICLONE-ESP
K001	DRUM COATING LINE
P006	AMMONIA STRIPPING PROCESS
P008	URANIUM INGOT COLD SAWS W/CARTRIDGE & HEPA FILTERS
P011	WEST CRUCIBLE BURNOUT STATION: FABRIC FILTER
P012	NORTH DUOMATIC LATHE W/FABRIC FILTER
P013	MACHINE LATHES W/ FABRIC FILTER
P020	SEP. BOOTH, 2 REMELT FURNACES, BURNOUT, MOLD CLEAN
P022	MISCELLANEOUS MACHINING OPERATIONS
P032	FINISH CORE MACHINING - PLANT 6 W/FABRIC FILTER
P033	EAST SIDE JOLTERS, 8-F, PLANT 5: FABRIC FILTER
P038	SLAG CRUSHING & PACKAGING STATION - PLANT 5
P039	SLAG CRUSHING & PACKAGING STATION - PLANT 5
P040	5-022 THRU 5-033: CASTING FURNACES NO. 1 - NO
P054	MOLD RECONDITIONING, SEPERATION, AND COLD SAW LINE
P056	WEST SIDE JOLTERS, H-L, PLANT 5
P061	NO. 1 "F" MACHINE:DUST COLLECTOR G5-251
P062	NO. 3 "F" MACHINE & CAPPING STATION (EAST)
P065	CRUCIBLE BURNOUT & SEPARATION BOOTH: FABRIC FILTER
P067	CASTING FURNACES #15 THRU #28: FABRIC FILTER
P082	FLUID BED REACTOR AND TALCUM REACTOR BANK 9
P087	PLANT 4-PACKAGING STATION: FABRIC FILTER
P088	PLANT 4-PACKAGING STATION #1: FABRIC FILTER
P089	PLANT 4-PACKAGING STATION #2: FABRIC FILTER
P090	PLANT 4-PACKAGING STATION #3: FABRIC FILTER
P091	OVERSIZE SLAG MILLING
P094	PLANT 5-EAST BREAKOUT STATION: FABRIC FILTER
P095	PLANT 5-WEST BREAKOUT STATION: FABRIC FILTER
P101	UNDERSIZED SLAG MILLING
P108	SLAG BIN NO.'S 250 and 251
P110	PLANT 4-DRUMING STATION: FABRIC FILTER
P111	PLANT 4-DRUM DUMPER: FABRIC FILTER
P112	PLANT 4-REJECT GREEN SALT:FABRIC FILTER
P113	PLANT 2/3-SLAG LEACH DIGESTION:NAR TOWER & VENTURI
P116	PLANT 2/3-SLAG LEACH DIGESTION TANK D1-4: NAR TOWER
P119	PLANT 2/3-STS PROCESSING TANK D1-7: NAR TOWER
P121	PLANT 2/3 NEUT, OF SOLVENT F1-502:TANK VENT ONLY
P122	SLAG LEACH DUMPING STATION W/FABRIC FILTER
P129	PLANT 2/3-EXTRACTION SETTLER (TANK Y-7)
P152	DENITRATION POTS W/VENTURI SCRUBBER & NAR TOWER
P160	PLANT 2/3 DECANTER F2E-103
P163	PINCUTTER AND MILL W/HEPA FILTER
P165	SAFE GEOMETRY FEED DUMPING STATION 2/HEPA FILTER
P166	PLANT 1-SAFE GEOMETRY DIGESTOR D105
P167	TITAN MILL DUMPING STATION W/FABRIC FILTER

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Permit Number	Equipment Description
P168	TITAN MILL W/FABRIC FILTER
P169	PLANT 5-GRAPHITE MACHINING-O.D. TURNING
P170	PLANT 5-GRAPHITE MACHINING-O.D. TURNING
P171	GRAPHITE MACHINING-CUTTING
P172	GRAPHITE MACHINING-HORIZONTAL
P173	REMELT FURNACE-PILOT PLANT
P174	CRUCIBLE GRIT BLASTER-PILOT PLANT
P175	MOLD CURING OVEN-PLANT 5
P177	TITAN MILL PACKAGING STATION W/FABRIC FILTER
P178	EAST PACKAGING STATION - PLANT
P179	SHOT BLASTER - PLANT 1
P180	ROTARY KILN - PLANT 8
P182	PRIMARY CALCINER- PLANT 8
P183	OXIDATION FURNACE #1 - PLANT 8
P184	OXIDATION FURNACE #2 - PLANT 8
P185	BOX FURNACE W/VENTURI SCRUBBER
P186	ROTEX SCREENING - PLANT 8
P189	A-3 COLUMN (D1-100) - PLANT 2/3
P190	A-4 COLUMN (D1-127) - PLANT 2/3
P194	C-2 COLUMN (D1-112) - PLANT 2/3
P197	NORTH OLIVER FILTER W/CAUSTIC SCRUBBER F1-323
P198	SOUTH OLIVER FILTER W/CAUSTIC SCRUBBER F1-322
P199	NEUTRALIZATION OF FILTER CAKE F1-313
P200	NEUTRALIZATION OF FILTER CAKE F1-318
P201	THICKENER TANK (PROCESS) F2E-602
P202	NORTH PACKAGING STATION:PLANT 2/3
P203	SOUTH PACKAGING STATION:PLANT 2/3
P204	DRUM WASHER - PLANT 8
P229	GRAPHITE BAND SAW & TOOL GRINDING W/FABRIC FILTER
P231	DRUM RECONDITIONING LINE W/HEPA FILTER
P233	PILOT PLANT PLASMA SPRAY PROCESS: FABRIC FILTER
P236	SLAG MILLING PROCESS W/CARTRIDGE AND HEPA FILTERS
P241	OIL TREATMENT TANK SYSTEM I
P242	OIL TREATMENT TANK SYSTEM II
P243	PRECIPITATION TANK SYSTEM I
P244	PRECIPITATION TANK SYSTEM II
P273	TEN GALLON DISTILLATION BASED SOLVENT RECOVERY
T001	500 GALLON NITRIC ACID STORAGE TANK
T002	PLANT 8 - CAUSTIC STORAGE TANK A
T003	PLANT 8 - CAUSTIC STORAGE TANK B
T004	CAUSTIC STORAGE TANK (F43-108)
T005	PLANT 2/3 - NITRIC ACID ST (F1-18)
T006	PLANT 2/3 - NITRIC ACID ST (F1-17)
T007	PLANT 2/3 - NITRIC ACID ST TK (F1-23)
T008	PLANT 2/3 - DIL NITRIC ST TK (F1-24)
T009	PLANT 2/3 - NITRIC ACID ST TK (F1-8)
T010	PLANT 2/3 - NITRIC ACID STOR (F2E-501)

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Permit Number	Equipment Description
T011	PLANT 2/3 - NITRIC ACID STOR (F2E-502)
T012	PLANT 2/3 - NITRIC ACID STOR (F3-2)
T013	PLANT 2/3 - NITRIC ACID STOR (F3-27)
T014	PLANT 2/3 - NITRIC ACID STOR (F3-12)
T015	PLANT 2/3 - NITRIC ACID STOR (F3-19)
T016	PLANT 2/3 - DIL NITRIC STOR (F3-22)
T017	PLANT 2/3 - DIL NITRIC STOR (F3-23)
T018	PLANT 2/3 - DIL NITRIC STOR (F3-24)
T019	PLANT 2/3 - DIL NITRIC STOR (F3-25)
T020	PLANT 2/3 - COND HOLD TK (F3E-7)
T021	3300 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T022	3300 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T023	3300 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T024	3300 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T025	23,500 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T026	23,500 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T027	2500 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T028	2500 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T029	25,265 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T030	25,265 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T031	25,265 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T032	25,265 GAL. FIXED ROOF URANYL NITRATE STORAGE TANK
T033	14,500 GAL FIXED ROOF SLOPWATER STORAGE TANK
T034	14,500 GAL. FIXED ROOF SLOPWATER STORAGE TANK
T035	PLANT 2/3 - SLOPWATER ST TK (D1-130)
T036	PLANT 2/3 - SLOPWATER ST TK (D1-129)
T039	PLANT 2/3 - URANYL NITR STOR TK(F2-608)
T040	PLANT 2/3 - URANYL NITR STOR TK(F2-607)
T041	PLANT 2/3 - URANYL NITR STOR TK(F2-606)
T042	PLANT 2/3 - URANYL NITR STOR TK(F2-605)
T044	PLANT 2/3 - SLOPWATER ST TK (D1-131)
T045	PLANT 2/3 - SLOPWATER STOR TK (F1-608)
T046	PLANT 2/3 - SLOPWATER STOR TK (F2E-601)
T047	PLANT 2/3 - S.L. STOR TK (F1-301)
T048	PLANT 2/3 - S.L. STOR TK (F1-302)
T049	PLANT 2/3 - S.L. STOR TK (F1-303)
T050	PLANT 2/3 - CAUSTIC STORAGE (D1-174)
T051	PLANT 2/3 - SOLVENT ST TK (F1-506)
T052	PLANT 2/3 - CARBONATE ST TK (F1-500)
T053	PLANT 2/3 - CARBONATE ST TK (F1-501)
T056	PLANT 2/3 - RAFF STOR TK (F1-403)
T057	PLANT 2/3 - RAFF STOR TK (F1-401)
T058	PLANT 2/3 - RAFF STOR TK (F1-402)
T059	PLANT 2/3 - RAFF STOR TK (F1-400)
T061	PLANT 2/3 - RAFF THICKNER SLUR (F1-612)
T062	2,250 GAL. FIXED ROOF DIRTY SOLVENT STORAGE TANK
T063	2,250 GAL FIXED ROOF DIRTY SOLVENT STORAGE TANK

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Permit Number	Equipment Description
T064	2,250 GAL. FIXED ROOF DIRTY SOLVENT STORAGE TANK
T065	2,600 GAL. FIXED ROOF DIRTY SOLVENT STORAGE TANK
T066	6,600 GAL. FIXED ROOF DIRTY SOLVENT STORAGE TANK
T067	PLANT 2/3 - SULFURIC ACID STORAGE
T068	25,600 GAL. FIXED ROOF DIRTY SOLVENT STORAGE TANK
T069	30,000 GAL. FIXED ROOF OK LIQUOR STORAGE TANK
T070	30,000 GAL. FIXED ROOF OK LIQUOR STORAGE TANK
T071	30,000 GAL. FIXED ROOF OK LIQUOR STORAGE TANK
T072	PLANT 2/3 - OK LIQ STOR TK (F3E-225)
T073	PLANT 2/3 - Filtrate stor tk (F1-308)
T074	PLANT 2/3 - Filtrate stor tk (F1-309)
T075	PLANT 2/3 - LIME STORAGE TANK F1-314
T077	PLANT 2/3 - Filtrate stor (SL) (F1-310)
T078	PLANT 2/3 - Condensate stor tk (F1-208)
T079	PLANT 2/3 - Filtrate stor (SL) (F1-311)
T080	PLANT 2/3 - Filtrate stor (SL) (F1-312)
T081	PLANT 2/3 - Filtrate stor (SL) (F1-317)
T082	PLANT 2/3 - Acid cond stor (F1-407)
T083	PLANT 2/3 - Nitricacid washstor(F1-613)
T085	PLANT 2/3 - Filtrate stor (SL)(F3E-408)
T087	PLANT 2/3 - Nitr acid stor tk (F1-201)
T088	PLANT 2/3 - Nitric acid stor tk
T092	Fresh acid receiving tank
T093	Plant 6 - Spent Acid Tank (06-B056A TNK)
T094	Plant 6 - Spent Acid Tank (06-F036-TNK)
T095	Plant 6 - Decantation Tank (06-F035-TNK)
T096	6,192 GAL. FIXED ROOF FILTRATE STORAGE TANK
T097	6,192 GAL. FIXED ROOF FILTRATE STORAGE TANK
T098	22,100 GAL. FIXED ROOF FILTRATE STORAGE TANK
T099	6,192 GAL. FIXED ROOF FILTRATE STORAGE TANK
T100	3,700 GAL. FIXED ROOF ACCOUNTABILITY TANK
T101	Filtrate stor (SL)(F3E-409)
T102	5800 GAL FIXED ROOF URANYL NITRATE STORAGE TANK EP
T103	5800 GAL FIXED ROOF URANYL NITRATE STORAGE TANK EP
T104	5800 GAL FIXED ROOF URANYL NITRATE STORAGE TANK EP
T106	7,833 GAL FIXED ROOF SUMP ACCUMULATOR STORAGE TANK
T107	7,833 GAL FIXED ROOF SUMP ACCUMULATOR STORAGE TANK
T109	Solvent storage tk (G2-4)
T111	K-65 SILO #1 STORAGE TANK-RADIUM CAKE
T112	K-65 SILO #2 STORAGE TANK-RADIUM CAKE
T113	RAILROAD ENGINE HOUSE DIESEL FUEL STORAGE TANK
T116	No.3 well Pumphouse strge tk
T117	MAINTANCE SHOP DIESEL FUEL STORAGE TANK
T118	WASTE PIT AREA DIESEL FUEL STORAGE TANK
T120	S. SPENT SOLVENT STORAGE TANK (CB), PILOT PLANT
T121	N. SPENT SOLVENT STORAGE TANK (AX), PILOT PLANT
T124	30,500 GAL. DILUTE HYDROFLORIC ACID STORAGE TANK

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Permit Number	Equipment Description
T125	30,500 GAL. DILUTE HYDROFLORIC ACID STORAGE TANK
T126	4,200 Sulfuric acid-93% STORAGE tank
T127	50,000 GAL. METHANOL STORAGE TANK W/I.F.R.
T128	36,000 GAL. CAP. AHF STORAGE TANK: HF SCRUBBER
T129	36,000 GAL. CAP. AHF STORAGE TANK: HF SCRUBBER
T130	36,000 GAL. CAP. AHF STORAGE TANK: HF SCRUBBER
T131	36,000 GAL. CAP. AHF STORAGE TANK: HF SCRUBBER
T141	INGOT PICKLING
T142	ACID WATER TANK
T143	1000 GALLON NITRIC ACID STORAGE TANK

Attachment 2

45

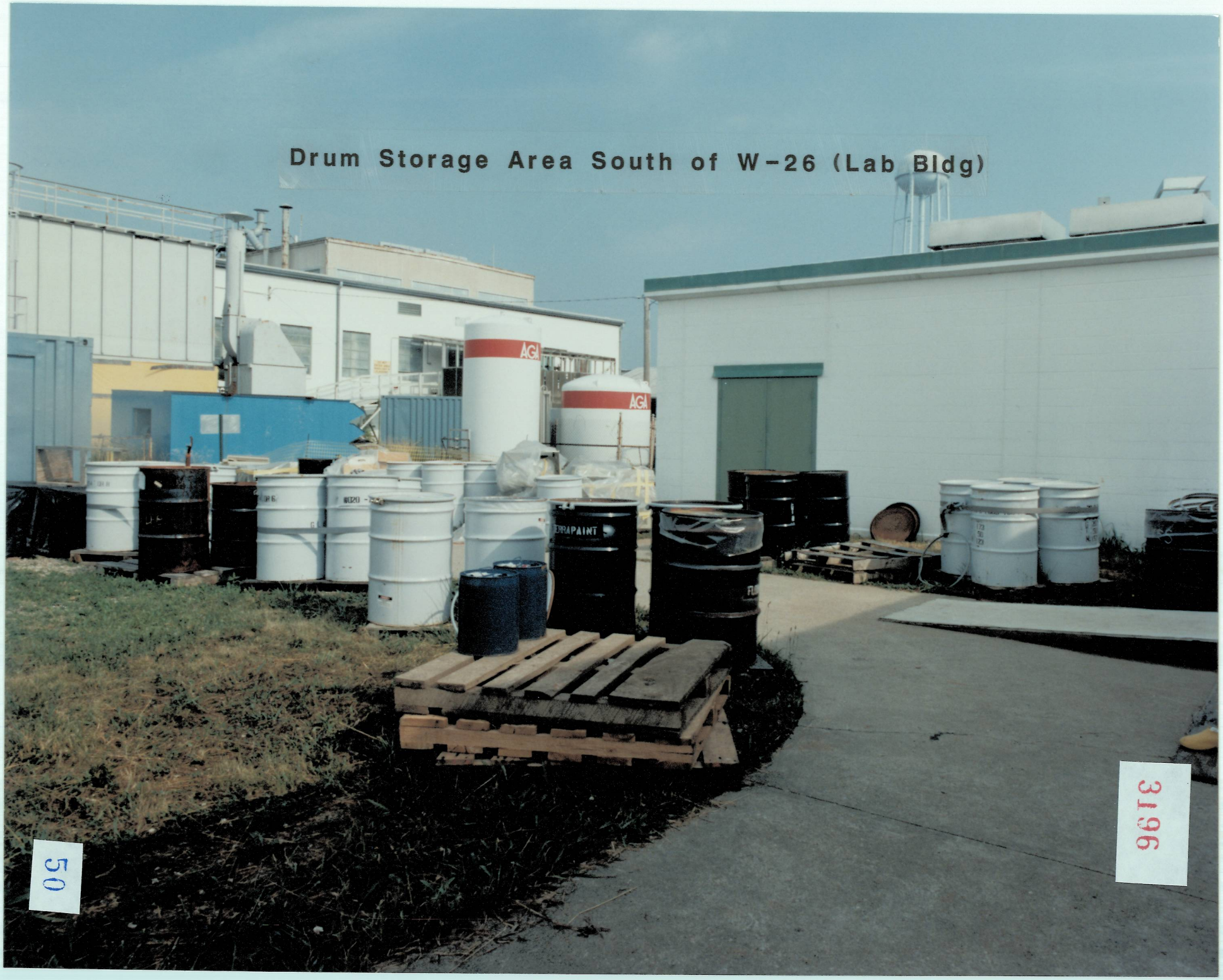
3196

Fire Training Facility
3196
46

Waste Oil Storage in Garage
ANTIFREEZE
Mo
3196
47

Hazardous Waste Management Unit #2
Parts Cleaner in Welding Shop (Bldg. 12)
has been removed

Drum Storage Area Near Loading Dock(Lab Bldg)
NO PARKING
LOADING ZONE
CHEVROLET
3196
49


Drum Storage Area South of W-26 (Lab Bldg)
AGA
AGA
50
3196

Drummed HF Residue/Associated Storage Areas Inside Plant 4

Drummed HF Residue/Associated Storage Areas NW of Plant 4
52
3196

Drummed HF Residue/Associated Storage Areas S. of Cooling Towers
53
3196

Nitric Acid Rail Car and Area

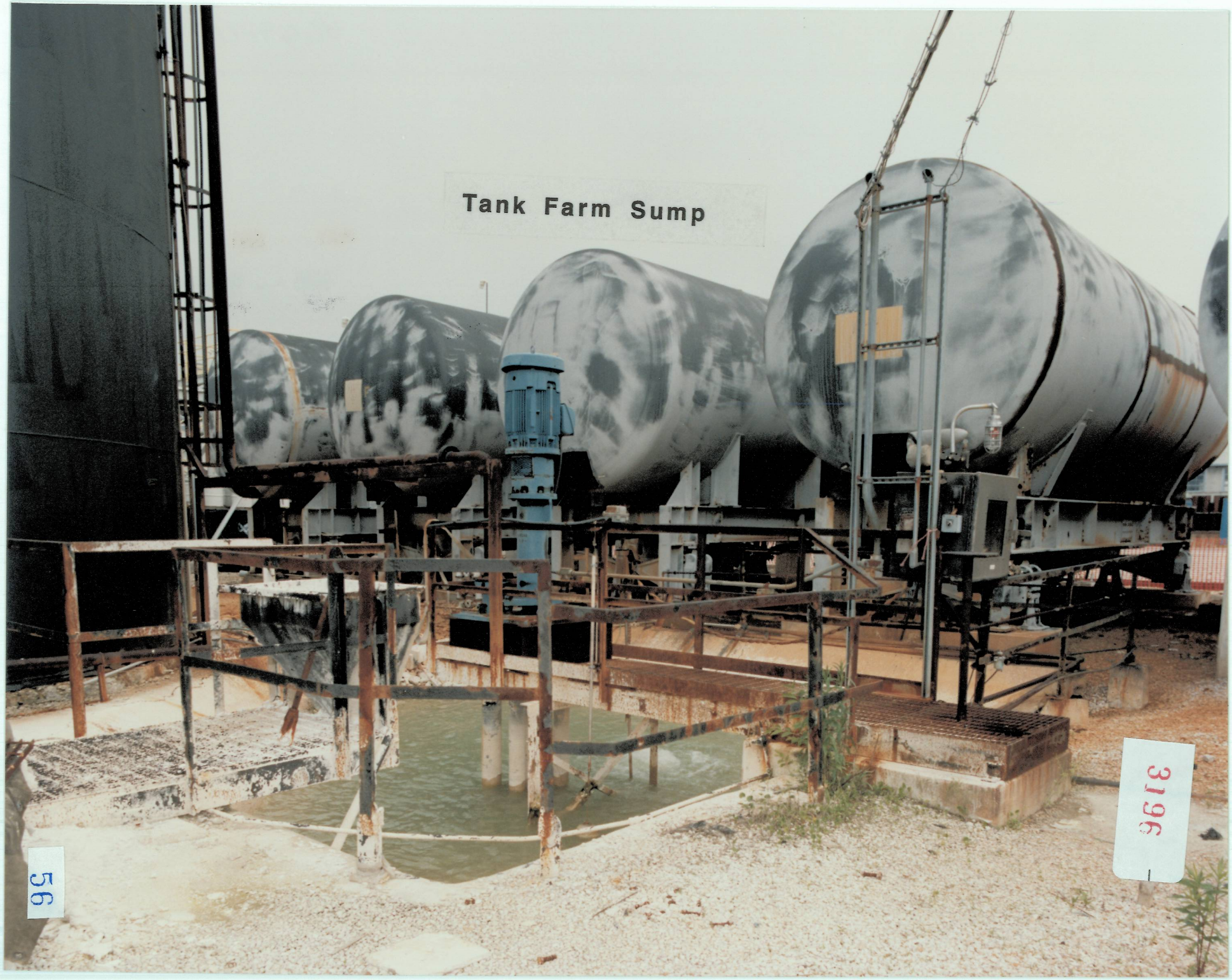
54

3196

3196

NAR System Components

55


Tank Farm Sump
56
3196

3196
CAUTION
EYE
PROTECTION
REQUIRED
CAUTION
EAR PROTECTION
— REQUIRED —
IN THIS AREA
Wheelabrator – Bldg 66
57

Wheelabrator Dust Collector
American
58
3196

UNIT I.D. PLANT 8 BOX FURN
OUT OF SERVICE HAZARDOUS
WASTE MANAGEMNT UNIT.
CONTACT FACILITY OWNER
PHONE EX. 7-8-6554
CAUTION
Box Furnace
59
3196

3196
Oxidation Furnace
UNIT I.D. PLT. 8 OXY. FURN.
OUT OF SERVICE HAZARDOUS
WASTE MANAGEMNT UNIT.
CONTACT FACILITY OWNER
PRIOR TO ENTRY.
FACILITY OWNER C. HILL
PHONE EX. 738-6554
CAUTION
DANGER
AUTHORIZED
PERSONNEL ONLY
60

NATURAL GAS
HEARTH #5
HEART #6
CAUTION
NO ENTRY
CONTROLLED AREA
CONTAMINATED AREA
Primary Calciner
3196
61

Plant 8 East Drum Storage Pad
SALVAGE DRUM
62

Plant 8 West Drum Storage Pad

3196

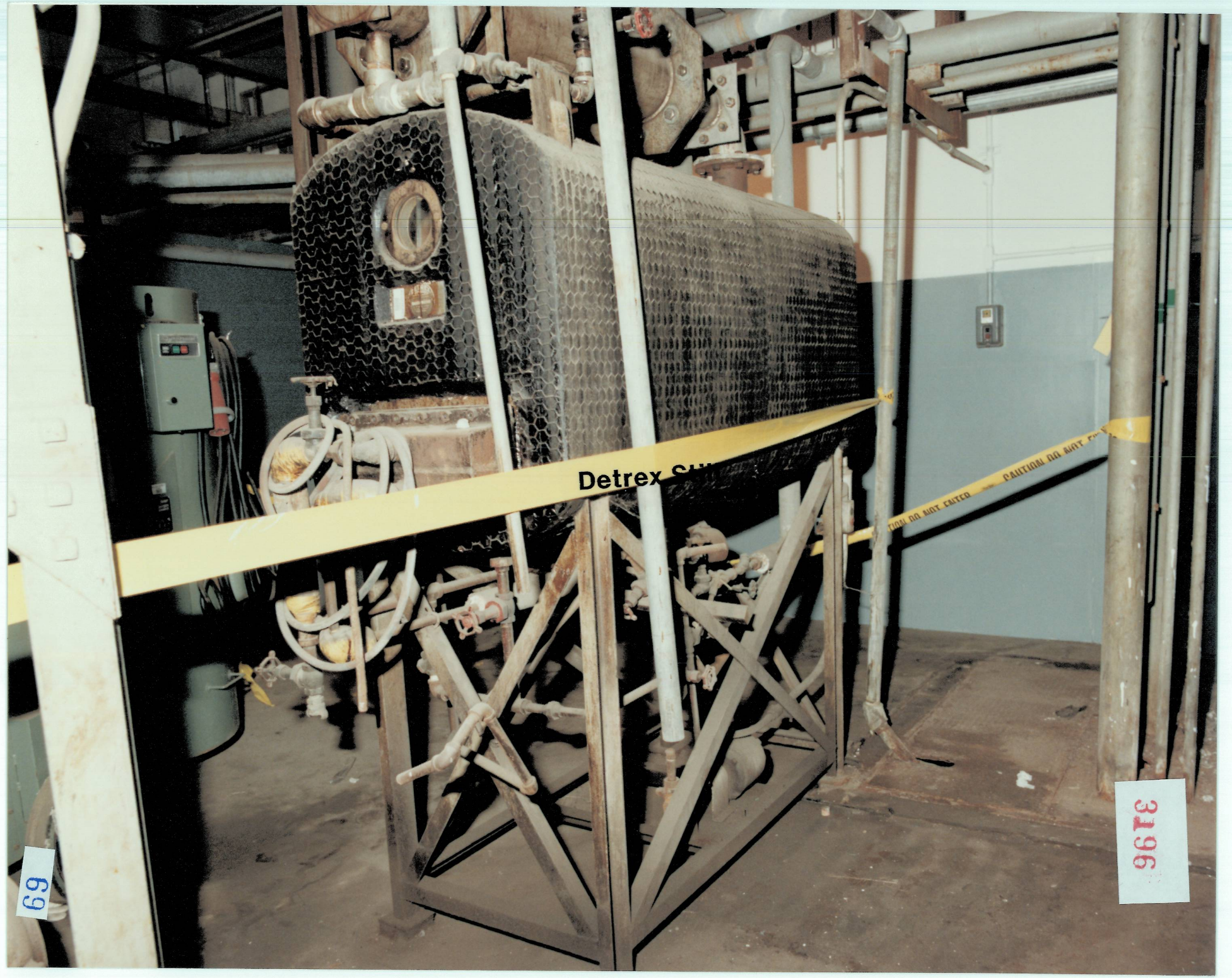
Hilco Oil Recovery
CAUTION
RADIATION CONTAMINATION AREA
NO ENTRY
3196
65

Abandoned Sump West of Pilot Plant

3196

67

Plant 1 Storage Bldg (Bldg 67)
3196
89


Detrex
CAUTION! DO NOT ENTER
3196
69

Waste Pit No. 4
70
31996

Trane Thermal Liquid Incinerator

Plant 8 Warehouse (Bldg 80)

Barium Chloride Salt Treatment Facility
U-30%
HO66-980
HO76-A332
DR.19
INV W 9293
U-30%
HO66-980
HO76-A332
DR.20
INV W 9286
3196
73

Tank for Bulk Storage of Solvents, T–5

Tank for Bulk Storage of Solvents, T–6

Pilot Plant Warehouse (Bldg 68)

3196

76

KC-2 Warehouse (Bldg 63)
3196
77

Plant 9 Warehouse (Bldg 81)

78

3196

Storage Pad North of Plant 6

79

3196

Plant 6 Warehouse (Bldg 79)
3196
80

HF Tank Car
3196
81

Clearwell
3196
82

83

3196

Sludge Drying Beds
3196
84

Waste Pit No. 5
3196
85

Lime Sludge Ponds
98
3196

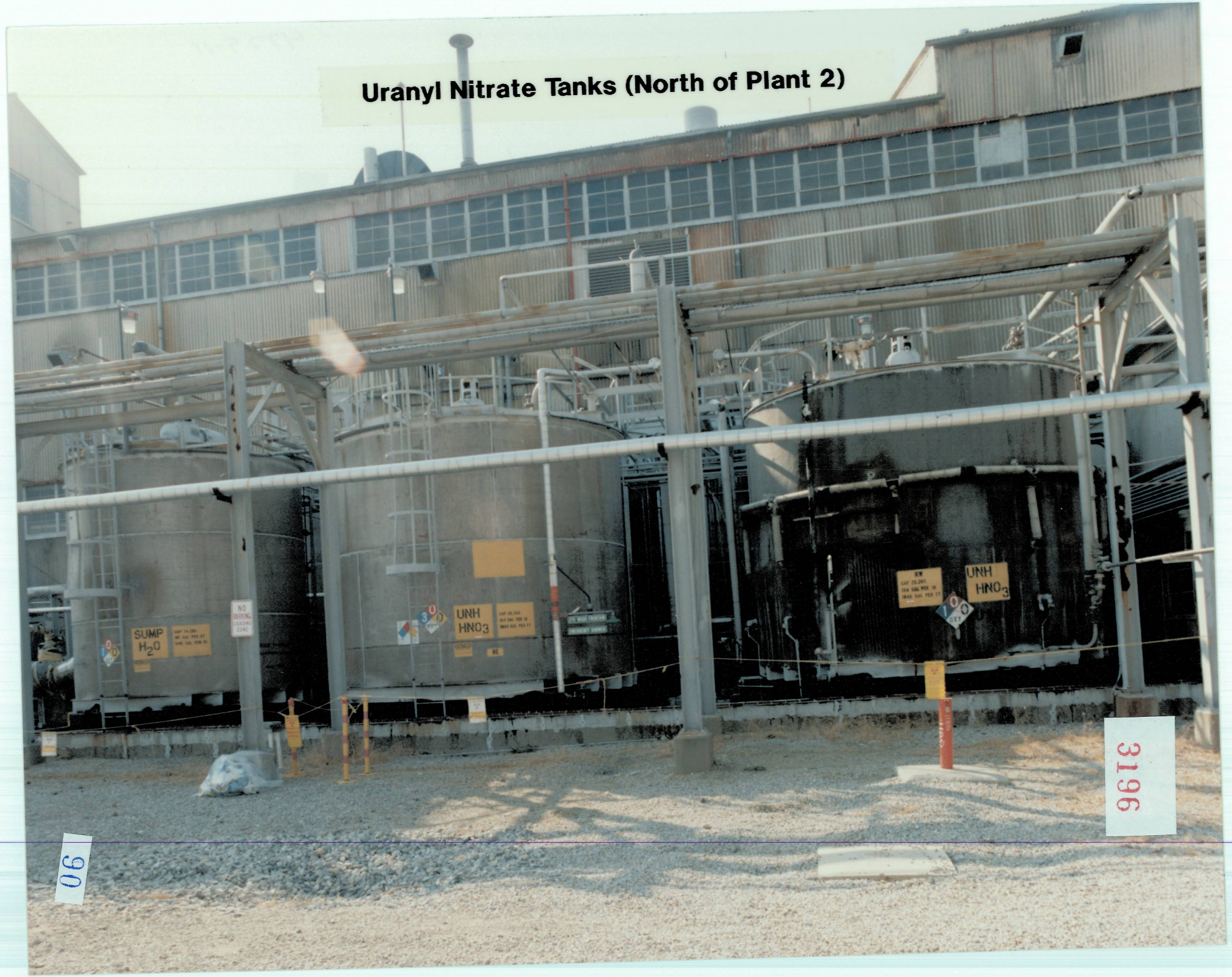
Coal Pile Runoff Basin
3196
87

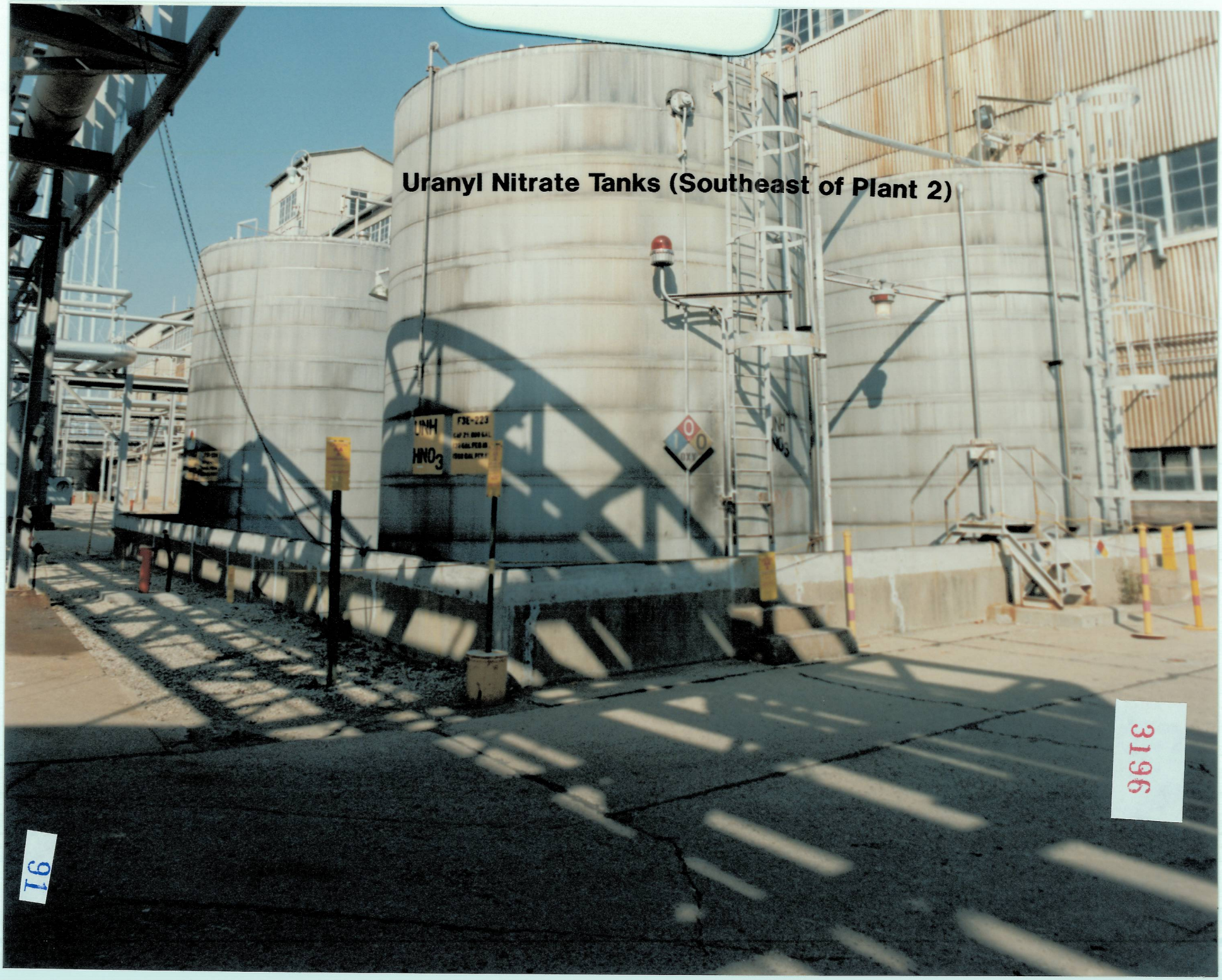
UST #5
88
3196

Uranyl Nitrate Tanks (NFS Storage Area)

3196

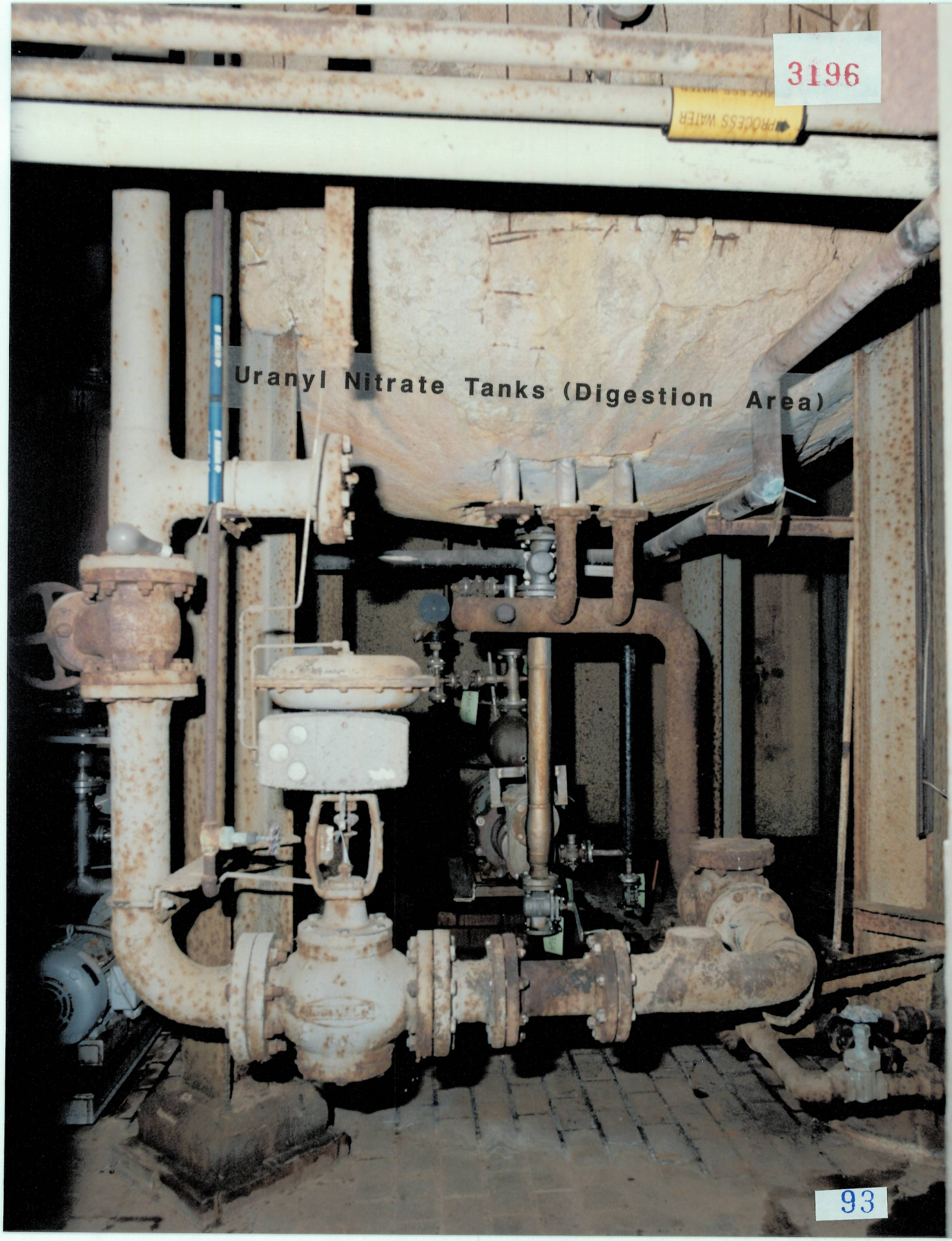
89


Uranyl Nitrate Tanks (North of Plant 2)
SUMP
H_2O
NO PARKING LOADING ZONE
UNH
HNO_3
UNH
HNO_3
3196
90



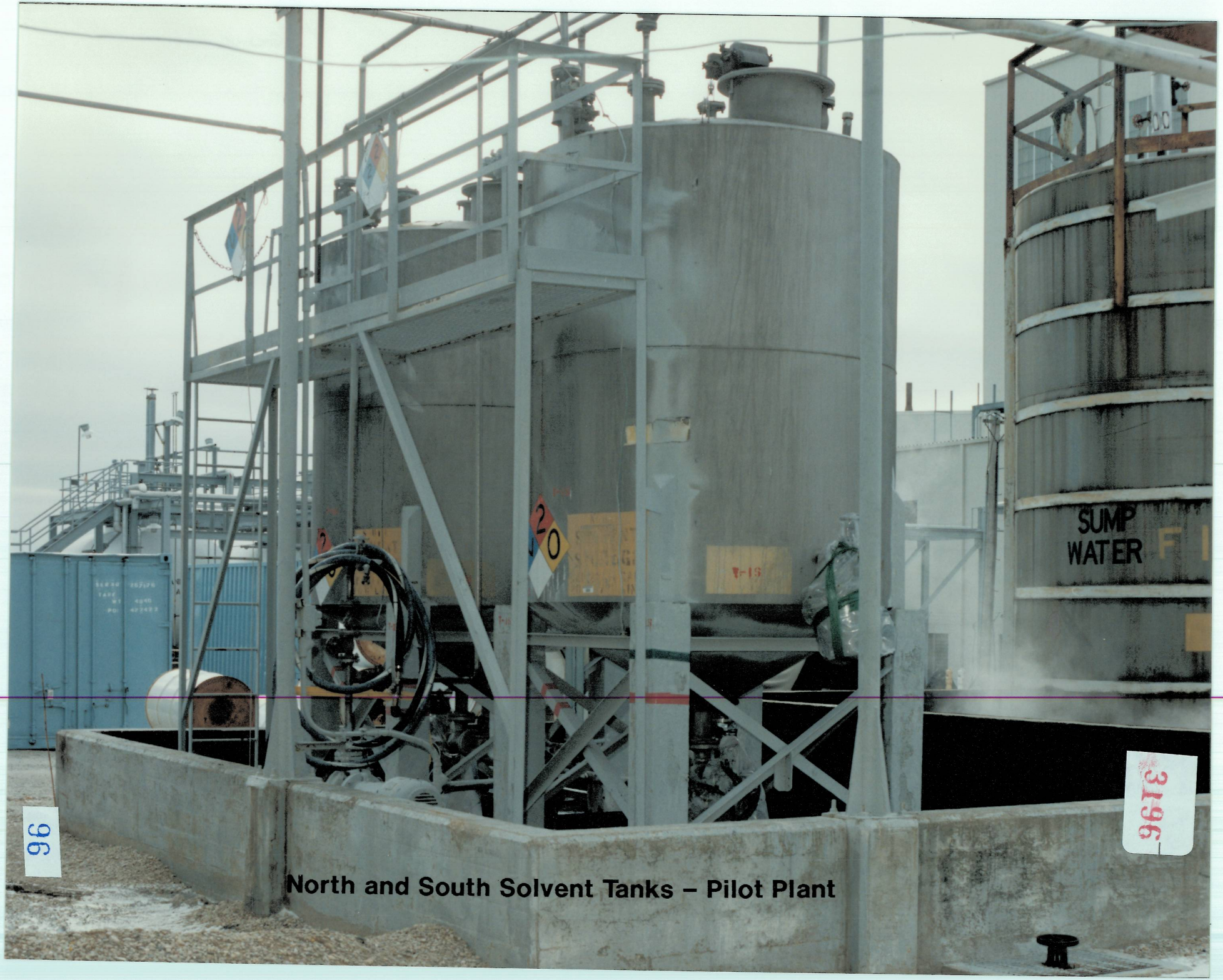
Uranyl Nitrate Tanks (Southeast of Plant 2)

Uranyl Nitrate Tanks (Digestion Area)

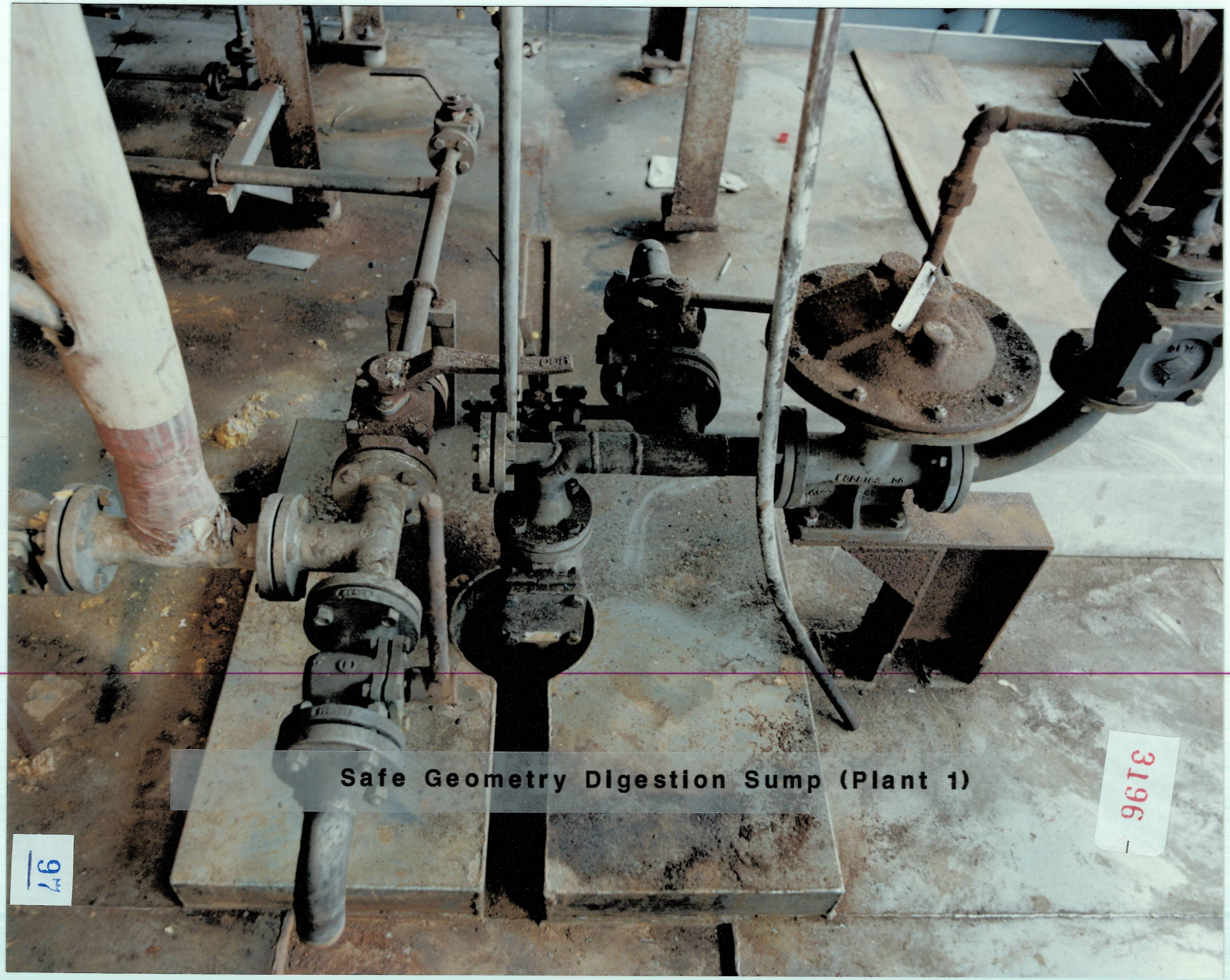

3196
PROCESS WATER
Uranyl Nitrate Tanks (Digestion Area)
93

Uranyl Nitrate Tanks (Raffinate Building)
3196
94

Experimental Treatment Facility (ETF)
3196
95



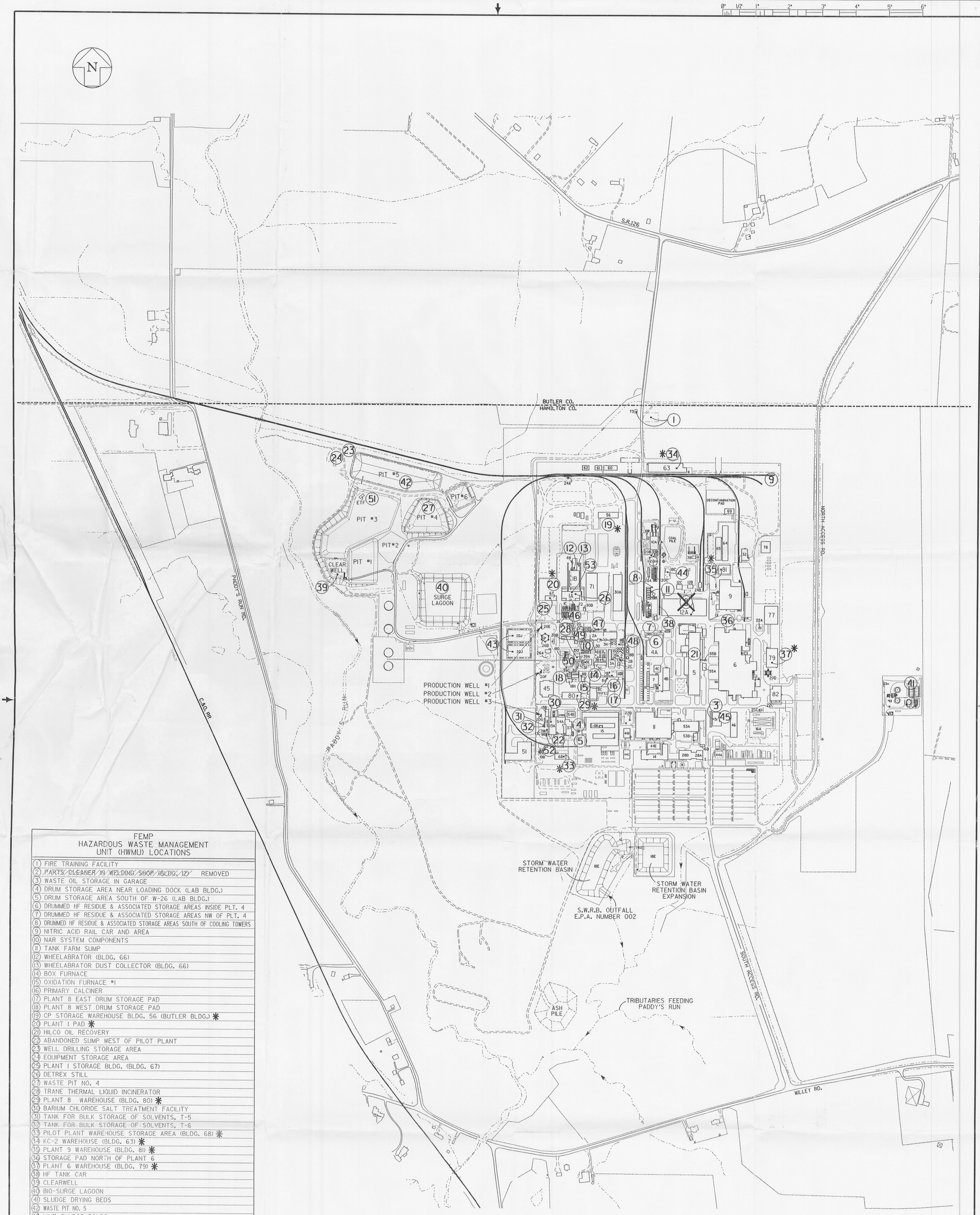
North and South Solvent Tanks – Pilot Plant



Safe Geometry Digestion Sump (Plant 1)

3196

97



FEMP HAZARDOUS WASTE MANAGEMENT UNIT (HWMU) LOCATIONS
(1) FIRE TRAINING FACILITY
(2) ~~PARTS CLEANER IN WELDING SHOP (BLDG. 12)~~ REMOVED
(3) WASTE OIL STORAGE IN GARAGE
(4) DRUM STORAGE AREA NEAR LOADING DOCK (LAB BLDG.)
(5) DRUM STORAGE AREA SOUTH OF W-26 (LAB BLDG.)
(6) DRUMMED HF RESIDUE & ASSOCIATED STORAGE AREAS INSIDE PLT. 4
(7) DRUMMED HF RESIDUE & ASSOCIATED STORAGE AREAS NW OF PLT. 4
(8) DRUMMED HF RESIDUE & ASSOCIATED STORAGE AREAS SOUTH OF COOLING TOWERS
(9) NITRIC ACID RAIL CAR AND AREA
(10) NAR SYSTEM COMPONENTS
(11) TANK FARM SUMP
(12) WHEELABRATOR (BLDG. 66)
(13) WHEELABRATOR DUST COLLECTOR (BLDG. 66)
(14) BOX FURNACE
(15) OXIDATION FURNACE #1
(16) PRIMARY CALCINER
(17) PLANT 8 EAST DRUM STORAGE PAD
(18) PLANT 8 WEST DRUM STORAGE PAD
(19) CP STORAGE WAREHOUSE BLDG. 56 (BUTLER BLDG.) *
(20) PLANT 1 PAD *
(21) HILCO OIL RECOVERY
(22) ABANDONED SUMP WEST OF PILOT PLANT
(23) WELL DRILLING STORAGE AREA
(24) EQUIPMENT STORAGE AREA
(25) PLANT 1 STORAGE BLDG. (BLDG. 67)
(26) DETREX STILL
(27) WASTE PIT NO. 4
(28) TRANE THERMAL LIQUID INCINERATOR
(29) PLANT 8 WAREHOUSE (BLDG. 80) *
(30) BARIUM CHLORIDE SALT TREATMENT FACILITY
(31) TANK FOR BULK STORAGE OF SOLVENTS, T-5
(32) TANK FOR BULK STORAGE OF SOLVENTS, T-6
(33) PILOT PLANT WAREHOUSE STORAGE AREA (BLDG. 68) *
(34) KC-2 WAREHOUSE (BLDG. 63) *
(35) PLANT 9 WAREHOUSE (BLDG. 81) *
(36) STORAGE PAD NORTH OF PLANT 6
(37) PLANT 6 WAREHOUSE (BLDG. 79) *
(38) HF TANK CAR
(39) CLEARWELL
(40) BIO-SURGE LAGOON
(41) SLUDGE DRYING BEDS
(42) WASTE PIT NO. 5
(43) LIME SLUDGE PONDS
(44) COAL PILE RUNOFF BASIN
(45) UST #5
(46) URANYL NITRATE TANKS (NFS STORAGE AREA)
(47) URANYL NITRATE TANKS (NORTH OF PLANT 2)
(48) URANYL NITRATE TANKS (SOUTHEAST OF PLANT 2)
(49) URANYL NITRATE TANKS (DIGESTION AREA)
(50) URANYL NITRATE TANKS (RAFFINATE BLDG.)
(51) EXPERIMENTAL TREATMENT FACILITY (ETF)
(52) NORTH & SOUTH SOLVENT TANKS (PILOT PLANT)
(53) SAFE GEOMETRY DIGESTION SUMP

*-HWMU'S THE FEMP IS SEEKING TO PERMIT

3196

NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.
1	REVISED PER RES #1841	1/29/92	S.J.S.		

NOTE: WEMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE
FRACTIONS ± 1/32
ANGLES ± 0° - 30'
DECIMALS
.X ± 0.1
.XX ± 0.03
.XXX ± 0.005
.XXXX ± 0.0010
ORIG. RELEASE DATE

APPROVALS					
			SAFETY ENG.		
CIVIL & STR.			MAINTENANCE		
ELECTRICAL					
ENGINEER			O.A.		
INSTRUMENT					
MECHANICAL			FIRE PROTECT.		
			WASTE MANAGE		
CHECKED			D.O.E.		
APPROVED			SECURITY		

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

SITE PLAN — RCRA PART A

FIGURE A-1
FACILITY LOCATION MAP
SCALE: 1" = 300'

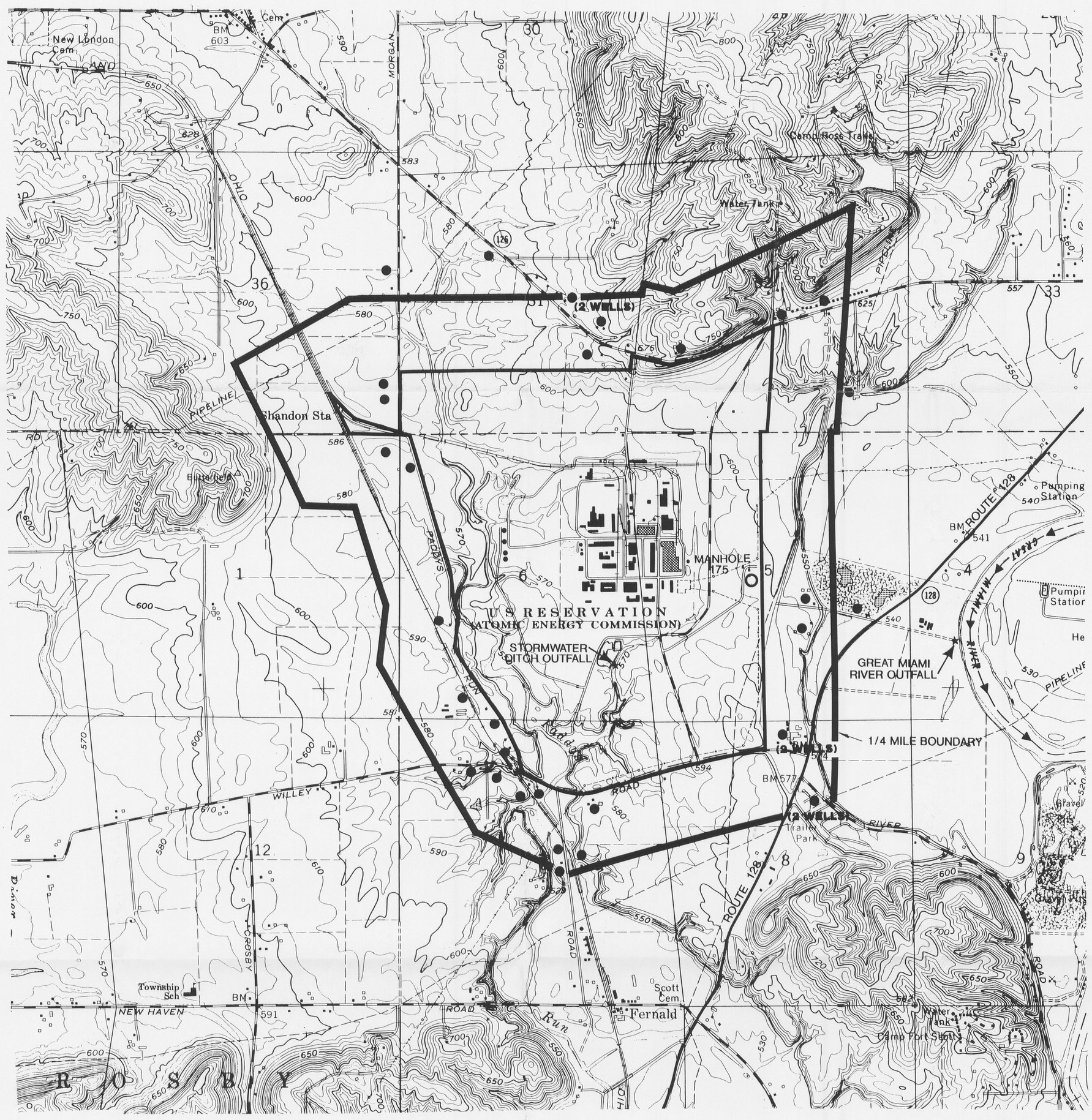
29

RES #1626
DATE 5-24-91
DRAWN S.J.SMOCK

75X-5500-X-00171 — 1

FILE NAME: SERVER1:/91RCRA/75XX00171.DGN

10849_1



RCRA PART A
TOPOGRAPHIC MAP

LEGEND:

- ● RESIDENTIAL WATER WELLS
- ★ NPDES DISCHARGE POINT
- ← RIVER FLOW
- | PROPERTY BOUNDARY
- -·-·- INTERMITTENT STREAM
- ○ MANHOLE

NOTE:

MAP SOURCE - USGS SHANDON QUADRANGLE, REV. 1974

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NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

NOTE:
WMCO C.A.D.
DRAWING NOT
TO BE REVISED
MANUALLY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE
FRACTIONS ± 1/32
ANGLES ± 0° - 30'
DECIMALS
.X ± 0.1
.XX ± 0.03
.XXX ± 0.005
.XXXX ± 0.0010
ORIG. RELEASE DATE

APPROVALS					
CHEMICAL			E.S. & H.		
CIVIL & STR.			MAINTENANCE		
ELECTRICAL			NU. SAFETY		
ENGINEER			Q.A.		
INSTRUMENT			PRODUCTION		
MECHANICAL			PROD. TECH.		
			WASTE MANAGE		
CHECKED					
APPROVED					

WESTINGHOUSE MAT'LS. CO. OF OHIO
FERNALD, OHIO
FEED MATERIALS PRODUCTION CENTER
U.S. DEPARTMENT OF ENERGY

SITE PLAN — RCRA PART A
SCALE: 1" = 1000'
30

RES 1626
DATE 6-13-91
DRAWN D.J.HUFF

75X-5500-X-00172 | 0

FILE NAME: