003857

DOE/RL 88-21
Volume 2 of 3

# Hanford Site Dangerous Waste Part A Permit Application

Date Published
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United States
Department of Energy
P.O. Box 550
Richland, Washington 99352

Use typewriter (type as this line) or print in ink.
Blocks are spaced for elite type, i.e., 12 characters/inch).

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| 0 3 | | 8 3 |

FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

☐ 2. NEW FACILITY (Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| | | |

FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | K |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | | 5 | | | | |
| X-2 | T 0 3 | 20 | E | | 6 | | | | |
| | S 0 1 | 27,000 | G | | 7 | | | | |
| 2 | | | | | 8 | | | | |
| 3 | | | | | 9 | | | | |
| 4 | | | | | 10 | | | | |

9 0 1 1 7 7 3 1 5 3

Continued from the front.

## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

S01

The 2727-S NRDWS is located in the southeast portion of the 200 West Area and provides container storage for nonradioactive dangerous wastes generated in the research and development laboratories, process operations, and maintenance and transportation function throughout the Hanford Site.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. **DANGEROUS WASTE NUMBER** — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1)

WA 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | K | S01 | Storage |
| 2 | D002 | 18,000 | | | |
| 3 | D004 | 100 | | | |
| 4 | D005 | 15,000 | | | |
| 5 | D006 | 500 | | | |
| 6 | D007 | 5,000 | | | |
| 7 | D008 | 100 | | | |
| 8 | D009 | 1,500 | | | |
| 9 | D010 | 500 | | | |
| 10 | D011 | 100 | | | |
| 11 | WT01 | 12,000 | | | |
| 12 | WT02 | 35,000 | | | |
| 13 | WT02 | 22,000 | | | |
| 14 | WP01 | 10,000 | | | |
| 15 | WP02 | 3,000 | | | |
| 16 | WC01 | 8,000 | | | |
| 17 | WC02 | 3,000 | | | |
| 18 | F001 | 500 | | | |
| 19 | F002 | 500 | | | |
| 20 | F003 | 500 | | | |
| 21 | F004 | 50 | | | |
| 22 | F005 | 500 | | | |
| 23 | D003 | 200 | | | |
| 24 | WP03 | 3,000 | | | |
| 25 | F027 | 50 | | | |
| 26 | | | | | |

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Continued from page 2.

NOTE Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U001 | 50 | K | S01 | Storage |
| 2 | U003 | | | | |
| 3 | U006 | | | | |
| 4 | U007 | | | | |
| 5 | U008 | | | | |
| 6 | U009 | | | | |
| 7 | U010 | | | | |
| 8 | U012 | | | | |
| 9 | U015 | | | | |
| 10 | U017 | | | | |
| 11 | U018 | | | | |
| 12 | U019 | | | | |
| 13 | U020 | | | | |
| 14 | U021 | | | | |
| 15 | U022 | | | | |
| 16 | U023 | | | | |
| 17 | U024 | | | | |
| 18 | U025 | | | | |
| 19 | U026 | | | | |
| 20 | U027 | | | | |
| 21 | U029 | | | | |
| 22 | U030 | | | | |
| 23 | U032 | | | | |
| 24 | U033 | | | | |
| 25 | U034 | | | | |
| 26 | U035 | | | | |

Continued from page 2.

NOTE Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1)

WA789000896 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U036 | 50 | K | S01 | Storage |
| 2 | U037 | | | | |
| 3 | U038 | | | | |
| 4 | U039 | | | | |
| 5 | U041 | | | | |
| 6 | U042 | | | | |
| 7 | U043 | | | | |
| 8 | U044 | | | | |
| 9 | U045 | | | | |
| 10 | U046 | | | | |
| 11 | U047 | | | | |
| 12 | U048 | | | | |
| 13 | U049 | | | | |
| 14 | U050 | | | | |
| 15 | U051 | | | | |
| 16 | U052 | | | | |
| 17 | U053 | | | | |
| 18 | U055 | | | | |
| 19 | U056 | | | | |
| 20 | U057 | | | | |
| 21 | U058 | | | | |
| 22 | U060 | | | | |
| 23 | U061 | | | | |
| 24 | U062 | | | | |
| 25 | U063 | | | | |
| 26 | U064 | | | | |

9 0 1 1 7 7 3 1 5 4 0

Continued from page 2.

NOTE Photocopy this page before completing if you have more than 26 wastes to list.

ID. NUMBER (enter from page 1)

WA 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U066 | 50 | K | S01 | Storage |
| 2 | U067 | | | | |
| 3 | U068 | | | | |
| 4 | U070 | | | | |
| 5 | U071 | | | | |
| 6 | U072 | | | | |
| 7 | U073 | | | | |
| 8 | U074 | | | | |
| 9 | U075 | | | | |
| 10 | U076 | | | | |
| 11 | U077 | | | | |
| 12 | U078 | | | | |
| 13 | U079 | | | | |
| 14 | U080 | | | | |
| 15 | U081 | | | | |
| 16 | U082 | | | | |
| 17 | U083 | | | | |
| 18 | U084 | | | | |
| 19 | U085 | | | | |
| 20 | U087 | | | | |
| 21 | U092 | | | | |
| 22 | U093 | | | | |
| 23 | U094 | | | | |
| 24 | U095 | | | | |
| 25 | U096 | | | | |
| 26 | U097 | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1)
A789000897

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U099 | 50 | K | S01 | Storage |
| 2 | U103 | | | | |
| 3 | U105 | | | | |
| 4 | U106 | | | | |
| 5 | U109 | | | | |
| 6 | U110 | | | | |
| 7 | U111 | | | | |
| 8 | U114 | | | | |
| 9 | U115 | | | | |
| 10 | U121 | | | | |
| 11 | U122 | | | | |
| 12 | U125 | | | | |
| 13 | U126 | | | | |
| 14 | U127 | | | | |
| 15 | U128 | | | | |
| 16 | U129 | | | | |
| 17 | U130 | | | | |
| 18 | U131 | | | | |
| 19 | U132 | | | | |
| 20 | U133 | | | | |
| 21 | U135 | | | | |
| 22 | U138 | | | | |
| 23 | U142 | | | | |
| 24 | U143 | | | | |
| 25 | U144 | | | | |
| 26 | U147 | | | | |

Continued from page 2.

NOTE: *Photocopy this page before completing if you have more than 26 wastes to list.*

I.D. NUMBER *(enter from page 1)*: WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

| LINE NO. | A. DANGEROUS 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 | U190 | 50. | K | S01 | Storage |
| 2 | U191 | | | | |
| 3 | U194 | | | | |
| 4 | U196 | | | | |
| 5 | U197 | | | | |
| 6 | U201 | | | | |
| 7 | U207 | | | | |
| 8 | U208 | | | | |
| 9 | U209 | | | | |
| 10 | U210 | | | | |
| 11 | U211 | | | | |
| 12 | U212 | | | | |
| 13 | U219 | | | | |
| 14 | U220 | | | | |
| 15 | U223 | | | | |
| 16 | U225 | | | | |
| 17 | U226 | | | | |
| 18 | U227 | | | | |
| 19 | U228 | | | | |
| 20 | U230 | | | | |
| 21 | U231 | | | | |
| 22 | U232 | | | | |
| 23 | U233 | | | | |
| 24 | U235 | | | | |
| 25 | U236 | | | | |
| 26 | U237 | | | | |

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Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U149 | 50 | K | S01 | Storage |
| 2 | U151 | | | | |
| 3 | U152 | | | | |
| 4 | U153 | | | | |
| 5 | U156 | | | | |
| 6 | U157 | | | | |
| 7 | U158 | | | | |
| 8 | U160 | | | | |
| 9 | U163 | | | | |
| 10 | U165 | | | | |
| 11 | U166 | | | | |
| 12 | U167 | | | | |
| 13 | U168 | | | | |
| 14 | U169 | | | | |
| 15 | U170 | | | | |
| 16 | U171 | | | | |
| 17 | U174 | | | | |
| 18 | U176 | | | | |
| 19 | U177 | | | | |
| 20 | U178 | | | | |
| 21 | U179 | | | | |
| 22 | U183 | | | | |
| 23 | U184 | | | | |
| 24 | U185 | | | | |
| 25 | U188 | | | | |
| 26 | U189 | | | | |

Continued from page 2.

NOTE. Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1)

WA789000896 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U239 | 50 | K | S01 | Storage |
| 2 | U240 | | | | |
| 3 | U242 | | | | |
| 4 | U243 | | | | |
| 5 | U245 | | | | |
| 6 | U246 | | | | |
| 7 | U247 | | | | |
| 8 | U002 | | | | |
| 9 | U004 | | | | |
| 10 | U031 | | | | |
| 11 | U123 | | | | |
| 12 | U134 | | | | |
| 13 | U154 | | | | |
| 14 | U159 | | | | |
| 15 | U161 | | | | |
| 16 | U162 | | | | |
| 17 | U216 | | | | |
| 18 | U218 | | | | |
| 19 | U238 | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |

Continued from page 2.

NOTE. Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS 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 | P001 | 50 | K | S01 | Storage |
| 2 | P002 | | | | |
| 3 | P003 | | | | |
| 4 | P004 | | | | |
| 5 | P005 | | | | |
| 6 | P007 | | | | |
| 7 | P008 | | | | |
| 8 | P009 | | | | |
| 9 | P010 | | | | |
| 10 | P011 | | | | |
| 11 | P012 | | | | |
| 12 | P013 | | | | |
| 13 | P014 | | | | |
| 14 | P015 | | | | |
| 15 | P016 | | | | |
| 16 | P017 | | | | |
| 17 | P018 | | | | |
| 18 | P020 | | | | |
| 19 | P021 | | | | |
| 20 | P022 | | | | |
| 21 | P023 | | | | |
| 22 | P024 | | | | |
| 23 | P025 | | | | |
| 24 | P026 | | | | |
| 25 | P027 | | | | |
| 26 | P028 | | | | |

Continued from page 2.
NOTE. Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P029 | 50 | K | S01 | Storage |
| 2 | P030 | | | | |
| 3 | P031 | | | | |
| 4 | P033 | | | | |
| 5 | P034 | | | | |
| 6 | P035 | | | | |
| 7 | P036 | | | | |
| 8 | P037 | | | | |
| 9 | P038 | | | | |
| 10 | P039 | | | | |
| 11 | P040 | | | | |
| 12 | P041 | | | | |
| 13 | P042 | | | | |
| 14 | P043 | | | | |
| 15 | P044 | | | | |
| 16 | P045 | | | | |
| 17 | P046 | | | | |
| 18 | P047 | | | | |
| 19 | P048 | | | | |
| 20 | P049 | | | | |
| 21 | P050 | | | | |
| 22 | P051 | | | | |
| 23 | P054 | | | | |
| 24 | P056 | | | | |
| 25 | P057 | | | | |
| 26 | P058 | | | | |

Continued from page 2.

NOTE. Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P059 | 50. | K | S01 | Storage |
| 2 | P060 | | | | |
| 3 | P062 | | | | |
| 4 | P063 | | | | |
| 5 | P064 | | | | |
| 6 | P065 | | | | |
| 7 | P066 | | | | |
| 8 | P067 | | | | |
| 9 | P068 | | | | |
| 10 | P069 | | | | |
| 11 | P070 | | | | |
| 12 | P071 | | | | |
| 13 | P072 | | | | |
| 14 | P073 | | | | |
| 15 | P074 | | | | |
| 16 | P075 | | | | |
| 17 | P076 | | | | |
| 18 | P077 | | | | |
| 19 | P078 | | | | |
| 20 | P079 | | | | |
| 21 | P081 | | | | |
| 22 | P082 | | | | |
| 23 | P084 | | | | |
| 24 | P085 | | | | |
| 25 | P087 | | | | |
| 26 | P088 | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P089 | 50 | K | S01 | Storage |
| 2 | P092 | | | | |
| 3 | P093 | | | | |
| 4 | P094 | | | | |
| 5 | P095 | | | | |
| 6 | P096 | | | | |
| 7 | P097 | | | | |
| 8 | P098 | | | | |
| 9 | P099 | | | | |
| 10 | P101 | | | | |
| 11 | P102 | | | | |
| 12 | P103 | | | | |
| 13 | P104 | | | | |
| 14 | P105 | | | | |
| 15 | P106 | | | | |
| 16 | P107 | | | | |
| 17 | P108 | | | | |
| 18 | P109 | | | | |
| 19 | P110 | | | | |
| 20 | P111 | | | | |
| 21 | P112 | | | | |
| 22 | P113 | | | | |
| 23 | P114 | | | | |
| 24 | P115 | | | | |
| 25 | P116 | | | | |
| 26 | P118 | | | | |

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1)

WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P119 | 50 | K | S01 | Storage |
| 2 | P120 | | | | |
| 3 | P121 | | | | |
| 4 | P122 | | | | |
| 5 | P123 | | | | |
| 6 | | | | | |
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| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000896 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U002 | 50 | K | S01 | Storage |
| 2 | U004 | | | | |
| 3 | U005 | | | | |
| 4 | U011 | | | | |
| 5 | U014 | | | | |
| 6 | U016 | | | | |
| 7 | U028 | | | | |
| 8 | U031 | | | | |
| 9 | U059 | | | | |
| 10 | U069 | | | | |
| 11 | U086 | | | | |
| 12 | U087 | | | | |
| 13 | U088 | | | | |
| 14 | U089 | | | | |
| 15 | U090 | | | | |
| 16 | U091 | | | | |
| 17 | U098 | | | | |
| 18 | U101 | | | | |
| 19 | U102 | | | | |
| 20 | U107 | | | | |
| 21 | U108 | | | | |
| 22 | U112 | | | | |
| 23 | U113 | | | | |
| 24 | U116 | | | | |
| 25 | U117 | | | | |
| 26 | U118 | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 28 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U119 | 50 | K | S01 | Storage |
| 2 | U120 | | | | |
| 3 | U123 | | | | |
| 4 | U124 | | | | |
| 5 | U134 | | | | |
| 6 | U136 | | | | |
| 7 | U137 | | | | |
| 8 | U139 | | | | |
| 9 | U140 | | | | |
| 10 | U141 | | | | |
| 11 | U145 | | | | |
| 12 | U146 | | | | |
| 13 | U148 | | | | |
| 14 | U150 | | | | |
| 15 | U154 | | | | |
| 16 | U155 | | | | |
| 17 | U159 | | | | |
| 18 | U161 | | | | |
| 19 | U162 | | | | |
| 20 | U164 | | | | |
| 21 | U172 | | | | |
| 22 | U173 | | | | |
| 23 | U180 | | | | |
| 24 | U181 | | | | |
| 25 | U182 | | | | |
| 26 | U186 | | | | |

Continued from the front

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

S01

The 2727-S Storage Facility was used for the storage of dangerous wastes generated on the Hanford Site. These wastes consisted of listed wastes, wastes from non-specific sources, characteristic wastes, andstate-only wastes.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION *This information appears on the attached drawing and photograph

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| | |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | November 16, 1987 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

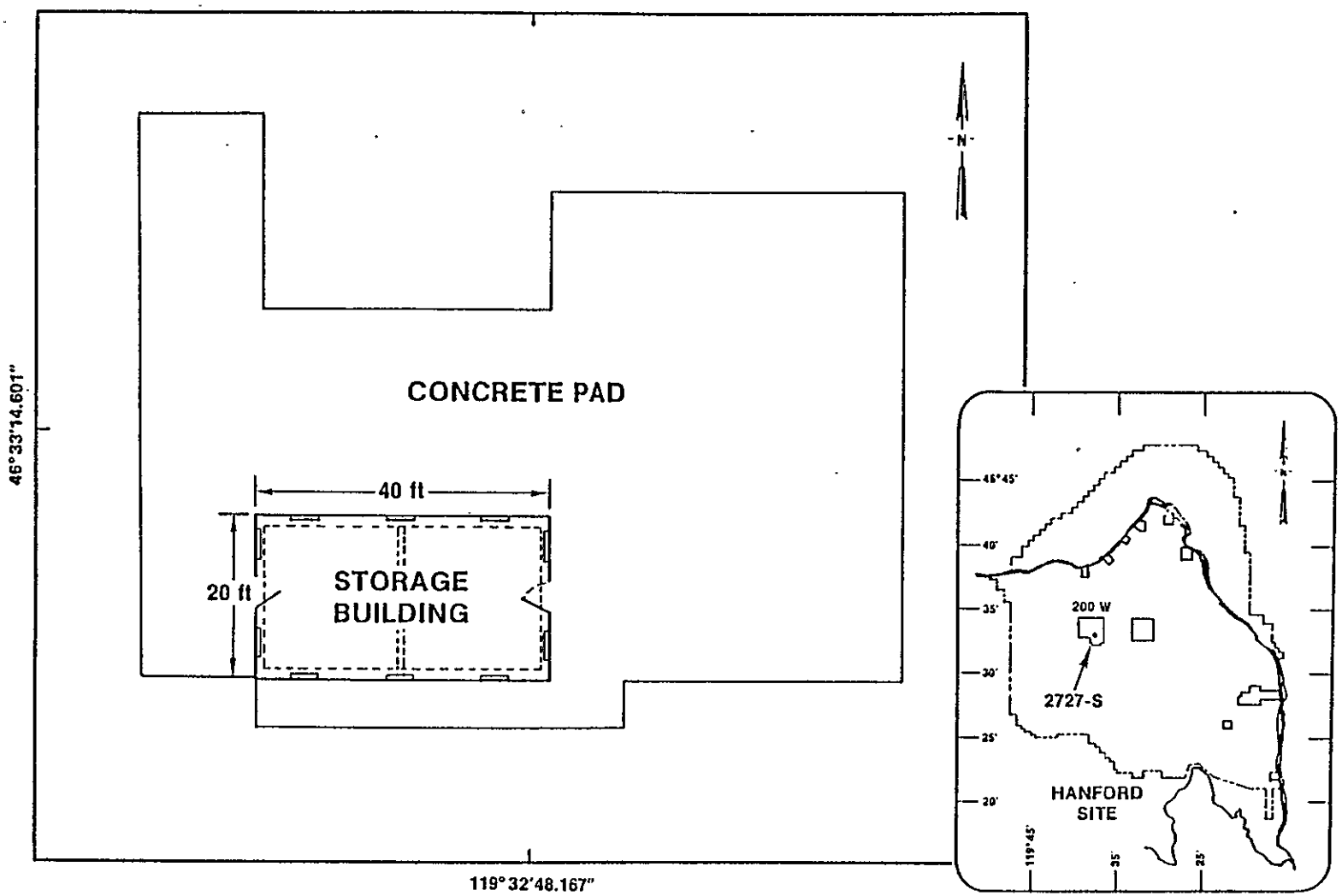
Michael J. Lawrence — 11-16-87
Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy
Date

W. M. Jacobi — 11/16/87
William M. Jacobi
President
Westinghouse Hanford Company
Date

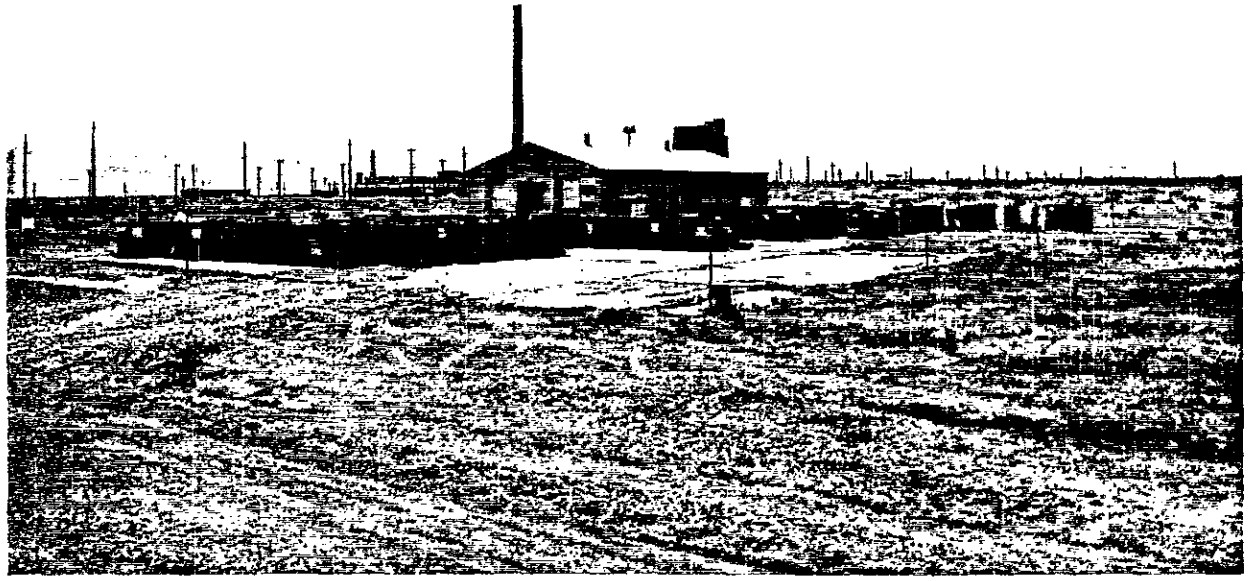
9011175155

# 2727-S NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY

## SITE PLAN



# NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY 2727-S/200-W AREA



46°33'14.601"
119°32'48.167"

8503045-E27CN

(PHOTO TAKEN 1985)

2B8707-13.33

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

**FOR OFFICIAL USE ONLY**

| APPLICATION RECEIVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate data)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

☐ 2. NEW FACILITY (Complete item below.)

| | MO. | DAY | YR. |
|---|---|---|---|
| * | | | |

FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (see the dates to the left) *See Attached List

| | MO. | DAY | YR. |
|---|---|---|---|
| * | | | |

FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (Barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | |
| X-2 | T 0 3 | 20 | E | |
| 1 | S 0 2 | 43,000,000 | G | |
| 2 | T 0 1 | 43,000,000 | U | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |

Continued from the front.

## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

SEE ATTACHED SHEETS

## IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous wastes: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | *included with above* |

DANGEROUS WASTE PERMIT APPLICATION
EPA STATE ID NUMBER WA7890008967

Section IIIC, PROCESS DISCRIPTION
S02, T01

Hanford double-shell tank farms are used for interim storage of radioactive mixed waste from Hanford facilities. Several operating plants in the 200 East and 200 West areas of the site transfer radioactive waste from the facility through buried double-encased transfer lines to million gallon double-shell underground tanks. The liquid is accumulated in the million gallon tanks until it is transferred to other facilities for processing or final disposal.

Other types of liquid radioactive waste are received in double-shell million gallon tanks from rail car transfers, tank truck transfers, single shell tanks, and smaller temporary storage tanks.

Tlhe process design capacity of 43,000,000 gallons of storage includes the following tanks in the double-shell tank farms:

1. Twenty existing one-million gallon non-aging waste double-shell tanks

2. Four existing one-million gallon aging waste double-shell tanks

3. Four one-million non-aging waste double-shell tanks that are currently scheduled to be operational by 1993

4. Four one-million gallon aging waste double-shell tanks ~~that~~ are currently scheduled to be operational by 1993

5. Six tanks in waste transfer vaults

6. One tank in a transfer building

7. Five double-contained receiver tanks

A list of these tanks is shown in the attached table. Tank capacities and tank descriptions are given in the tables.

The tanks are considered treatment units since chemicals can be added for corrosion control and/or water can be evaporated from aging waste tanks by adding heat. It is possible that up to 43,000,000 gallons can be treated in the period of a day.

# TANK LIST

| TANK NO. | OPERATION DATE | OPERATING CAPACITY (GALLONS) | DESCRIPTION |
|---|---|---|---|
| 241-AN-101 | 9/81 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AN-102 | 9/81 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AN-103 | 9/81 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AN-104 | 9/81 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AN-105 | 9/81 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AN-106 | 9/81 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AN-107 | 9/81 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AP-101 | 10/86 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AP-102 | 10/86 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AP-103 | 10/86 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AP-104 | 10/86 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AP-105 | 10/86 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AP-106 | 10/86 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AP-107 | 10/86 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AP-108 | 10/86 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AW-101 | 8/80 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AW-102 | 8/80 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AW-103 | 8/80 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AW-104 | 8/80 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AW-105 | 8/80 | 1,200,000 | NON-AGING WASTE TANK |

TANK LIST

| TANK NO. | OPERATION DATE | OPERATING CAPACITY (GALLONS) | DESCRIPTION |
|---|---|---|---|
| 241-AW-106 | 8/80 | 1,200,000 | NON-AGING WASTE TANK |
| 241-SY-101 | 4/77 | 1,200,000 | NON-AGING WASTE TANK |
| 241-SY-102 | 4/77 | 1,200,000 | NON-AGING WASTE TANK |
| 241-SY-103 | 4/77 | 1,200,000 | NON-AGING WASTE TANK |
| 241-AT-101 | 1993** | 1,200,000 | NON-AGING WASTE TANK |
| 241-AT-102 | 1993** | 1,200,000 | NON-AGING WASTE TANK |
| 241-AT-103 | 1993** | 1,200,000 | NON-AGING WASTE TANK |
| 241-AT-104 | 1993** | 1,200,000 | NON-AGING WASTE TANK |
| 241-AY-101 | 4/71 | 1,000,000 | AGING WASTE TANK |
| 241-AY-102 | 7/76* | 1,000,000 | AGING WASTE TANK |
| 241-AZ-101 | 11/76 | 1,000,000 | AGING WASTE TANK |
| 241-AZ-102 | 11/76 | 1,000,000 | AGING WASTE TANK |
| 241-AQ-101 | 1993** | 1,200,000 | AGING WASTE TANK |
| 241-AQ-102 | 1993** | 1,200,000 | AGING WASTE TANK |
| 241-AQ-103 | 1993** | 1,200,000 | AGING WASTE TANK |
| 241-AQ-104 | 1993** | 1,200,000 | AGING WASTE TANK |

TANK LIST

| TANK NO. | OPERATION DATE | OPERATING CAPACITY (GALLONS) | DESCRIPTION |
|---|---|---|---|
| 244-AR-001 | 1977 | 40,990 | TRANSFER VAULT TANK |
| 244-AR-002 | 1977 | 41,270 | TRANSFER VAULT TANK |
| 244-AR-003 | 1977 | 4,530 | TRANSFER VAULT TANK |
| 244-AR-004 | 1977 | 4,472 | TRANSFER VAULT TANK |
| 244-CR-003 | 1946 | 14,660 | TRANSFER VAULT TANK |
| 244-CR-011 | 1946 | 45,000 | TRANSFER VAULT TANK |
| 244-TX | 12/81 | 31,000 | DOUBLE CONTAINED RECEIVER TANK |
| 244-BX | 1983 | 31,000 | DOUBLE CONTAINED RECEIVER TANK |
| 244-U | 1987 | 31,000 | DOUBLE CONTAINED RECEIVER TANK |
| 244-S | 1987 | 20,280 | DOUBLE CONTAINED RECEIVER TANK |
| 244-A | 1975 | 16,280 | DOUBLE CONTAINED RECEIVER TANK |
| 241-EW-151 | 11/55* | 800 | TRANSFER STATION TANK |

* ESTIMATED DATE TANKS BECAME OPERATIONAL.
** EXACT DATES TANKS BECOME OPERATIONAL HAS NOT BEEN DETERMINED

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1)
WA 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | WT01 | 720,000,000 | P | S02 T01 | Storage/chemical treatment/ evaporation |
| 2 | D002 | | | | Included with above |
| 3 | D006 | | | | Included with above |
| 4 | D007 | | | | Included with above |
| 5 | D008 | | | | Included with above |
| 6 | D011 | | | | Included with above |
| 7 | | | | | |
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DANGEROUS WASTE PERMIT APPLICATION
EPA/STATE ID NUMBER WA7890008967

Section IV.E, DESCRIPTION OF DANGEROUS WASTES LISTED IN SECTION IV.D

Tlhe types of radioactive mixed waste treated/stored in double-shell waste tanks are as follows:

1. Dilute miscellaneous waste generated at the 100-N, 200 East, 200 West, 300, and 400 areas of the Hanford Site;

2. Supernate and transuranic sludges that consist of neutralized cladding removal waste generated during PUREX headend operations, and waste generated during Plutonium Finishing Plant processing;

3. Double shell slurry and double shell slurry feed, which is dilute waste that has been concentrated in the 242-A evaporator;

4. Concentrated complexed wastes and complexed wastes generated from B-Plant processing; and

5. Neutralized Current Acid Waste from the first extraction column at PUREX.

It is possible that any of the above waste types could be stored/treated in any of the non-aging or aging double-shell tanks.

The list of dangerous wastes under item IV.A includes the EP Toxic constituents of cadmium and silver. These constituents have not yet been detected in the wastes, but knowledge of the processes providing wastes to the double-shell tanks indicate the strong possibility that these constituents will be in the wastes. All other wastes listed on this form are based upon actual analytical data.

Continued from the front.

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

SEE ATTACHED SHEET

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached Photos and Drawings

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| | |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | November 16, 1987 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

9011715565

## X. OPERATOR CERTIFICATION

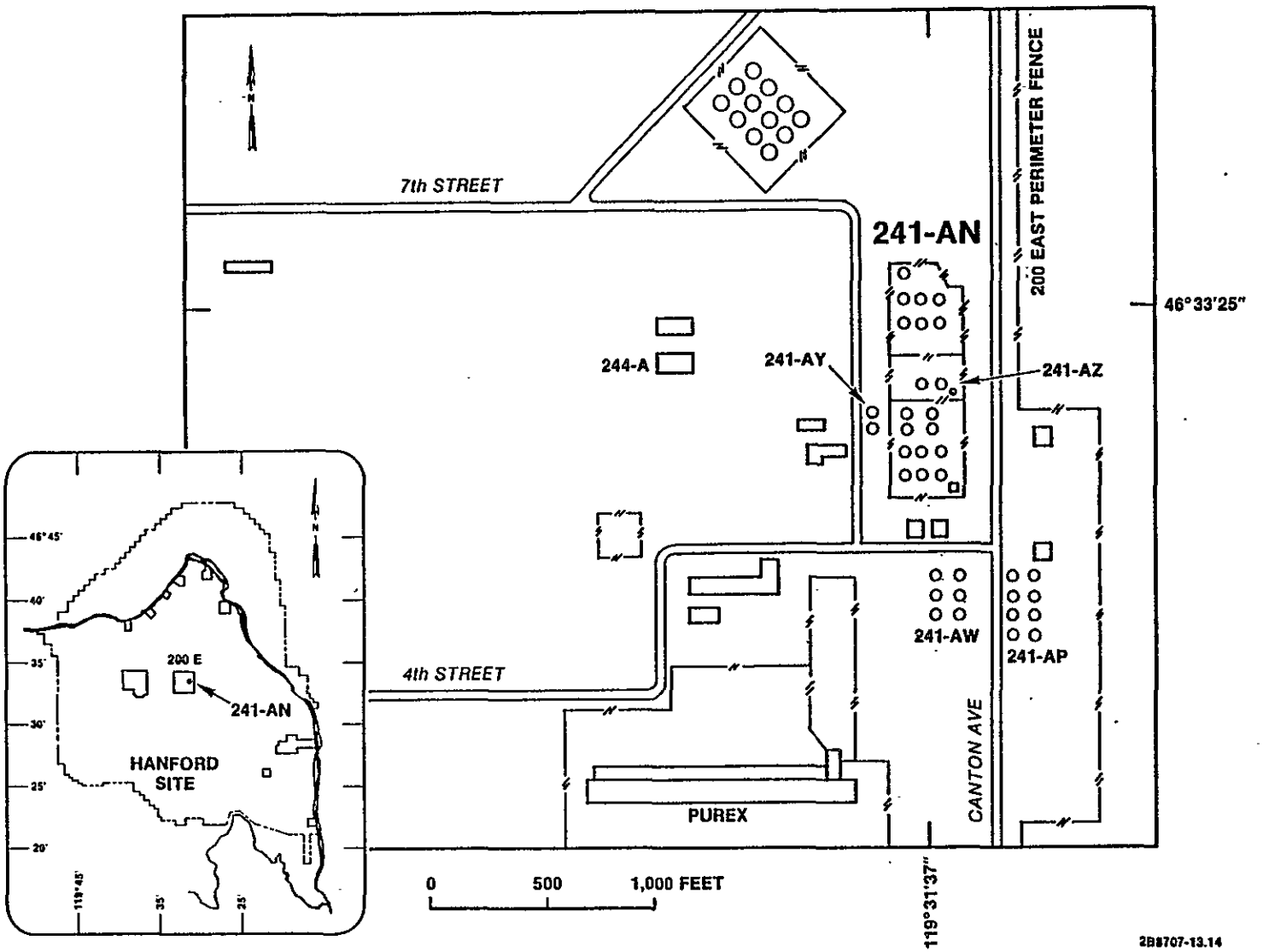
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Michael J. Lawrence — 11-16-87
Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy
Date

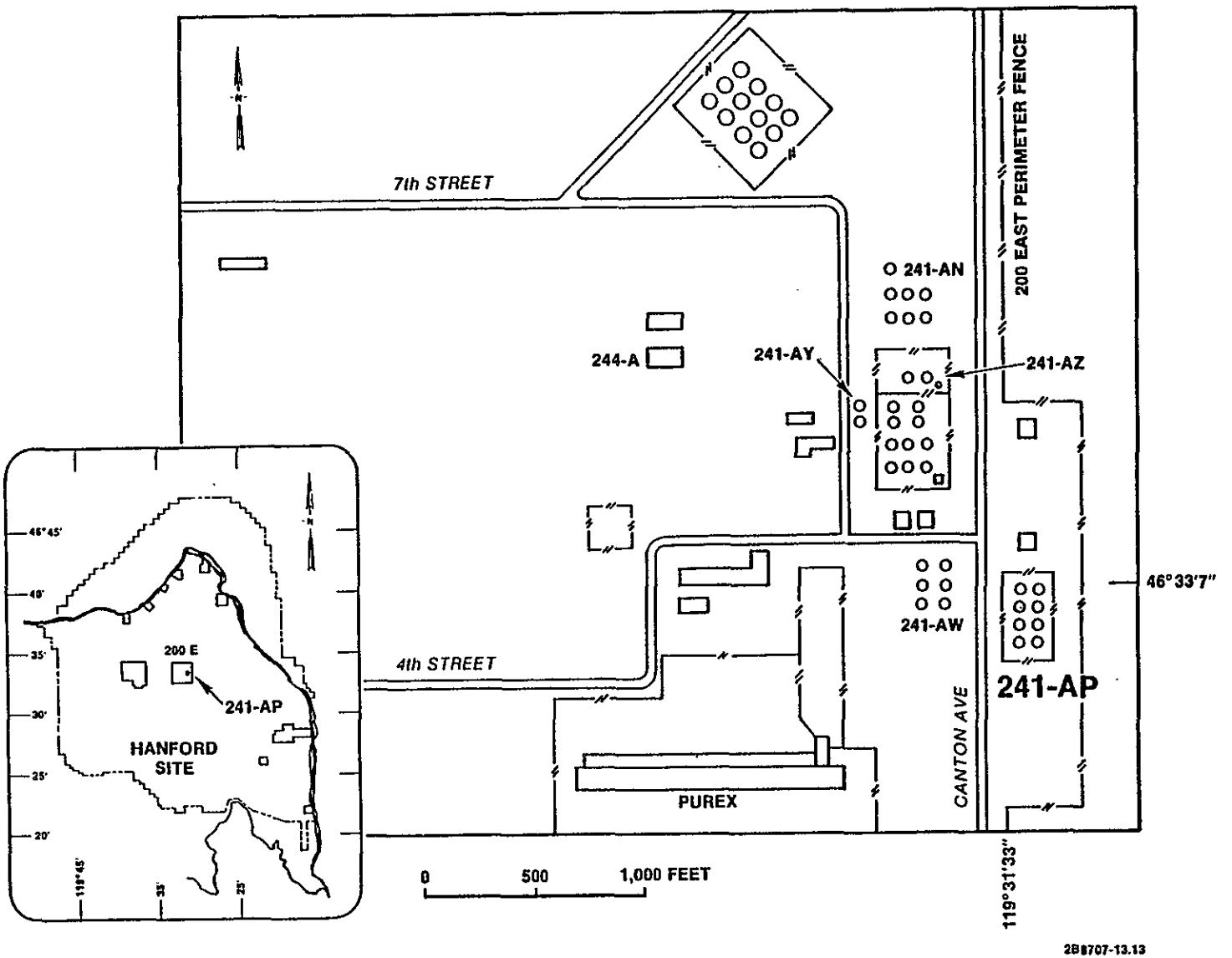
W. M. Jacobi — 11/16/87
William M. Jacobi
President
Westinghouse Hanford Company
Date

9011715155

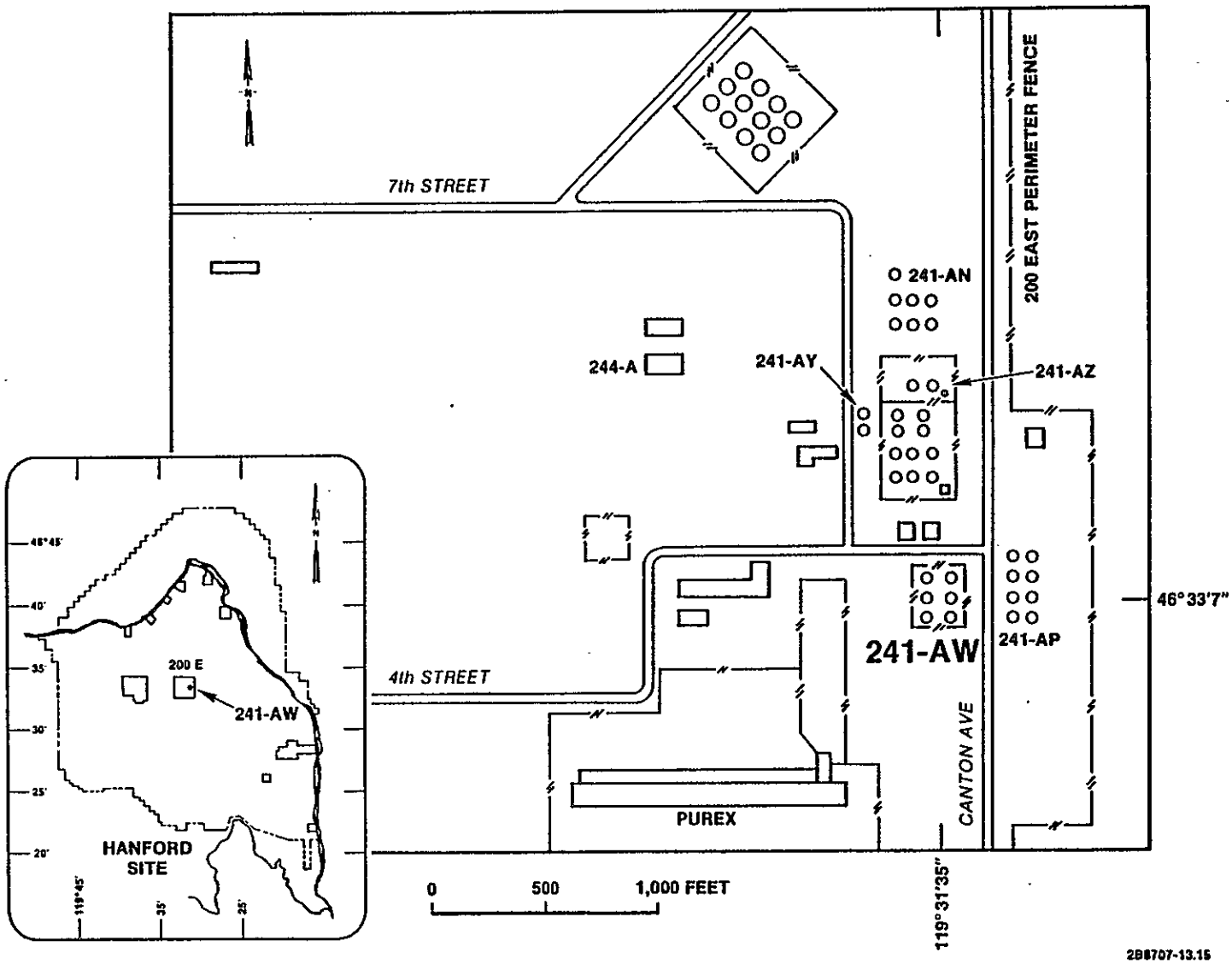
# 241-AN DOUBLE SHELL TANK
## SITE PLAN



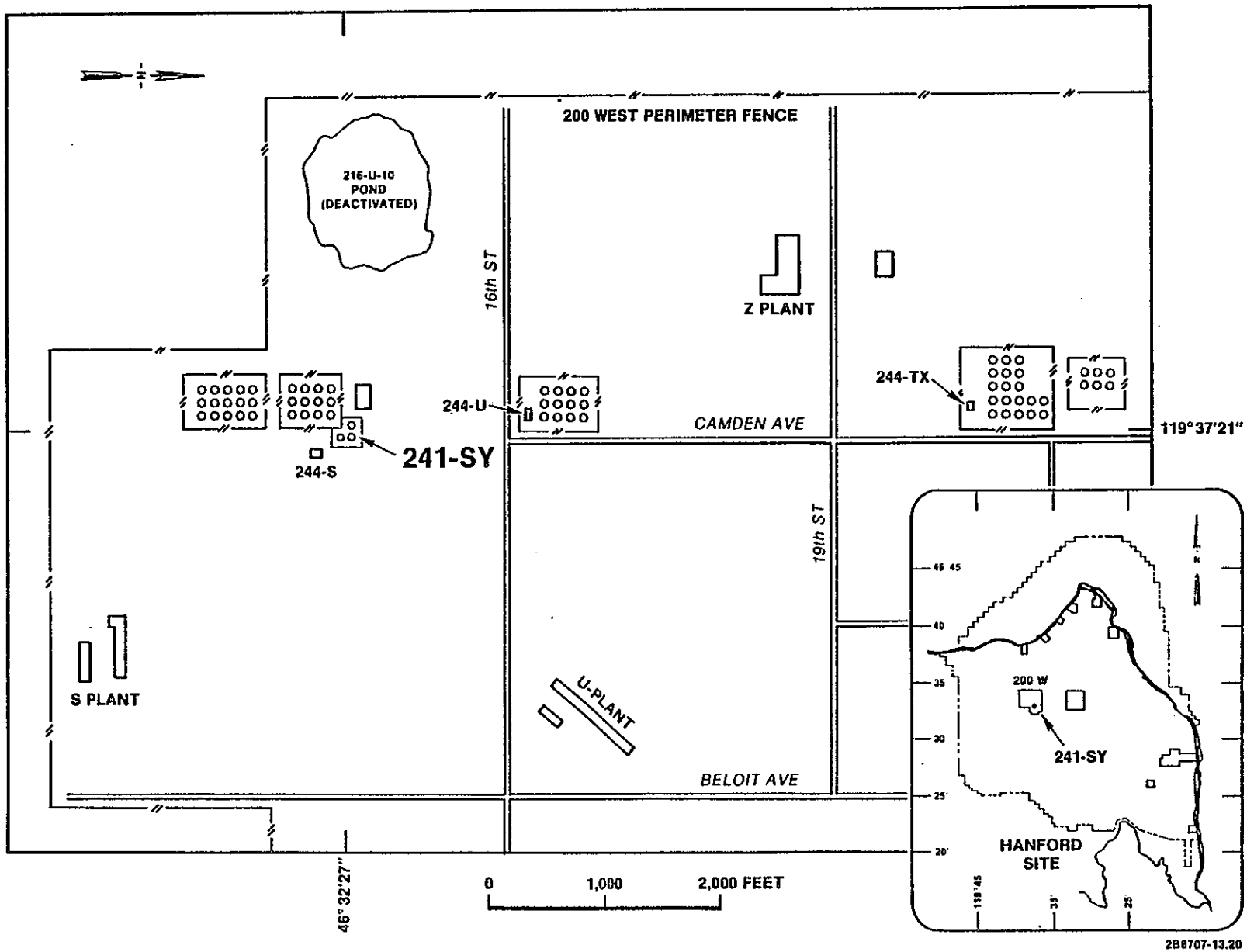
# 241-AP DOUBLE SHELL TANK
## SITE PLAN



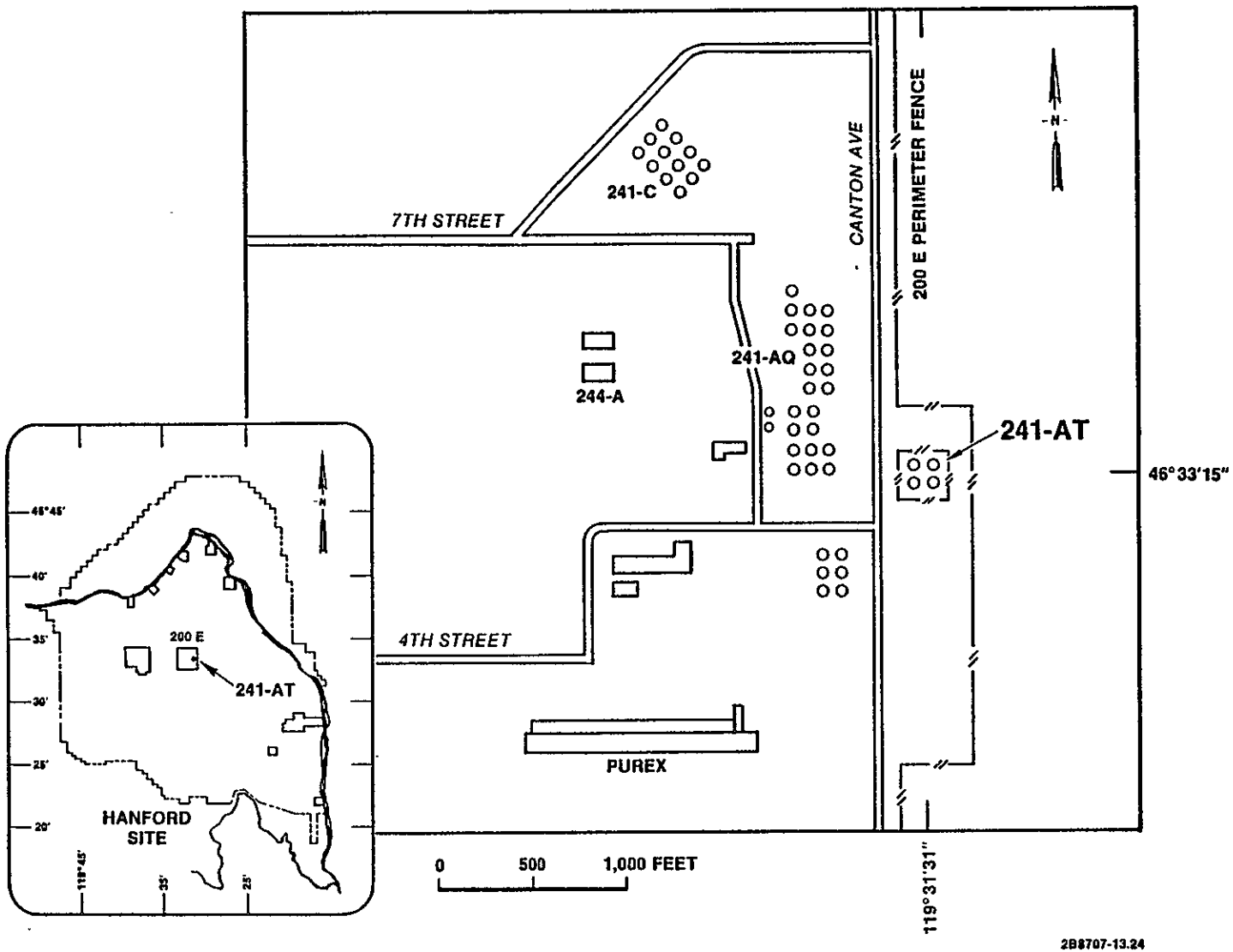
# 241-AW DOUBLE SHELL TANK
## SITE PLAN



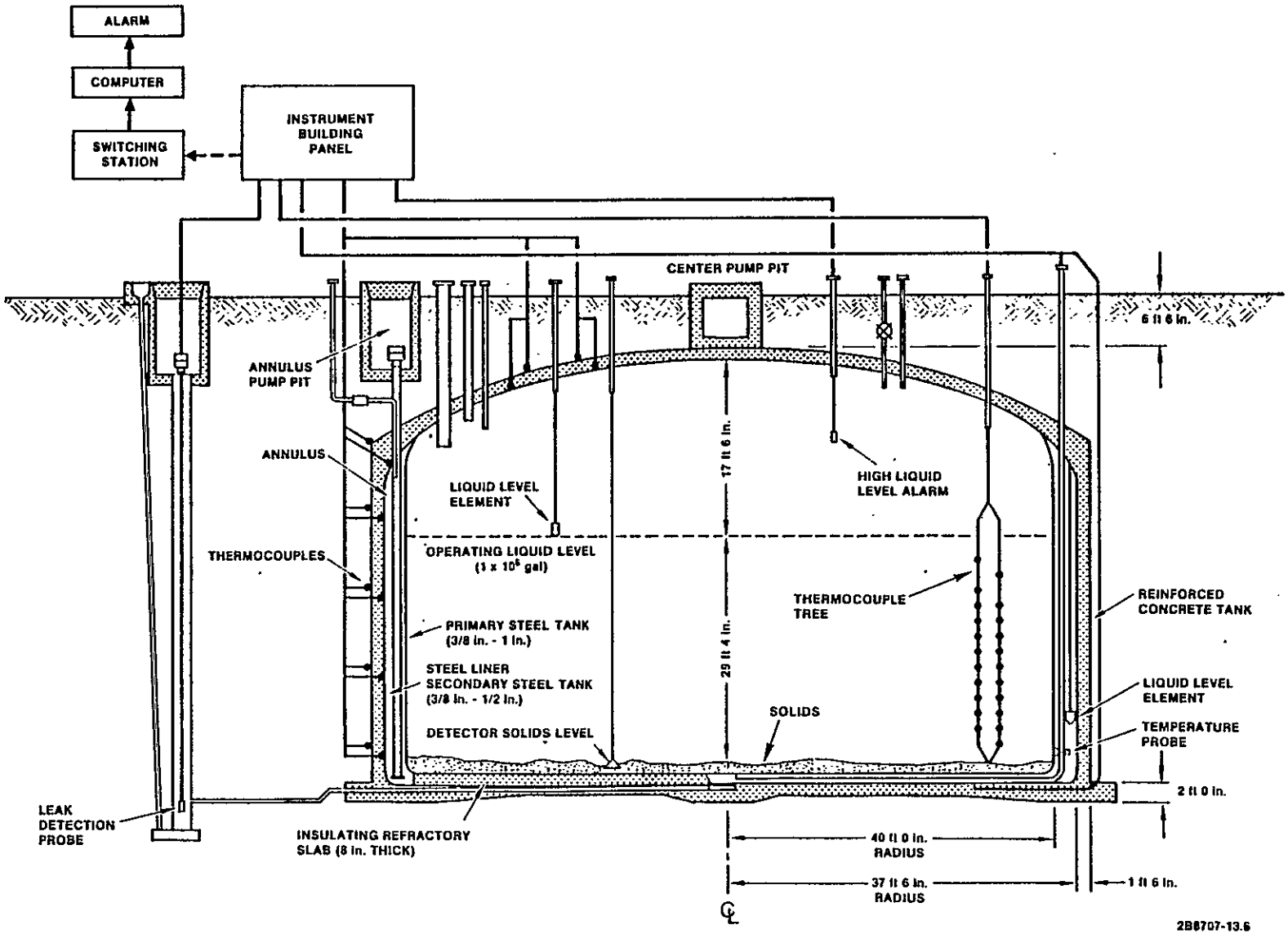
# 241-SY DOUBLE SHELL TANK
## SITE PLAN



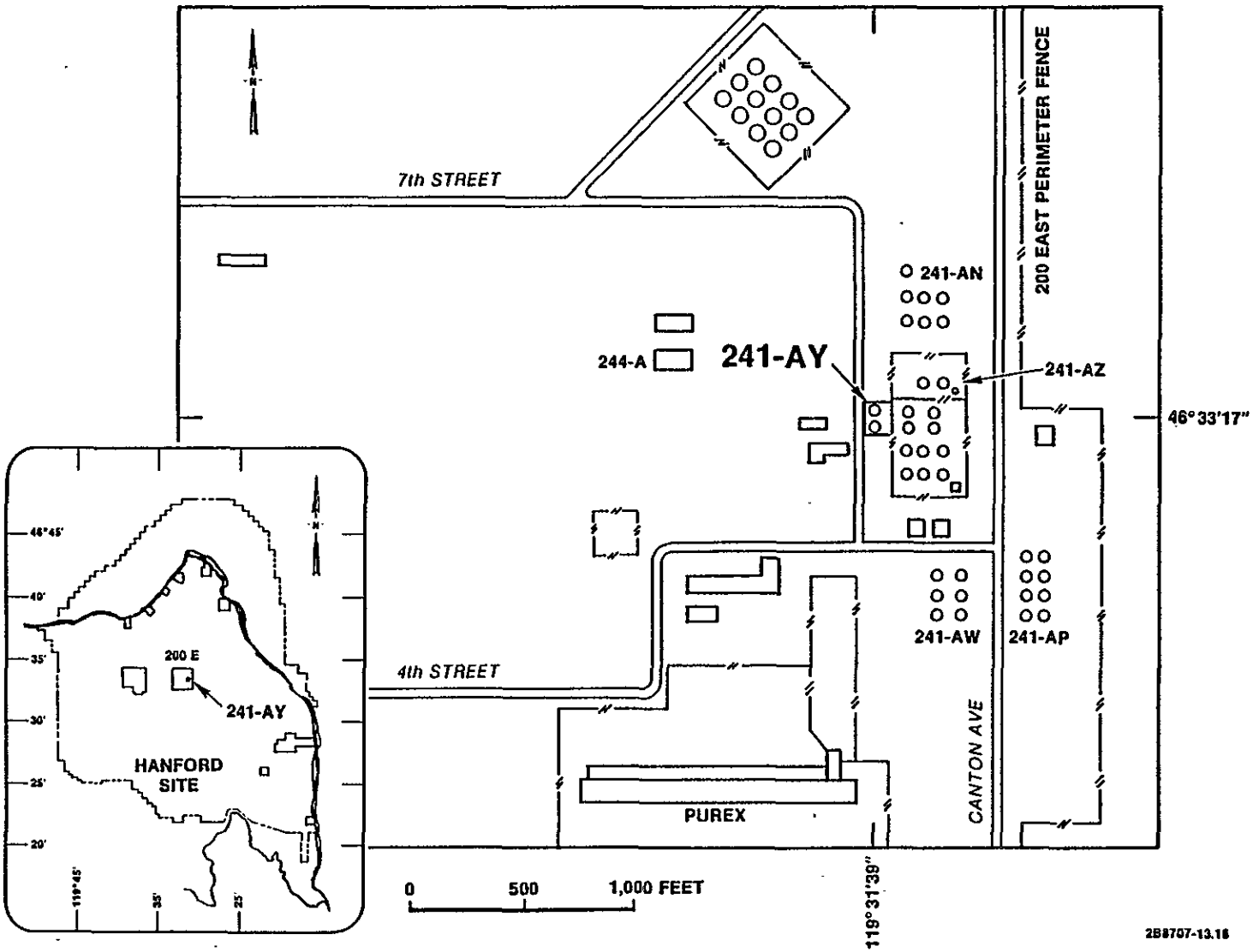
# FUTURE
# 241-AT DOUBLE SHELL TANK
## SITE PLAN



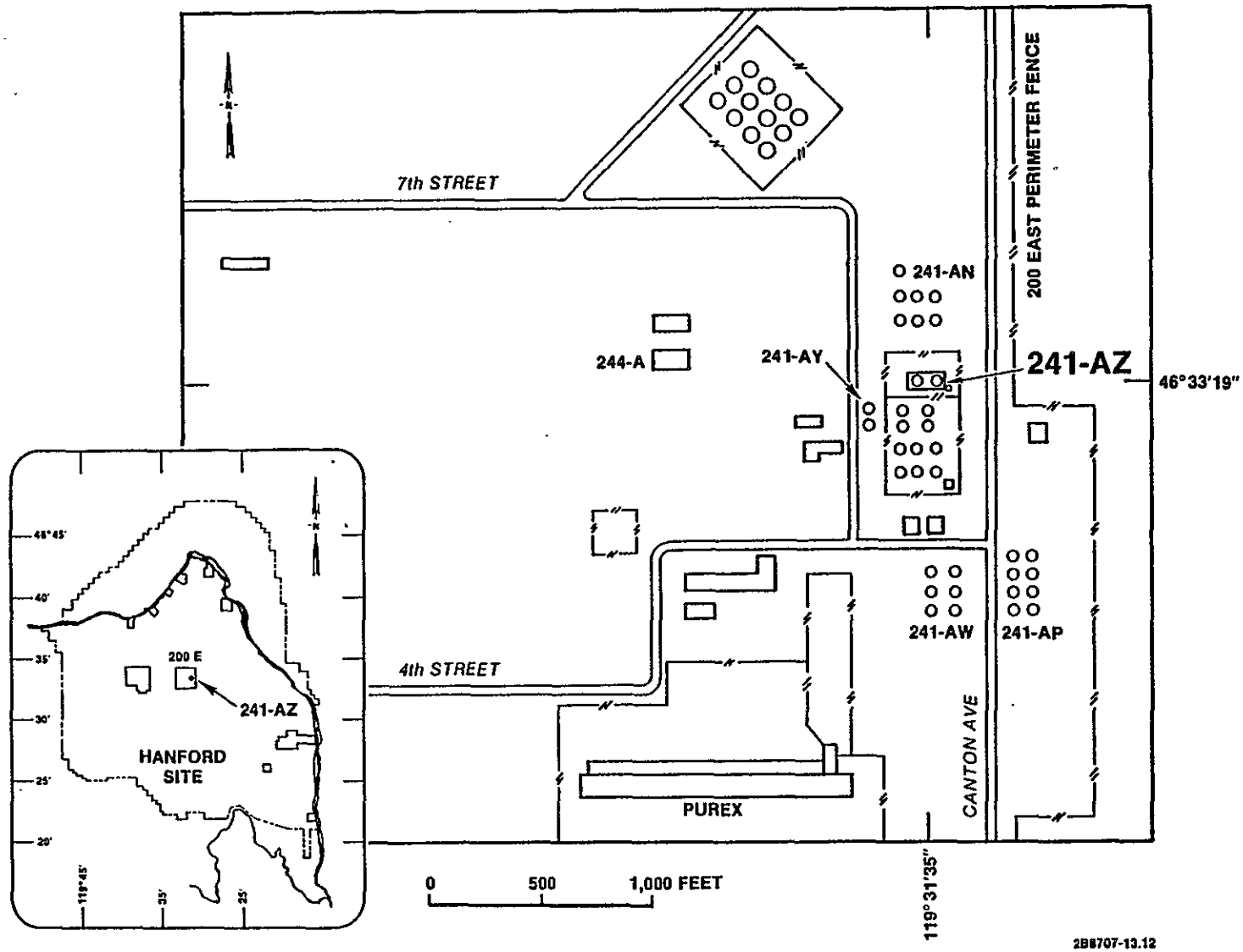
# TYPICAL DOUBLE SHELL TANK



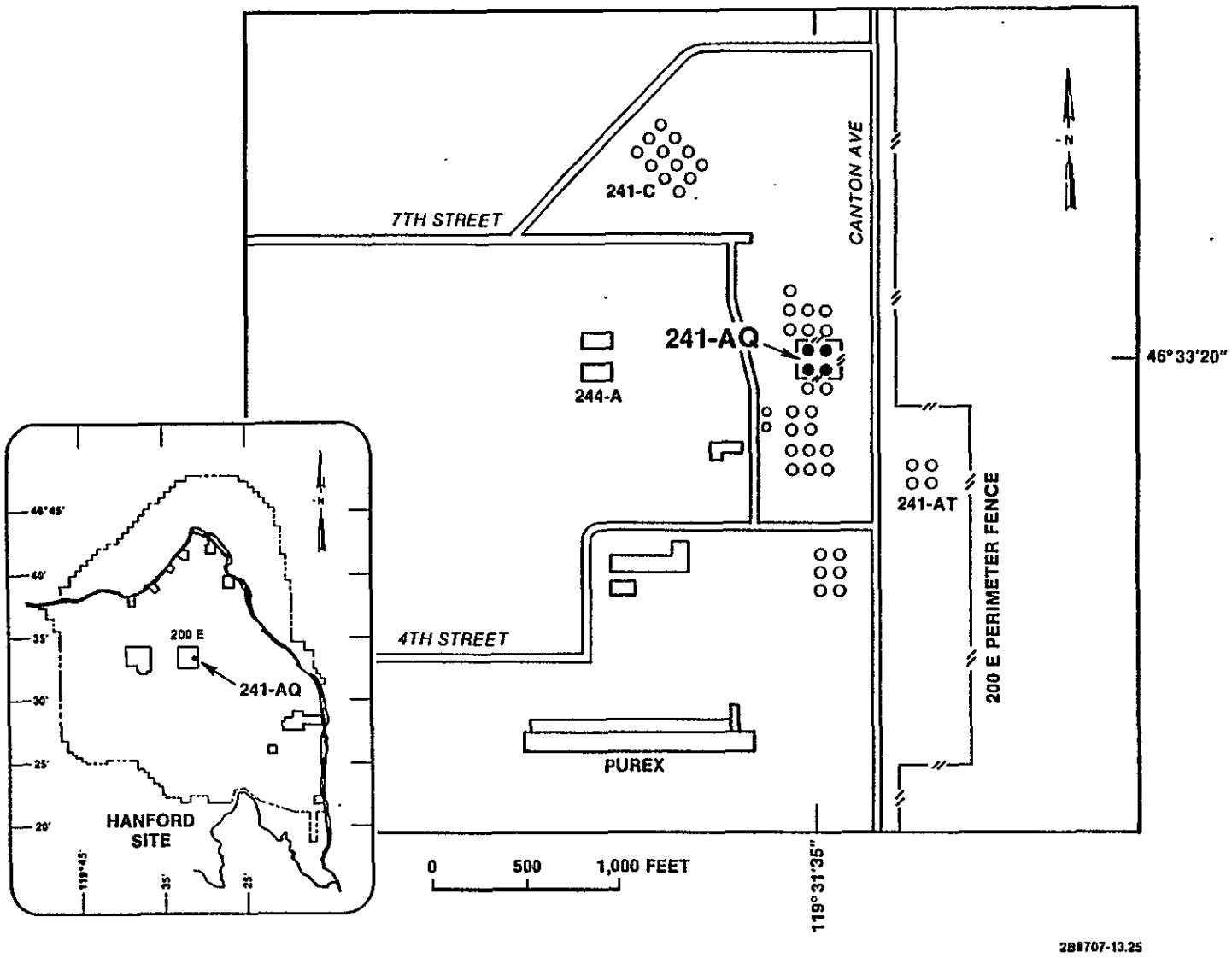
# 241-AY AGING WASTE DOUBLE SHELL TANK
## SITE PLAN



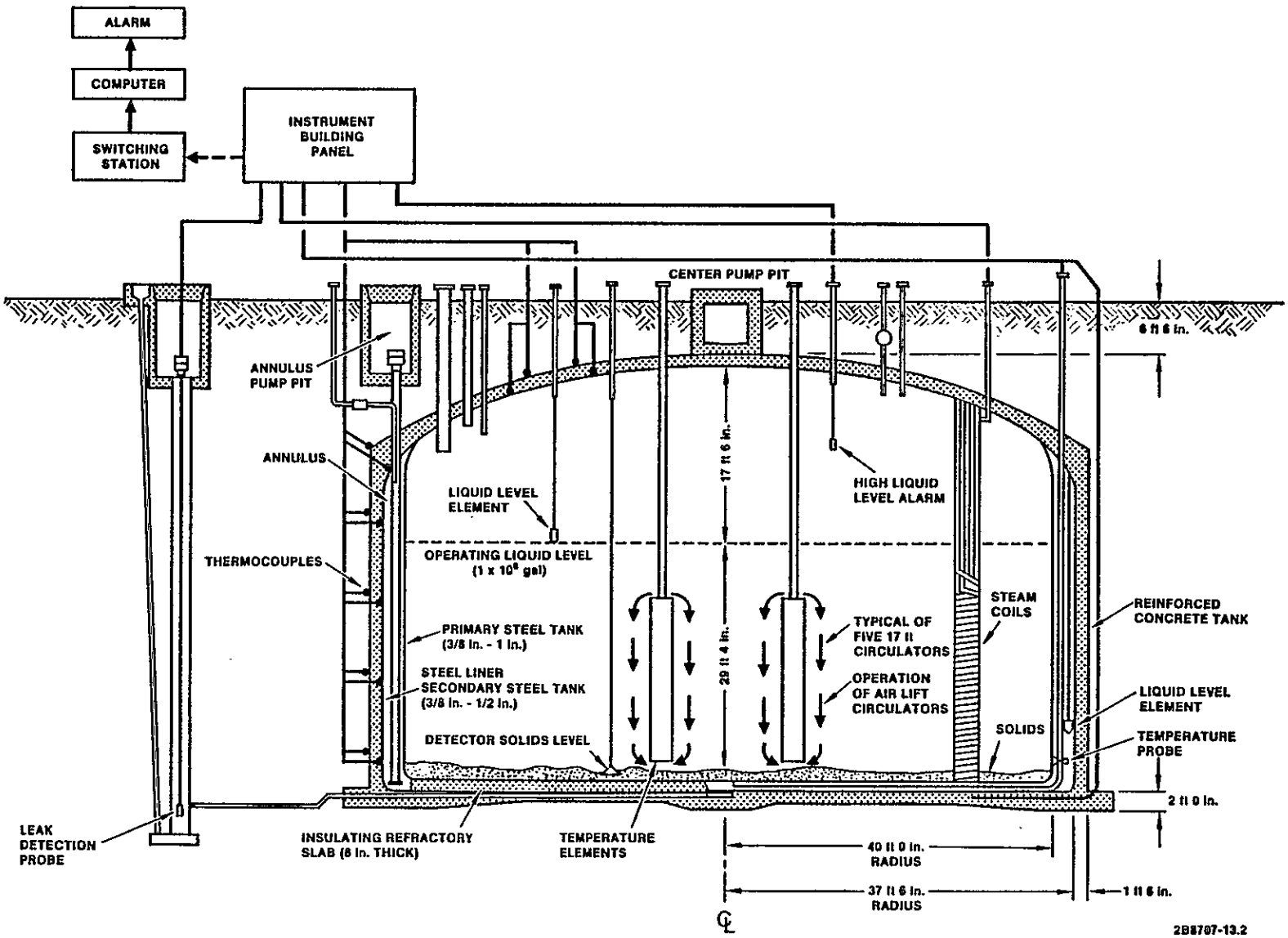
# 241-AZ AGING WASTE DOUBLE SHELL TANK
## SITE PLAN



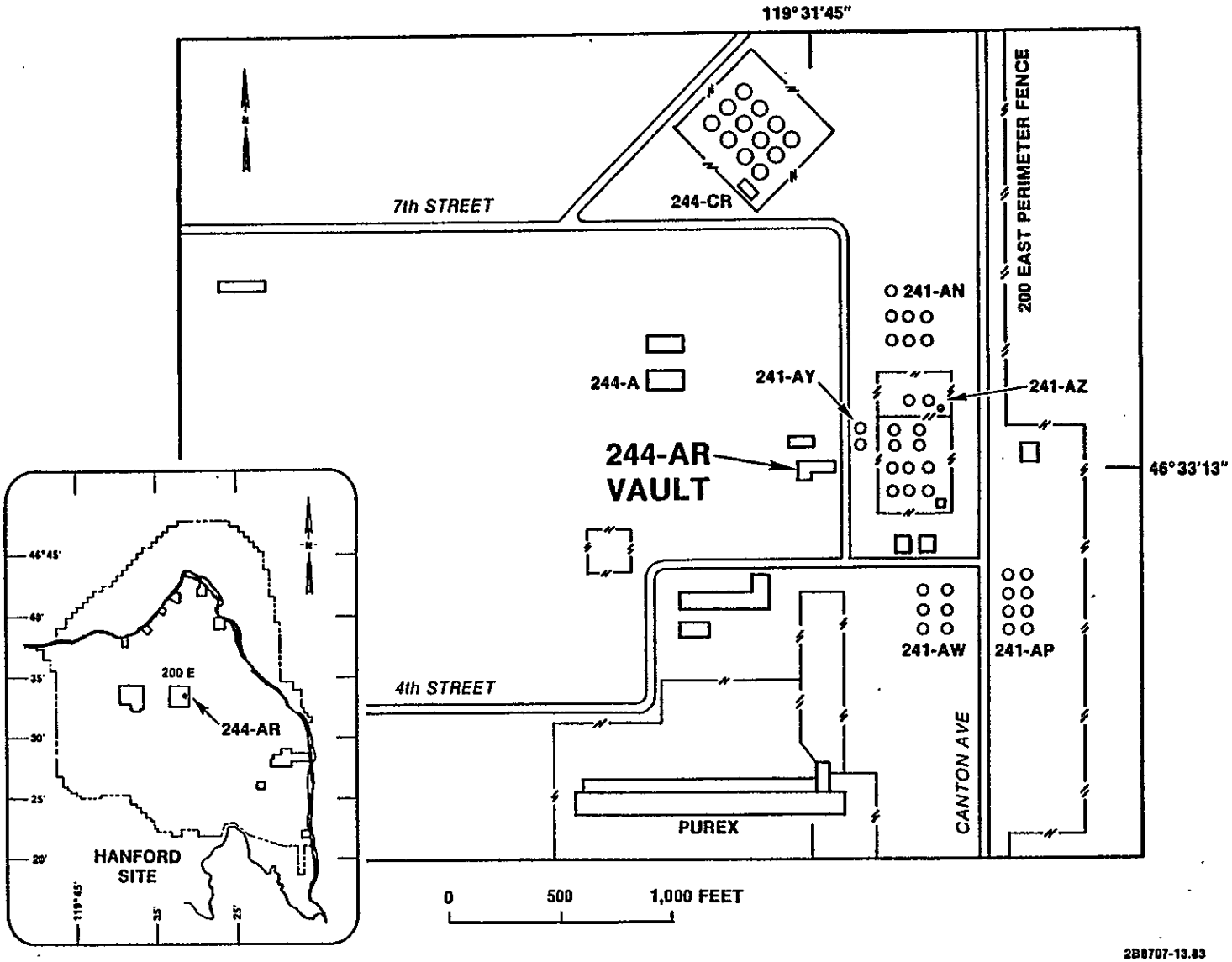
# FUTURE
# 241-AQ AGING WASTE DOUBLE SHELL TANK
## SITE PLAN



# TYPICAL AGING WASTE DOUBLE SHELL TANK

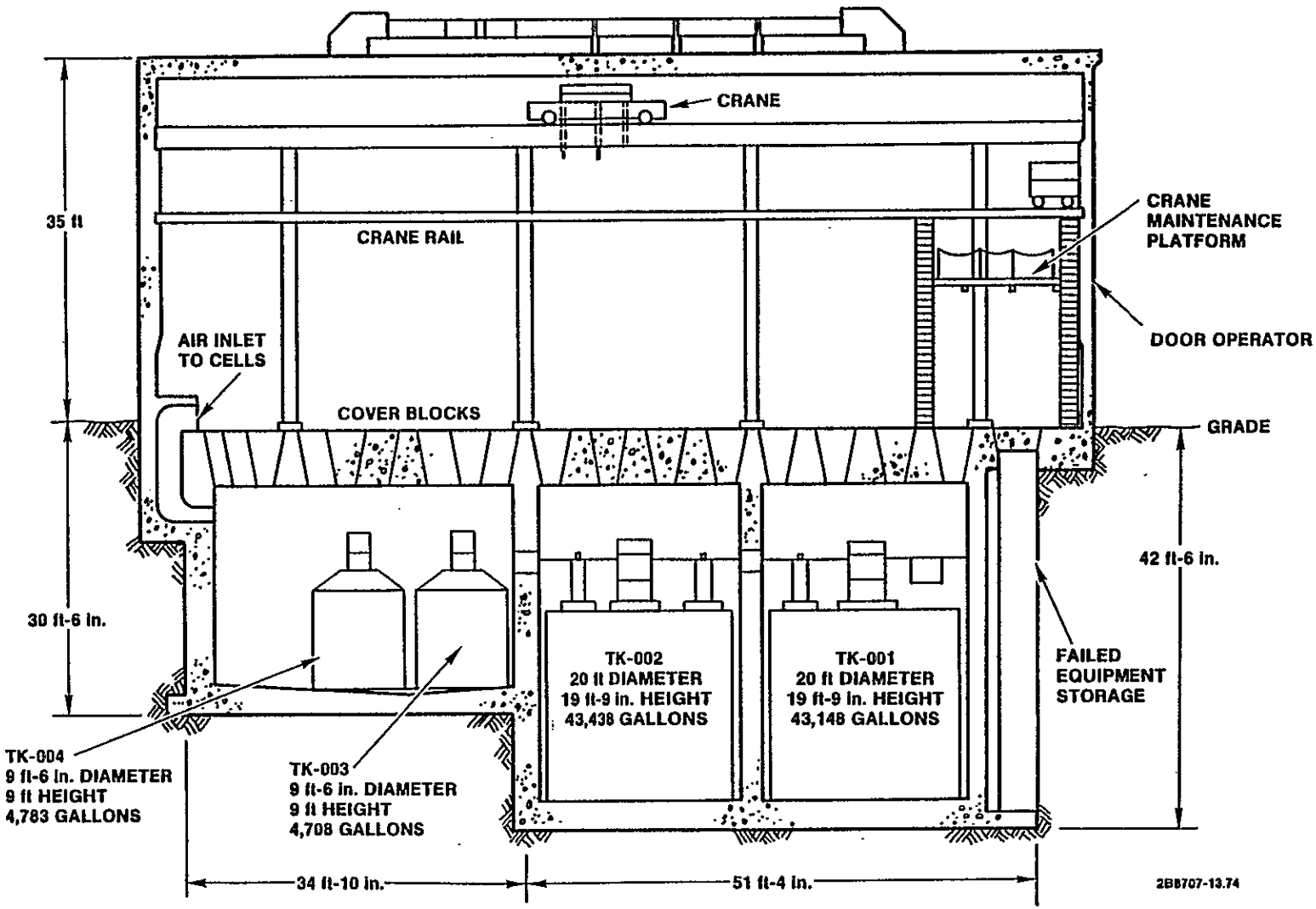


# 244-AR VAULT
## SITE PLAN

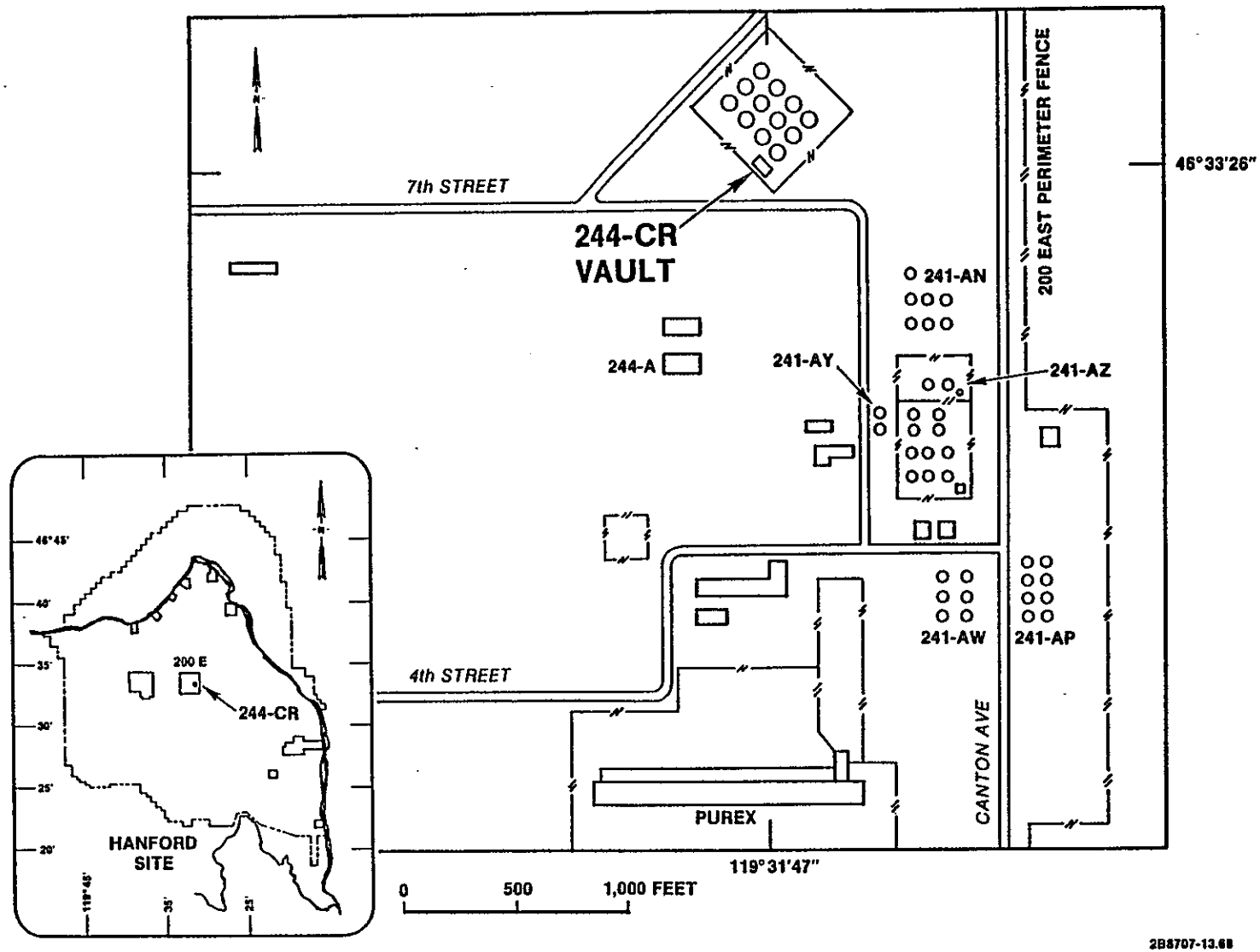



WA7890008967

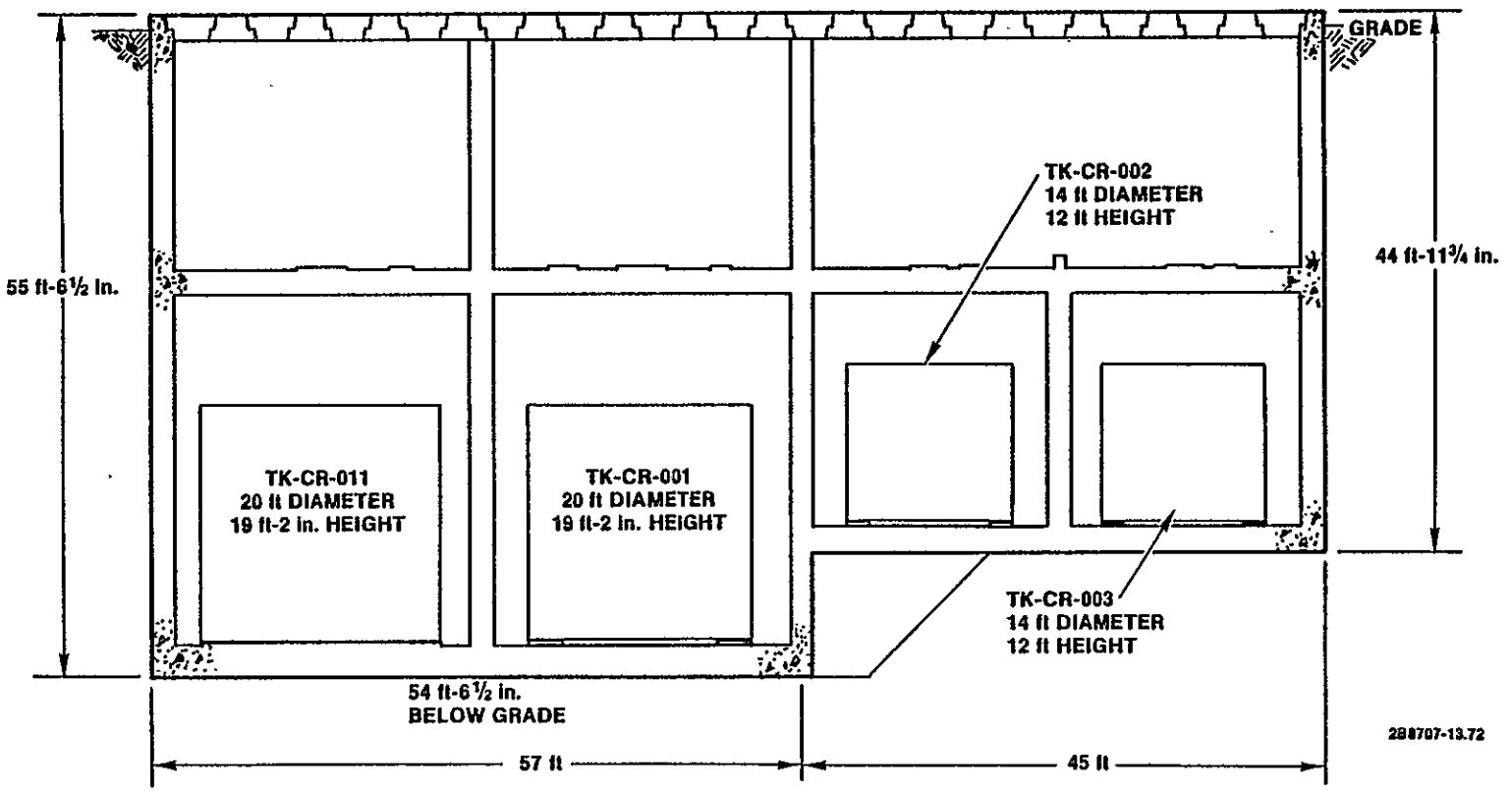
# 244-AR VAULT


CRANE
CRANE RAIL
CRANE MAINTENANCE PLATFORM
DOOR OPERATOR
35 ft
AIR INLET TO CELLS
COVER BLOCKS
GRADE
42 ft-6 in.
30 ft-6 in.
FAILED EQUIPMENT STORAGE
TK-002
20 ft DIAMETER
19 ft-9 in. HEIGHT
43,438 GALLONS
TK-001
20 ft DIAMETER
19 ft-9 in. HEIGHT
43,148 GALLONS
TK-004
9 ft-6 in. DIAMETER
9 ft HEIGHT
4,783 GALLONS
TK-003
9 ft-6 in. DIAMETER
9 ft HEIGHT
4,708 GALLONS
34 ft-10 in.
51 ft-4 in.
2B8707-13.74

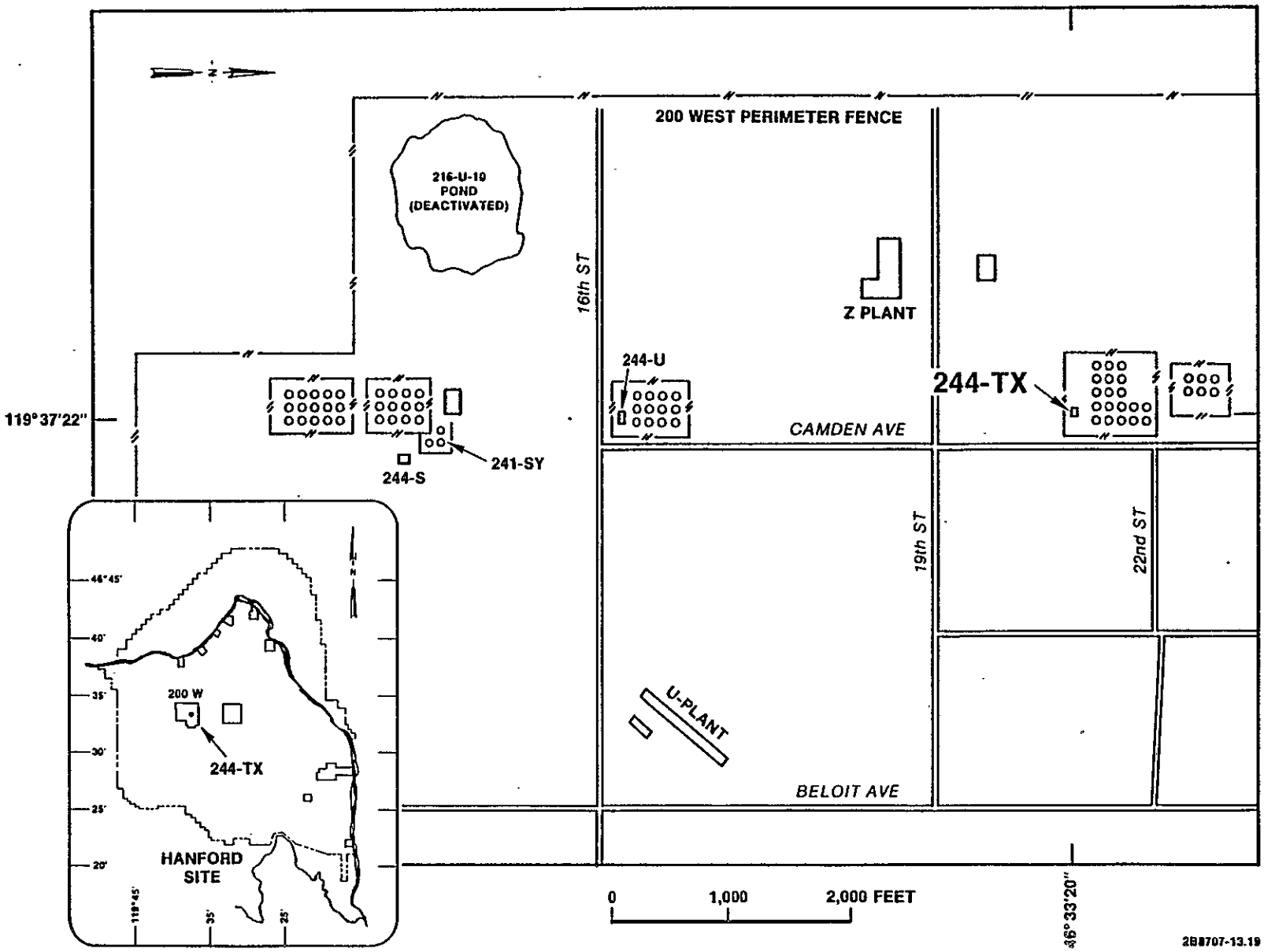
# 244-CR VAULT
## SITE PLAN



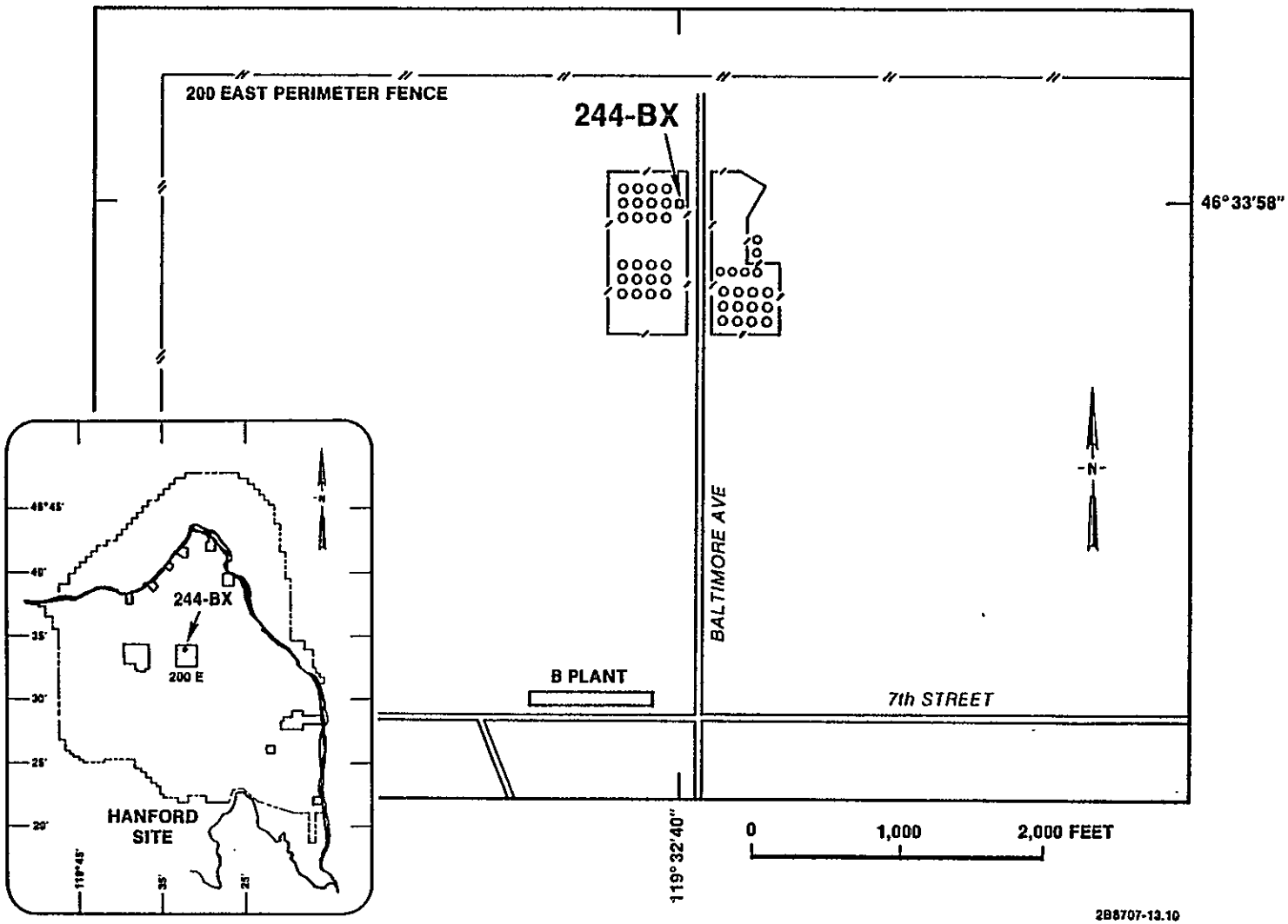
# 244-CR VAULT


GRADE
TK-CR-002
14 ft DIAMETER
12 ft HEIGHT
44 ft-11¾ in.
55 ft-6½ in.
TK-CR-011
20 ft DIAMETER
19 ft-2 in. HEIGHT
TK-CR-001
20 ft DIAMETER
19 ft-2 in. HEIGHT
TK-CR-003
14 ft DIAMETER
12 ft HEIGHT
54 ft-6½ in.
BELOW GRADE
57 ft
45 ft
298707-13.72

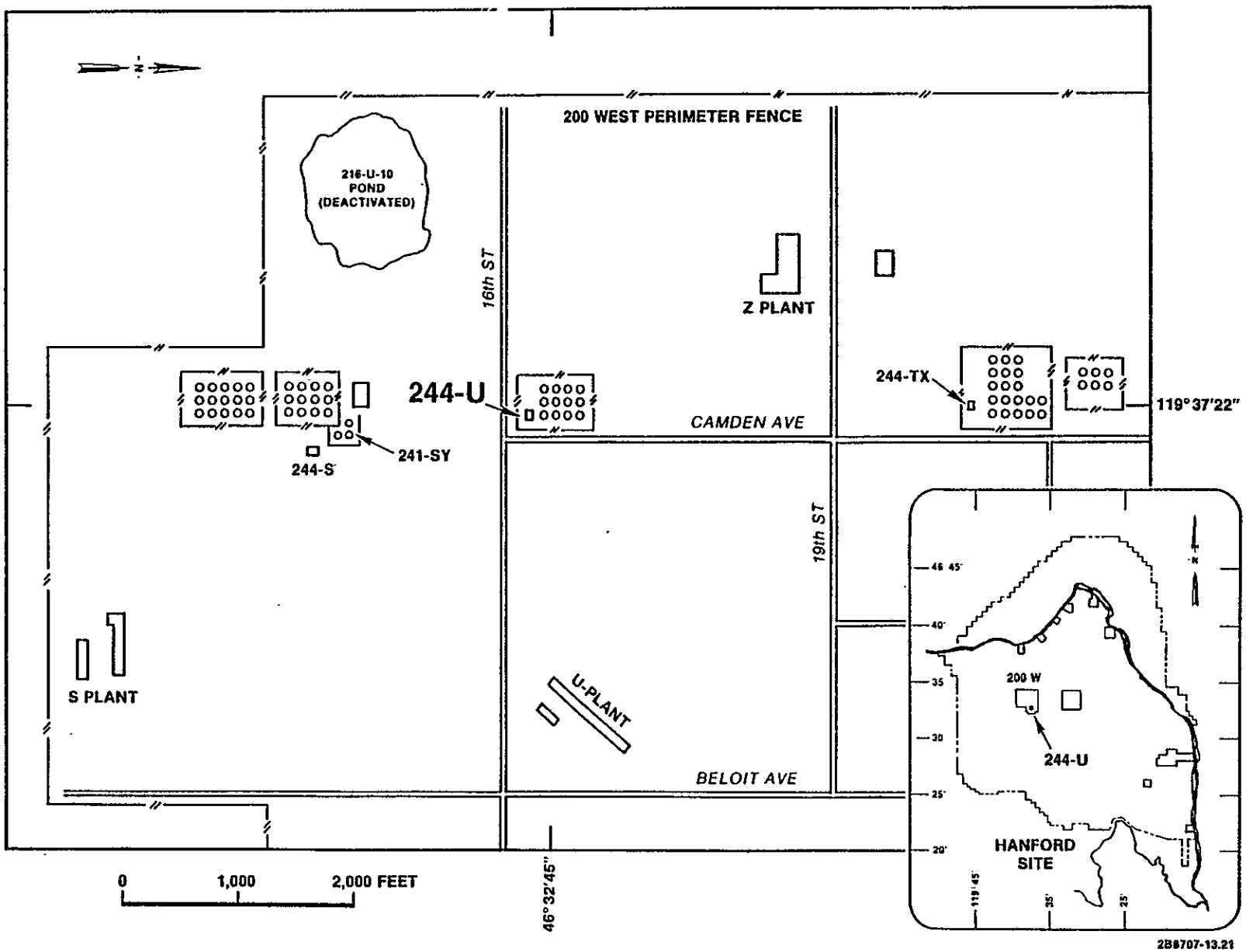
# 244-TX DOUBLE CONTAINED RECEIVER TANK
## SITE PLAN



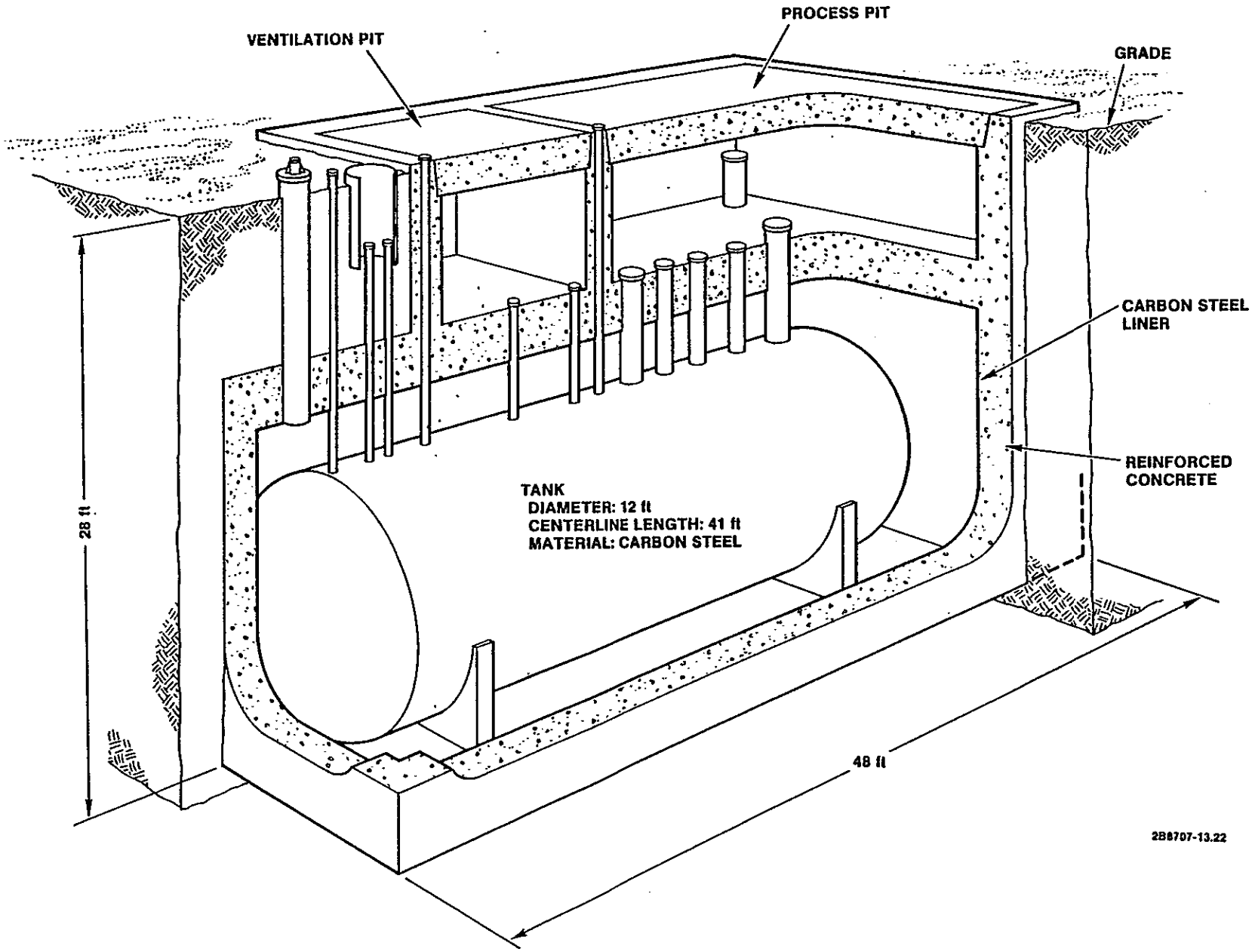
# 244-BX DOUBLE CONTAINED RECEIVER TANK
## SITE PLAN



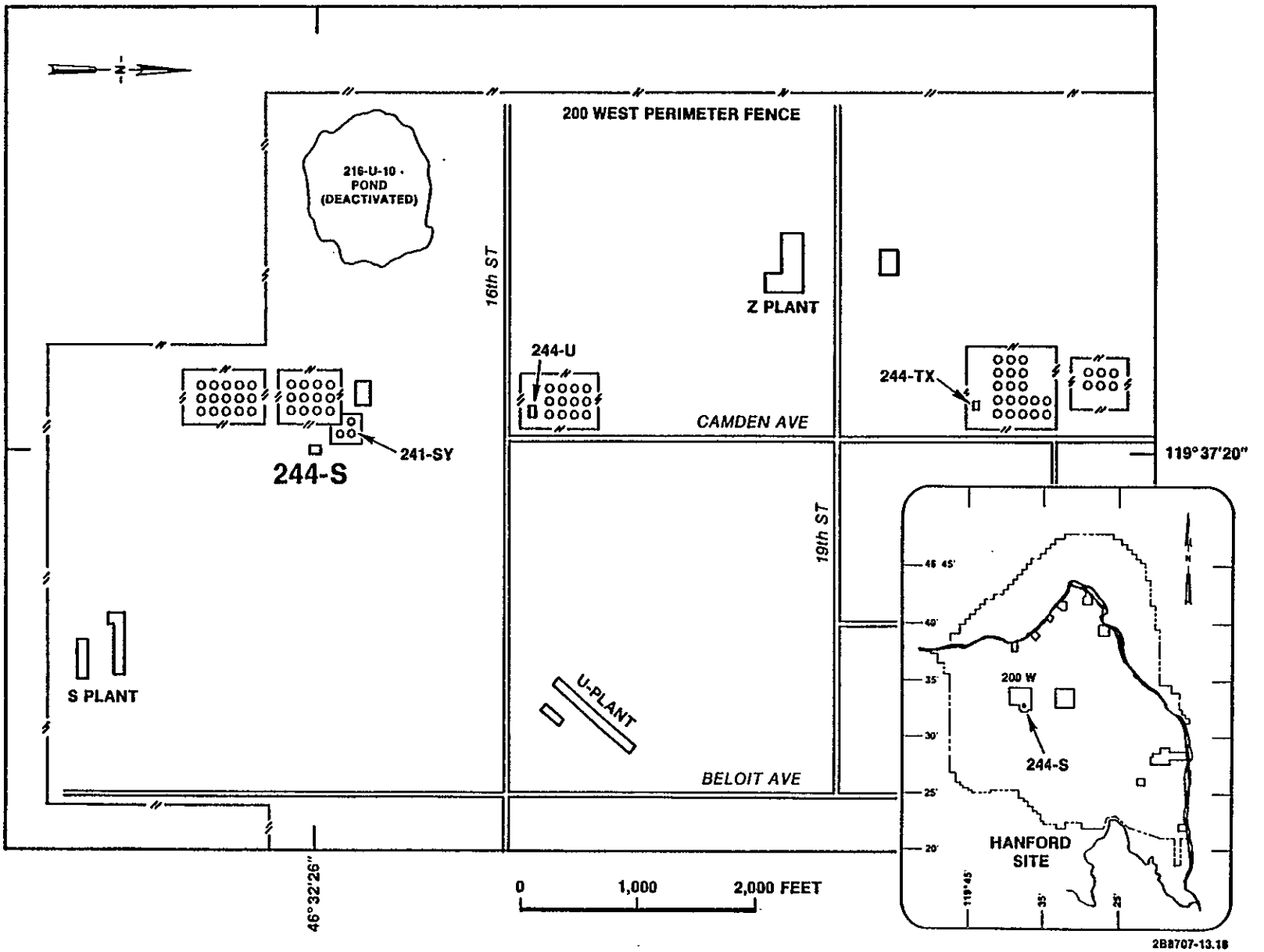
# 244-U DOUBLE CONTAINED RECEIVER TANK
## SITE PLAN



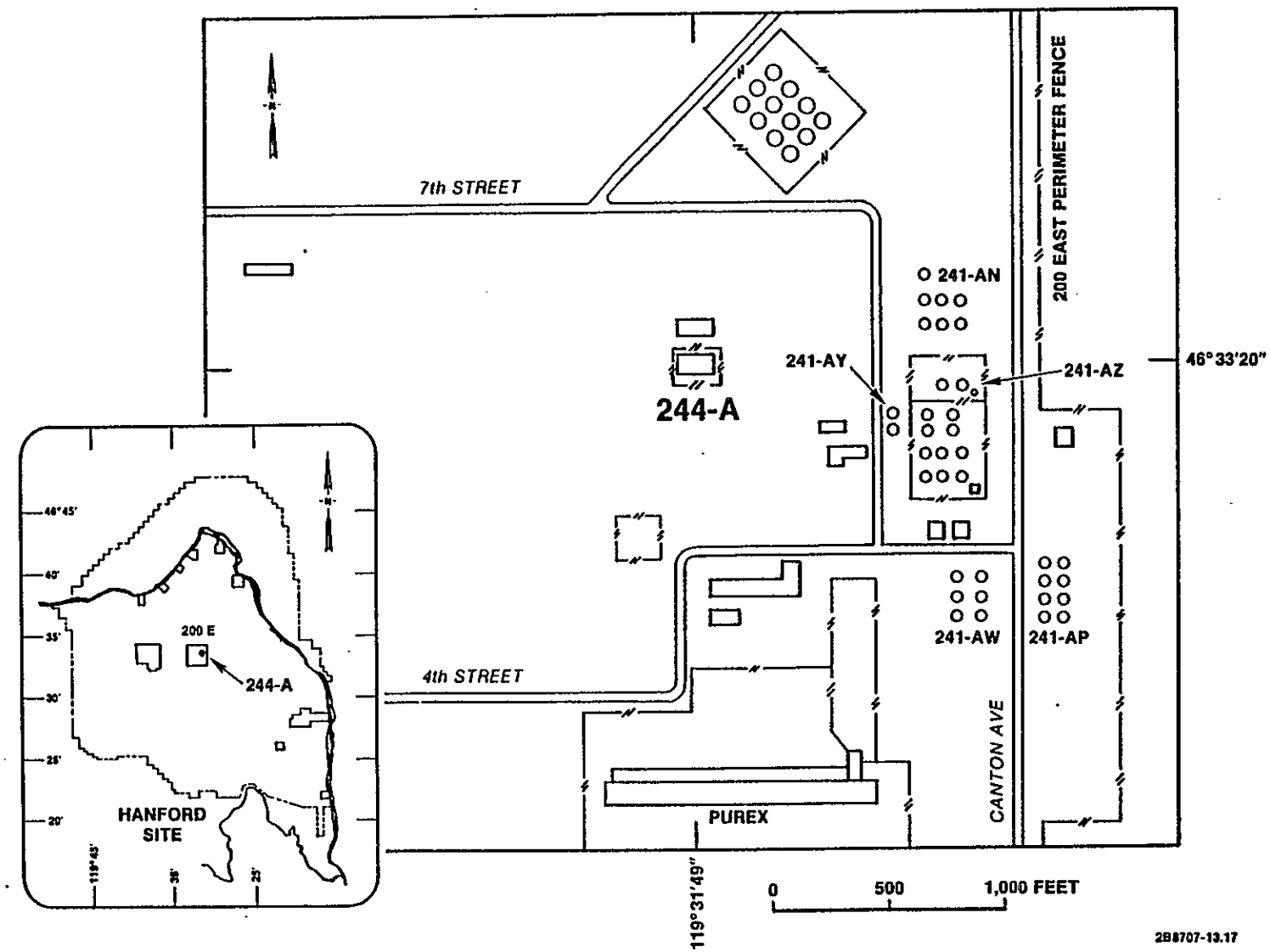
# TYPICAL DOUBLE CONTAINED RECEIVER TANK



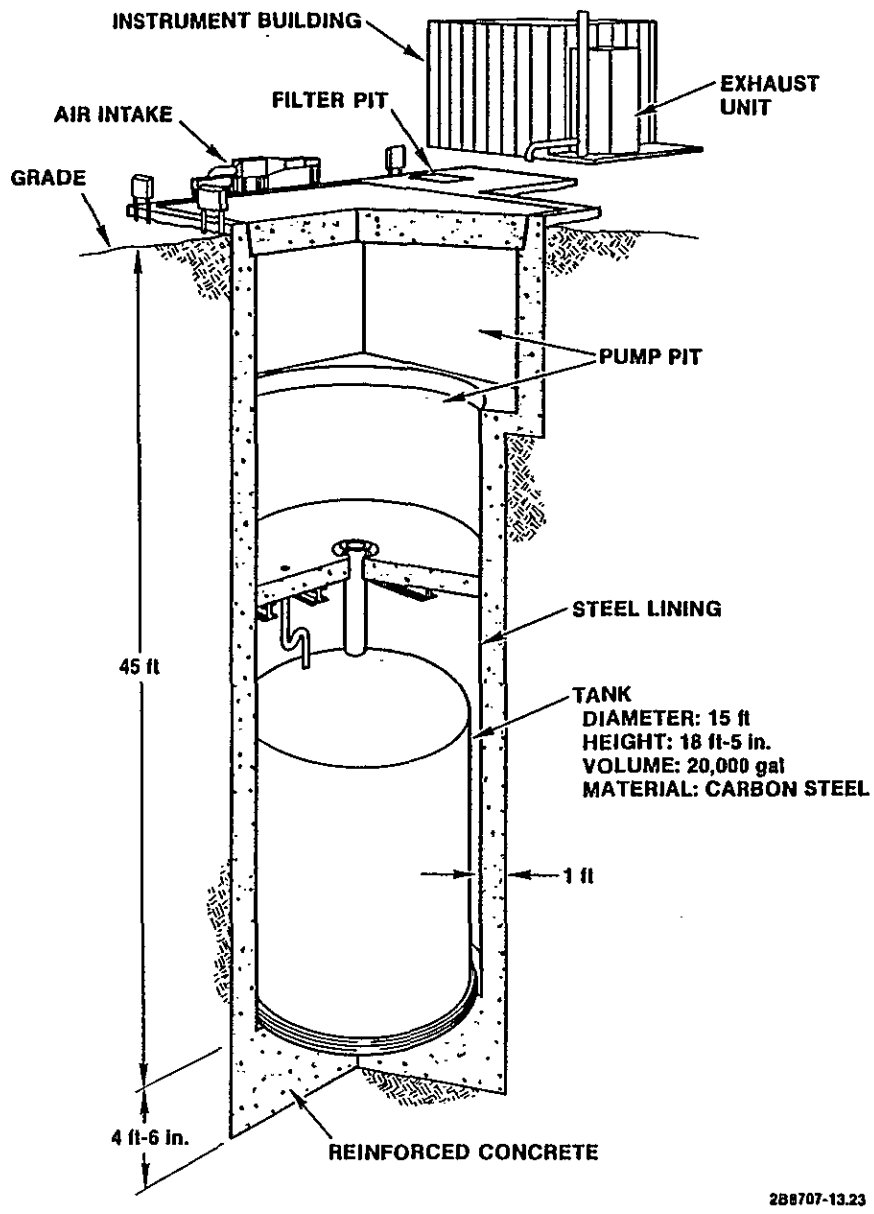
# 244-S DOUBLE CONTAINED RECEIVER TANK
## SITE PLAN



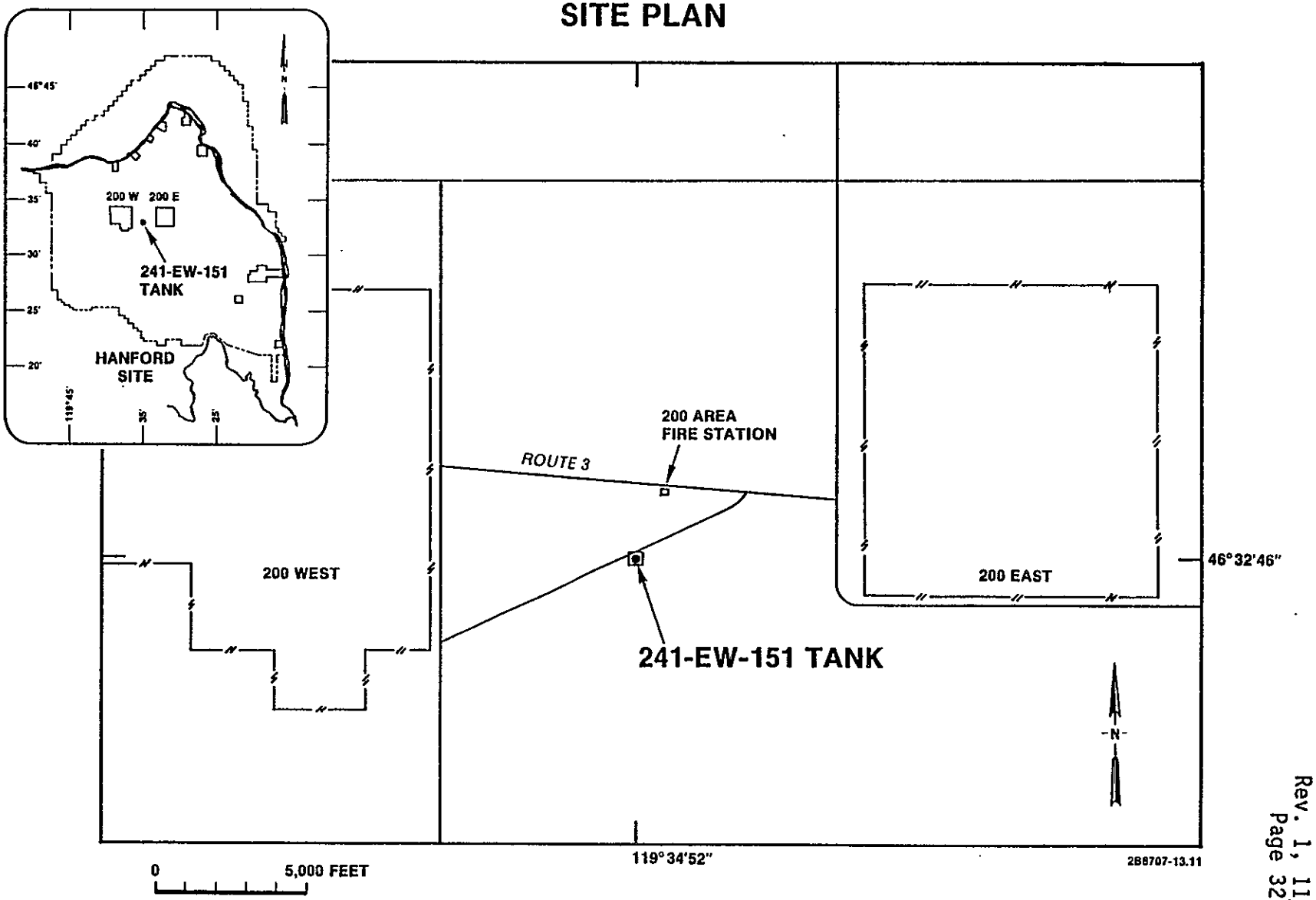
# 244-A DOUBLE CONTAINED RECEIVER TANK
## SITE PLAN



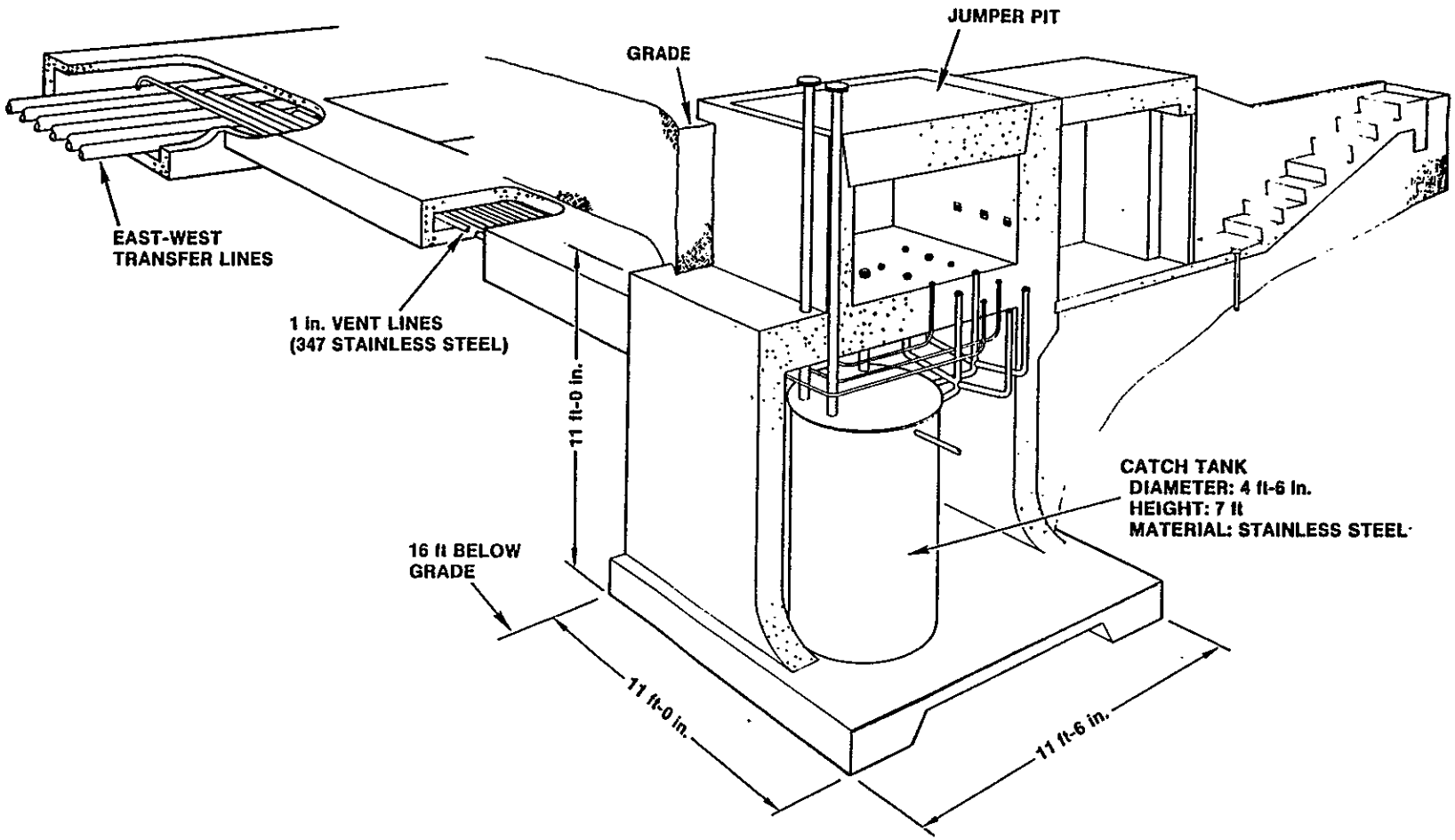
# TYPICAL DOUBLE CONTAINED RECEIVER TANK



# 241-EW-151 TANK
## (200 AREA EAST-WEST VENT STATION)
## SITE PLAN

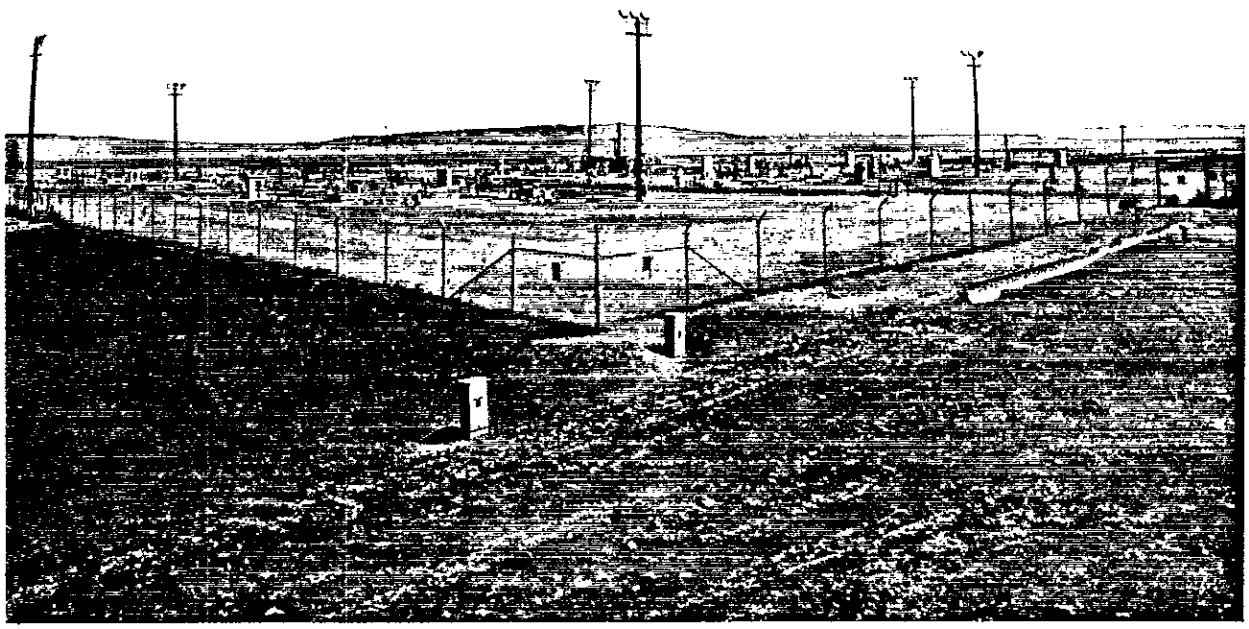


# 241-EW-151 TANK
## (200 AREA EAST-WEST VENT STATION)




2B8707-13.42

# 241-AN DOUBLE SHELL TANK



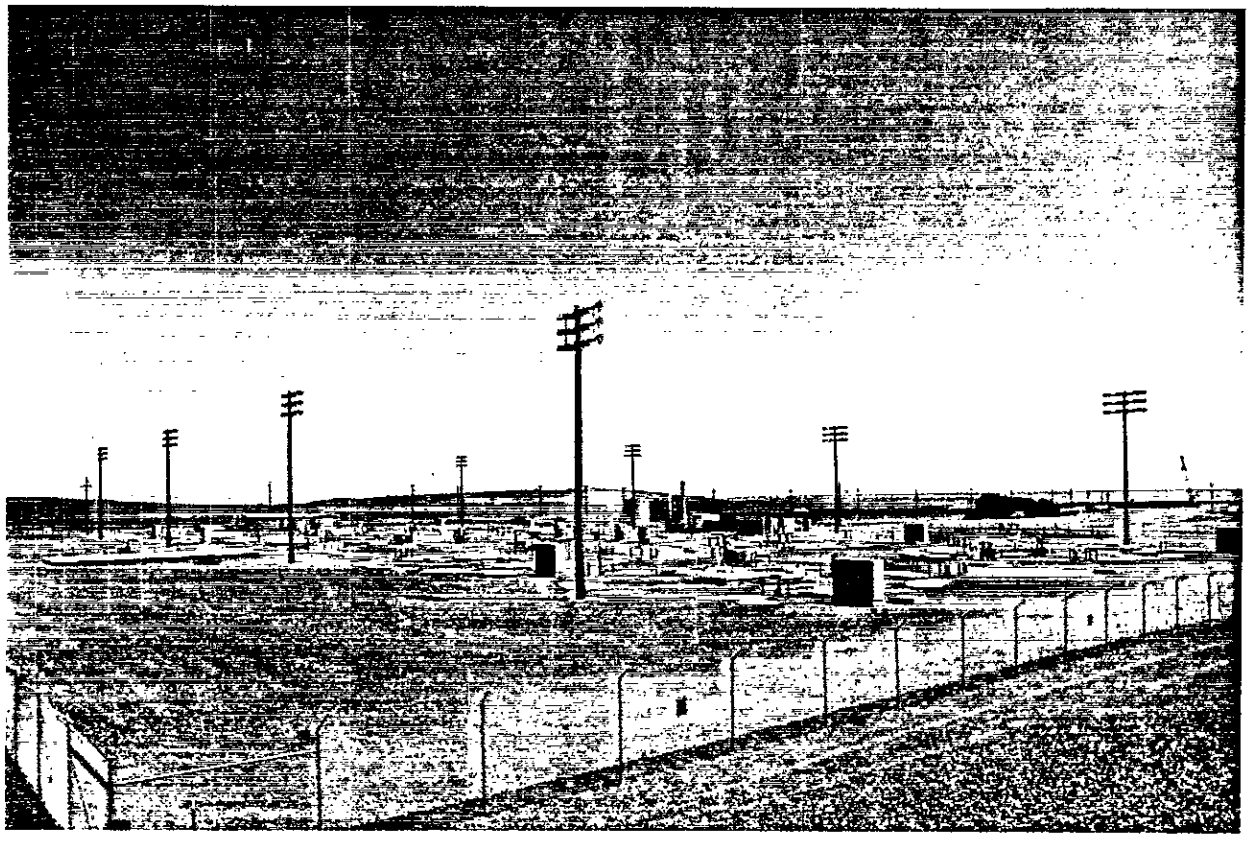
46°33'25"
119°31'37"

8704135-8CN

(PHOTO TAKEN 1987)

2B8707-13.58

# 241-AP DOUBLE SHELL TANK



46°33'7"
119°31'38"

8704135-12CN

(PHOTO TAKEN 1987)

2B8707-13.60

# 241-AW DOUBLE SHELL TANK

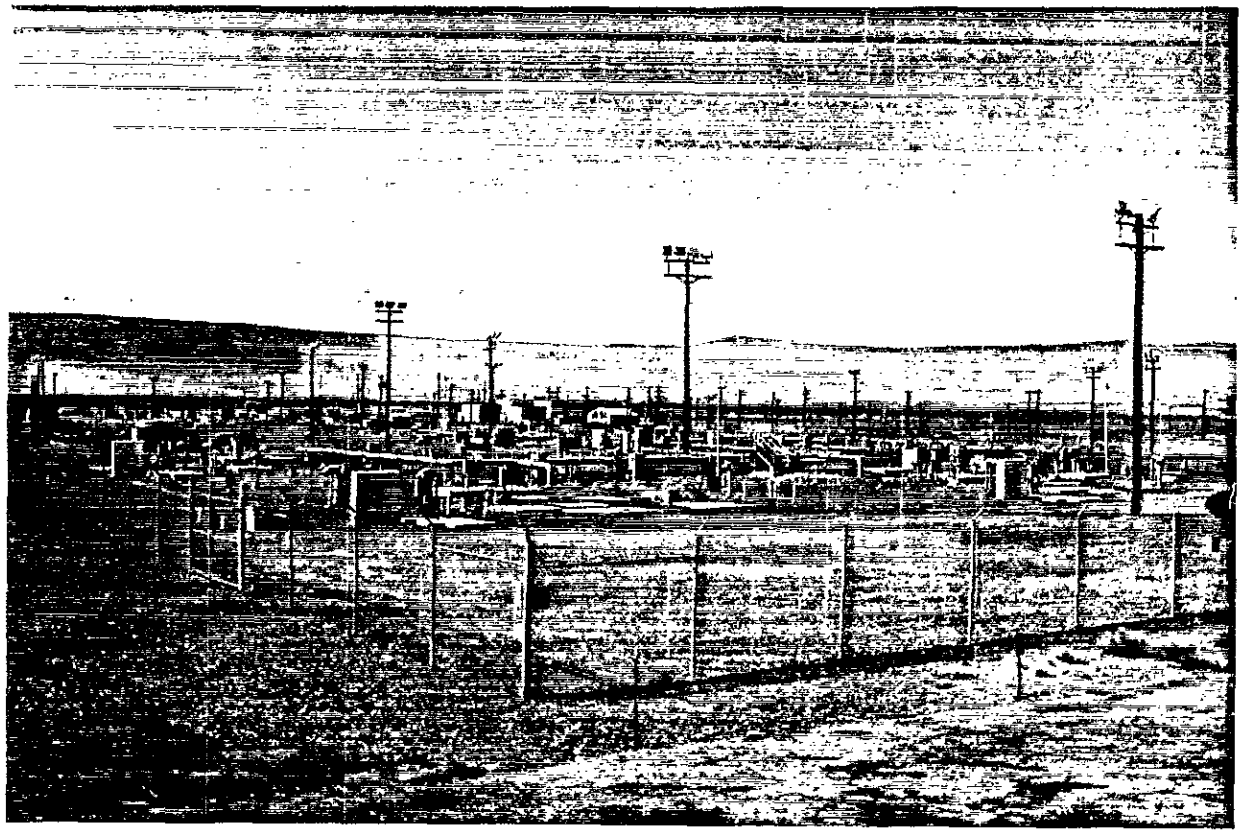
46°33'7"
119°31'35"

8704135-11CN

(PHOTO TAKEN 1987)

2B8707-13.57

# 241-SY DOUBLE SHELL TANK



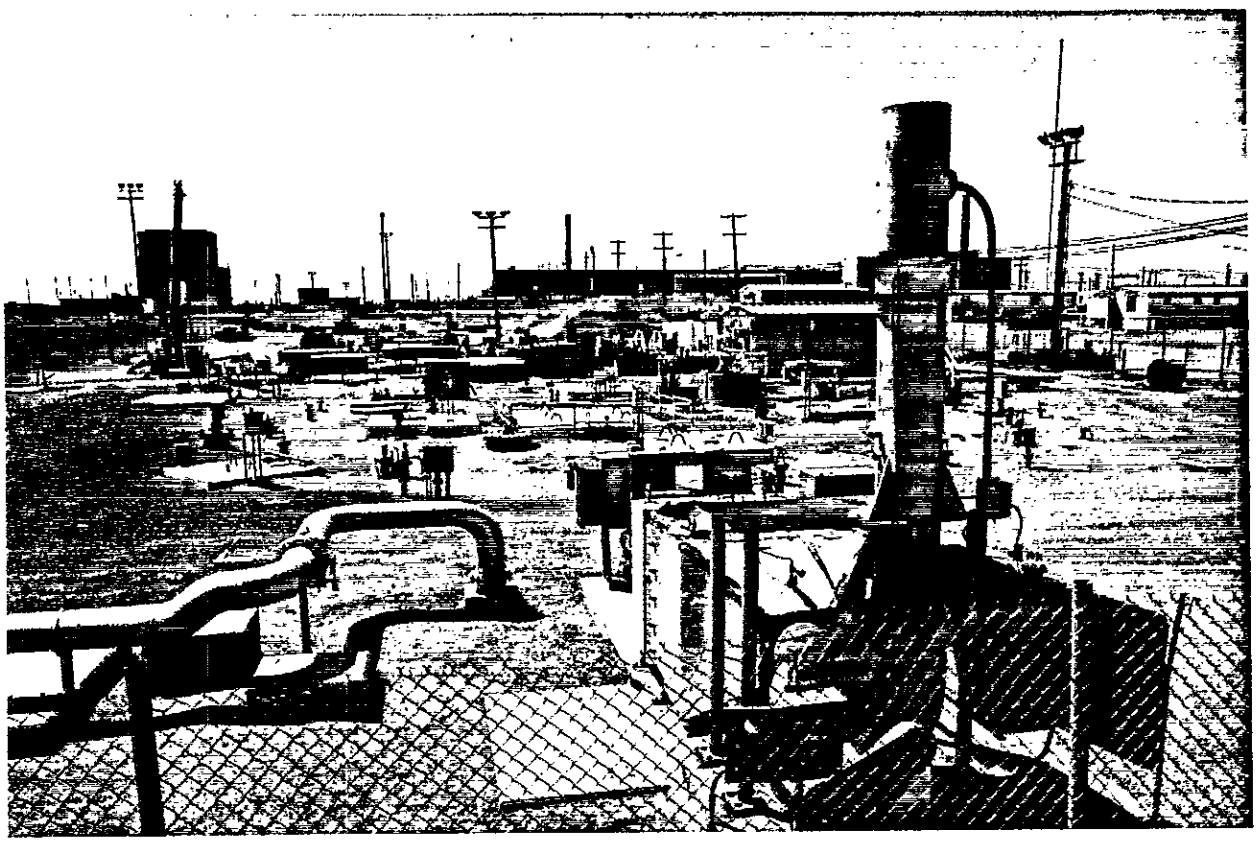
46°32'27"
119°37'21"

8704135-2CN

(PHOTO TAKEN 1987)

2B8707-13.66

# 241-AY AGING WASTE DOUBLE SHELL TANK



46°33'17"
119°31'39"

8704135-10CN

(PHOTO TAKEN 1987)

2B8707-13.64

# 241-AZ AGING WASTE DOUBLE SHELL TANK

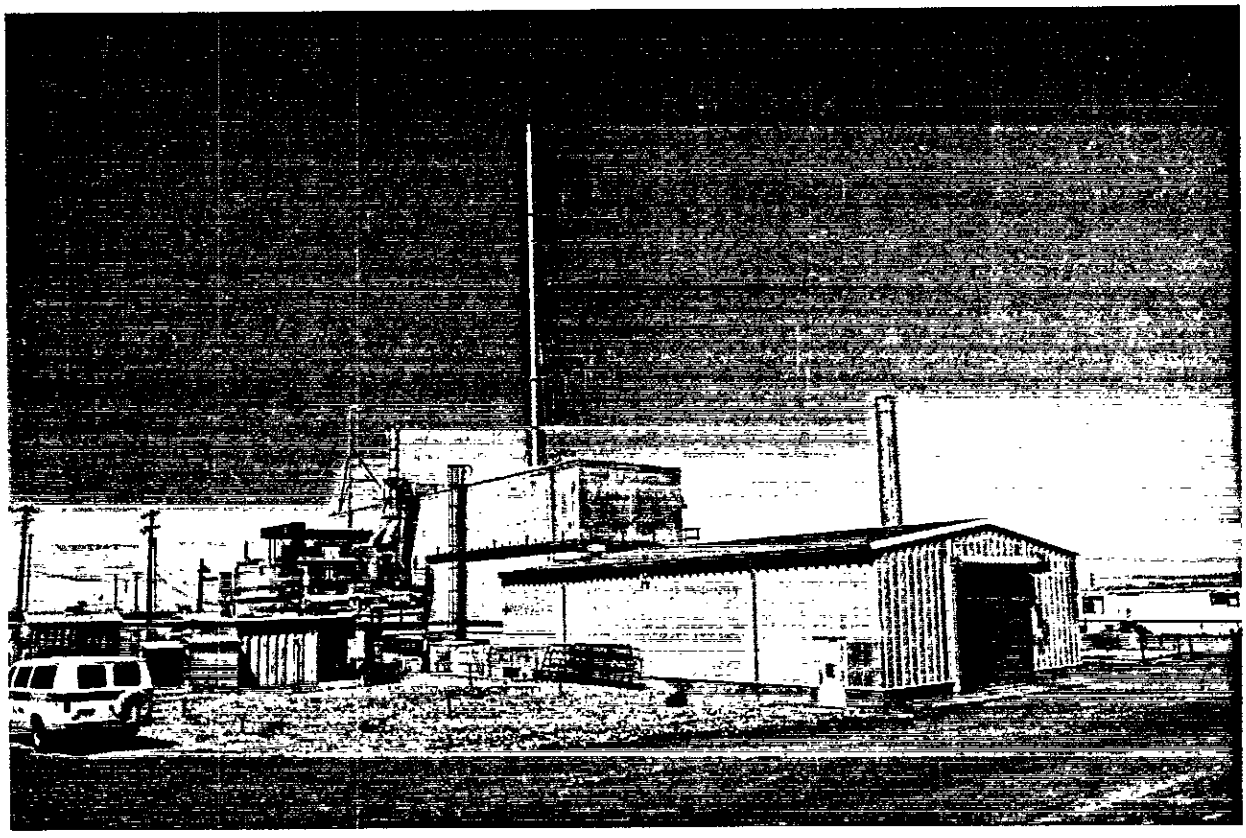
46°33'19"
119°31'35"

8704135-9CN

(PHOTO TAKEN 1987)

2B8707-13.59

# 244-AR VAULT



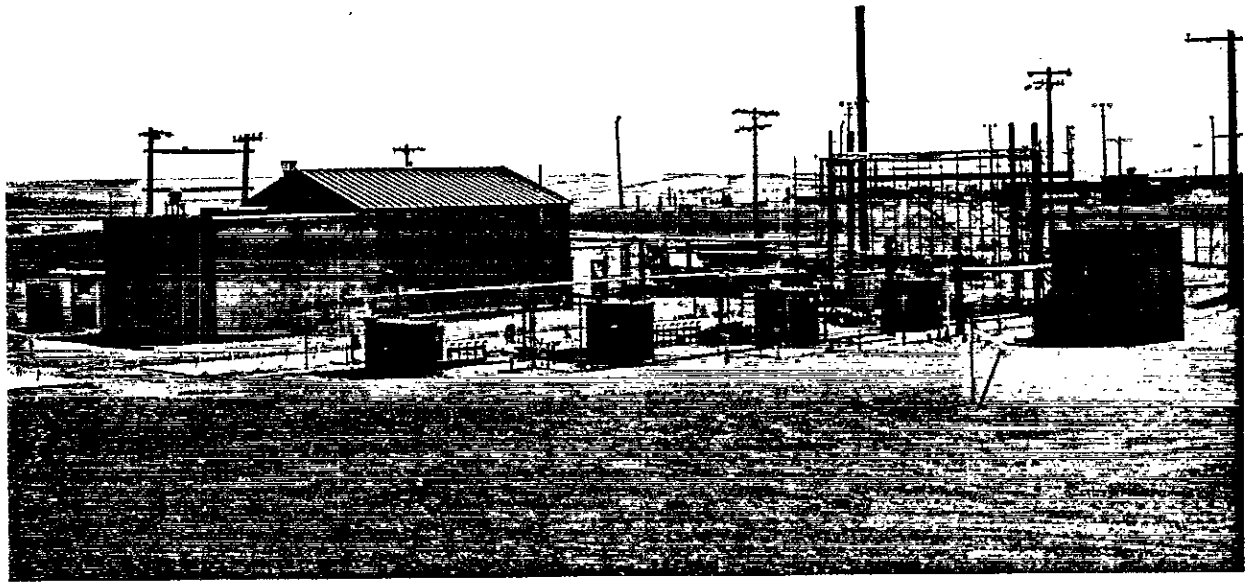
46°33'13"
119°31'45"

8704135-16CN

(PHOTO TAKEN 1987)

2B8707-13.70

# 244-CR VAULT



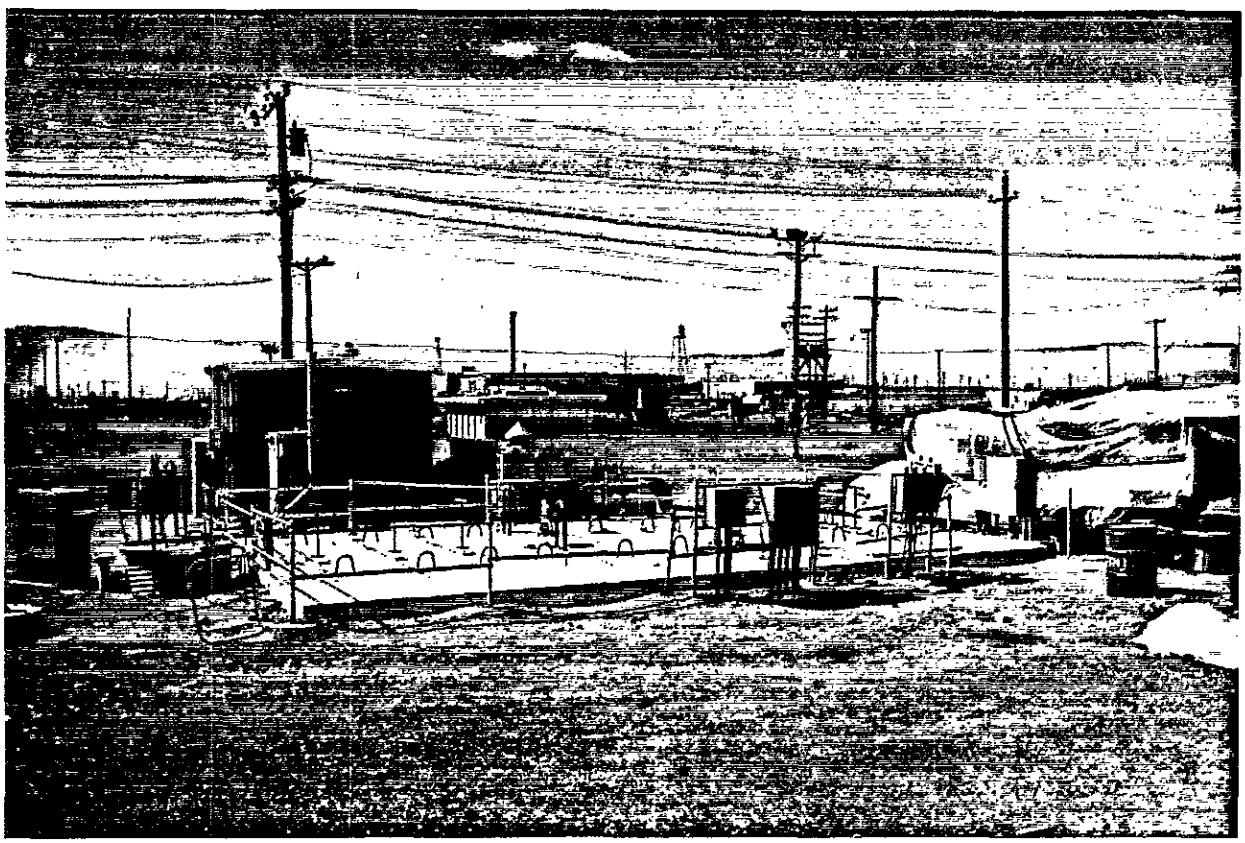
46°33'26"
119°31'47"

8704135-14CN

(PHOTO TAKEN 1987)

2B8707-13.69

# 244-TX DOUBLE CONTAINED RECEIVER TANK



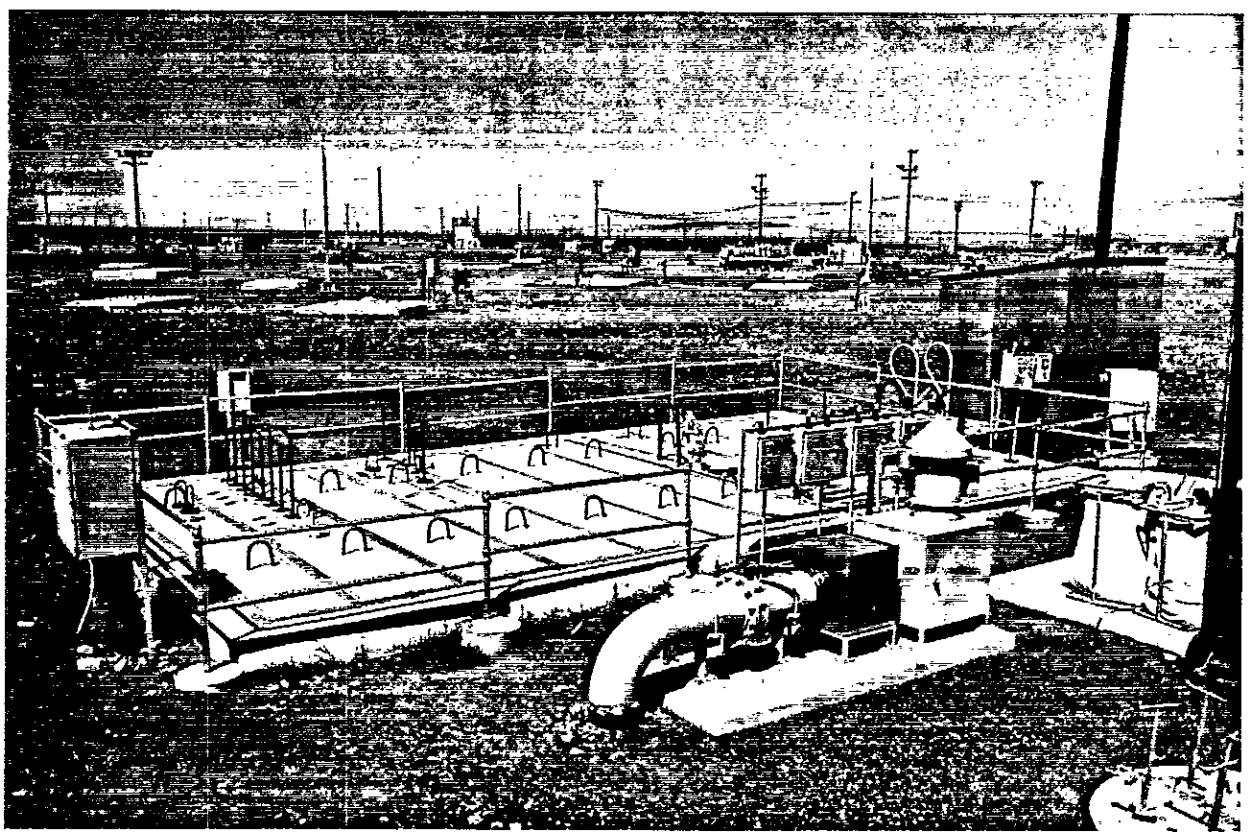
46°33'20"
119°37'22"

8704433-7CN

(PHOTO TAKEN 1987)

2B8707-13.9

# 244-BX DOUBLE CONTAINED RECEIVER TANK



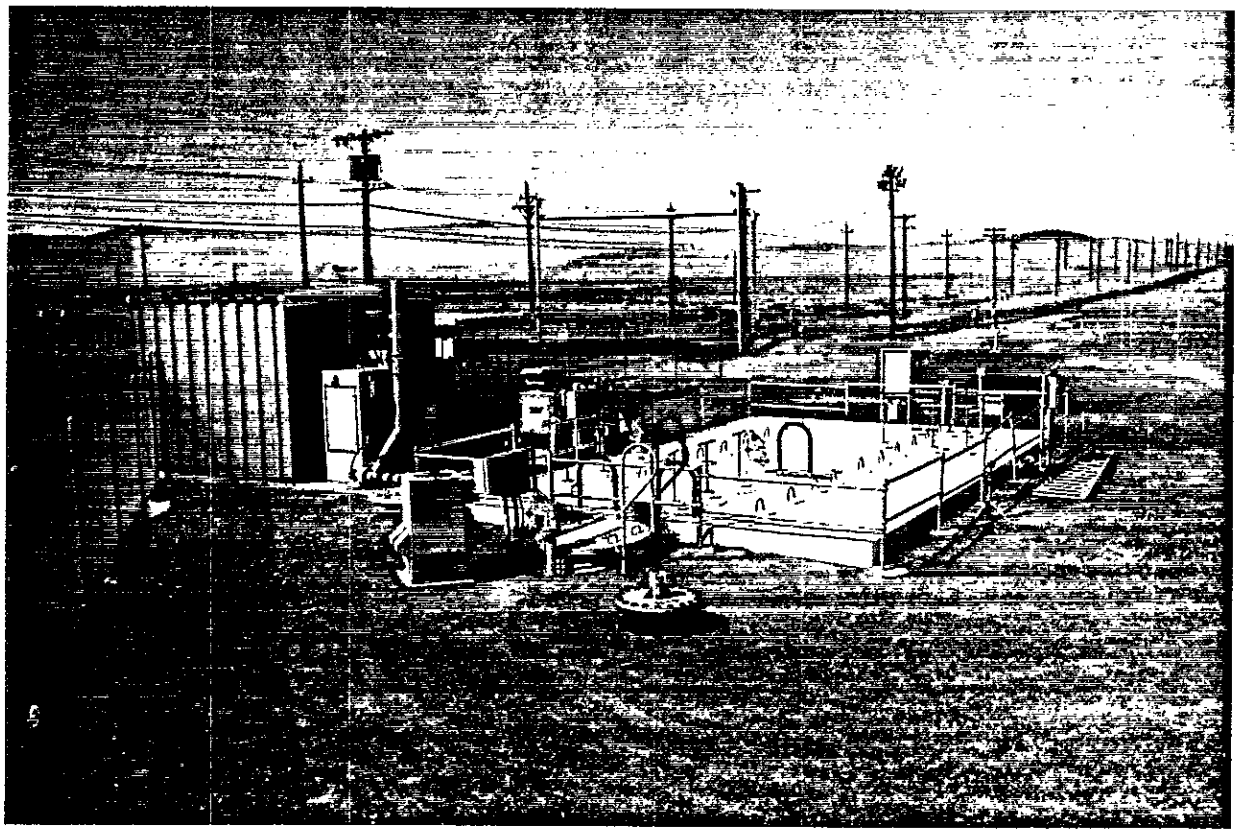
46°33'58"
119°32'40"

8704433-18CN

(PHOTO TAKEN 1987)

2B8707-13.63

# 244-U DOUBLE CONTAINED RECEIVER TANK



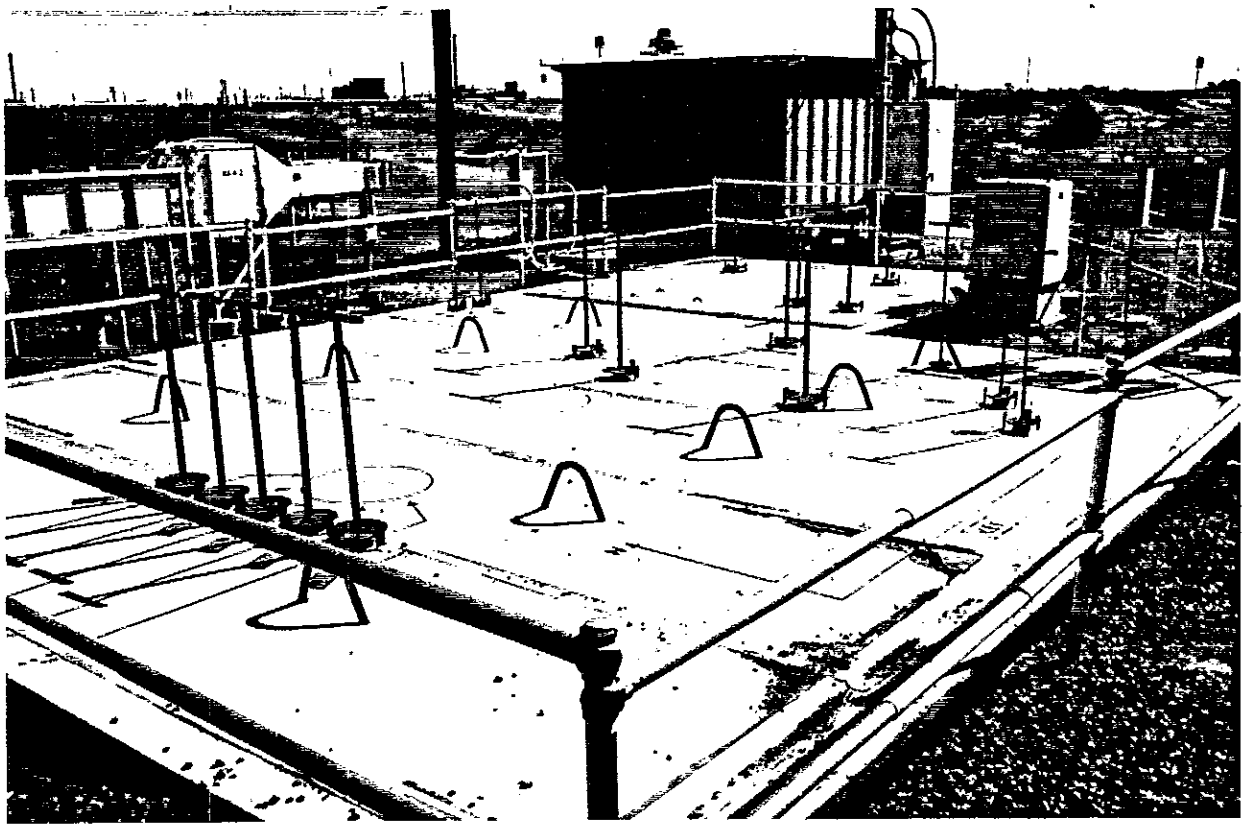
46°32'45"
119°37'22"

8704433-4CN

(PHOTO TAKEN 1987)

2B8707-13.8

# 244-S DOUBLE CONTAINED RECEIVER TANK



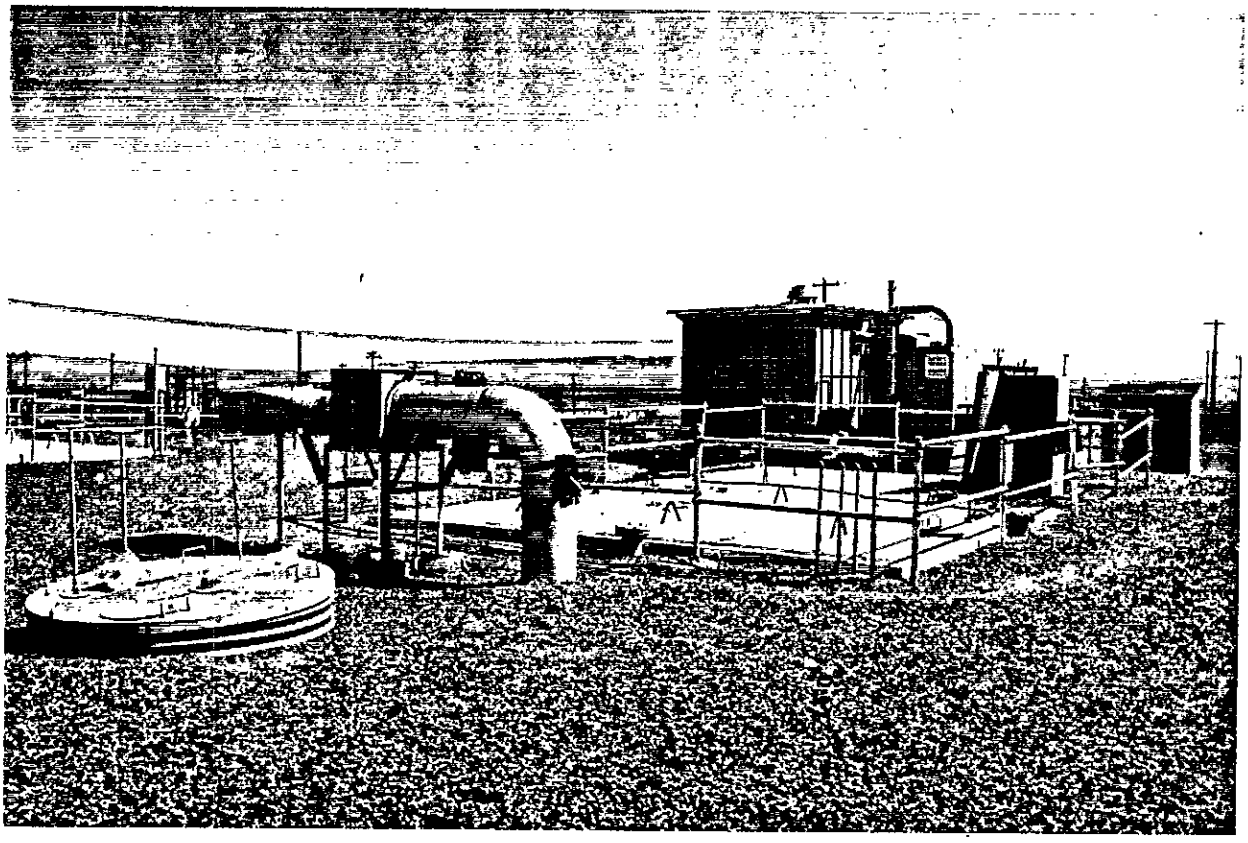
46°32'26"
119°37'20"

8704433-2CN

(PHOTO TAKEN 1987)

2B8707-13.7

# 244-A DOUBLE CONTAINED RECEIVER TANK



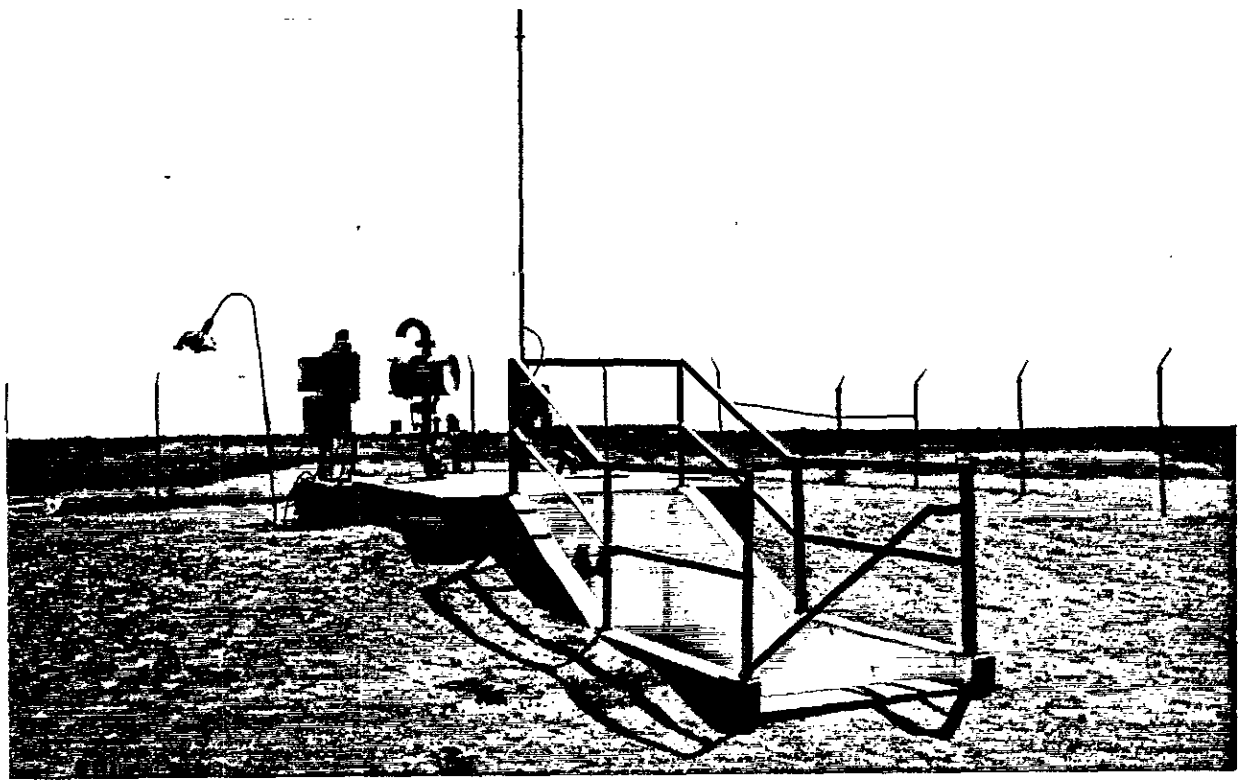
46°33'20"
119°31'49"

87041433-15CN

(PHOTO TAKEN 1987)

2B8707-13.67

# 241-EW-151 TANK



46°32'46"
119°34'52"

8704433-17CN

(PHOTO TAKEN 1987)

2B8707-13.62

Please print or type in the unshaded areas only.
(Fill-in areas are spaced for elite type, i.e., 12 characters/inch).

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

MO. 0 1 DAY 1 YR 5 1 — FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

☐ 2. NEW FACILITY (Complete item below.)

MO. DAY 1 YR 1 — FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | |
| X-2 | T 0 3 | 20 | E | |
| 1 | S 0 2 | 97,150 | G | |
| 2 | T 0 3 | 210 | E | |
| 3 | T 0 4 | 3,000 | U | |
| 4 | | | | |
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CONTINUE ON REVERSE

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## III. PROCESSES (continued)

C SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY

S02, T03, T04

The hexone storage tanks (S02) consist of two 23,575 gallon below-grade carbon steel tanks. The storage tanks received radioactive mixed waste (RMW) from REDOX and Hot Semiworks. The S-141 tank contains waste hexone and S-142 contains a waste mixture of hexone (60%), tributyl phosphate (19%) and normal paraffin hydrocarbons. The combined volume of waste in both tanks is approximately 36,000 gallons. The storage design capacity of the tanks is 47,150 gallons. The tanks will be closed under interim status. As a part of closure, the waste will be transferred from the storage tanks, distilled (T04) to remove radioactivity, and sent to railcar storage tanks (S02) located at the hexone tank site. The treatment design capacity of the distillation process is 3,000 gallons of waste per day. The storage design capacity of the railcar storage tanks is 50,000 gallons. The waste will be stored until it can be treated by incineration (T03) on location. The treatment design capacity of the incinerator is 210 gallons per hour.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| X-1 | K054 | 900 | P | T03 D80 | |
| X-2 | D002 | 400 | P | T03 D80 | |
| X-3 | D001 | 100 | P | T03 D80 | |
| X-4 | D002 | | | T03 D80 | included with above |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008196.7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS WASTE NO. (enter codes) | 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 | F003 | 245,400 | P | S02 T03 T04 | Tank Storage/Distillation/ |
| 2 | | | | | Incineration |
| 3 | | | | | |
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## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The radioactive mixed waste is designated as a spent solvent, methyl isobutyl ketone (F003).

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION

*This information is provided on attached drawing and photo

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| | |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | 5-19-88 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

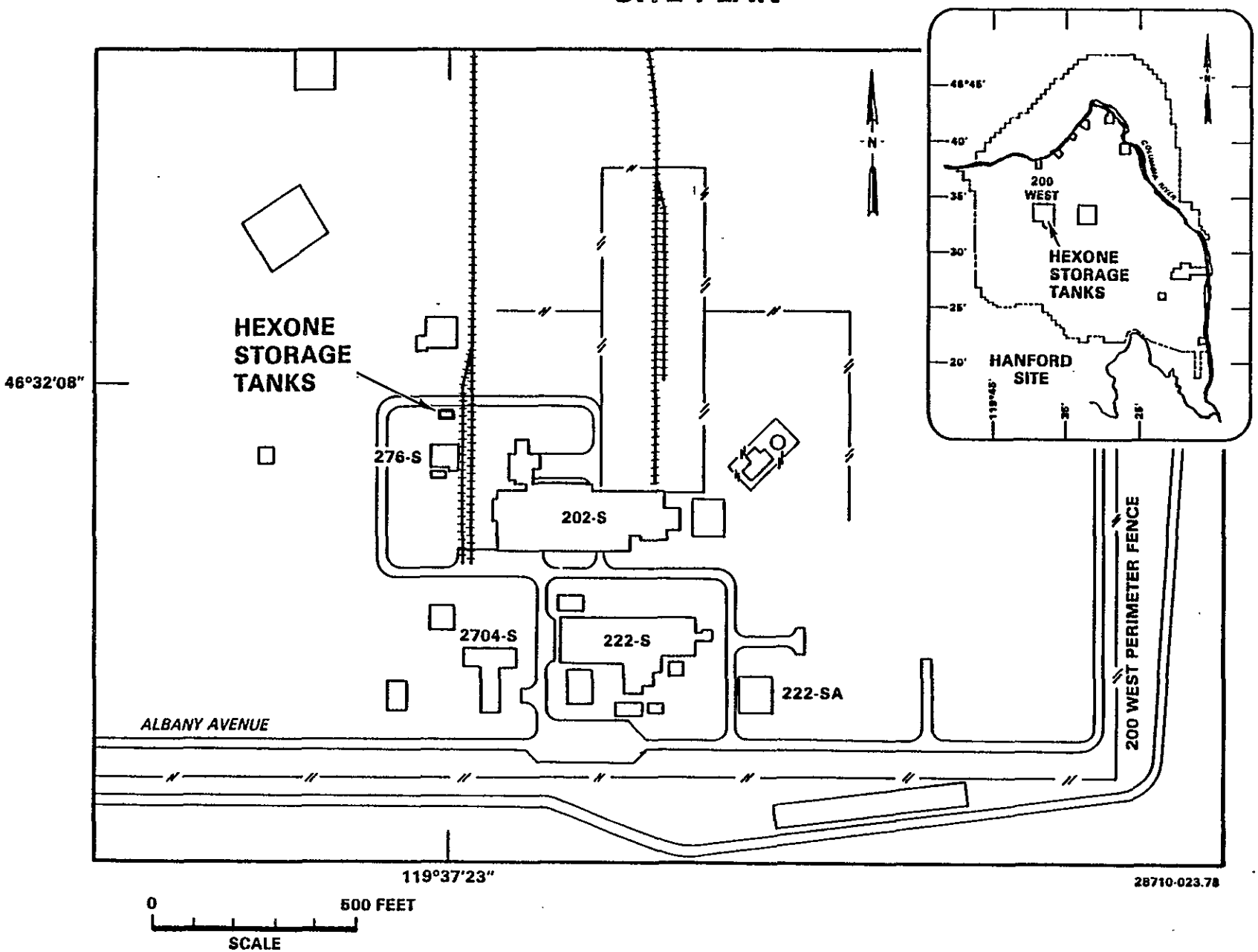
## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

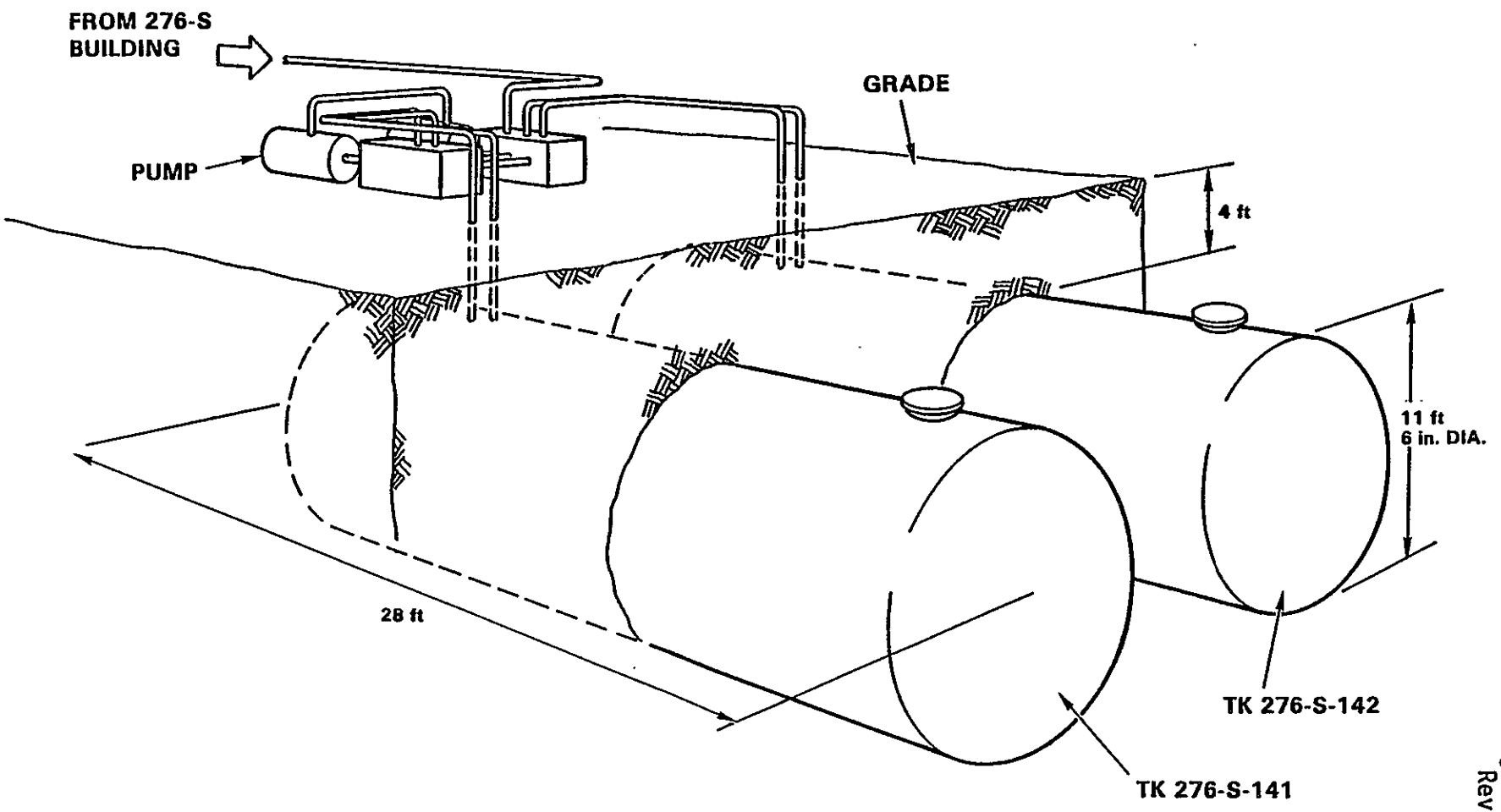
Michael J. Lawrence — 5-19-88
Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy
Date

W. M. Jacobi — 5/13/88
William M. Jacobi
President
Westinghouse Hanford Company
Co-operator
Date

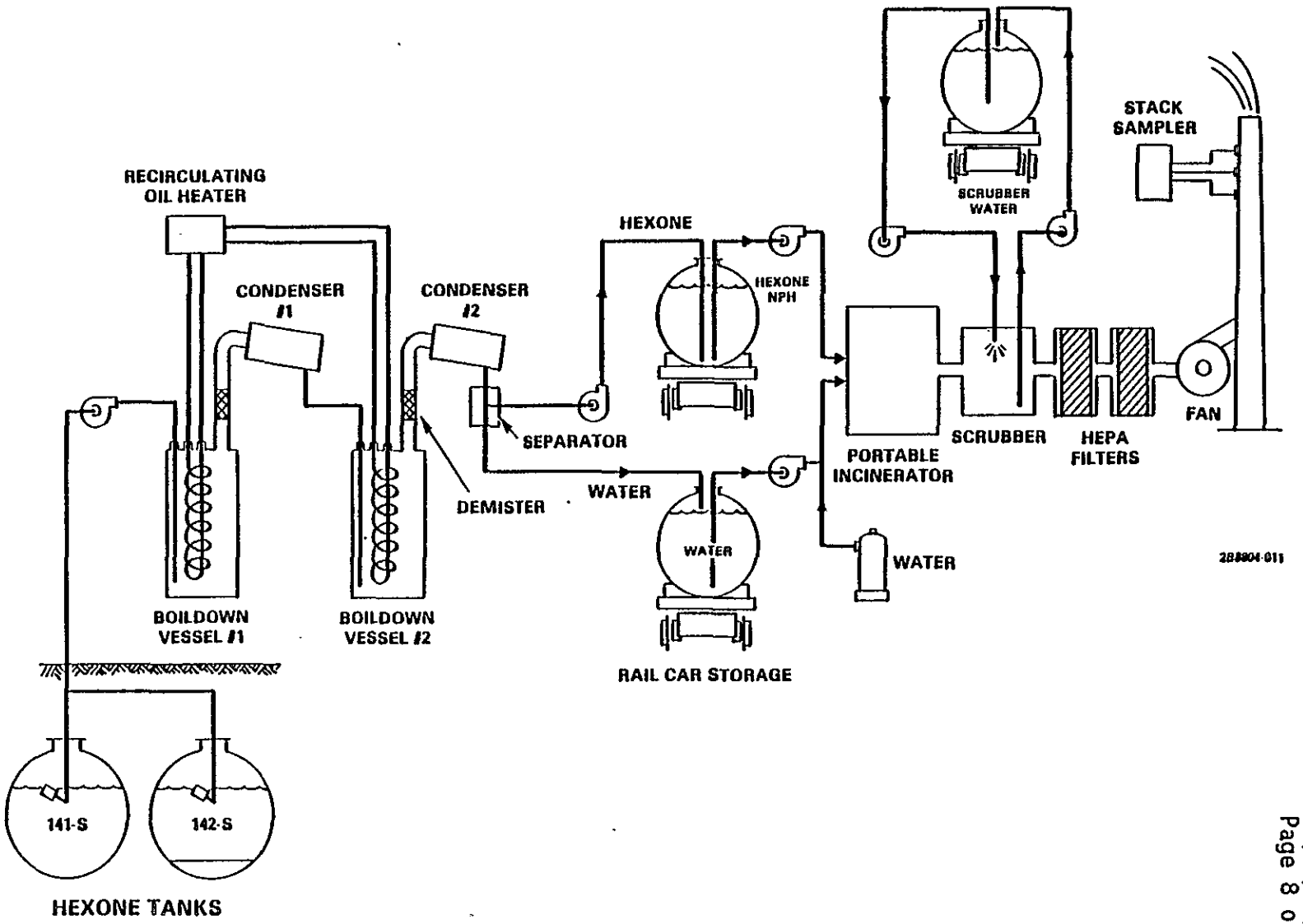
# 276-S-141 AND 142
# HEXONE STORAGE TANKS
## SITE PLAN



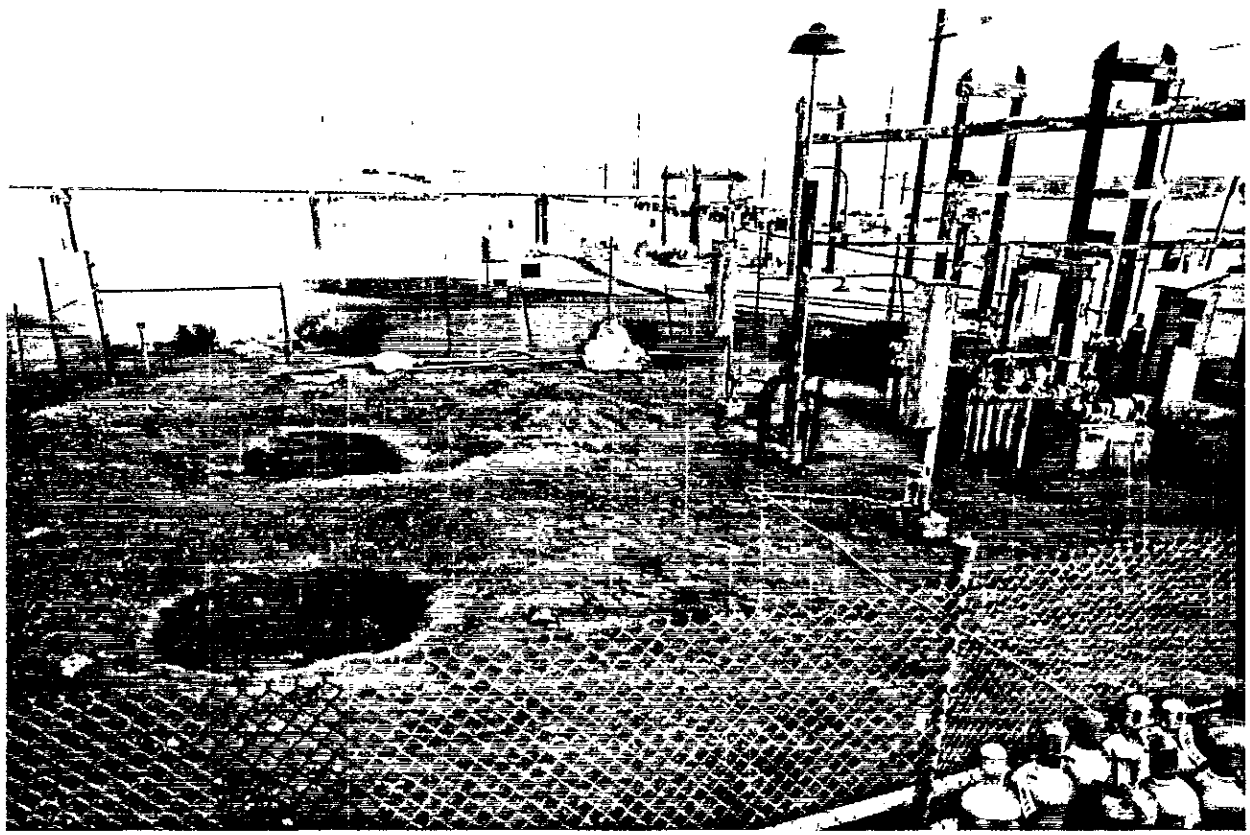
# 276-S-141 AND 276-S-142
# HEXONE STORAGE TANKS



# HEXONE TREATMENT SYSTEM SCHEMATIC PROPOSED



# 276-S-141 AND 142
# HEXONE STORAGE TANKS



46°32'08"
119°37'23"

8706421-7CN

(PHOTO TAKEN 1987)

28710-023.42

Please print or type in the unshaded areas only
(III — if areas are spaced for elite type, i.e., 12 characters/inch).

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| 0 4 | | 7 7 |

FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

☐ 2. NEW FACILITY (Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| | | |

FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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) | 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | | 5 | | | | |
| X-2 | T 0 3 | 20 | E | | 6 | | | | |
| 1 | S 0 1 | 35,000 | G | | 7 | | | | |
| 2 | | | | | 8 | | | | |
| 3 | | | | | 9 | | | | |
| 4 | | | | | 10 | | | | |

Continued from the front.

## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

§ 01

The 2727-WA prefabricated (Butler-type) metal building stores 158 fifty-five gallon steel drums of radioactive waste sodium. The sodium, in metallic form, was shipped to Hanford in 1977 for storage after use by Atomics International as primary coolant in their Sodium Reactor Experiment (SRE) reactor.

The 158 drums of sodium were purged of air and internally blanketed with nitrogen when filled at Atomics International. The drums are stored on noncombustible pallets (2" steel channels set atop 8" concrete blocks). Approximately 1/4 of the concrete floor space is occupied by the stored drums. The design capacity of the storage building is 35,000 gallons.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (*shows as 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 | A. DANGEROUS WASTE NO. (enter codes) | 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)) |
|---|---|---|---|---|---|
| X-1 | K054 | 900 | P | T03 D80 | |
| X-2 | D002 | 400 | P | T03 D80 | |
| X-3 | D001 | 100 | P | T03 D80 | |
| X-4 | D002 | | | T03 D80 | included with above |

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

D. NUMBER (enter from page 1): WA789000896 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | D003 | 70,215 | P | S01 | Container Storage |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
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Continued from the front.

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The SRE sodium is metallic sodium that was previously used in a sodium-cooled nuclear reactor. Sodium metal is reactive with water; therefore, the waste code D003 was assigned.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| 46 32 390 | 119 37 290 |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Edward D. Goldberg | December 3, 1987 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

## X. OPERATOR CERTIFICATION

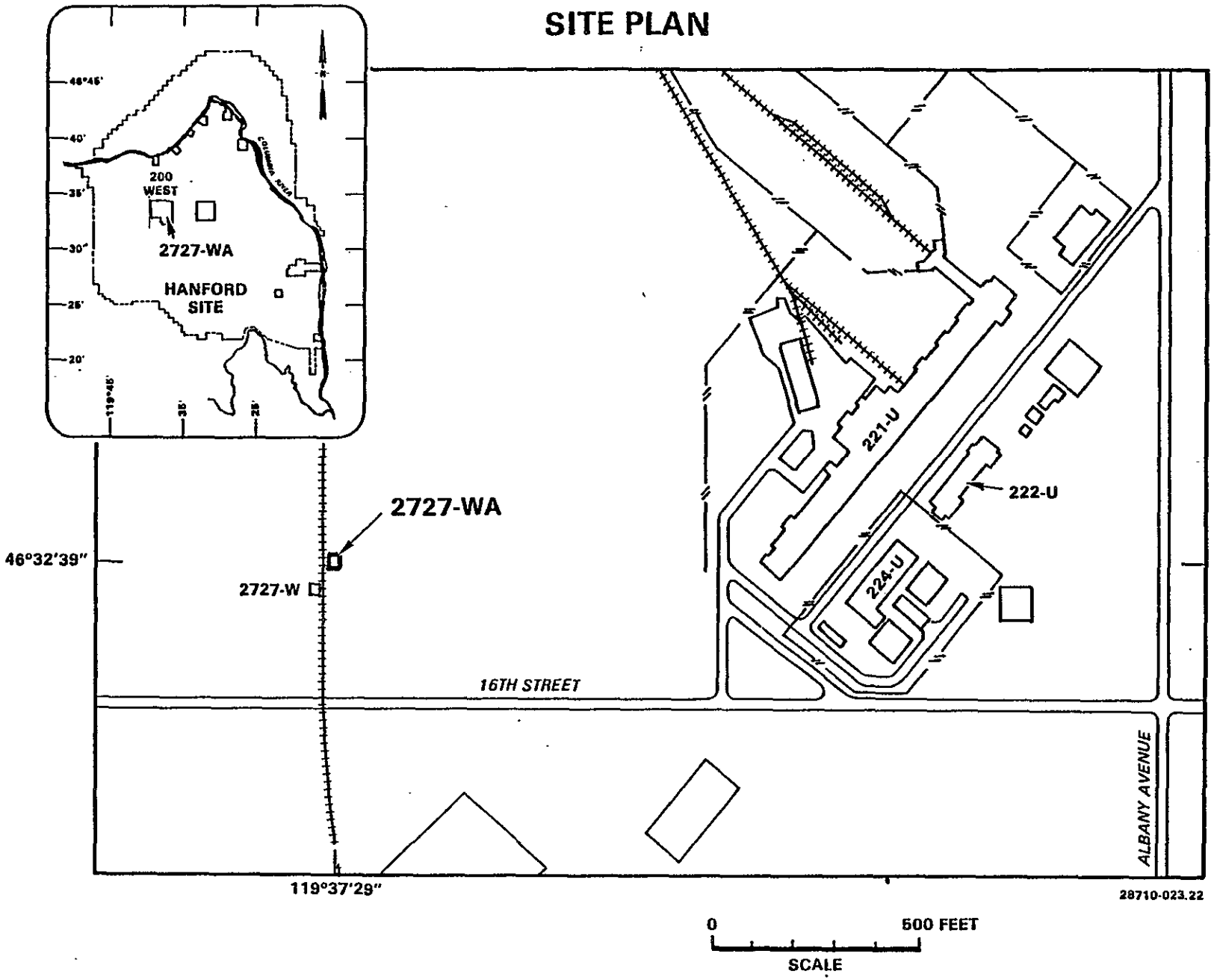
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Edward J. Goldberg — 12/3/87
Michael J. Lawrence — Date
Manager, Richland Operations
United States Department of Energy

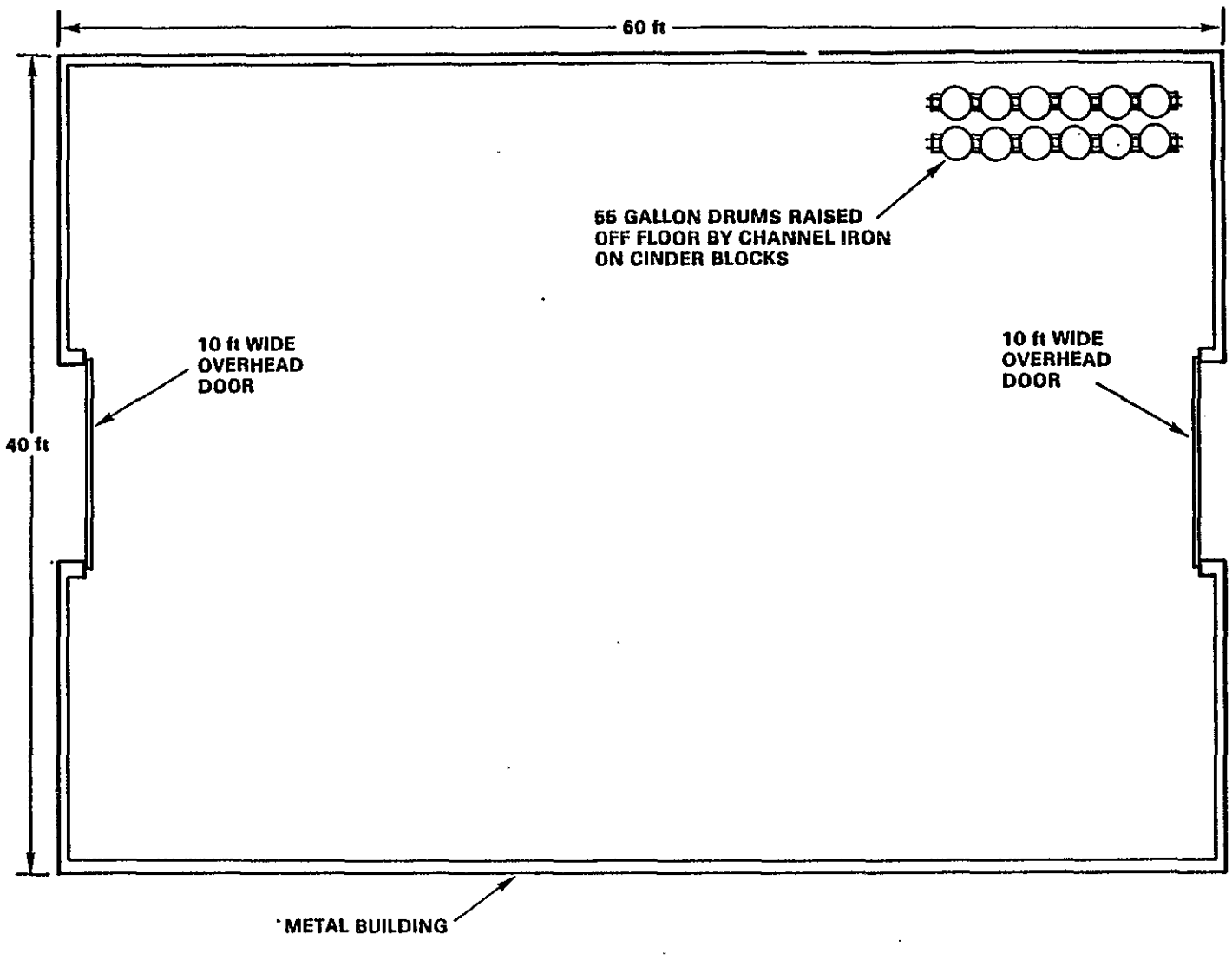
W. M. Jacobi — 12/1/87
William M. Jacobi — Date
President
Westinghouse Hanford Company

9011173161 7

# 2727-WA BUILDING
# SRE SODIUM STORAGE
## SITE PLAN



# 2727-WA BUILDING
# INTERIOR FLOOR PLAN

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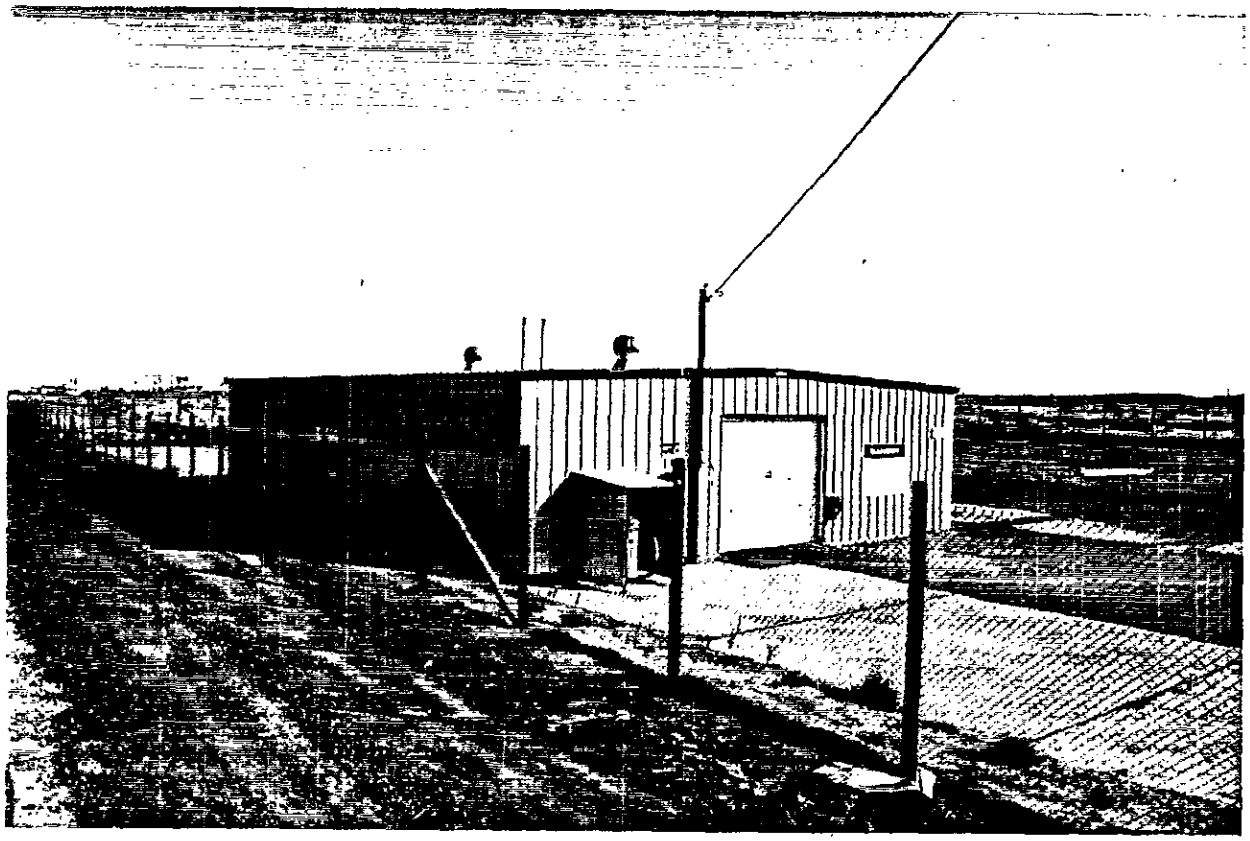
# 2727-WA BUILDING SRE SODIUM STORAGE



46°32'39"
119°37'29"

8706421-9CN

(PHOTO TAKEN 1987)

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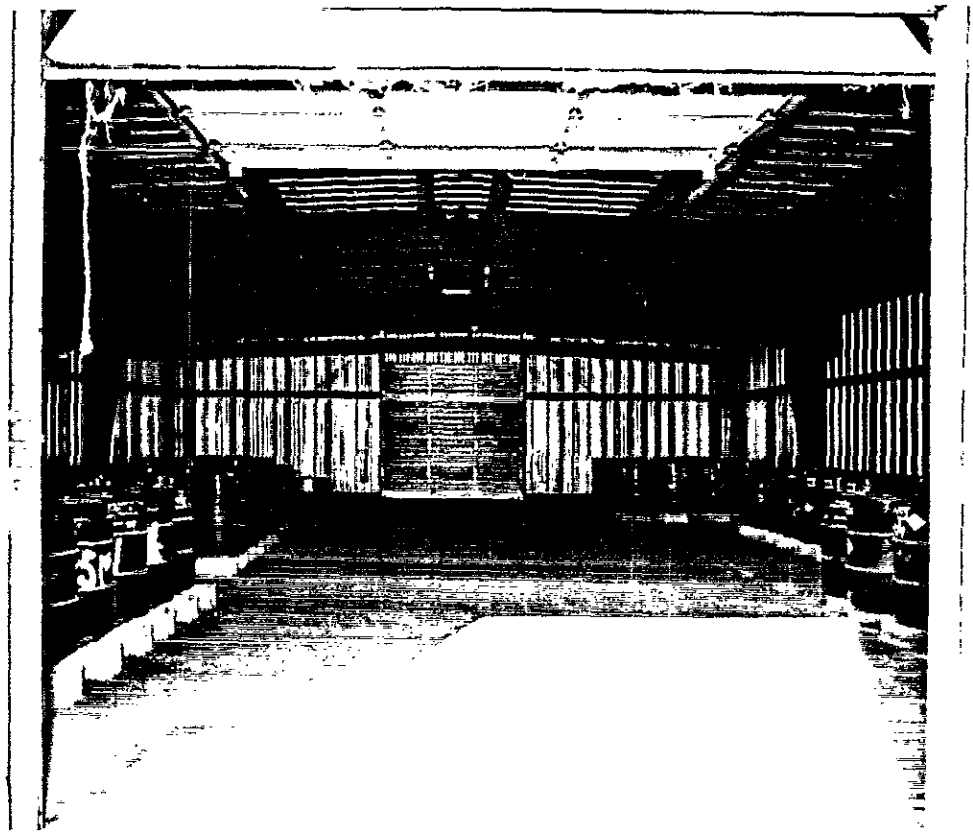
# 2727-WA BUILDING SRE SODIUM STORAGE



46°32'39"
119°37'29"

8706421-22CN

(PHOTO TAKEN 1987)

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9011773162 1

Please print or type in the unshaded areas only.
(NOTE—Unshaded areas are spaced for elite type, i.e., 12 characters/inch).

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

MO. 0 6 DAY 1 5 YR. 5 6 — FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

☐ 2. NEW FACILITY (Complete item below.)

MO. DAY YR. — FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | | 5 | | | | |
| X-2 | T 0 3 | 20 | E | | 6 | | | | |
| 1 | S 0 1 | 6,200,000 | G | | 7 | | | | |
| 2 | | | | | 8 | | | | |
| 3 | | | | | 9 | | | | |
| 4 | | | | | 10 | | | | |



CONTINUE ON REVERSE

9 0 1 1 7 / 3 1 5 2 2

Continued from the front.

## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

S01

The PUREX tunnels are container storage systems for radioactive mixed waste. Each of the flat bed areas is considered a separate container. Various types of equipment are placed on the cars, and not all equipment would be considered regulated hazardous waste. PUREX has two tunnels (#1 and #2) which are designed to store failed PUREX equipment having radiation levels too high to allow decontamination.

For tunnel 1, the storage area is 358 feet long, 22 feet high, and 19 feet wide, providing a maximum storage capacity of 146,243 cubic feet. Construction on tunnel 1 was completed in 1956, and the first two cars were loaded into it in June 1960. Between this date and January 1965, six more cars were loaded into the tunnel. The last car was loaded in 1965.

The construction of tunnel 2 was completed in 1964. The storage area is 1,688 feet long, 34 feet wide, and 22 feet above the tunnel track, providing a maximum storage capacity of 689,548 cubic feet. The first car was placed in the tunnel in December 1967. To date, 13 cars are in this tunnel which was designed to hold 24 cars.

These units may, however, be better described as miscellaneous units under the proposed 40 CFR 264 Subpart X.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

| D. NUMBER (enter from page 1) |
|---|
| WA7890008967 |

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | 1,000 | P | S01 | Container Storage |
| 2 | WT01 | | | | Included with above |
| 3 | D009 | 250 | P | S01 | Container Storage |
| 4 | WT01 | | | | Included with above |
| 5 | D011 | 130 | P | S01 | Container Storage |
| 6 | WT01 | | | | Included with above |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
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| 15 | | | | | |
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| 17 | | | | | |
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| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |

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Continued from the front.

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The wastes in the tunnel container storage system will include waste lead counter balances from jumpers, mercury in the failed dissolvers, and silver nitrate from the silver reactor. The estimated amounts of the radioactive mixed wastes currently stored in the tunnels are as follows:

| Hazardous Waste | | Amount | | Location |
|---|---|---|---|---|
| Tunnel 1 | | | | |
| Lead | (pure) | less than 500 lbs | 5.26 gal | Positions 2 and 4 |
| Tunnel 2 | | | | |
| Silver Nitrate | | 130 lbs | 3.58 gal | Position 5 |
| Mercury | (pure) | 250 lbs | 2.20 gal | Positions 7, 9, and 11 |
| | | 880 lbs | 11.04 gal | |

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| 46 32 470 | 119 31 070 |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Edward J. Goldberg | December 3, 1987 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

9011173162

## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Edward J. Goldberg — 12/3/87

Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy

Date

W. M. Jacobi — 12/1/87

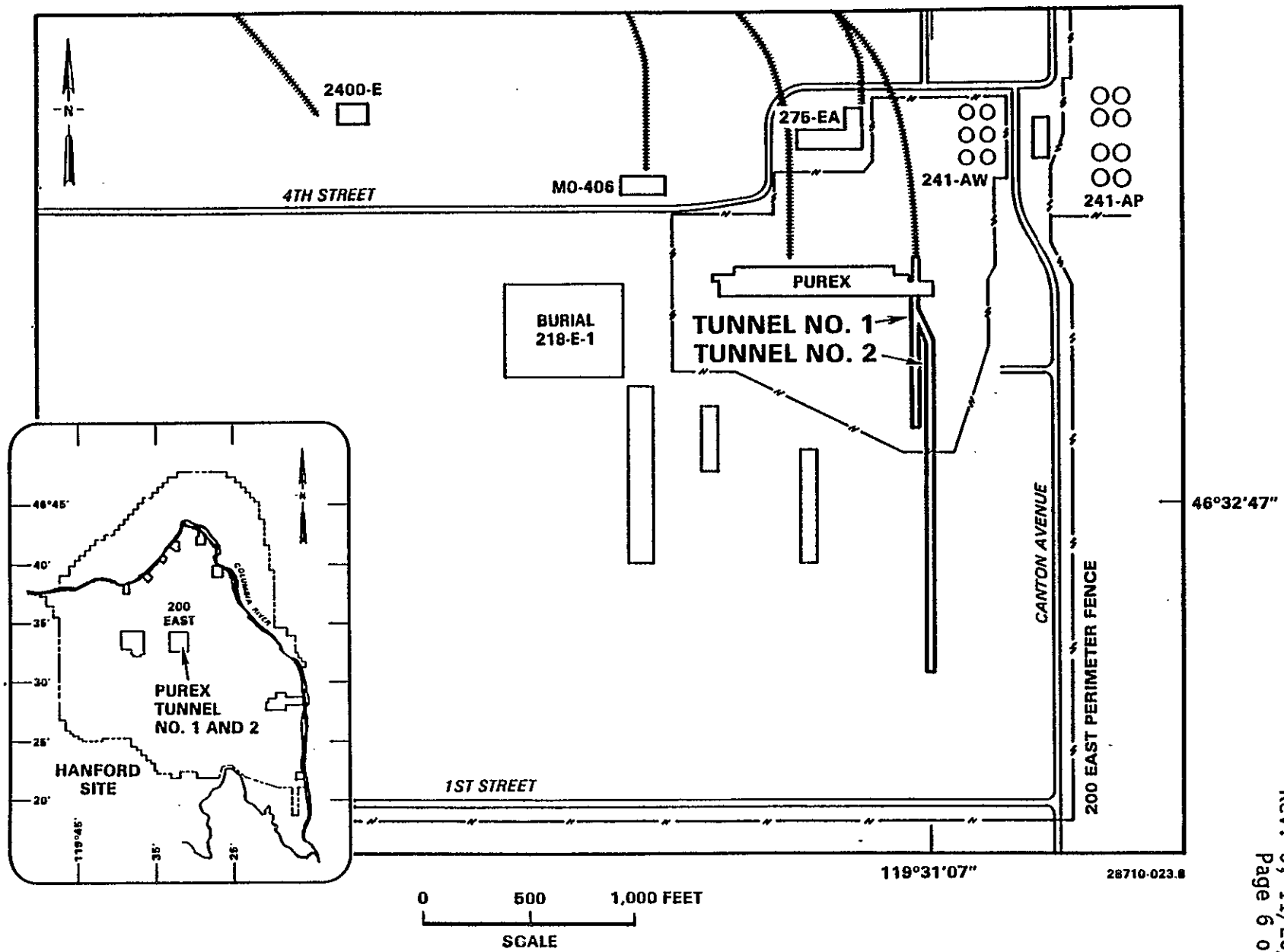
William M. Jacobi
President
Westinghouse Hanford Company

Date

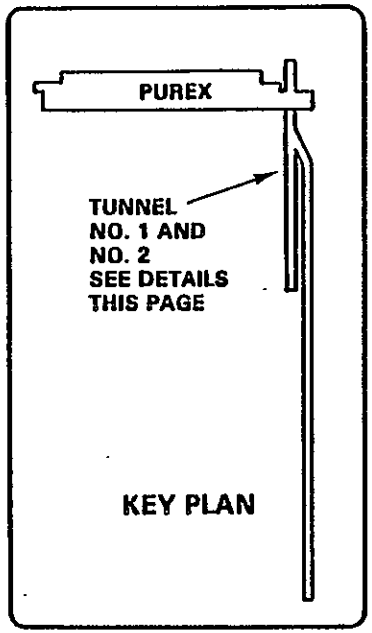
9 0 1 1 7 7 3 1 6 2 5

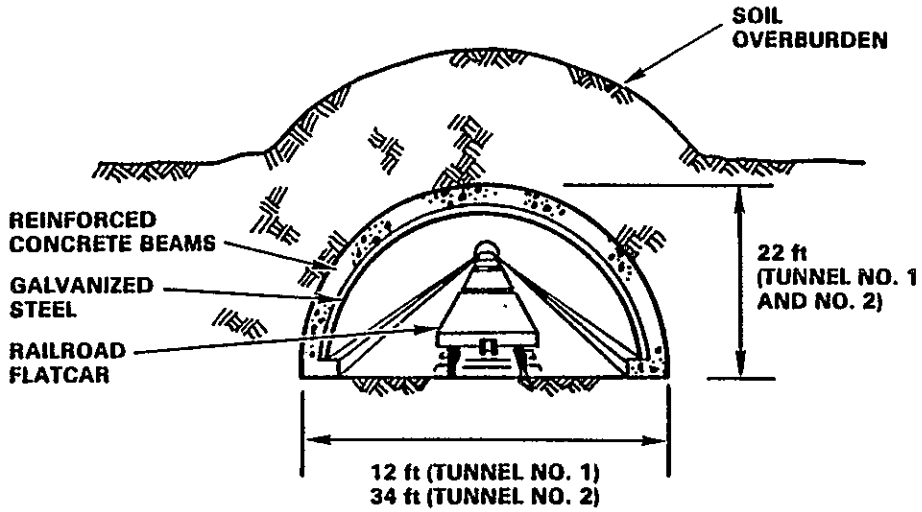
# PUREX TUNNELS NUMBER 1 AND 2

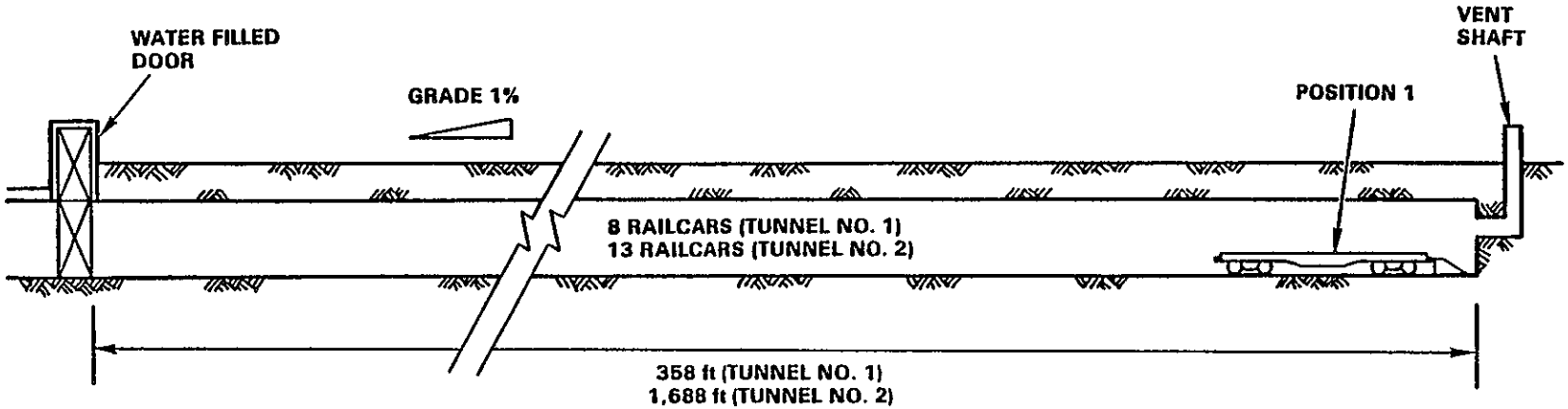
## SITE PLAN



# TUNNELS NUMBER 1 AND 2
# DETAILS

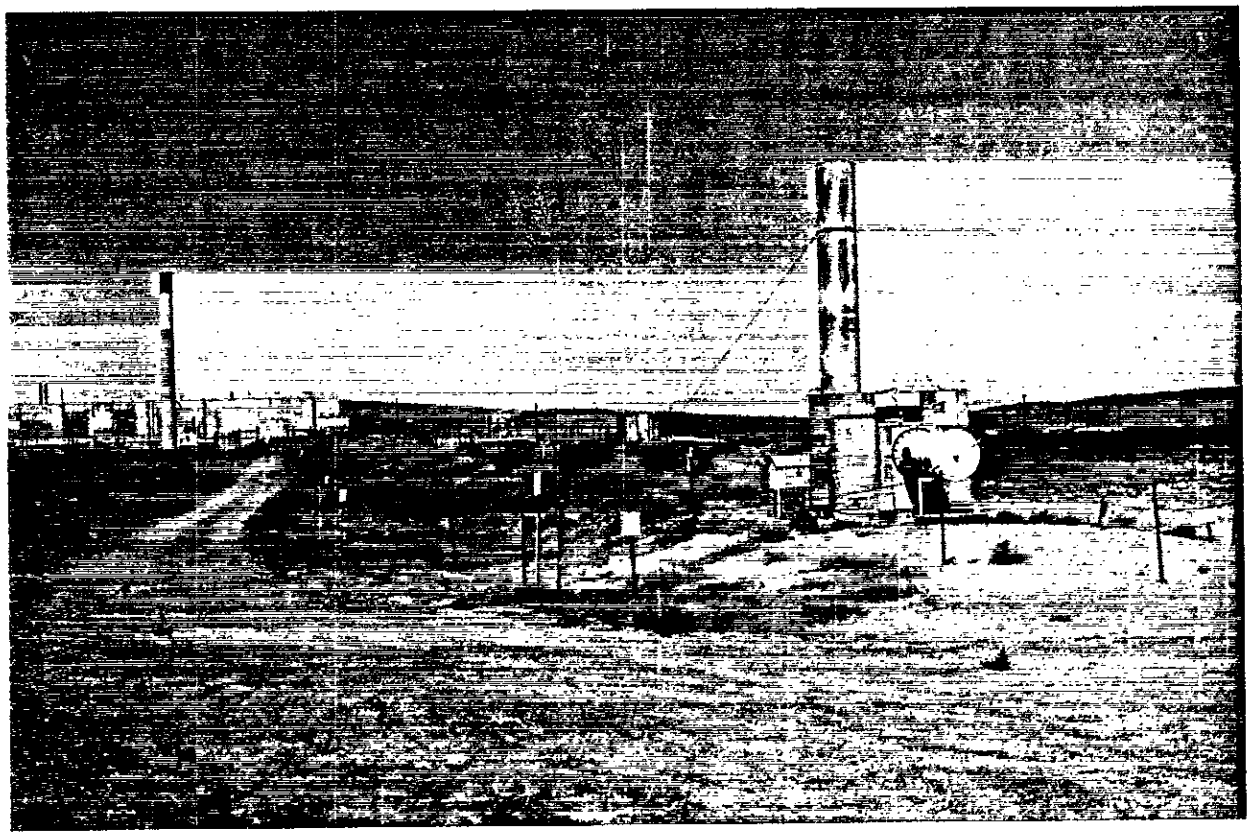



28710-023.10

# PUREX BURIAL TUNNELS, NO. 1 AND NO. 2



46°32'47"
119°31'07"

8704474-4CN

(PHOTO TAKEN 1987)

28710-023.30

(III)—If areas are spaced for entire type, i.e., 12 characters/inch.

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

MO. 0 9 DAY YR. 8 5 — FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

☐ 2. NEW FACILITY (Complete item below.)

MO. DAY YR. — FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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) | 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | | 5 | | | | |
| X-2 | T 0 3 | 20 | E | | 6 | | | | |
| 1 | S 0 1 | 110,000 | G | | 7 | | | | |
| 2 | | | | | 8 | | | | |
| 3 | | | | | 9 | | | | |
| 4 | | | | | 10 | | | | |



9 0 1 1 7 7 1 6 3 0

Continued from the front.

## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

S01
The Transuranic Waste Storage and Assay Facility (TRUSAF) operation consists of a nondestructive analysis of transuranic (TRU) waste. The analysis is used as an overview for sealed, TRU solid-waste packages to verify general compliance with the Waste Isolation Pilot Plant (WIPP) Waste Acceptance Criteria (WAC). Those containers meeting WIPP WAC criteria are stored at 224-T and maintained in a manner to retain their certification. The containers that do not meet the WIPP WAC criteria are returned to the waste generators for correction of deficiencies. The waste is generated nationally by U. S. Department of Energy processing facilities. The waste is shipped to Hanford for interim storage and handling. The waste will eventually be shipped to the WIPP in New Mexico for disposal. The facility storage capacity is 110,000 gallons (2,000 drums).

## IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

Continued from page 2.
Photocopy this page before completing if you have more than 28 wastes to list.

D. NUMBER (enter from page 1): W A 7 8 9 0 0 0 8 9 6 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS WASTE NO. (enter codes) | 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 | F 0 0 1 | 500 | P | S 0 1 | Container Storage |
| 2 | F 0 0 2 | 500 | P | S 0 1 | |
| 3 | F 0 0 3 | 500 | P | S 0 1 | |
| 4 | F 0 0 4 | 500 | P | S 0 1 | |
| 5 | F 0 0 5 | 500 | P | S 0 1 | |
| 6 | F 0 2 0 | 500 | P | S 0 1 | |
| 7 | F 0 2 1 | 500 | P | S 0 1 | |
| 8 | F 0 2 2 | 500 | P | S 0 1 | |
| 9 | F 0 2 3 | 500 | P | S 0 1 | |
| 10 | F 0 2 6 | 500 | P | S 0 1 | |
| 11 | F 0 2 7 | 500 | P | S 0 1 | |
| 12 | F 0 2 8 | 500 | P | S 0 1 | |
| 13 | U 0 0 1 | 500 | P | S 0 1 | |
| 14 | U 0 0 2 | 500 | P | S 0 1 | |
| 15 | U 0 0 3 | 500 | P | S 0 1 | |
| 16 | U 0 0 4 | 500 | P | S 0 1 | |
| 17 | U 0 0 5 | 500 | P | S 0 1 | |
| 18 | U 0 0 6 | 500 | P | S 0 1 | |
| 19 | U 0 0 7 | 500 | P | S 0 1 | |
| 20 | U 0 0 8 | 500 | P | S 0 1 | |
| 21 | U 0 0 9 | 500 | P | S 0 1 | |
| 22 | U 0 1 0 | 500 | P | S 0 1 | |
| 23 | U 0 1 1 | 500 | P | S 0 1 | |
| 24 | U 0 1 2 | 500 | P | S 0 1 | |
| 25 | U 0 1 3 | 500 | P | S 0 1 | |
| 26 | U 0 1 4 | 500 | P | S 0 1 | |

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): W A 7 8 9 0 0 0 8 9 6 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 other than entered in D(1)) |
|---|---|---|---|---|---|---|---|---|
| 1 | U 0 4 2 | 500 | P | S 0 1 | | | | Container Storage |
| 2 | U 0 4 3 | 500 | P | S 0 1 | | | | |
| 3 | U 0 4 4 | 500 | P | S 0 1 | | | | |
| 4 | U 0 4 5 | 500 | P | S 0 1 | | | | |
| 5 | U 0 4 6 | 500 | P | S 0 1 | | | | |
| 6 | U 0 4 7 | 500 | P | S 0 1 | | | | |
| 7 | U 0 4 8 | 500 | P | S 0 1 | | | | |
| 8 | U 0 4 9 | 500 | P | S 0 1 | | | | |
| 9 | U 0 5 0 | 500 | P | S 0 1 | | | | |
| 10 | U 0 5 1 | 500 | P | S 0 1 | | | | |
| 11 | U 0 5 2 | 500 | P | S 0 1 | | | | |
| 12 | U 0 5 3 | 500 | P | S 0 1 | | | | |
| 13 | U 0 5 5 | 500 | P | S 0 1 | | | | |
| 14 | U 0 5 6 | 500 | P | S 0 1 | | | | |
| 15 | U 0 5 7 | 500 | P | S 0 1 | | | | |
| 16 | U 0 5 8 | 500 | P | S 0 1 | | | | |
| 17 | U 0 5 9 | 500 | P | S 0 1 | | | | |
| 18 | U 0 6 0 | 500 | P | S 0 1 | | | | |
| 19 | U 0 6 1 | 500 | P | S 0 1 | | | | |
| 20 | U 0 6 2 | 500 | P | S 0 1 | | | | |
| 21 | U 0 6 3 | 500 | P | S 0 1 | | | | |
| 22 | U 0 6 4 | 500 | P | S 0 1 | | | | |
| 23 | U 0 6 6 | 500 | P | S 0 1 | | | | |
| 24 | U 0 6 7 | 500 | P | S 0 1 | | | | |
| 25 | U 0 6 8 | 500 | P | S 0 1 | | | | |
| 26 | U 0 6 9 | 500 | P | S 0 1 | | | | |

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): W A 7 8 9 0 0 0 8 9 6 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS WASTE NO. (enter code) | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (enter code) | D. PROCESSES 1. PROCESS CODES (enter) | | | | 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) |
|---|---|---|---|---|---|---|---|---|
| 1 | U 0 9 6 | 500 | P | S 0 1 | | | | Container Storage |
| 2 | U 0 9 7 | 500 | P | S 0 1 | | | | |
| 3 | U 0 9 8 | 500 | P | S 0 1 | | | | |
| 4 | U 1 0 1 | 500 | P | S 0 1 | | | | |
| 5 | U 1 0 2 | 500 | P | S 0 1 | | | | |
| 6 | U 1 0 7 | 500 | P | S 0 1 | | | | |
| 7 | U 1 0 8 | 500 | P | S 0 1 | | | | |
| 8 | U 1 1 2 | 500 | P | S 0 1 | | | | |
| 9 | U 1 1 3 | 500 | P | S 0 1 | | | | |
| 10 | U 1 1 6 | 500 | P | S 0 1 | | | | |
| 11 | U 1 1 7 | 500 | P | S 0 1 | | | | |
| 12 | U 1 1 8 | 500 | P | S 0 1 | | | | |
| 13 | U 1 1 9 | 500 | P | S 0 1 | | | | |
| 14 | U 1 2 0 | 500 | P | S 0 1 | | | | |
| 15 | U 1 2 3 | 500 | P | S 0 1 | | | | |
| 16 | U 1 2 4 | 500 | P | S 0 1 | | | | |
| 17 | U 1 3 4 | 500 | P | S 0 1 | | | | |
| 18 | U 1 3 6 | 500 | P | S 0 1 | | | | |
| 19 | U 1 3 7 | 500 | P | S 0 1 | | | | |
| 20 | U 1 3 9 | 500 | P | S 0 1 | | | | |
| 21 | U 1 4 0 | 500 | P | S 0 1 | | | | |
| 22 | U 1 4 5 | 500 | P | S 0 1 | | | | |
| 23 | U 1 4 6 | 500 | P | S 0 1 | | | | |
| 24 | U 1 4 8 | 500 | P | S 0 1 | | | | |
| 25 | U 1 4 9 | 500 | P | S 0 1 | | | | |
| 26 | U 1 5 0 | 500 | P | S 0 1 | | | | |

Combined from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U151 | 500 | P | S01 | Container Storage |
| 2 | U152 | 500 | P | S01 | |
| 3 | U153 | 500 | P | S01 | |
| 4 | U154 | 500 | P | S01 | |
| 5 | U155 | 500 | P | S01 | |
| 6 | U156 | 500 | P | S01 | |
| 7 | U157 | 500 | P | S01 | |
| 8 | U158 | 500 | P | S01 | |
| 9 | U159 | 500 | P | S01 | |
| 10 | U160 | 500 | P | S01 | |
| 11 | U161 | 500 | P | S01 | |
| 12 | U162 | 500 | P | S01 | |
| 13 | U163 | 500 | P | S01 | |
| 14 | U164 | 500 | P | S01 | |
| 15 | U165 | 500 | P | S01 | |
| 16 | U166 | 500 | P | S01 | |
| 17 | U167 | 500 | P | S01 | |
| 18 | U168 | 500 | P | S01 | |
| 19 | U169 | 500 | P | S01 | |
| 20 | U170 | 500 | P | S01 | |
| 21 | U171 | 500 | P | S01 | |
| 22 | U172 | 500 | P | S01 | |
| 23 | U173 | 500 | P | S01 | |
| 24 | U174 | 500 | P | S01 | |
| 25 | U175 | 500 | P | S01 | |
| 26 | U176 | 500 | P | S01 | |

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PAGE 3 OF 5
(enter "A", "B", "C" etc. behind the "3" to identify photocopied pages)
CONTINUE ON REVERSE

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Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 28 wastes to list.

D. NUMBER (enter from page 1): W A 7 8 9 0 0 0 8 9 6 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS WASTE NO. (enter code) | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (enter code) | D. PROCESSES 1. PROCESS CODES (enter) | | | | 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) |
|---|---|---|---|---|---|---|---|---|
| 1 | U 2 0 6 | 500 | P | S 0 1 | | | | Container Storage |
| 2 | U 2 0 7 | 500 | P | S 0 1 | | | | |
| 3 | U 2 0 8 | 500 | P | S 0 1 | | | | |
| 4 | U 2 0 9 | 500 | P | S 0 1 | | | | |
| 5 | U 2 1 0 | 500 | P | S 0 1 | | | | |
| 6 | U 2 1 1 | 500 | P | S 0 1 | | | | |
| 7 | U 2 1 2 | 500 | P | S 0 1 | | | | |
| 8 | U 2 1 3 | 500 | P | S 0 1 | | | | |
| 9 | U 2 1 4 | 500 | P | S 0 1 | | | | |
| 10 | U 2 1 5 | 500 | P | S 0 1 | | | | |
| 11 | U 2 1 6 | 500 | P | S 0 1 | | | | |
| 12 | U 2 1 7 | 500 | P | S 0 1 | | | | |
| 13 | U 2 1 8 | 500 | P | S 0 1 | | | | |
| 14 | U 2 1 9 | 500 | P | S 0 1 | | | | |
| 15 | U 2 2 0 | 500 | P | S 0 1 | | | | |
| 16 | U 2 2 1 | 500 | P | S 0 1 | | | | |
| 17 | U 2 2 2 | 500 | P | S 0 1 | | | | |
| 18 | U 2 2 3 | 500 | P | S 0 1 | | | | |
| 19 | U 2 2 5 | 500 | P | S 0 1 | | | | |
| 20 | U 2 2 6 | 500 | P | S 0 1 | | | | |
| 21 | U 2 2 7 | 500 | P | S 0 1 | | | | |
| 22 | U 2 2 8 | 500 | P | S 0 1 | | | | |
| 23 | U 2 3 0 | 500 | P | S 0 1 | | | | |
| 24 | U 2 3 1 | 500 | P | S 0 1 | | | | |
| 25 | U 2 3 2 | 500 | P | S 0 1 | | | | |
| 26 | U 2 3 3 | 500 | P | S 0 1 | | | | |



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Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 20 wastes to list.

| D. NUMBER (enter from page 1) |
|---|
| WA 7 8 9 0 0 0 8 9 6 7 |

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U234 | 500 | P | S01 | Container Storage |
| 2 | U235 | 500 | P | S01 | |
| 3 | U236 | 500 | P | S01 | |
| 4 | U237 | 500 | P | S01 | |
| 5 | U238 | 500 | P | S01 | |
| 6 | U239 | 500 | P | S01 | |
| 7 | U240 | 500 | P | S01 | |
| 8 | U241 | 500 | P | S01 | |
| 9 | U242 | 500 | P | S01 | |
| 10 | U243 | 500 | P | S01 | |
| 11 | U244 | 500 | P | S01 | |
| 12 | U245 | 500 | P | S01 | |
| 13 | U246 | 500 | P | S01 | |
| 14 | U247 | 500 | P | S01 | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |

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Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 20 wastes to list.

| I. NUMBER (enter from page 1) |
|---|
| WA7890008967 |

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P028 | 500 | P | S01 | Container Storage |
| 2 | P029 | 500 | P | S01 | |
| 3 | P030 | 500 | P | S01 | |
| 4 | P031 | 500 | P | S01 | |
| 5 | P033 | 500 | P | S01 | |
| 6 | P034 | 500 | P | S01 | |
| 7 | P035 | 500 | P | S01 | |
| 8 | P036 | 500 | P | S01 | |
| 9 | P037 | 500 | P | S01 | |
| 10 | P038 | 500 | P | S01 | |
| 11 | P039 | 500 | P | S01 | |
| 12 | P040 | 500 | P | S01 | |
| 13 | P041 | 500 | P | S01 | |
| 14 | P042 | 500 | P | S01 | |
| 15 | P043 | 500 | P | S01 | |
| 16 | P044 | 500 | P | S01 | |
| 17 | P045 | 500 | P | S01 | |
| 18 | P046 | 500 | P | S01 | |
| 19 | P047 | 500 | P | S01 | |
| 20 | P048 | 500 | P | S01 | |
| 21 | P049 | 500 | P | S01 | |
| 22 | P050 | 500 | P | S01 | |
| 23 | P051 | 500 | P | S01 | |
| 24 | P054 | 500 | P | S01 | |
| 25 | P056 | 500 | P | S01 | |
| 26 | | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 20 wastes to list.

I.D. NUMBER (enter from page 1)
WA789000896 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P057 | 500 | P | S01 | Container Storage |
| 2 | P058 | 500 | P | S01 | |
| 3 | P059 | 500 | P | S01 | |
| 4 | P060 | 500 | P | S01 | |
| 5 | P062 | 500 | P | S01 | |
| 6 | P063 | 500 | P | S01 | |
| 7 | P064 | 500 | P | S01 | |
| 8 | P065 | 500 | P | S01 | |
| 9 | P066 | 500 | P | S01 | |
| 10 | P067 | 500 | P | S01 | |
| 11 | P068 | 500 | P | S01 | |
| 12 | P069 | 500 | P | S01 | |
| 13 | P070 | 500 | P | S01 | |
| 14 | P071 | 500 | P | S01 | |
| 15 | P072 | 500 | P | S01 | |
| 16 | P073 | 500 | P | S01 | |
| 17 | P074 | 500 | P | S01 | |
| 18 | P075 | 500 | P | S01 | |
| 19 | P076 | 500 | P | S01 | |
| 20 | P077 | 500 | P | S01 | |
| 21 | P078 | 500 | P | S01 | |
| 22 | P079 | 500 | P | S01 | |
| 23 | P081 | 500 | P | S01 | |
| 24 | P082 | 500 | P | S01 | |
| 25 | P084 | 500 | P | S01 | |
| 26 | P085 | 500 | P | S01 | |

ECY 030-31 Form 3 PAGE 3 OF 5 CONTINUE ON REVERSE

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): W A 7 8 9 0 0 0 8 9 6 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS 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 | P 0 8 7 | 500 | P | S 0 1 | Container Storage |
| 2 | P 0 8 8 | 500 | P | S 0 1 | |
| 3 | P 0 8 9 | 500 | P | S 0 1 | |
| 4 | P 0 9 2 | 500 | P | S 0 1 | |
| 5 | P 0 9 3 | 500 | P | S 0 1 | |
| 6 | P 0 9 4 | 500 | P | S 0 1 | |
| 7 | P 0 9 5 | 500 | P | S 0 1 | |
| 8 | P 0 9 6 | 500 | P | S 0 1 | |
| 9 | P 0 9 7 | 500 | P | S 0 1 | |
| 10 | P 0 9 8 | 500 | P | S 0 1 | |
| 11 | P 0 9 9 | 500 | P | S 0 1 | |
| 12 | P 1 0 1 | 500 | P | S 0 1 | |
| 13 | P 1 0 2 | 500 | P | S 0 1 | |
| 14 | P 1 0 3 | 500 | P | S 0 1 | |
| 15 | P 1 0 4 | 500 | P | S 0 1 | |
| 16 | P 1 0 5 | 500 | P | S 0 1 | |
| 17 | P 1 0 6 | 500 | P | S 0 1 | |
| 18 | P 1 0 7 | 500 | P | S 0 1 | |
| 19 | P 1 0 8 | 500 | P | S 0 1 | |
| 20 | P 1 0 9 | 500 | P | S 0 1 | |
| 21 | P 1 1 0 | 500 | P | S 0 1 | |
| 22 | P 1 1 1 | 500 | P | S 0 1 | |
| 23 | P 1 1 2 | 500 | P | S 0 1 | |
| 24 | P 1 1 3 | 500 | P | S 0 1 | |
| 25 | P 1 1 4 | 500 | P | S 0 1 | |
| 26 | P 1 1 5 | 500 | P | S 0 1 | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1)
WA 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U070 | 500 | P | S01 | Container Storage |
| 2 | U071 | 500 | P | S01 | |
| 3 | U072 | 500 | P | S01 | |
| 4 | U073 | 500 | P | S01 | |
| 5 | U074 | 500 | P | S01 | |
| 6 | U075 | 500 | P | S01 | |
| 7 | U076 | 500 | P | S01 | |
| 8 | U077 | 500 | P | S01 | |
| 9 | U078 | 500 | P | S01 | |
| 10 | U079 | 500 | P | S01 | |
| 11 | U080 | 500 | P | S01 | |
| 12 | U081 | 500 | P | S01 | |
| 13 | U082 | 500 | P | S01 | |
| 14 | U083 | 500 | P | S01 | |
| 15 | U084 | 500 | P | S01 | |
| 16 | U085 | 500 | P | S01 | |
| 17 | U086 | 500 | P | S01 | |
| 18 | U087 | 500 | P | S01 | |
| 19 | U088 | 500 | P | S01 | |
| 20 | U089 | 500 | P | S01 | |
| 21 | U090 | 500 | P | S01 | |
| 22 | U091 | 500 | P | S01 | |
| 23 | U092 | 500 | P | S01 | |
| 24 | U093 | 500 | P | S01 | |
| 25 | U094 | 500 | P | S01 | |
| 26 | U095 | 500 | P | S01 | |

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Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): W A 7 8 9 0 0 0 8 9 6 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS WASTE NO. (enter codes) | 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 | U177 | 500 | P | S01 | | | | Container Storage |
| 2 | U178 | 500 | P | S01 | | | | |
| 3 | U179 | 500 | P | S01 | | | | |
| 4 | U180 | 500 | P | S01 | | | | |
| 5 | U181 | 500 | P | S01 | | | | |
| 6 | U182 | 500 | P | S01 | | | | |
| 7 | U183 | 500 | P | S01 | | | | |
| 8 | U184 | 500 | P | S01 | | | | |
| 9 | U185 | 500 | P | S01 | | | | |
| 10 | U186 | 500 | P | S01 | | | | |
| 11 | U187 | 500 | P | S01 | | | | |
| 12 | U188 | 500 | P | S01 | | | | |
| 13 | U189 | 500 | P | S01 | | | | |
| 14 | U190 | 500 | P | S01 | | | | |
| 15 | U191 | 500 | P | S01 | | | | |
| 16 | U192 | 500 | P | S01 | | | | |
| 17 | U193 | 500 | P | S01 | | | | |
| 18 | U194 | 500 | P | S01 | | | | |
| 19 | U196 | 500 | P | S01 | | | | |
| 20 | U197 | 500 | P | S01 | | | | |
| 21 | U200 | 500 | P | S01 | | | | |
| 22 | U201 | 500 | P | S01 | | | | |
| 23 | U202 | 500 | P | S01 | | | | |
| 24 | U203 | 500 | P | S01 | | | | |
| 25 | U204 | 500 | P | S01 | | | | |
| 26 | U205 | 500 | P | S01 | | | | |



9011772164

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

| I. NUMBER (enter from page 1) |
|---|
| WA 7890008967 |

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U015 | 500 | P | S01 | Container Storage |
| 2 | U016 | 500 | P | S01 | |
| 3 | U017 | 500 | P | S01 | |
| 4 | U018 | 500 | P | S01 | |
| 5 | U019 | 500 | P | S01 | |
| 6 | U020 | 500 | P | S01 | |
| 7 | U021 | 500 | P | S01 | |
| 8 | U022 | 500 | P | S01 | |
| 9 | U023 | 500 | P | S01 | |
| 10 | U024 | 500 | P | S01 | |
| 11 | U025 | 500 | P | S01 | |
| 12 | U026 | 500 | P | S01 | |
| 13 | U027 | 500 | P | S01 | |
| 14 | U028 | 500 | P | S01 | |
| 15 | U029 | 500 | P | S01 | |
| 16 | U030 | 500 | P | S01 | |
| 17 | U031 | 500 | P | S01 | |
| 18 | U032 | 500 | P | S01 | |
| 19 | U033 | 500 | P | S01 | |
| 20 | U034 | 500 | P | S01 | |
| 21 | U035 | 500 | P | S01 | |
| 22 | U036 | 500 | P | S01 | |
| 23 | U037 | 500 | P | S01 | |
| 24 | U038 | 500 | P | S01 | |
| 25 | U039 | 500 | P | S01 | |
| 26 | U041 | 500 | P | S01 | |

ECT 030-31 Form 3
PAGE 3 OF 5
(enter "A", "B", "C" etc. behind the "3" to identify photocopied pages)
CONTINUE ON REVERSE

9011771643

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 20 wastes to list.

D. NUMBER (enter from page 1)
N A 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P001 | 500 | P | S01 | Container Storage |
| 2 | P002 | 500 | P | S01 | |
| 3 | P003 | 500 | P | S01 | |
| 4 | P004 | 500 | P | S01 | |
| 5 | P005 | 500 | P | S01 | |
| 6 | P006 | 500 | P | S01 | |
| 7 | P007 | 500 | P | S01 | |
| 8 | P008 | 500 | P | S01 | |
| 9 | P009 | 500 | P | S01 | |
| 10 | P010 | 500 | P | S01 | |
| 11 | P011 | 500 | P | S01 | |
| 12 | P012 | 500 | P | S01 | |
| 13 | P013 | 500 | P | S01 | |
| 14 | P014 | 500 | P | S01 | |
| 15 | P015 | 500 | P | S01 | |
| 16 | P016 | 500 | P | S01 | |
| 17 | P017 | 500 | P | S01 | |
| 18 | P018 | 500 | P | S01 | |
| 19 | P020 | 500 | P | S01 | |
| 20 | P021 | 500 | P | S01 | |
| 21 | P022 | 500 | P | S01 | |
| 22 | P023 | 500 | P | S01 | |
| 23 | P024 | 500 | P | S01 | |
| 24 | P025 | 500 | P | S01 | |
| 25 | P026 | 500 | P | S01 | |
| 26 | P027 | 500 | P | S01 | |

ECY 030-31 Form 3
PAGE 3 OF 5
(enter "1", "2", "3" etc. behind the "2" to identify photocopied pages)
CONTINUE ON REVERSE

9011771564

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000897

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS WASTE NO. (enter code) | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (enter code) | D. PROCESSES 1. PROCESS CODES (enter) | | | | 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) |
|---|---|---|---|---|---|---|---|---|
| 1 | D001 | 500 | P | S01 | | | | Container Storage |
| 2 | D002 | 500 | P | S01 | | | | |
| 3 | D003 | 500 | P | S01 | | | | |
| 4 | D004 | 500 | P | S01 | | | | |
| 5 | D005 | 500 | P | S01 | | | | |
| 6 | D006 | 500 | P | S01 | | | | |
| 7 | D007 | 500 | P | S01 | | | | |
| 8 | D008 | 1,000 | P | S01 | | | | |
| 9 | D010 | 500 | P | S01 | | | | |
| 10 | D011 | 500 | P | S01 | | | | |
| 11 | WT01 | 10,000 | P | S01 | | | | |
| 12 | WT02 | 10,000 | P | S01 | | | | |
| 13 | WP01 | 8,000 | P | S01 | | | | |
| 14 | WP02 | 8,000 | P | S01 | | | | |
| 15 | WP03 | 8,000 | P | S01 | | | | |
| 16 | WC01 | 8,000 | P | S01 | | | | |
| 17 | WC02 | 8,000 | P | S01 | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |



9011771564

Continued from the front.

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The hazardous waste that may go into this facility could be any of the listed or characteristic waste as defined by RCRA and the Washington Administrative Code 173-303. The actual type and quantities are gross estimates. This waste will be generated from a large number of sources at the U. S. Department of Energy facilities nationally. This form includes a complete list of potential waste because of the uncertainty as to specific waste types of the radioactive mixed wastes.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| 46 33 340 | 119 37 090 |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | - - |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Edward D. Goldberg | December 3, 1987 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy

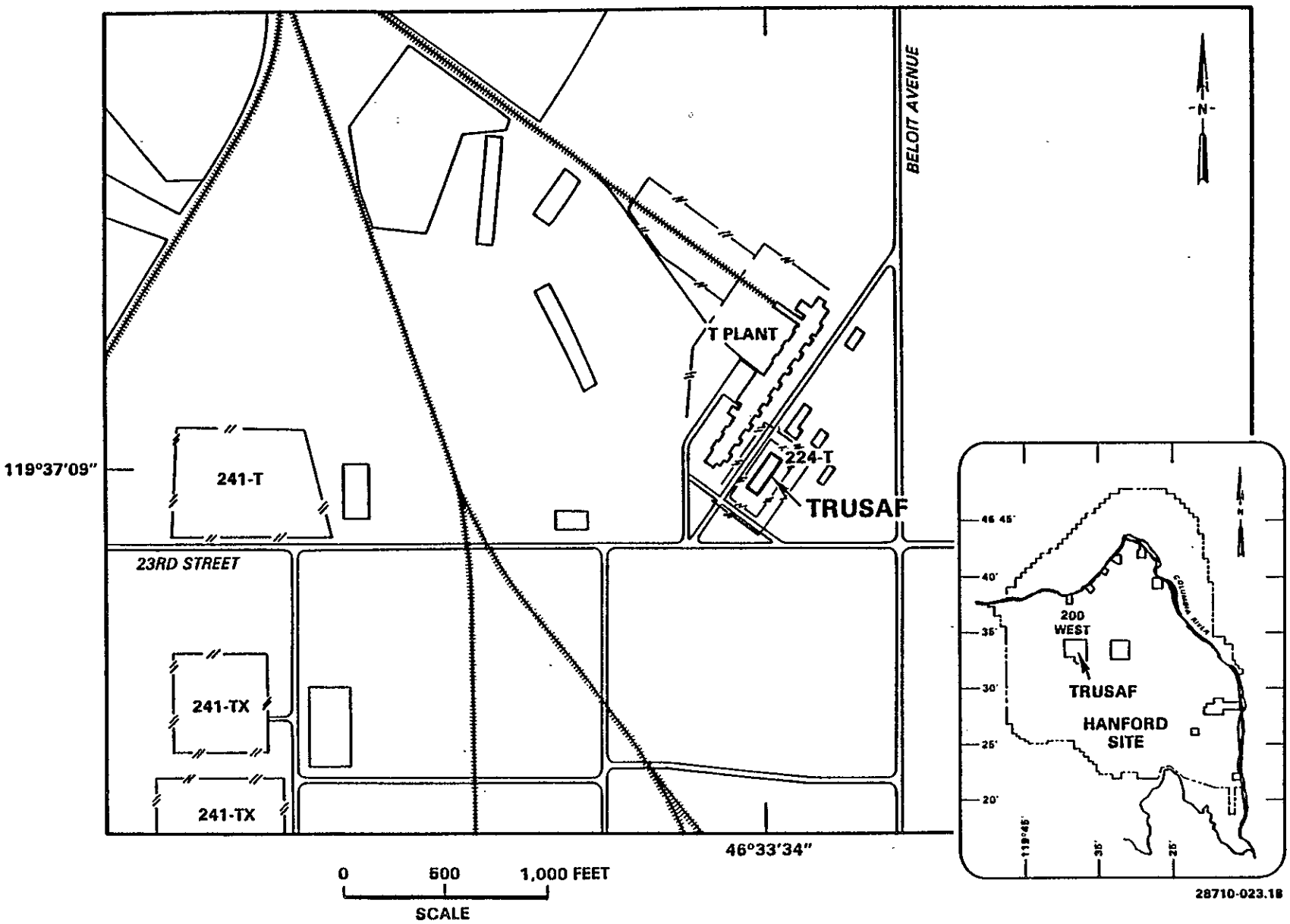
Date 12/3/87

William M. Jacobi
President
Westinghouse Hanford Company

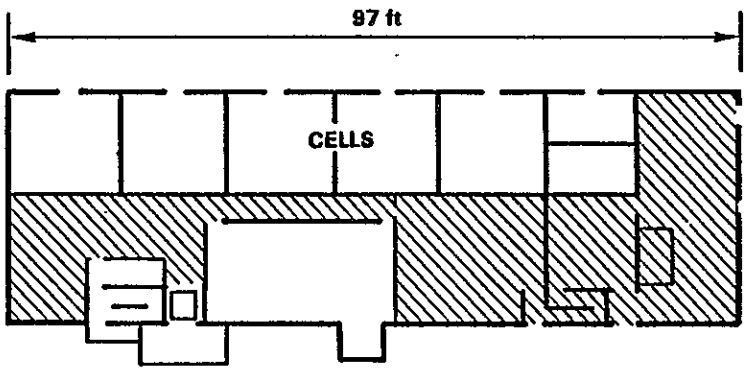
Date 12/1/87

9 0 1 1 7 7 1 1 5 4 7

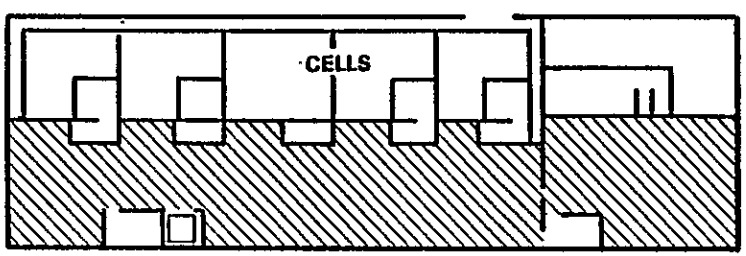
# 224-T BUILDING
# TRUSAF
## SITE PLAN



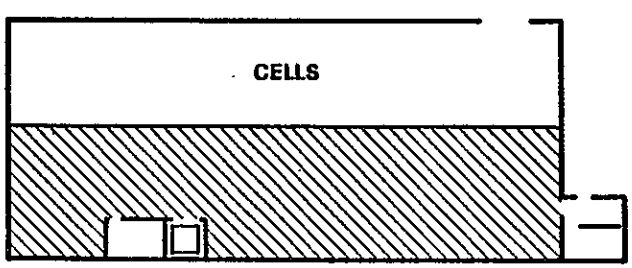
# 244-T BUILDING
# TRUSAF STORAGE AREAS



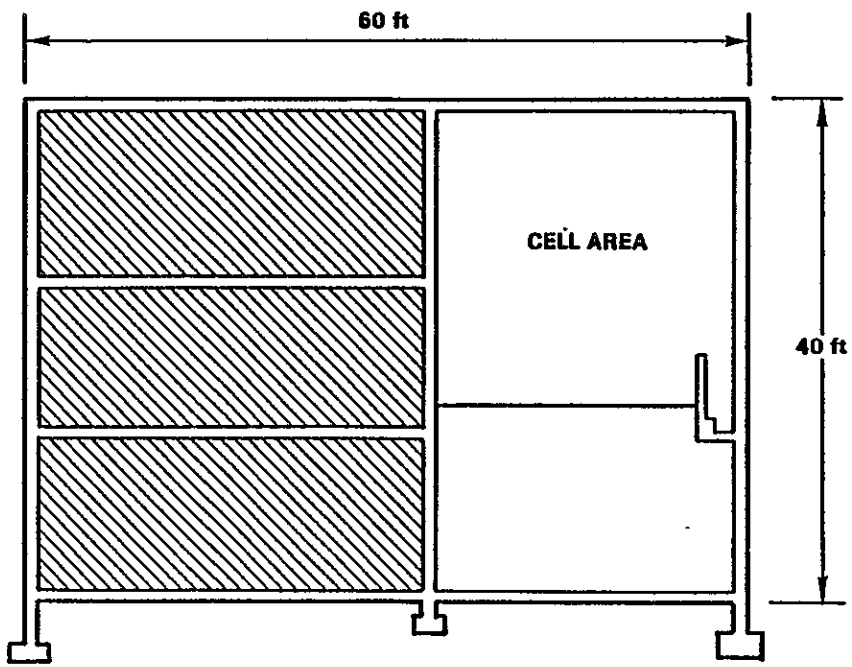

FIRST FLOOR




SECOND FLOOR




THIRD FLOOR

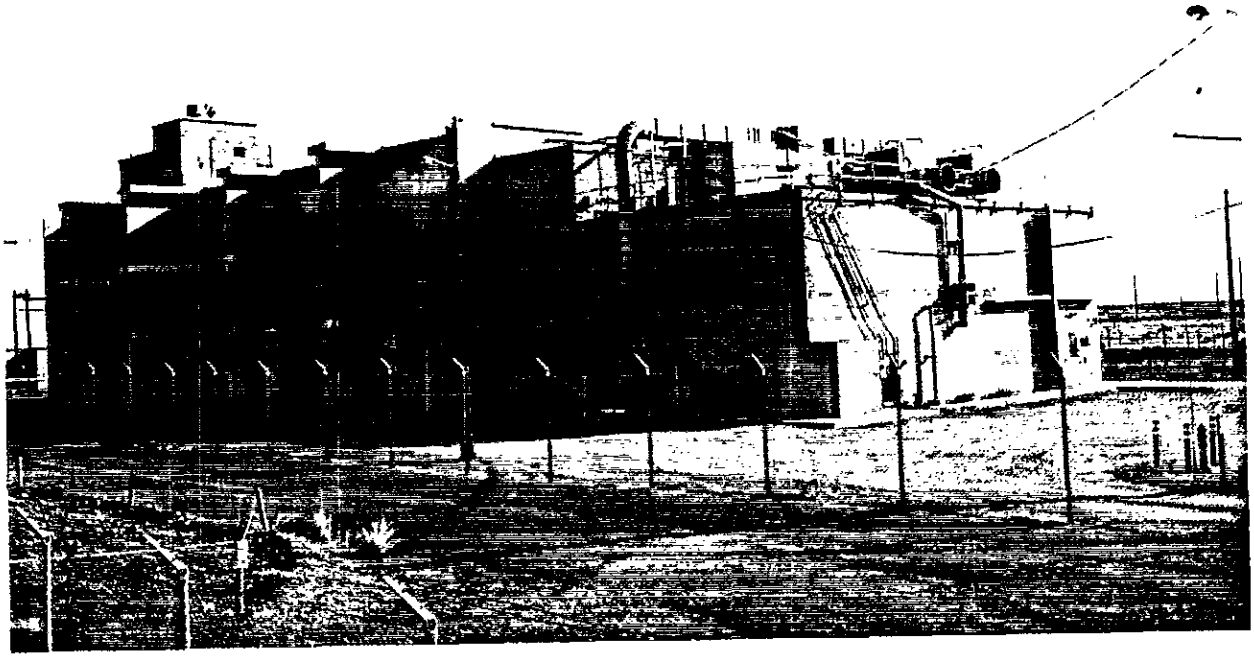



SECTION

28710-023.80

STORAGE AREA

# 224-T BUILDING TRUSAF



46°33'34"
119°37'09"

8706421-11CN

(PHOTO TAKEN 1987)

28710-023.48

# 224-T BUILDING TRUSAF

46°33'34"
119°37'09"

8700742-16CN

(PHOTO TAKEN 1987)

28710-023.47

Please take or type in the unshaded areas only
(Ill — areas are spaced for elite type, i.e., 12 characters/inch).

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

## FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the *first* application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO. | DAY | YR — FOR EXISTING FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

☐ 2. NEW FACILITY *(Complete item below.)*

MO. | DAY | YR — FOR NEW FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the *(Section III-C)*.

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER |
| LAND APPLICATION | D82 | *ACRES OR HECTARES* |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | S |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III *(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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S02 | 600 | G | | 5 | | | | |
| X-2 | T03 | 20 | E | | 6 | | | | |
| 1 | S01 | 6,000,000 | G | | 7 | | | | |
| 2 | T04 | 12,000 | G | | 8 | | | | |
| 3 | | | | | 9 | | | | |
| 4 | | | | | 10 | | | | |



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## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY

T04, S01
The Hanford Central Waste Complex will consist of a consolidated Waste Receiving and Processing (WRAP) facility for radioactive and nonradioactive solid wastes and storage facilities for radioactive mixed wastes (RMW). The WRAP facility will provide a central facility and mobile treatment units capable of treating up to 12,000 cubic meters per year of solid wastes in accordance with applicable codes and regulations. Solid wastes which will be managed include radioactive low-level waste (LLW), transuranic waste (TRU), RMW and nonradioactive dangerous waste. The RMW accepted for storage will be managed in Safety Storage Modules, temporary compliant prefabricated Butler-type buildings and then permanent storage buildings. The treatment design capacity is 12,000 gallons per day of solid waste and the storage design capacity is 6,000,000 gallons.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS 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 | 10,000 | P | S01T04 | Storage/Treatment |
| 2 | D002 | 500 | | | |
| 3 | D003 | 500 | | | |
| 4 | D004 | 500 | | | |
| 5 | D005 | 500 | | | |
| 6 | D006 | 500 | | | |
| 7 | D007 | 500 | | | |
| 8 | D008 | 100,000 | | | |
| 9 | D009 | 500 | | | |
| 10 | D010 | 500 | | | |
| 11 | D011 | 500 | | | |
| 12 | WT01 | 800,000 | | | |
| 13 | WT02 | 80,000 | | | |
| 14 | WP01 | 8,000 | | | |
| 15 | WP02 | 8,000 | | | |
| 16 | WP03 | 8,000 | | | |
| 17 | WC01 | 8,000 | | | |
| 18 | WC02 | 8,000 | | | |
| 19 | W001 | 22,000 | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | 8,000 | P | S01T04 | Storage/Treatment |
| 2 | F002 | | | | |
| 3 | F003 | | | | |
| 4 | F004 | | | | |
| 5 | F005 | | | | |
| 6 | F020 | 500 | P | S01T04 | Storage/Treatment |
| 7 | F021 | | | | |
| 8 | F022 | | | | |
| 9 | F023 | | | | |
| 10 | F026 | | | | |
| 11 | F027 | | | | |
| 12 | F028 | | | | |
| 13 | U001 | 500 | P | S01T04 | Storage/Treatment |
| 14 | U002 | | | | |
| 15 | U003 | | | | |
| 16 | U004 | | | | |
| 17 | U005 | | | | |
| 18 | U006 | | | | |
| 19 | U007 | | | | |
| 20 | U008 | | | | |
| 21 | U009 | | | | |
| 22 | U010 | | | | |
| 23 | U011 | | | | |
| 24 | U012 | | | | |
| 25 | U013 | | | | |
| 26 | U014 | | | | |



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NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000897

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS WASTE NO. (enter codes) | 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 | U015 | 500 | P | S01 T04 | Storage/Treatment |
| 2 | U016 | | | | |
| 3 | U017 | | | | |
| 4 | U018 | | | | |
| 5 | U019 | | | | |
| 6 | U020 | | | | |
| 7 | U021 | | | | |
| 8 | U022 | | | | |
| 9 | U023 | | | | |
| 10 | U024 | | | | |
| 11 | U025 | | | | |
| 12 | U026 | | | | |
| 13 | U027 | | | | |
| 14 | U028 | | | | |
| 15 | U029 | | | | |
| 16 | U030 | | | | |
| 17 | U031 | | | | |
| 18 | U032 | | | | |
| 19 | U033 | | | | |
| 20 | U034 | | | | |
| 21 | U035 | | | | |
| 22 | U036 | | | | |
| 23 | U037 | | | | |
| 24 | U038 | | | | |
| 25 | U039 | | | | |
| 26 | U041 | | | | |

9011773165

Continued from page 2.
NOTE Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS WASTE NO. (enter codes) | 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 | U042 | 500 | R | S01 T04 | Storage/Treatment |
| 2 | U043 | | | | |
| 3 | U044 | | | | |
| 4 | U045 | | | | |
| 5 | U046 | | | | |
| 6 | U047 | | | | |
| 7 | U048 | | | | |
| 8 | U049 | | | | |
| 9 | U050 | | | | |
| 10 | U051 | | | | |
| 11 | U052 | | | | |
| 12 | U053 | | | | |
| 13 | U055 | | | | |
| 14 | U056 | | | | |
| 15 | U057 | | | | |
| 16 | U058 | | | | |
| 17 | U059 | | | | |
| 18 | U060 | | | | |
| 19 | U061 | | | | |
| 20 | U062 | | | | |
| 21 | U063 | | | | |
| 22 | U064 | | | | |
| 23 | U066 | | | | |
| 24 | U067 | | | | |
| 25 | U068 | | | | |
| 26 | U069 | | | | |

9011773165 7

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U070 | 500 | P | S01 T04 | Storage/Treatment |
| 2 | U071 | | | | |
| 3 | U072 | | | | |
| 4 | U073 | | | | |
| 5 | U074 | | | | |
| 6 | U075 | | | | |
| 7 | U076 | | | | |
| 8 | U077 | | | | |
| 9 | U078 | | | | |
| 10 | U079 | | | | |
| 11 | U080 | | | | |
| 12 | U081 | | | | |
| 13 | U082 | | | | |
| 14 | U083 | | | | |
| 15 | U084 | | | | |
| 16 | U085 | | | | |
| 17 | U086 | | | | |
| 18 | U087 | | | | |
| 19 | U088 | | | | |
| 20 | U089 | | | | |
| 21 | U090 | | | | |
| 22 | U091 | | | | |
| 23 | U092 | | | | |
| 24 | U093 | | | | |
| 25 | U094 | | | | |
| 26 | U095 | | | | |

9011772165

Continued from page 2.
NOTE Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U096 | 500 | P | S01 T04 | Storage/Treatment |
| 2 | U097 | | | | |
| 3 | U098 | | | | |
| 4 | U101 | | | | |
| 5 | U102 | | | | |
| 6 | U107 | | | | |
| 7 | U108 | | | | |
| 8 | U112 | | | | |
| 9 | U113 | | | | |
| 10 | U116 | | | | |
| 11 | U117 | | | | |
| 12 | U118 | | | | |
| 13 | U119 | | | | |
| 14 | U120 | | | | |
| 15 | U123 | | | | |
| 16 | U124 | | | | |
| 17 | U134 | | | | |
| 18 | U136 | | | | |
| 19 | U137 | | | | |
| 20 | U139 | | | | |
| 21 | U140 | | | | |
| 22 | U145 | | | | |
| 23 | U146 | | | | |
| 24 | U148 | | | | |
| 25 | U149 | | | | |
| 26 | U150 | | | | |

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NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U151 | 500 | P | S01 T04 | Storage/Treatment |
| 2 | U152 | | | | |
| 3 | U153 | | | | |
| 4 | U154 | | | | |
| 5 | U155 | | | | |
| 6 | U156 | | | | |
| 7 | U157 | | | | |
| 8 | U158 | | | | |
| 9 | U159 | | | | |
| 10 | U160 | | | | |
| 11 | U161 | | | | |
| 12 | U162 | | | | |
| 13 | U163 | | | | |
| 14 | U164 | | | | |
| 15 | U165 | | | | |
| 16 | U166 | | | | |
| 17 | U167 | | | | |
| 18 | U168 | | | | |
| 19 | U169 | | | | |
| 20 | U170 | | | | |
| 21 | U171 | | | | |
| 22 | U172 | | | | |
| 23 | U173 | | | | |
| 24 | U174 | | | | |
| 25 | U175 | | | | |
| 26 | U176 | | | | |



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ntinued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000896 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE No. | A. DANGEROUS 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 | U177 | 500 | P | S01 T04 | Storage/Treatment |
| 2 | U178 | | | | |
| 3 | U179 | | | | |
| 4 | U180 | | | | |
| 5 | U181 | | | | |
| 6 | U182 | | | | |
| 7 | U183 | | | | |
| 8 | U184 | | | | |
| 9 | U185 | | | | |
| 10 | U186 | | | | |
| 11 | U187 | | | | |
| 12 | U188 | | | | |
| 13 | U189 | | | | |
| 14 | U190 | | | | |
| 15 | U191 | | | | |
| 16 | U192 | | | | |
| 17 | U193 | | | | |
| 18 | U194 | | | | |
| 19 | U196 | | | | |
| 20 | U197 | | | | |
| 21 | U200 | | | | |
| 22 | U201 | | | | |
| 23 | U202 | | | | |
| 24 | U203 | | | | |
| 25 | U204 | | | | |
| 26 | U205 | | | | |

9011773166 1

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS WASTE NO. (enter codes) | 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 | U206 | 500 | P | S01 T04 | Storage/Treatment |
| 2 | U207 | | | | |
| 3 | U208 | | | | |
| 4 | U209 | | | | |
| 5 | U210 | | | | |
| 6 | U211 | | | | |
| 7 | U212 | | | | |
| 8 | U213 | | | | |
| 9 | U214 | | | | |
| 10 | U215 | | | | |
| 11 | U216 | | | | |
| 12 | U217 | | | | |
| 13 | U218 | | | | |
| 14 | U219 | | | | |
| 15 | U220 | | | | |
| 16 | U221 | | | | |
| 17 | U222 | | | | |
| 18 | U223 | | | | |
| 19 | U225 | | | | |
| 20 | U226 | | | | |
| 21 | U227 | | | | |
| 22 | U228 | | | | |
| 23 | U230 | | | | |
| 24 | U231 | | | | |
| 25 | U232 | | | | |
| 26 | U233 | | | | |

9011773166 2

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

| I.D. NUMBER (enter from page 1) |
|---|
| WA7890008967 |

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U234 | 500 | P | S01T04 | Storage/Treatment |
| 2 | U235 | | | | |
| 3 | U236 | | | | |
| 4 | U237 | | | | |
| 5 | U238 | | | | |
| 6 | U239 | | | | |
| 7 | U240 | | | | |
| 8 | U241 | | | | |
| 9 | U242 | | | | |
| 10 | U243 | | | | |
| 11 | U244 | | | | |
| 12 | U245 | | | | |
| 13 | U246 | | | | |
| 14 | U247 | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |

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Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000897

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P001 | 500 | P | S01 T04 | Storage/Treatment |
| 2 | P002 | | | | |
| 3 | P003 | | | | |
| 4 | P004 | | | | |
| 5 | P005 | | | | |
| 6 | P006 | | | | |
| 7 | P007 | | | | |
| 8 | P008 | | | | |
| 9 | P009 | | | | |
| 10 | P010 | | | | |
| 11 | P011 | | | | |
| 12 | P012 | | | | |
| 13 | P013 | | | | |
| 14 | P014 | | | | |
| 15 | P015 | | | | |
| 16 | P016 | | | | |
| 17 | P017 | | | | |
| 18 | P018 | | | | |
| 19 | P020 | | | | |
| 20 | P021 | | | | |
| 21 | P022 | | | | |
| 22 | P023 | | | | |
| 23 | P024 | | | | |
| 24 | P025 | | | | |
| 25 | P026 | | | | |
| 26 | P027 | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P048 | 500 | P | S01T04 | Storage/Treatment |
| 2 | P029 | | | | |
| 3 | P030 | | | | |
| 4 | P031 | | | | |
| 5 | P033 | | | | |
| 6 | P034 | | | | |
| 7 | P035 | | | | |
| 8 | P036 | | | | |
| 9 | P037 | | | | |
| 10 | P038 | | | | |
| 11 | P039 | | | | |
| 12 | P040 | | | | |
| 13 | P041 | | | | |
| 14 | P042 | | | | |
| 15 | P043 | | | | |
| 16 | P044 | | | | |
| 17 | P045 | | | | |
| 18 | P046 | | | | |
| 19 | P047 | | | | |
| 20 | P048 | | | | |
| 21 | P049 | | | | |
| 22 | P050 | | | | |
| 23 | P051 | | | | |
| 24 | P054 | | | | |
| 25 | P056 | | | | |
| 26 | | | | | |

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ntinued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA 7 8 9 0 0 0 8 9 6 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P052 | 500 | P | S01 T04 | Storage/Treatment |
| 2 | P058 | | | | |
| 3 | P059 | | | | |
| 4 | P060 | | | | |
| 5 | P062 | | | | |
| 6 | P063 | | | | |
| 7 | P064 | | | | |
| 8 | P065 | | | | |
| 9 | P066 | | | | |
| 10 | P067 | | | | |
| 11 | P068 | | | | |
| 12 | P069 | | | | |
| 13 | P070 | | | | |
| 14 | P071 | | | | |
| 15 | P072 | | | | |
| 16 | P073 | | | | |
| 17 | P074 | | | | |
| 18 | P075 | | | | |
| 19 | P076 | | | | |
| 20 | P077 | | | | |
| 21 | P078 | | | | |
| 22 | P079 | | | | |
| 23 | P081 | | | | |
| 24 | P082 | | | | |
| 25 | P084 | | | | |
| 26 | P085 | | | | |

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NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P087 | 500 | P | S01 T04 | Storage/Treatment |
| 2 | P088 | | | | |
| 3 | P089 | | | | |
| 4 | P092 | | | | |
| 5 | P093 | | | | |
| 6 | P094 | | | | |
| 7 | P095 | | | | |
| 8 | P096 | | | | |
| 9 | P097 | | | | |
| 10 | P098 | | | | |
| 11 | P099 | | | | |
| 12 | P101 | | | | |
| 13 | P102 | | | | |
| 14 | P103 | | | | |
| 15 | P104 | | | | |
| 16 | P105 | | | | |
| 17 | P106 | | | | |
| 18 | P107 | | | | |
| 19 | P108 | | | | |
| 20 | P109 | | | | |
| 21 | P110 | | | | |
| 22 | P111 | | | | |
| 23 | P112 | | | | |
| 24 | P113 | | | | |
| 25 | P114 | | | | |
| 26 | P115 | | | | |

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NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

| I.D. NUMBER (enter from page 1) |
|---|
| WA789000896 7 |

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | 20,000 | K | T04 | Treatment |
| 2 | D002 | 15,000 | | | |
| 3 | D003 | 500 | | | |
| 4 | D004 | 50 | | | |
| 5 | D005 | 400 | | | |
| 6 | D006 | 117 | | | |
| 7 | D007 | 400 | | | |
| 8 | D008 | 400 | | | |
| 9 | D009 | 800 | | | |
| 10 | D010 | 10 | | | |
| 11 | D011 | 20 | | | |
| 12 | WT01 | 16,000 | | | |
| 13 | WT02 | 22,000 | | | |
| 14 | WP01 | 12,000 | | | |
| 15 | WP02 | 3,000 | | | |
| 16 | WP03 | 2,000 | | | |
| 17 | WC01 | 5,000 | | | |
| 18 | WC02 | 2,000 | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000897

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS 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 | 4,000 | K | T04 | Treatment |
| 2 | F002 | 4,500 | | | |
| 3 | F003 | 6,500 | | | |
| 4 | F004 | 570 | | | |
| 5 | F005 | 6,000 | | | |
| 6 | F027 | 500 | | | |
| 7 | U001 | | | | |
| 8 | U002 | 1,000 | | | |
| 9 | U003 | | | | |
| 10 | U004 | 500 | | | |
| 11 | U005 | | | | |
| 12 | U006 | | | | |
| 13 | U007 | | | | |
| 14 | U008 | | | | |
| 15 | U009 | | | | |
| 16 | U010 | | | | |
| 17 | U011 | | | | |
| 18 | U012 | | | | |
| 19 | U014 | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |

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NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000897

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U015 | 500 | K | T04 | Treatment |
| 2 | U016 | | | | |
| 3 | U017 | | | | |
| 4 | U018 | | | | |
| 5 | U019 | | | | |
| 6 | U020 | | | | |
| 7 | U021 | | | | |
| 8 | U022 | | | | |
| 9 | U023 | | | | |
| 10 | U024 | | | | |
| 11 | U025 | | | | |
| 12 | U026 | | | | |
| 13 | U027 | | | | |
| 14 | U028 | | | | |
| 15 | U029 | | | | |
| 16 | U030 | | | | |
| 17 | U031 | | | | |
| 18 | U032 | 1,000 | | | |
| 19 | U033 | 500 | | | |
| 20 | U034 | | | | |
| 21 | U035 | | | | |
| 22 | U036 | | | | |
| 23 | U037 | | | | |
| 24 | U038 | | | | |
| 25 | U039 | | | | |
| 26 | U041 | | | | |



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Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U042 | 500 | K | T04 | Treatment |
| 2 | U043 | | | | |
| 3 | U044 | 1,000 | | | |
| 4 | U045 | 500 | | | |
| 5 | U046 | | | | |
| 6 | U047 | | | | |
| 7 | U048 | | | | |
| 8 | U049 | | | | |
| 9 | U050 | | | | |
| 10 | U051 | 2,000 | | | |
| 11 | U052 | 500 | | | |
| 12 | U053 | | | | |
| 13 | U055 | | | | |
| 14 | U056 | | | | |
| 15 | U057 | | | | |
| 16 | U058 | | | | |
| 17 | U059 | | | | |
| 18 | U060 | | | | |
| 19 | U061 | | | | |
| 20 | U062 | | | | |
| 21 | U063 | | | | |
| 22 | U064 | | | | |
| 23 | U066 | | | | |
| 24 | U067 | | | | |
| 25 | U068 | | | | |
| 26 | U069 | | | | |

Continued from page 2.
NOTE Photocopy this page before completing if you have more than 28 wastes to list.

I.D. NUMBER (enter from page 1)

WA789000896 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U070 | 500 | K | T04 | Treatment |
| 2 | U071 | | | | |
| 3 | U072 | | | | |
| 4 | U073 | | | | |
| 5 | U074 | | | | |
| 6 | U075 | | | | |
| 7 | U076 | | | | |
| 8 | U077 | | | | |
| 9 | U078 | | | | |
| 10 | U079 | | | | |
| 11 | U080 | | | | |
| 12 | U081 | | | | |
| 13 | U082 | | | | |
| 14 | U083 | | | | |
| 15 | U084 | | | | |
| 16 | U085 | | | | |
| 17 | U086 | | | | |
| 18 | U087 | | | | |
| 19 | U088 | | | | |
| 20 | U089 | | | | |
| 21 | U090 | | | | |
| 22 | U091 | | | | |
| 23 | U092 | | | | |
| 24 | U093 | | | | |
| 25 | U094 | | | | |
| 26 | U095 | | | | |

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Continued from page 2.
NOTE Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U096 | 500 | K | T04 | Treatment |
| 2 | U097 | | | | |
| 3 | U098 | | | | |
| 4 | U099 | | | | |
| 5 | U101 | | | | |
| 6 | U102 | | | | |
| 7 | U103 | | | | |
| 8 | U105 | | | | |
| 9 | U106 | | | | |
| 10 | U107 | | | | |
| 11 | U108 | | | | |
| 12 | U109 | | | | |
| 13 | U110 | | | | |
| 14 | U111 | | | | |
| 15 | U112 | | | | |
| 16 | U113 | | | | |
| 17 | U114 | | | | |
| 18 | U115 | | | | |
| 19 | U116 | | | | |
| 20 | U117 | | | | |
| 21 | U118 | | | | |
| 22 | U119 | | | | |
| 23 | U120 | | | | |
| 24 | U121 | | | | |
| 25 | U122 | | | | |
| 26 | U123 | | | | |



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Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U124 | 500 | K | T04 | Treatment |
| 2 | U125 | | | | |
| 3 | U126 | | | | |
| 4 | U127 | | | | |
| 5 | U128 | | | | |
| 6 | U129 | | | | |
| 7 | U130 | | | | |
| 8 | U131 | | | | |
| 9 | U132 | | | | |
| 10 | U133 | 5,000 | | | |
| 11 | U134 | 1,000 | | | |
| 12 | U135 | 500 | | | |
| 13 | U136 | | | | |
| 14 | U137 | | | | |
| 15 | U138 | | | | |
| 16 | U139 | | | | |
| 17 | U140 | | | | |
| 18 | U141 | | | | |
| 19 | U142 | | | | |
| 20 | U143 | | | | |
| 21 | U144 | | | | |
| 22 | U145 | 1,000 | | | |
| 23 | U146 | 500 | | | |
| 24 | U147 | | | | |
| 25 | U148 | | | | |
| 26 | U149 | | | | |



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Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U151 | 5,000 | K | T04 | Treatment |
| 2 | U152 | 500 | | | |
| 3 | U153 | | | | |
| 4 | U154 | 1,000 | | | |
| 5 | U155 | 500 | | | |
| 6 | U156 | | | | |
| 7 | U157 | | | | |
| 8 | U158 | | | | |
| 9 | U159 | | | | |
| 10 | U160 | | | | |
| 11 | U161 | | | | |
| 12 | U162 | | | | |
| 13 | U163 | | | | |
| 14 | U164 | | | | |
| 15 | U165 | | | | |
| 16 | U166 | | | | |
| 17 | U167 | | | | |
| 18 | U168 | | | | |
| 19 | U169 | | | | |
| 20 | U170 | | | | |
| 21 | U171 | | | | |
| 22 | U172 | | | | |
| 23 | U173 | | | | |
| 24 | U174 | | | | |
| 25 | U175 | | | | |
| 26 | U176 | | | | |

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Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS 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 | U177 | 500 | K | T04 | Treatment |
| 2 | U178 | | | | |
| 3 | U179 | | | | |
| 4 | U180 | | | | |
| 5 | U181 | | | | |
| 6 | U182 | | | | |
| 7 | U183 | | | | |
| 8 | U184 | | | | |
| 9 | U185 | | | | |
| 10 | U186 | | | | |
| 11 | U187 | | | | |
| 12 | U188 | | | | |
| 13 | U189 | | | | |
| 14 | U190 | | | | |
| 15 | U191 | | | | |
| 16 | U192 | | | | |
| 17 | U193 | | | | |
| 18 | U194 | | | | |
| 19 | U196 | | | | |
| 20 | U197 | | | | |
| 21 | U200 | | | | |
| 22 | U201 | | | | |
| 23 | U202 | | | | |
| 24 | U203 | | | | |
| 25 | U204 | | | | |
| 26 | U205 | | | | |



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Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U206 | 500 | K | T04 | Treatment |
| 2 | U207 | | | | |
| 3 | U208 | | | | |
| 4 | U209 | | | | |
| 5 | U210 | 1,500 | | | |
| 6 | U211 | 5,000 | | | |
| 7 | U212 | 500 | | | |
| 8 | U213 | | | | |
| 9 | U214 | | | | |
| 10 | U215 | | | | |
| 11 | U216 | | | | |
| 12 | U217 | | | | |
| 13 | U218 | | | | |
| 14 | U219 | | | | |
| 15 | U220 | 1,500 | | | |
| 16 | U221 | 500 | | | |
| 17 | U222 | | | | |
| 18 | U223 | 1,500 | | | |
| 19 | U225 | | | | |
| 20 | U226 | 5,000 | | | |
| 21 | U227 | 500 | | | |
| 22 | U228 | 1,000 | | | |
| 23 | U230 | | | | |
| 24 | U231 | | | | |
| 25 | U232 | | | | |
| 26 | U233 | | | | |

ECL30 271- ECY 030-31 Form 3
PAGE 3 OF 5
(enter "A", "B", "C" etc. behind the "3" to identify photocopied pages)
CONTINUE ON REVERSE

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U234 | 500 | K | T04 | Treatment |
| 2 | U235 | 1,000 | | | |
| 3 | U236 | | | | |
| 4 | U237 | | | | |
| 5 | U238 | 500 | | | |
| 6 | U239 | 1,000 | | | |
| 7 | U242 | | | | |
| 8 | U243 | | | | |
| 9 | U244 | 1,000 | | | |
| 10 | U150 | 500 | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |



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Continued from page 2.
NOTE Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS 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 | P001 | 500 | K | T04 | Treatment |
| 2 | P002 | | | | |
| 3 | P003 | | | | |
| 4 | P004 | | | | |
| 5 | P005 | | | | |
| 6 | P006 | | | | |
| 7 | P007 | | | | |
| 8 | P008 | | | | |
| 9 | P009 | | | | |
| 10 | P010 | | | | |
| 11 | P011 | | | | |
| 12 | P012 | | | | |
| 13 | P013 | | | | |
| 14 | P014 | | | | |
| 15 | P015 | | | | |
| 16 | P016 | | | | |
| 17 | P017 | | | | |
| 18 | P018 | | | | |
| 19 | P020 | | | | |
| 20 | P021 | | | | |
| 21 | P022 | | | | |
| 22 | P023 | | | | |
| 23 | P024 | | | | |
| 24 | P025 | | | | |
| 25 | P026 | | | | |
| 26 | P027 | | | | |

9011771679

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

| I.D. NUMBER (enter from page 1) |
|---|
| WA7890008967 |

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P028 | 500 | K | T04 | Treatment |
| 2 | P029 | | | | |
| 3 | P030 | | | | |
| 4 | P031 | | | | |
| 5 | P033 | | | | |
| 6 | P034 | | | | |
| 7 | P035 | | | | |
| 8 | P036 | | | | |
| 9 | P037 | | | | |
| 10 | P038 | | | | |
| 11 | P039 | | | | |
| 12 | P040 | | | | |
| 13 | P041 | | | | |
| 14 | P042 | | | | |
| 15 | P043 | | | | |
| 16 | P044 | | | | |
| 17 | P045 | | | | |
| 18 | P046 | | | | |
| 19 | P047 | | | | |
| 20 | P048 | | | | |
| 21 | P049 | | | | |
| 22 | P050 | | | | |
| 23 | P051 | | | | |
| 24 | P054 | | | | |
| 25 | P056 | | | | |
| 26 | | | | | |

9011771680

Continued from page 2.
NOTE Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P052 | 500 | K | T04 | Treatment |
| 2 | P058 | | | | |
| 3 | P059 | | | | |
| 4 | P060 | | | | |
| 5 | P062 | | | | |
| 6 | P063 | | | | |
| 7 | P064 | | | | |
| 8 | P065 | | | | |
| 9 | P066 | | | | |
| 10 | P067 | | | | |
| 11 | P068 | | | | |
| 12 | P069 | | | | |
| 13 | P070 | | | | |
| 14 | P071 | | | | |
| 15 | P072 | | | | |
| 16 | P073 | | | | |
| 17 | P074 | | | | |
| 18 | P075 | | | | |
| 19 | P076 | | | | |
| 20 | P077 | | | | |
| 21 | P078 | | | | |
| 22 | P079 | | | | |
| 23 | P081 | | | | |
| 24 | P082 | | | | |
| 25 | P084 | | | | |
| 26 | P085 | | | | |

9011771631

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 28 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS 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 | P052 | 500 | K | T04 | Treatment |
| 2 | P058 | | | | |
| 3 | P059 | | | | |
| 4 | P060 | | | | |
| 5 | P062 | | | | |
| 6 | P063 | | | | |
| 7 | P064 | | | | |
| 8 | P065 | | | | |
| 9 | P066 | | | | |
| 10 | P067 | | | | |
| 11 | P068 | | | | |
| 12 | P069 | | | | |
| 13 | P070 | | | | |
| 14 | P071 | | | | |
| 15 | P072 | | | | |
| 16 | P073 | | | | |
| 17 | P074 | | | | |
| 18 | P075 | | | | |
| 19 | P076 | | | | |
| 20 | P077 | | | | |
| 21 | P078 | | | | |
| 22 | P079 | | | | |
| 23 | P081 | | | | |
| 24 | P082 | | | | |
| 25 | P084 | | | | |
| 26 | P085 | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

| I.D. NUMBER (enter from page 1) |
|---|
| WA7890008967 |

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P087 | 500 | K | T04 | Treatment |
| 2 | P088 | | | | |
| 3 | P089 | | | | |
| 4 | P092 | | | | |
| 5 | P093 | | | | |
| 6 | P094 | | | | |
| 7 | P095 | | | | |
| 8 | P096 | | | | |
| 9 | P097 | | | | |
| 10 | P098 | | | | |
| 11 | P099 | | | | |
| 12 | P101 | | | | |
| 13 | P102 | | | | |
| 14 | P103 | | | | |
| 15 | P104 | | | | |
| 16 | P105 | | | | |
| 17 | P106 | | | | |
| 18 | P107 | | | | |
| 19 | P108 | | | | |
| 20 | P109 | | | | |
| 21 | P110 | | | | |
| 22 | P111 | | | | |
| 23 | P112 | | | | |
| 24 | P113 | | | | |
| 25 | P114 | | | | |
| 26 | P115 | | | | |

9011773169 3

ontinued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

ID. NUMBER (enter from page 1): WA789000896 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P116 | 500 | K | T04 | Treatment |
| 2 | P118 | | | | |
| 3 | P119 | | | | |
| 4 | P120 | | | | |
| 5 | P121 | | | | |
| 6 | P122 | | | | |
| 7 | P123 | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
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## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The solid wastes to be managed at the Hanford Central Waste Complex will include radioactive and nonradioactive dangerous waste generated from various operations both on and off the Hanford Site. These wastes will consist of listed waste, wastes from non-specific sources, characteristic wastes and state-only wastes (extremely hazardous and dangerous wastes).

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION *This information is provided on attached drawing and photo

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| | |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | 5-19-88 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

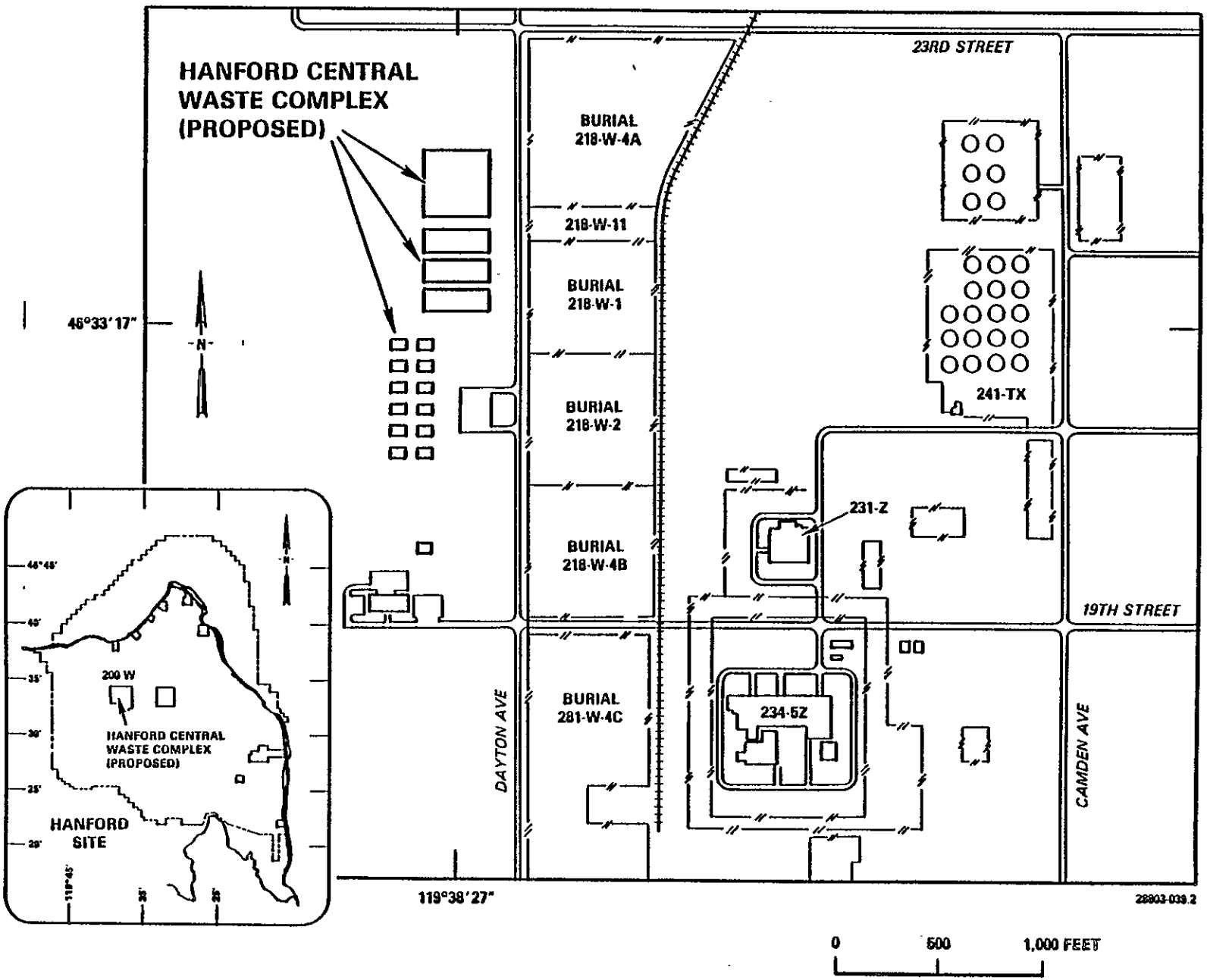
Michael J. Lawrence — 5-19-88
Date

Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy

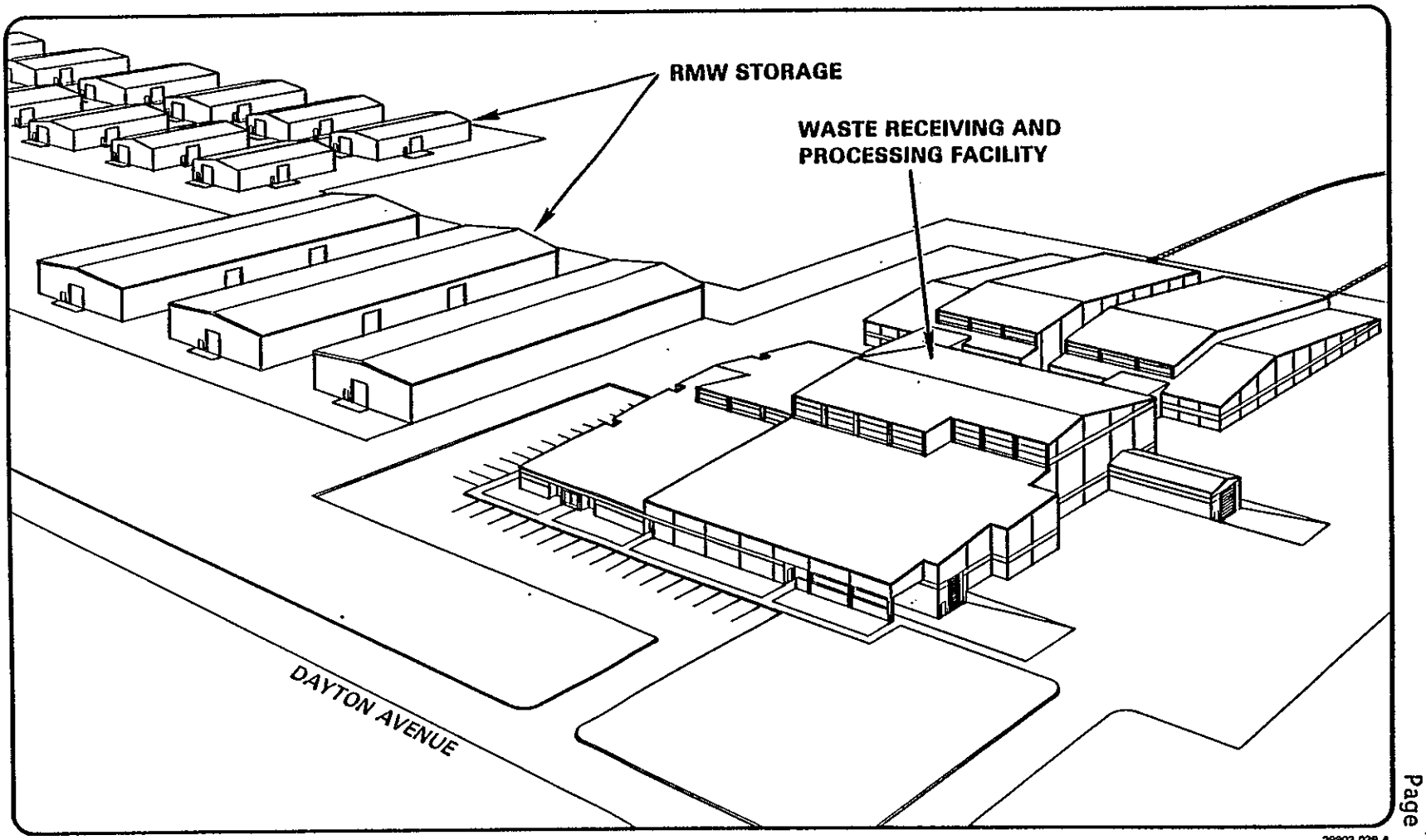
W. M. Jacobi — 5/13/88
Date

William M. Jacobi
President
Westinghouse Hanford Company
Co-operator

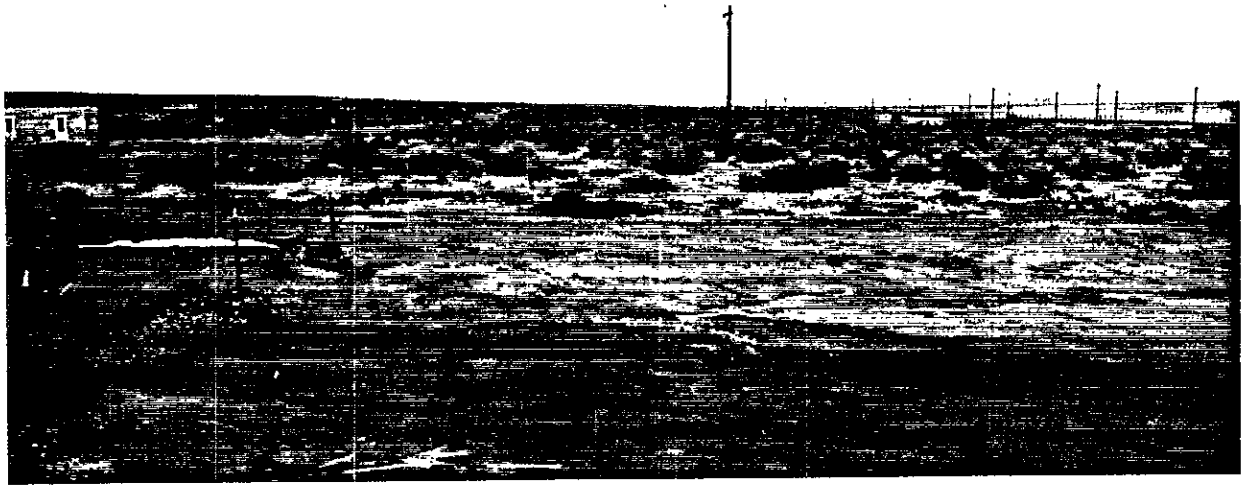
# HANFORD CENTRAL WASTE COMPLEX
## PROPOSED SITE PLAN



# HANFORD CENTRAL WASTE COMPLEX
## CONCEPTUAL FACILITY LAYOUT



# HANFORD CENTRAL WASTE COMPLEX PROPOSED SITE



46°33'17"
119°38'27"

8800284-17CN

(PHOTO TAKEN 1988)

2B8707-13.44

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## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY

S02

One hundred forty-nine single-shell tanks were built between 1943 and 1964 to store radioactive mixed waste generated at the Hanford Site. One hundred thirty-three of the single-shell tanks are 75 feet in diameter with nominal capacities of 500,000 to 1,000,000 gallons (100 series). Sixteen of the tanks are smaller units of a similar design with a 20 foot diameter and a capacity of 55,000 gallons (200 series). An attached table lists tank capacities and descriptions. The single-shell tanks collectively have a design capacity of 91,880,000 gallons.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

ID. NUMBER (enter from page 1)
WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | WT01 | 450,000,000 | P | S02 | Tank Storage |
| 2 | D002 | | | | Included in above |
| 3 | D005 | | | | Included in above |
| 4 | D006 | | | | Included in above |
| 5 | D007 | | | | Included in above |
| 6 | D008 | | | | Included in above |
| 7 | D009 | | | | Included in above |
| 8 | D010 | | | | Included in above |
| 9 | D011 | | | | Included in above |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |

Continued from the front

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The radioactive mixed waste stored in the single-shell tanks was generated by four major chemical processing operations: the Bismuth Phosphate (BiPO) process, the Reduction-Oxidation (REDOX) process, the Plutonium-Uranium Extraction (PUREX) process and the Tributyl Phosphate (TBP) process.

The waste codes listed under the description of dangerous waste are based on a computer model and past process knowledge rather than chemical analyses of the waste itself. The waste quantity listed is based upon an average density of the waste calculated from the densities of twenty-six core samples taken of waste stored in various single-shell tanks. The average density (12 lb/gallon) was then multiplied by the total volume of waste currently stored in the single-shell tanks (37,082,000 gallons).

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION *This information appears on the attached drawings and photograph

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| | |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | 2-26-88 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

Please print or type in the unshaded areas only
(Fill-in areas are spaced for elite type, i.e., 12 characters/inch)

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO. | DAY | YR — FOR EXISTING FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)* *see attached table

☐ 2. NEW FACILITY *(Complete item below.)*

MO. | DAY | YR — FOR NEW FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the *(Section III-C)*.

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| STE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| FACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER |
| LAND APPLICATION | D82 | *ACRES OR HECTARES* |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | S |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III *(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) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | B. 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | | 5 | | | | |
| X-2 | T 0 3 | 20 | E | | 6 | | | | |
| 1 | S 0 2 | 91,880,000 | G | | 7 | | | | |
| 2 | | | | | 8 | | | | |
| 3 | | | | | 9 | | | | |
| 4 | | | | | 10 | | | | |

| TANK NUMBER | YEAR OF CONSTRUCTION | YEAR REMOVED[1] FROM SERVICE | OPERATING CAPACITY |
|---|---|---|---|
| 241-A-101 | 1954-1955 | 1980 | 1,000,000 |
| 241-A-102 | 1954-1955 | 1980 | 1,000,000 |
| 241-A-103 | 1954-1955 | 1980 | 1,000,000 |
| 241-A-104 | 1954-1955 | 1975 | 1,000,000 |
| 241-A-105 | 1954-1955 | 1963 | 1,000,000 |
| 241-A-106 | 1954-1955 | 1980 | 1,000,000 |
| 241-AX-101 | 1963-1964 | 1980 | 1,000,000 |
| 241-AX-102 | 1963-1964 | 1980 | 1,000,000 |
| 241-AX-103 | 1963-1964 | 1980 | 1,000,000 |
| 241-AX-104 | 1963-1964 | 1978 | 1,000,000 |
| 241-B-101 | 1943-1944 | 1974 | 500,000 |
| 241-B-102 | 1943-1944 | 1978 | 500,000 |
| 241-B-103 | 1943-1944 | 1977 | 500,000 |
| 241-B-104 | 1943-1944 | 1972 | 500,000 |
| 241-B-105 | 1943-1944 | 1972 | 500,000 |
| 241-B-106 | 1943-1944 | 1977 | 500,000 |
| 241-B-107 | 1943-1944 | 1969 | 500,000 |
| 241-B-108 | 1943-1944 | 1977 | 500,000 |
| 241-B-109 | 1943-1944 | 1977 | 500,000 |
| 241-B-110 | 1943-1944 | 1971 | 500,000 |
| 241-B-111 | 1943-1944 | 1976 | 500,000 |
| 241-B-112 | 1943-1944 | 1977 | 500,000 |
| 241-B-201 | 1943-1944 | 1971 | 55,000 |
| 241-B-202 | 1943-1944 | 1977 | 55,000 |
| 241-B-203 | 1943-1944 | 1977 | 55,000 |
| 241-B-204 | 1943-1944 | 1977 | 55,000 |
| 241-BX-101 | 1946-1947 | 1972 | 500,000 |
| 241-BX-102 | 1946-1947 | 1971 | 500,000 |
| 241-BX-103 | 1946-1947 | 1977 | 500,000 |
| 241-BX-104 | 1946-1947 | 1980 | 500,000 |
| 241-BX-105 | 1946-1947 | 1980 | 500,000 |
| 241-BX-106 | 1946-1947 | 1971 | 500,000 |
| 241-BX-107 | 1946-1947 | 1977 | 500,000 |
| 241-BX-108 | 1946-1947 | 1974 | 500,000 |
| 241-BX-109 | 1946-1947 | 1974 | 500,000 |
| 241-BX-110 | 1946-1947 | 1977 | 500,000 |
| 241-BX-111 | 1946-1947 | 1977 | 500,000 |
| 241-BX-112 | 1946-1947 | 1977 | 500,000 |
| 241-BY-101 | 1948-1949 | 1971 | 750,000 |
| 241-BY-102 | 1948-1949 | 1977 | 750,000 |
| 241-BY-103 | 1948-1949 | 1973 | 750,000 |
| 241-BY-104 | 1948-1949 | 1977 | 750,000 |
| 241-BY-105 | 1948-1949 | 1974 | 750,000 |

| TANK NUMBER | YEAR OF CONSTRUCTION | YEAR REMOVED[1] FROM SERVICE | OPERATING CAPACITY |
|---|---|---|---|
| 241-BY-106 | 1948-1949 | 1977 | 750,000 |
| 241-BY-107 | 1948-1949 | 1974 | 750,000 |
| 241-BY-108 | 1948-1949 | 1972 | 750,000 |
| 241-BY-109 | 1948-1949 | 1979 | 750,000 |
| 241-BY-110 | 1948-1949 | 1979 | 750,000 |
| 241-BY-111 | 1948-1949 | 1977 | 750,000 |
| 241-BY-112 | 1948-1949 | 1978 | 750,000 |
| 241-C-101 | 1943-1944 | 1970 | 500,000 |
| 241-C-102 | 1943-1944 | 1976 | 500,000 |
| 241-C-103 | 1943-1944 | 1979 | 500,000 |
| 241-C-104 | 1943-1944 | 1980 | 500,000 |
| 241-C-105 | 1943-1944 | 1979 | 500,000 |
| 241-C-106 | 1943-1944 | 1979 | 500,000 |
| 241-C-107 | 1943-1944 | 1978 | 500,000 |
| 241-C-108 | 1943-1944 | 1976 | 500,000 |
| 241-C-109 | 1943-1944 | 1976 | 500,000 |
| 241-C-110 | 1943-1944 | 1976 | 500,000 |
| 241-C-111 | 1943-1944 | 1978 | 500,000 |
| 241-C-112 | 1943-1944 | 1976 | 500,000 |
| 241-C-201 | 1943-1944 | 1977 | 55,000 |
| 241-C-202 | 1943-1944 | 1977 | 55,000 |
| 241-C-203 | 1943-1944 | 1977 | 55,000 |
| 241-C-204 | 1943-1944 | 1977 | 55,000 |
| 241-S-101 | 1950-1951 | 1980 | 750,000 |
| 241-S-102 | 1950-1951 | 1980 | 750,000 |
| 241-S-103 | 1950-1951 | 1980 | 750,000 |
| 241-S-104 | 1950-1951 | 1968 | 750,000 |
| 241-S-105 | 1950-1951 | 1974 | 750,000 |
| 241-S-106 | 1950-1951 | 1979 | 750,000 |
| 241-S-107 | 1950-1951 | 1980 | 750,000 |
| 241-S-108 | 1950-1951 | 1979 | 750,000 |
| 241-S-109 | 1950-1951 | 1979 | 750,000 |
| 241-S-110 | 1950-1951 | 1979 | 750,000 |
| 241-S-111 | 1950-1951 | 1972 | 750,000 |
| 241-S-112 | 1950-1951 | 1974 | 750,000 |

| TANK NUMBER | YEAR OF CONSTRUCTION | YEAR REMOVED[1] FROM SERVICE | OPERATING CAPACITY |
|---|---|---|---|
| 241-SX-101 | 1953-1954 | 1980 | 1,000,000 |
| 241-SX-102 | 1953-1954 | 1980 | 1,000,000 |
| 241-SX-103 | 1953-1954 | 1980 | 1,000,000 |
| 241-SX-104 | 1953-1954 | 1980 | 1,000,000 |
| 241-SX-105 | 1953-1954 | 1980 | 1,000,000 |
| 241-SX-106 | 1953-1954 | 1980 | 1,000,000 |
| 241-SX-107 | 1953-1954 | 1964 | 1,000,000 |
| 241-SX-108 | 1953-1954 | 1962 | 1,000,000 |
| 241-SX-109 | 1953-1954 | 1965 | 1,000,000 |
| 241-SX-110 | 1953-1954 | 1976 | 1,000,000 |
| 241-SX-111 | 1953-1954 | 1974 | 1,000,000 |
| 241-SX-112 | 1953-1954 | 1969 | 1,000,000 |
| 241-SX-113 | 1953-1954 | 1958 | 1,000,000 |
| 241-SX-114 | 1953-1954 | 1972 | 1,000,000 |
| 241-SX-115 | 1953-1954 | 1965 | 1,000,000 |
| 241-T-101 | 1943-1944 | 1979 | 500,000 |
| 241-T-102 | 1943-1944 | 1976 | 500,000 |
| 241-T-103 | 1943-1944 | 1974 | 500,000 |
| 241-T-104 | 1943-1944 | 1974 | 500,000 |
| 241-T-105 | 1943-1944 | 1976 | 500,000 |
| 241-T-106 | 1943-1944 | 1973 | 500,000 |
| 241-T-107 | 1943-1944 | 1976 | 500,000 |
| 241-T-108 | 1943-1944 | 1974 | 500,000 |
| 241-T-109 | 1943-1944 | 1974 | 500,000 |
| 241-T-110 | 1943-1944 | 1976 | 500,000 |
| 241-T-111 | 1943-1944 | 1974 | 500,000 |
| 241-T-112 | 1943-1944 | 1977 | 500,000 |
| 241-T-201 | 1943-1944 | 1976 | 55,000 |
| 241-T-202 | 1943-1944 | 1976 | 55,000 |
| 241-T-203 | 1943-1944 | 1976 | 55,000 |
| 241-T-204 | 1943-1944 | 1976 | 55,000 |
| 241-TX-101 | 1947-1948 | 1980 | 750,000 |
| 241-TX-102 | 1947-1948 | 1977 | 750,000 |
| 241-TX-103 | 1947-1948 | 1980 | 750,000 |
| 241-TX-104 | 1947-1948 | 1977 | 750,000 |
| 241-TX-105 | 1947-1948 | 1977 | 750,000 |
| 241-TX-106 | 1947-1948 | 1977 | 750,000 |
| 241-TX-107 | 1947-1948 | 1977 | 750,000 |
| 241-TX-108 | 1947-1948 | 1977 | 750,000 |
| 241-TX-109 | 1947-1948 | 1977 | 750,000 |
| 241-TX-110 | 1947-1948 | 1977 | 750,000 |

| TANK NUMBER | YEAR OF CONSTRUCTION | YEAR REMOVED[1] FROM SERVICE | OPERATING CAPACITY |
|---|---|---|---|
| 241-TX-111 | 1947-1948 | 1977 | 750,000 |
| 241-TX-112 | 1947-1948 | 1974 | 750,000 |
| 241-TX-113 | 1947-1948 | 1971 | 750,000 |
| 241-TX-114 | 1947-1948 | 1971 | 750,000 |
| 241-TX-115 | 1947-1948 | 1977 | 750,000 |
| 241-TX-116 | 1947-1948 | 1969 | 750,000 |
| 241-TX-117 | 1947-1948 | 1969 | 750,000 |
| 241-TX-118 | 1947-1948 | 1980 | 750,000 |
| 241-TY-101 | 1951-1952 | 1973 | 750,000 |
| 241-TY-102 | 1951-1952 | 1979 | 750,000 |
| 241-TY-103 | 1951-1952 | 1973 | 750,000 |
| 241-TY-104 | 1951-1952 | 1974 | 750,000 |
| 241-TY-105 | 1951-1952 | 1980 | 750,000 |
| 241-TY-106 | 1951-1952 | 1959 | 750,000 |
| 241-U-101 | 1943-1944 | 1960 | 500,000 |
| 241-U-102 | 1943-1944 | 1979 | 500,000 |
| 241-U-103 | 1943-1944 | 1978 | 500,000 |
| 241-U-104 | 1943-1944 | 1951 | 500,000 |
| 241-U-105 | 1943-1944 | 1978 | 500,000 |
| 241-U-106 | 1943-1944 | 1977 | 500,000 |
| 241-U-107 | 1943-1944 | 980 | 500,000 |
| 241-U-108 | 1943-1944 | 1979 | 500,000 |
| 241-U-109 | 1943-1944 | 1978 | 500,000 |
| 241-U-110 | 1943-1944 | 1975 | 500,000 |
| 241-U-111 | 1943-1944 | 1980 | 500,000 |
| 241-U-112 | 1943-1944 | 1970 | 500,000 |
| 241-U-201 | 1943-1944 | 1977 | 55,000 |
| 241-U-202 | 1943-1944 | 1977 | 55,000 |
| 241-U-203 | 1943-1944 | 1977 | 55,000 |
| 241-U-204 | 1943-1944 | 1977 | 55,000 |

[1]The last year the tank was capable of receiving waste; actual date of last waste receipt may have been earlier.

## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Michael J. Lawrence — 2-26-88
Date

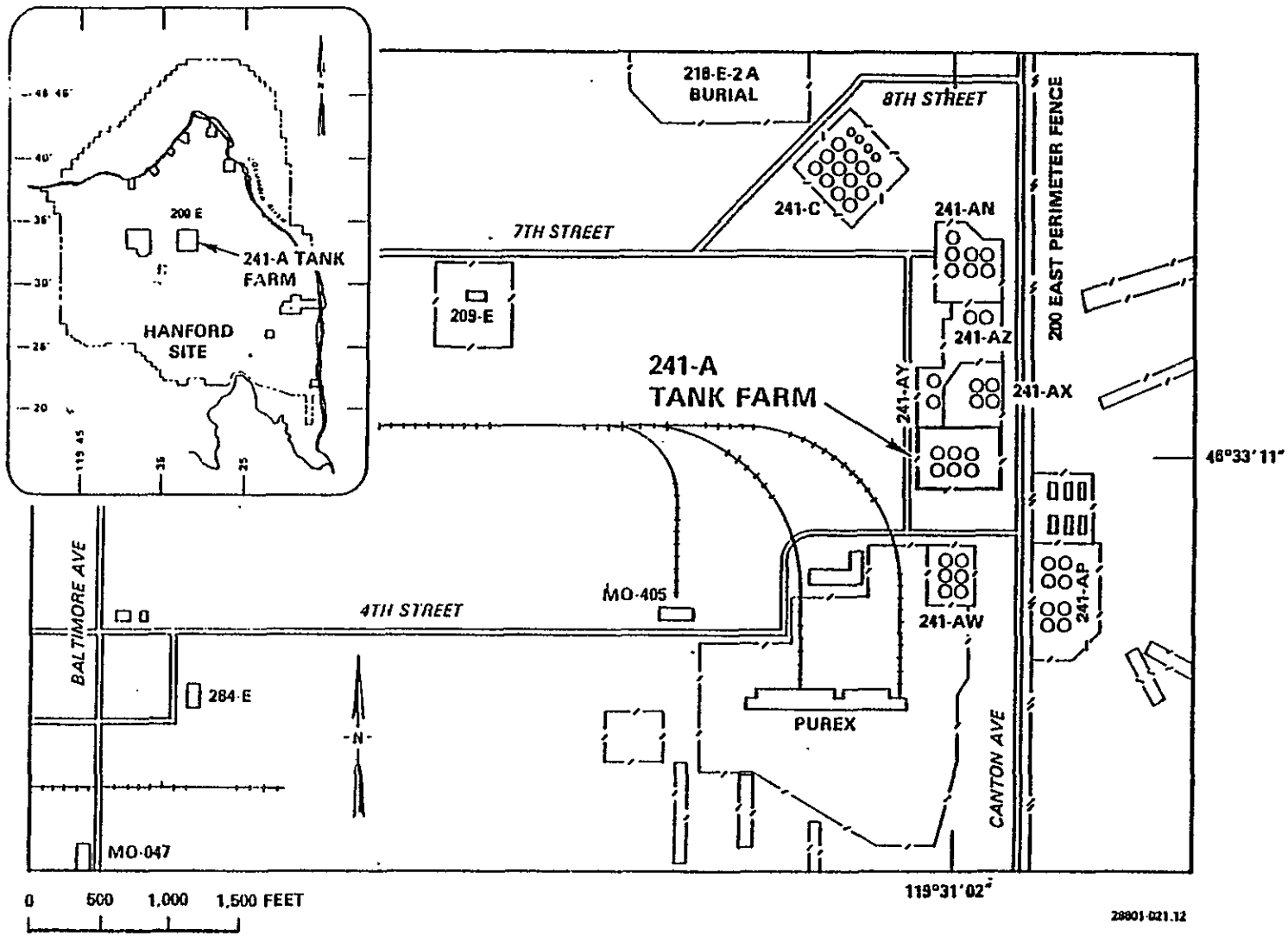
Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy

W. M. Jacobi — 2/25/88
Date

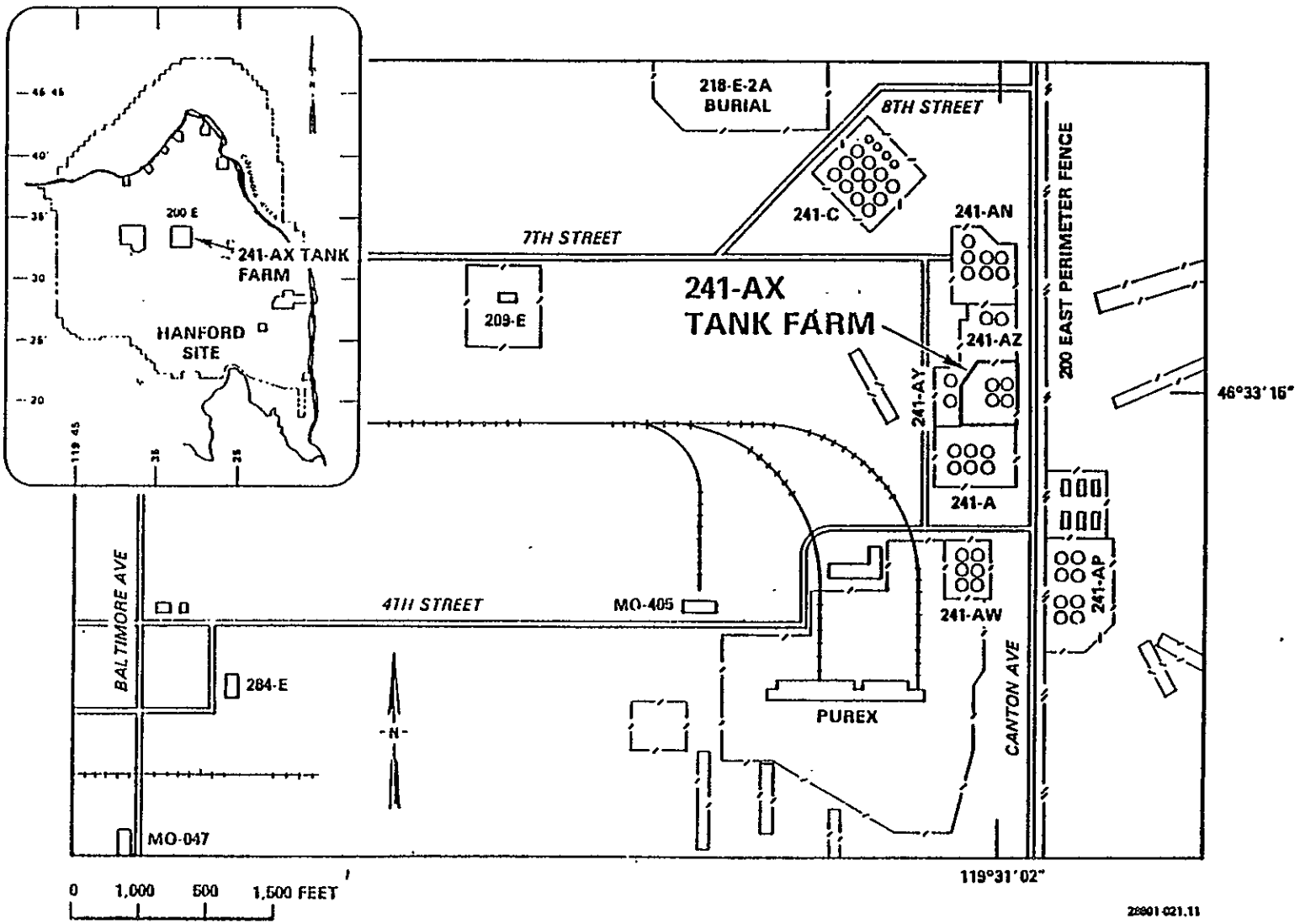
William M. Jacobi
President
Westinghouse Hanford Company

9011171316969

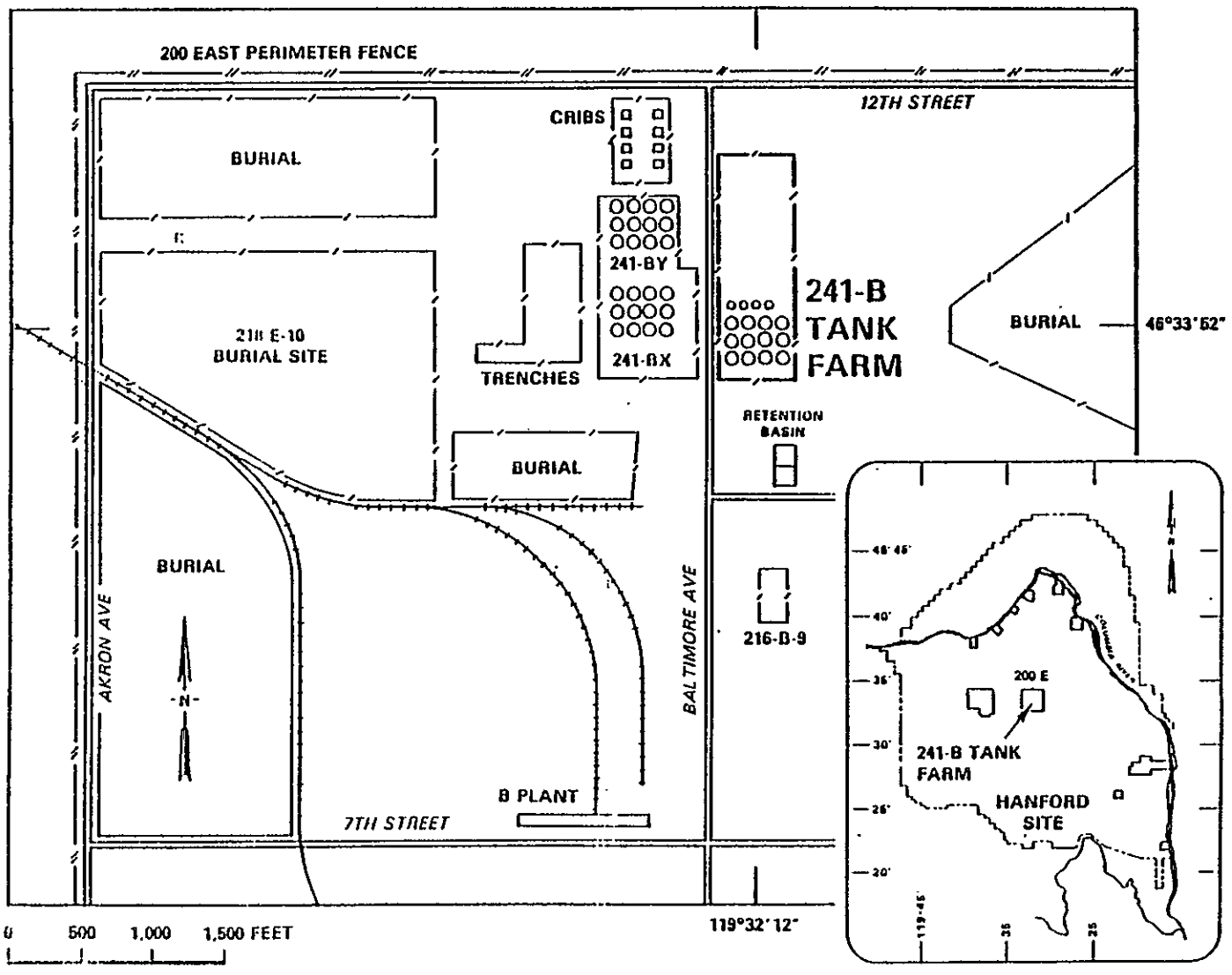
# 241-A SINGLE-SHELL TANK FARM
## SITE PLAN



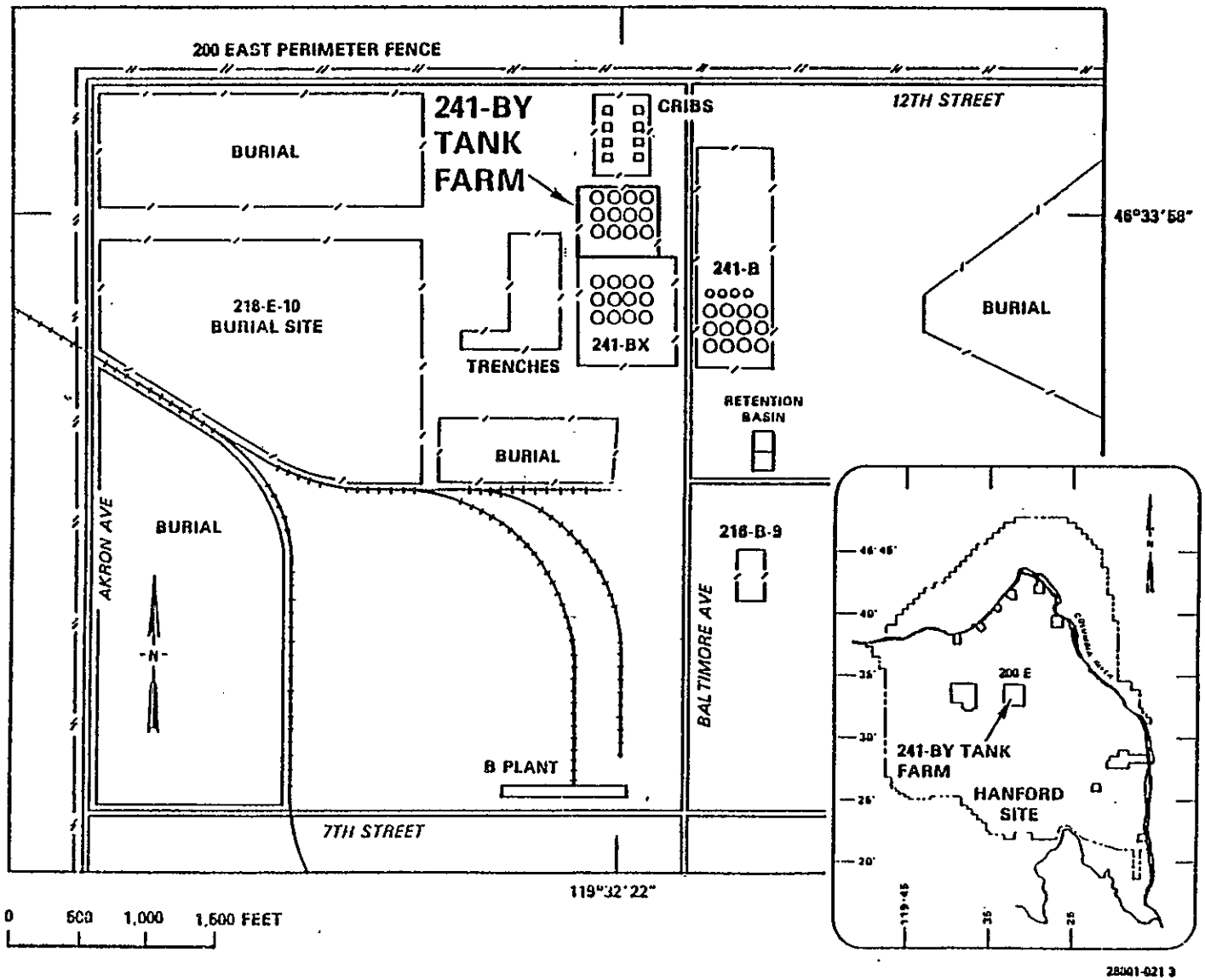
# 241-AX SINGLE-SHELL TANK FARM
## SITE PLAN



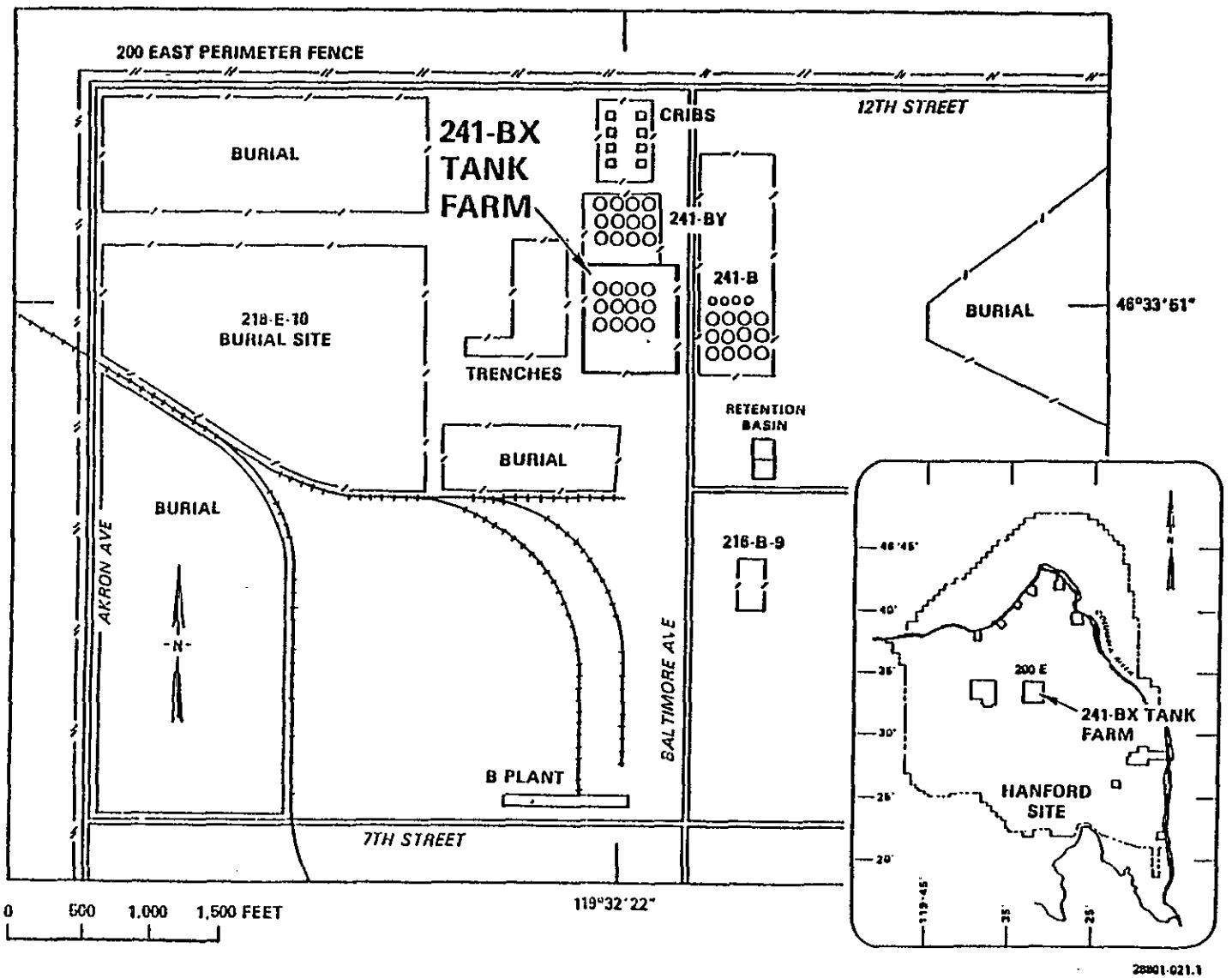
# 241-B SINGLE-SHELL TANK FARM
## SITE PLAN



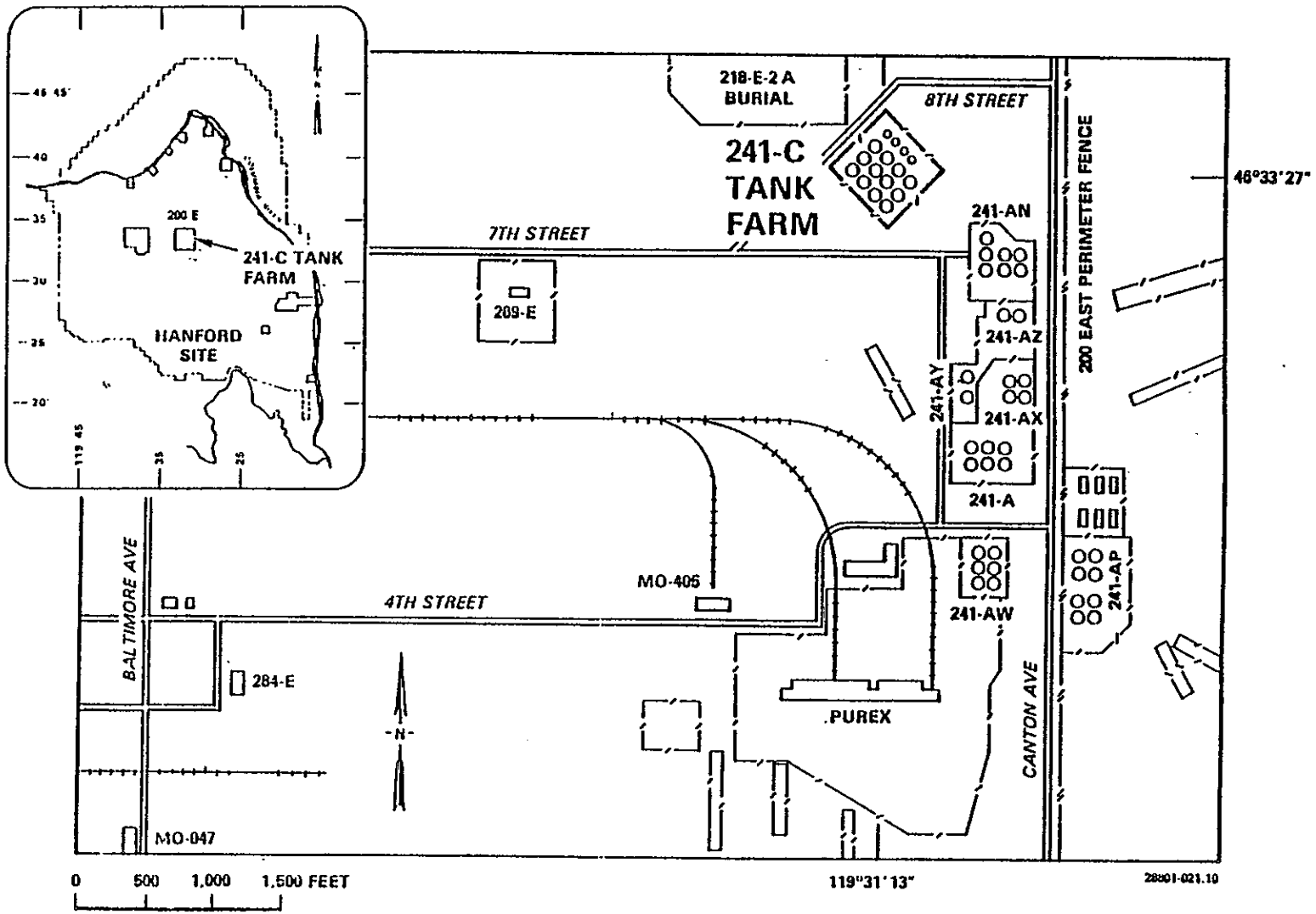
# 241-BY SINGLE-SHELL TANK FARM
## SITE PLAN



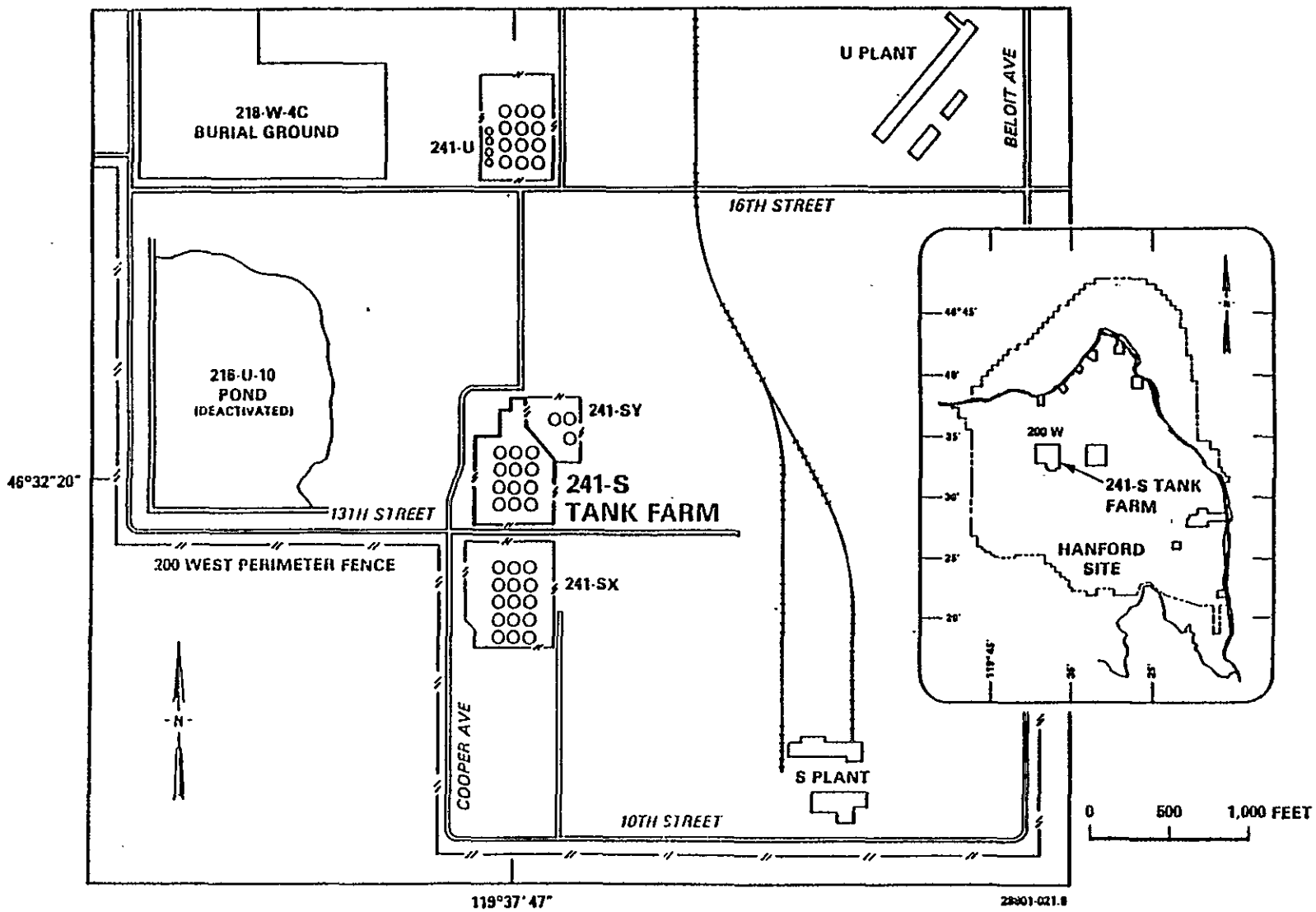
# 241-BX SINGLE-SHELL TANK FARM
## SITE PLAN



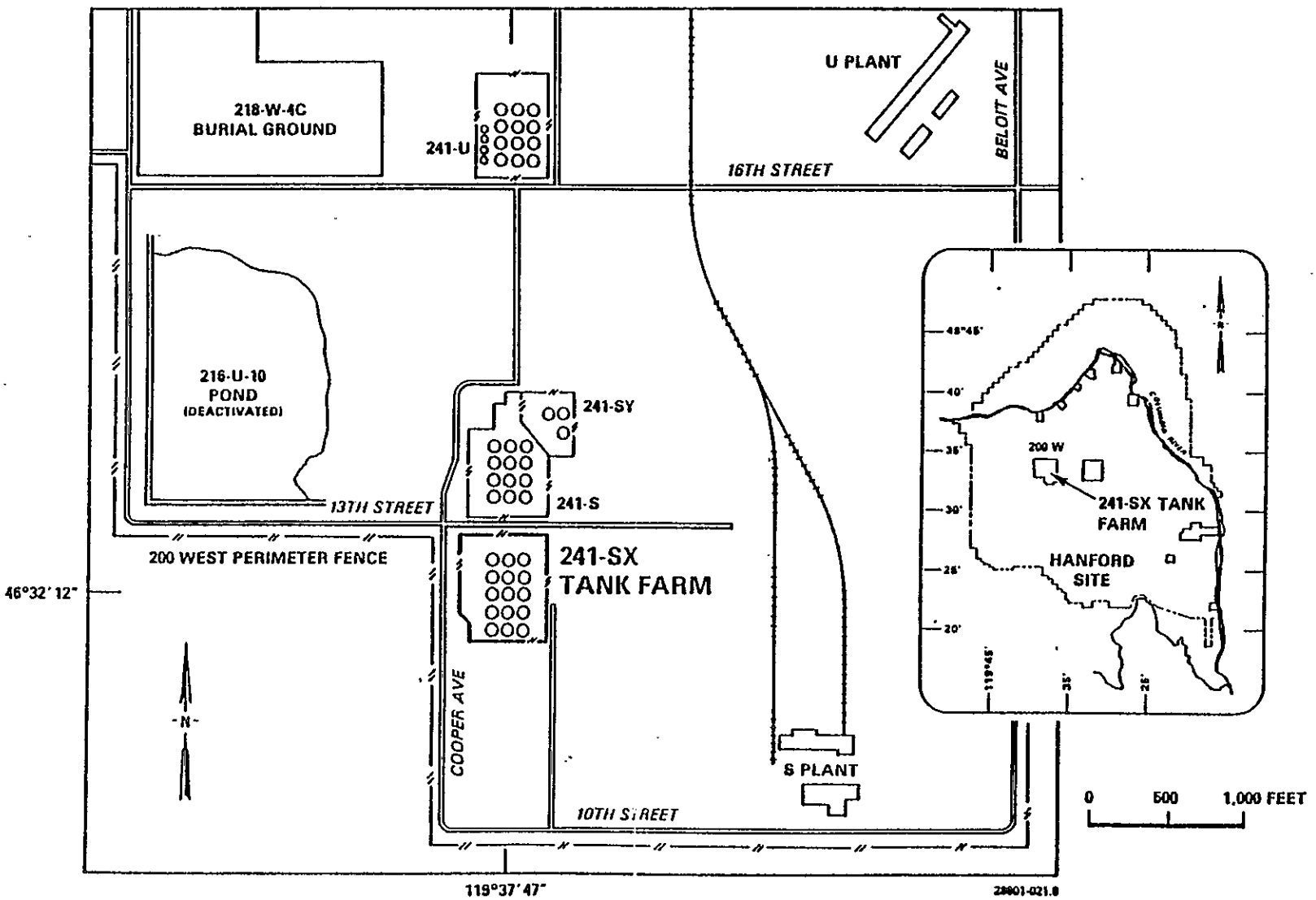
# 241-C SINGLE-SHELL TANK FARM
## SITE PLAN



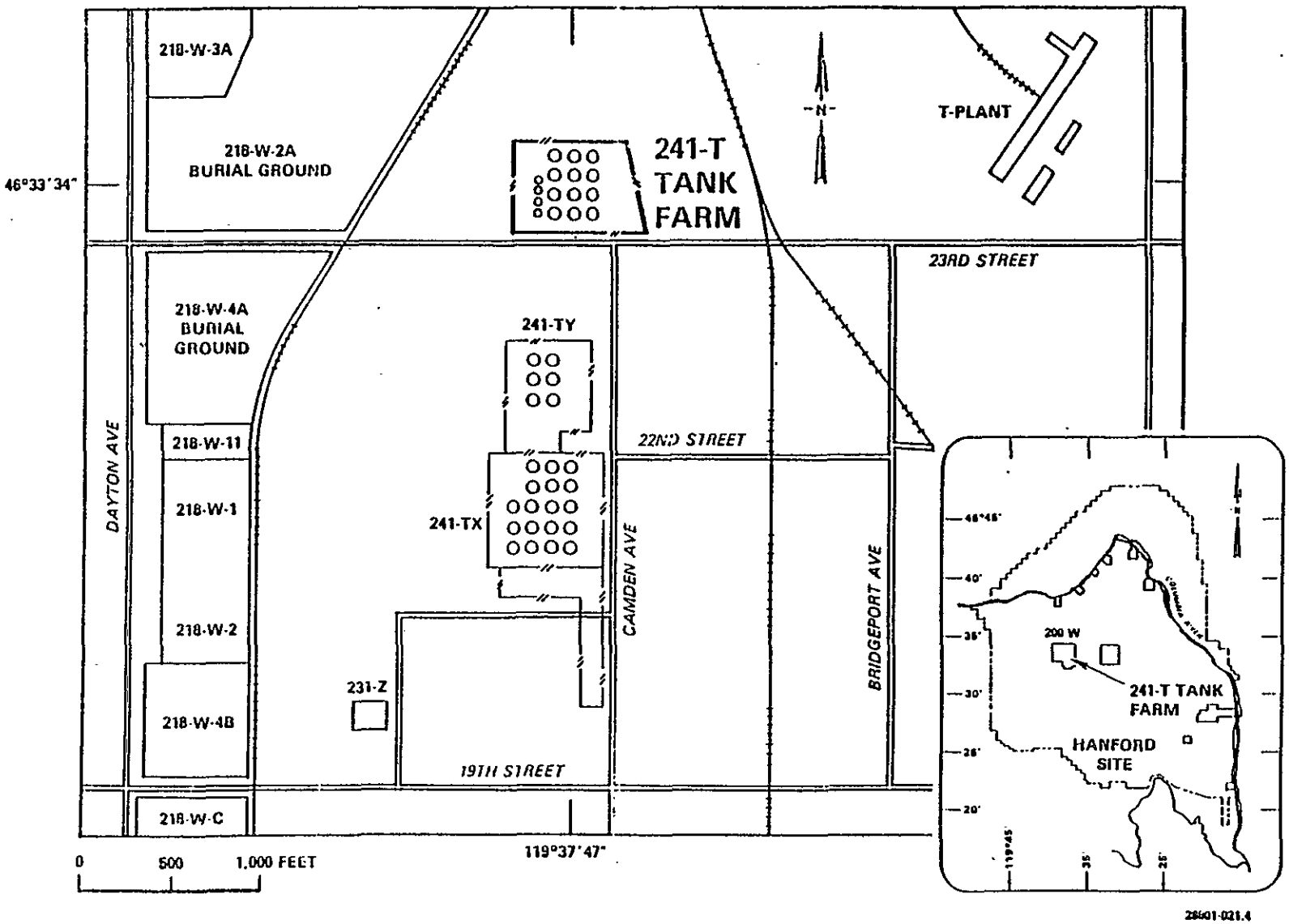
# 241-S SINGLE-SHELL TANK FARM
## SITE PLAN



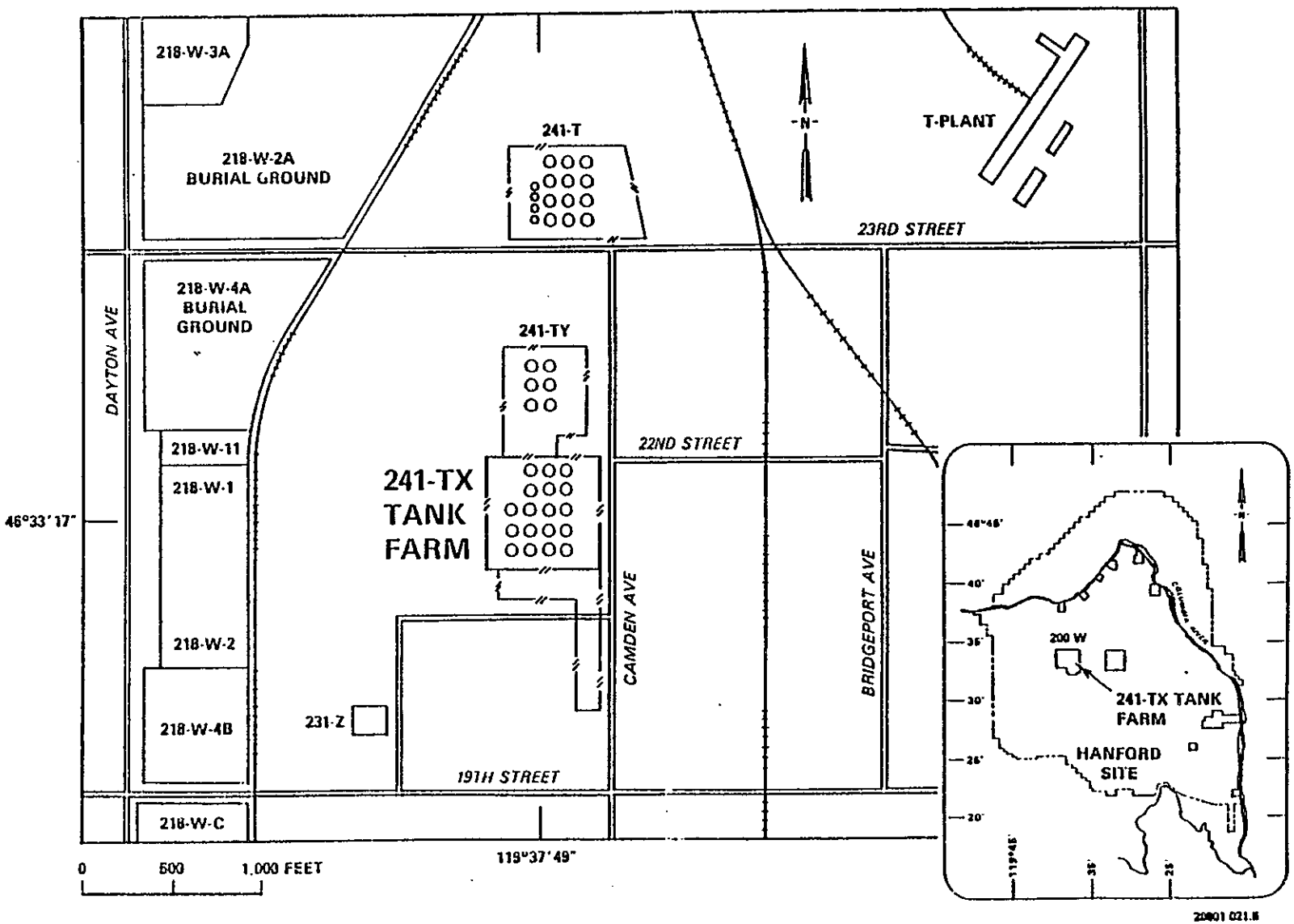
# 241-SX SINGLE-SHELL TANK FARM
## SITE PLAN



# 241-T SINGLE-SHELL TANK FARM
## SITE PLAN

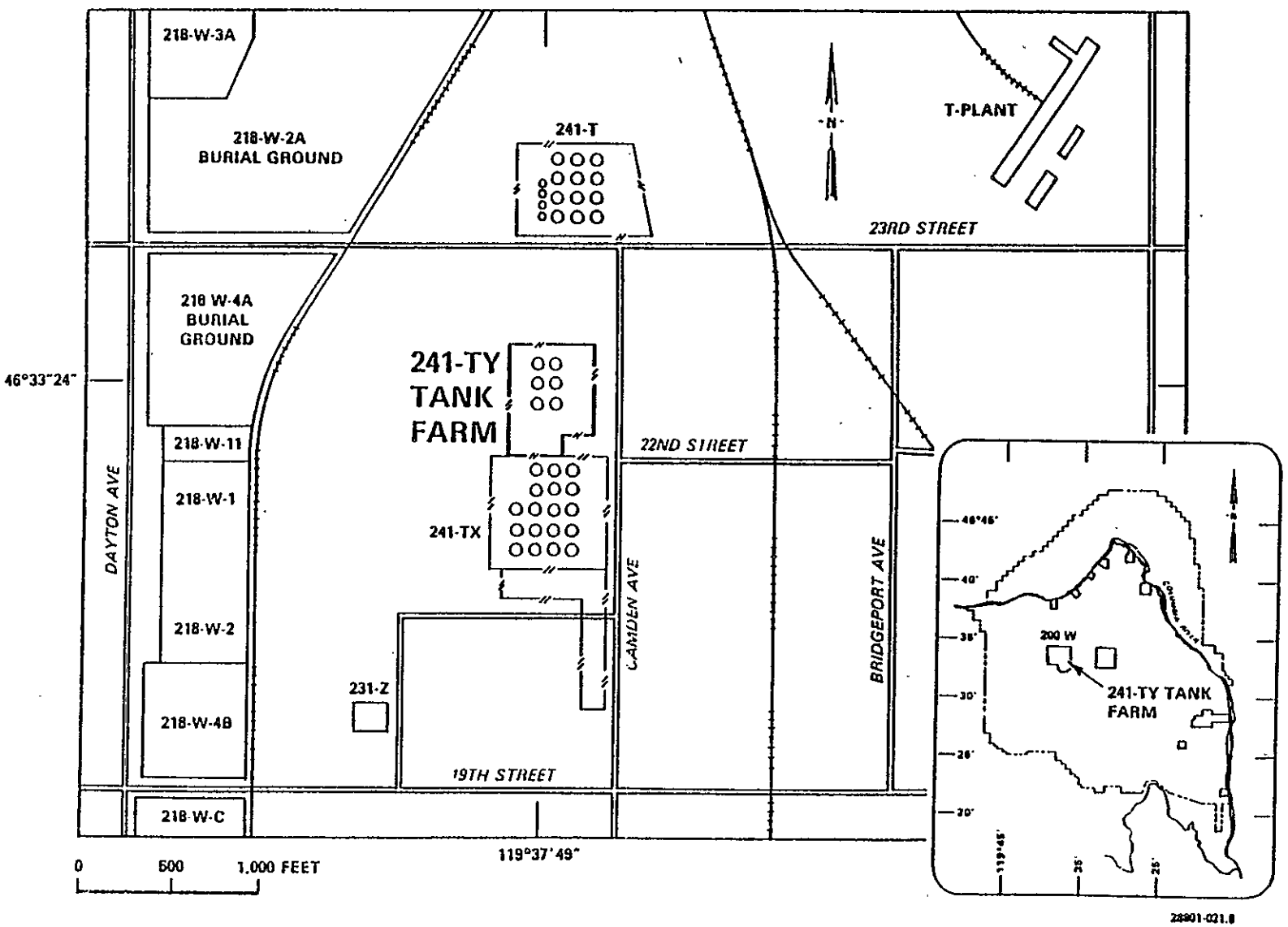


# 241-TX SINGLE-SHELL TANK FARM
## SITE PLAN

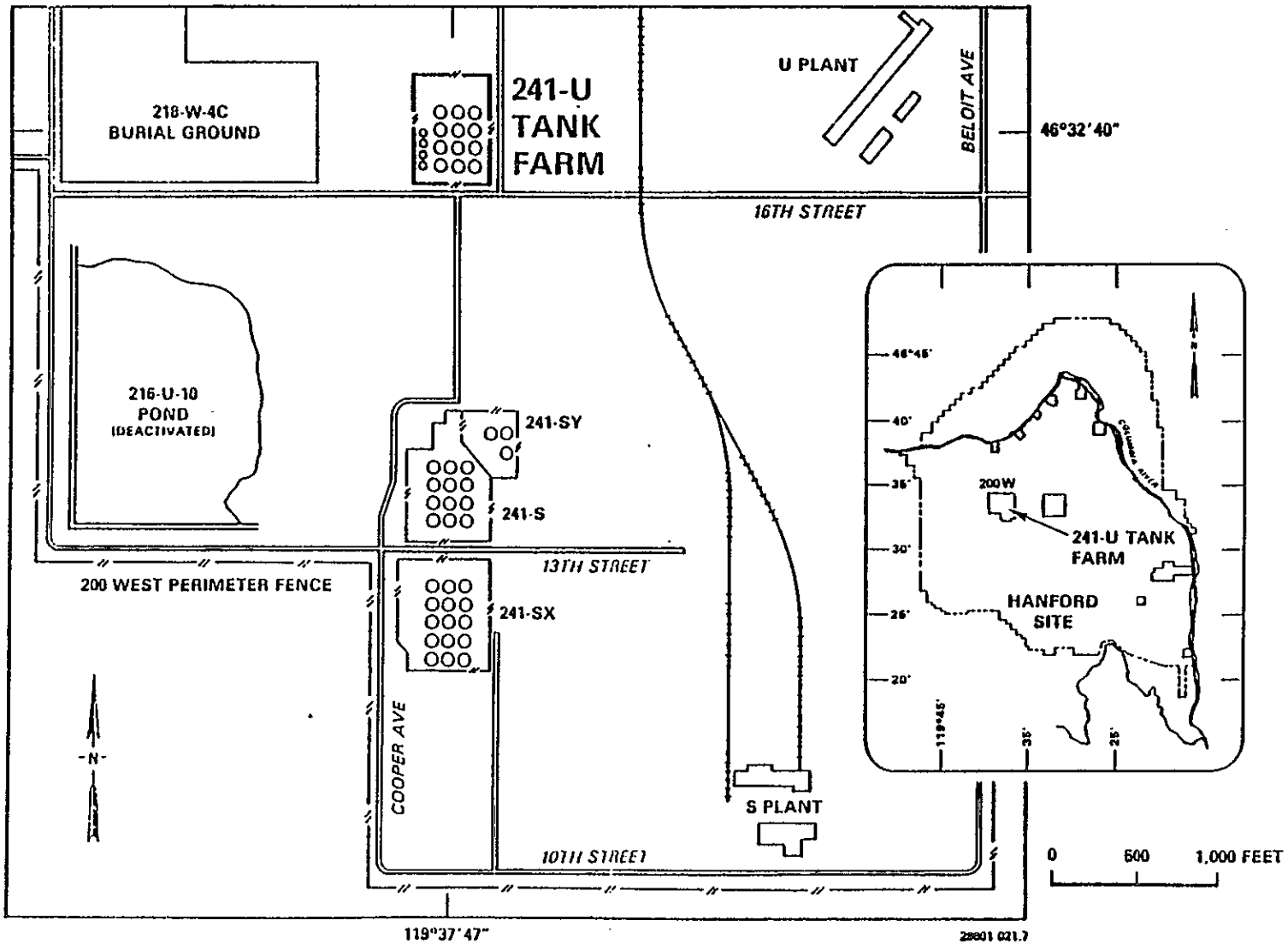


WA7890008967

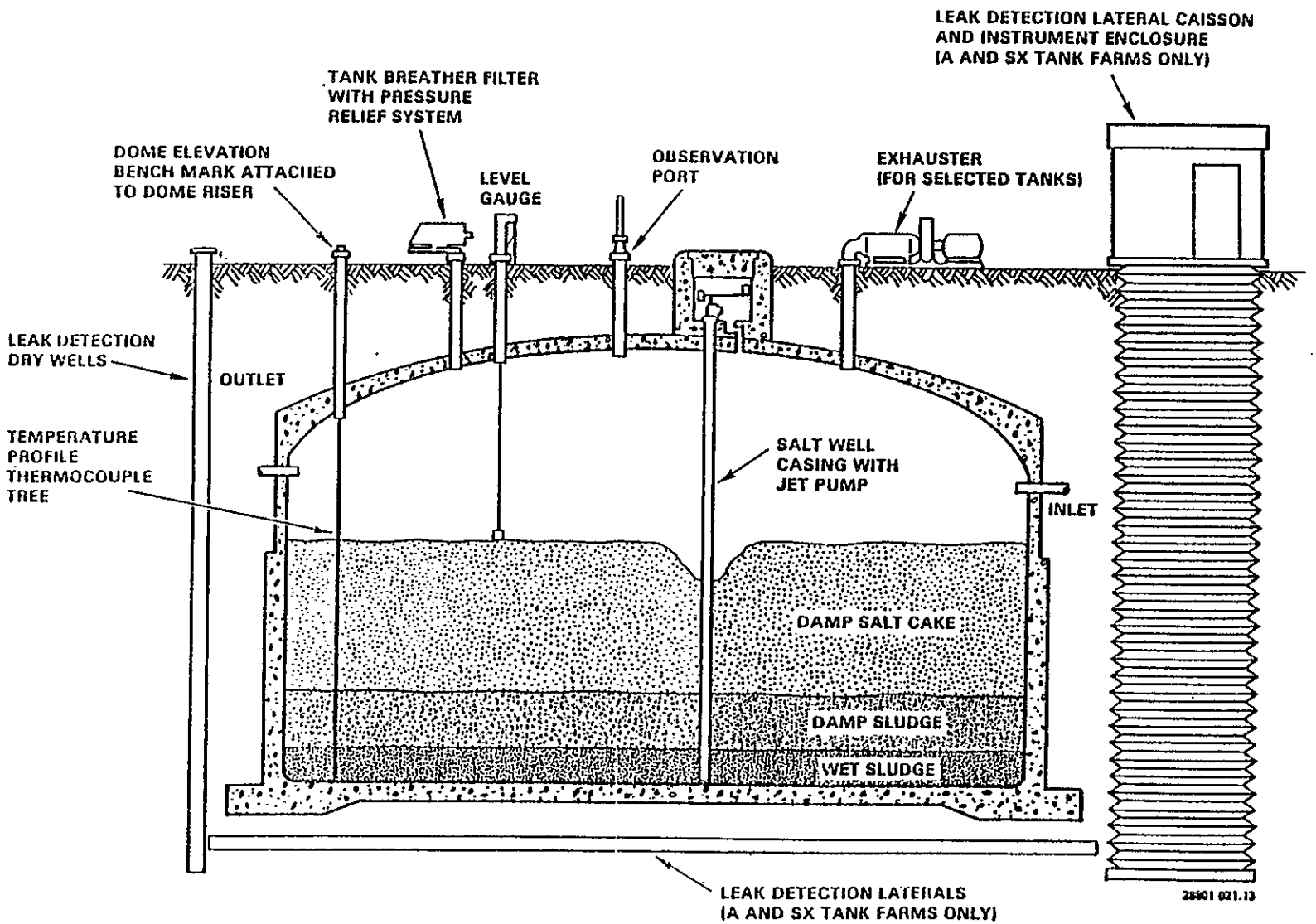
# 241-TY SINGLE-SHELL TANK FARM
## SITE PLAN



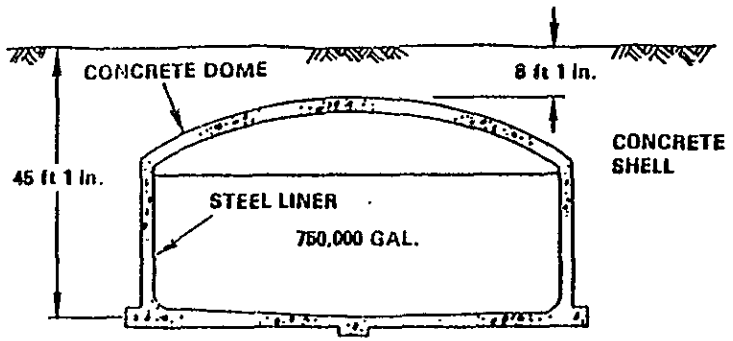
# 241-U SINGLE-SHELL TANK FARM
## SITE PLAN



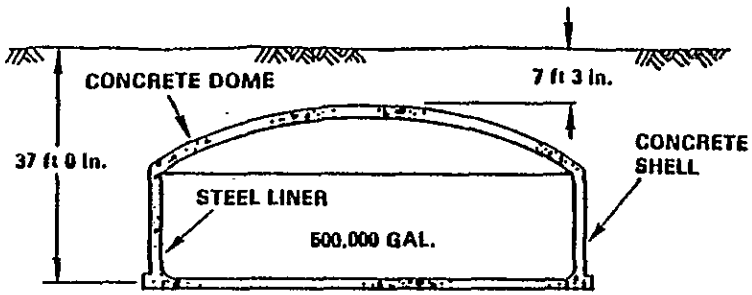
# TYPICAL SINGLE-SHELL TANK



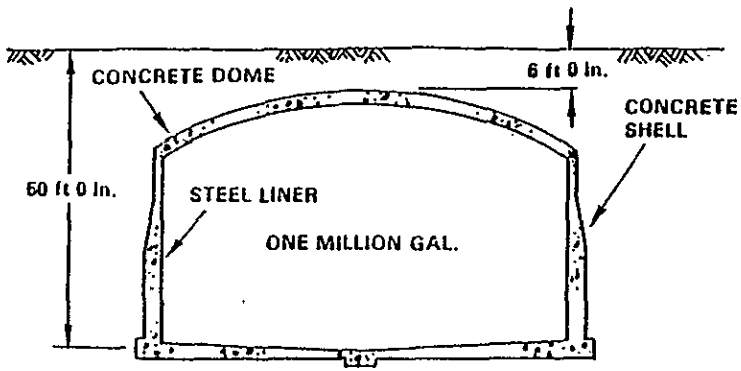
# VARIOUS SINGLE-SHELL WASTE TANKS



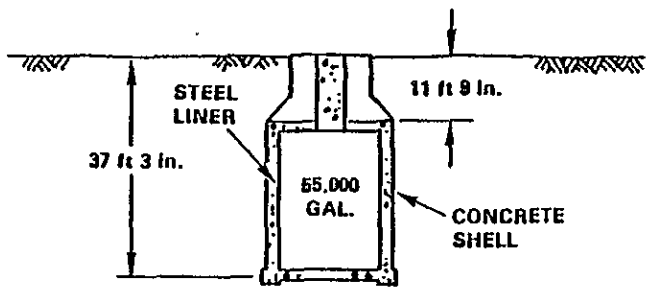

75 ft DIAMETER SINGLE-SHELL TANK
(BY, S, TX, AND TY FARMS)




75 ft DIAMETER SINGLE-SHELL TANK
(B, BX, C, T, AND U FARMS)



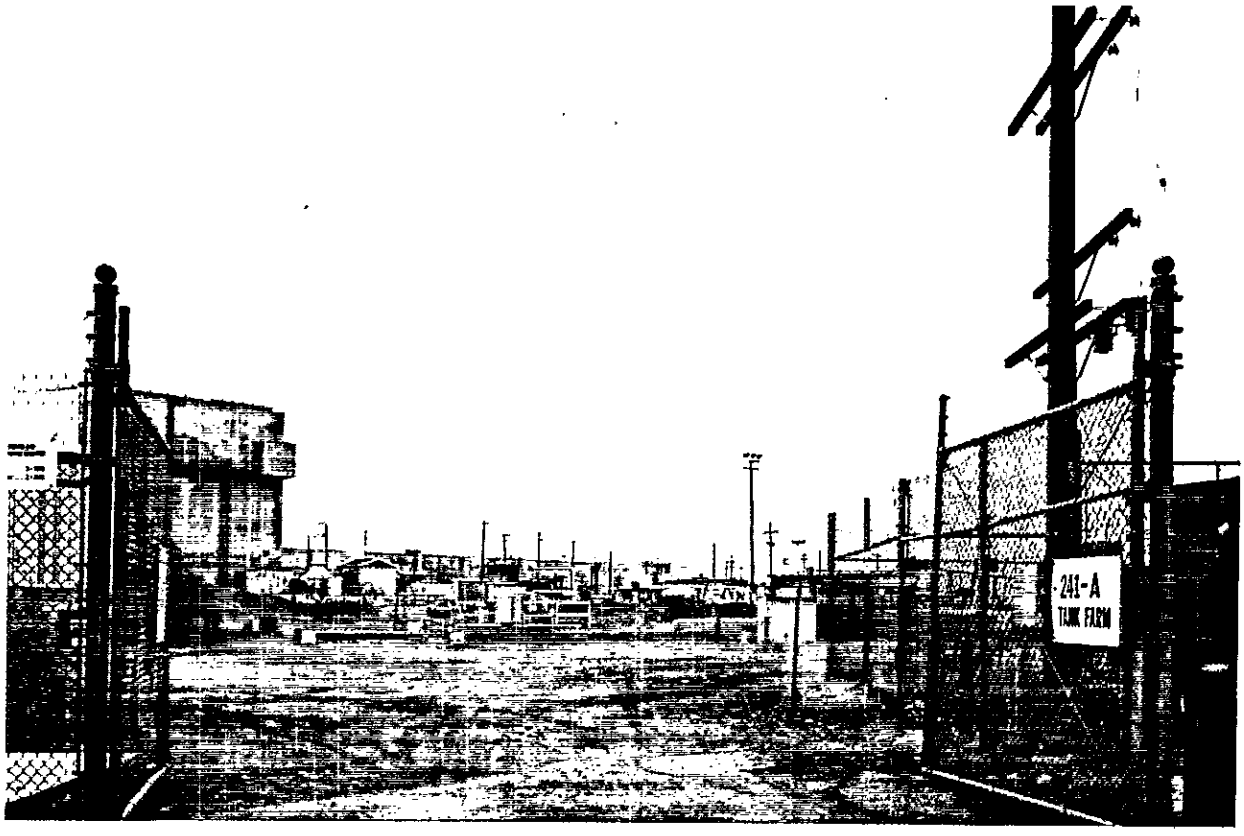

75 ft DIAMETER SINGLE-SHELL TANK
(A, AX, AND SX FARMS)




20-ft DIAMETER SINGLE-SHELL TANK (200 SERIES)

28901-021.14

# 241-A SINGLE SHELL TANK FARM




46°33'11"
119°31'02"

8800284-1CN

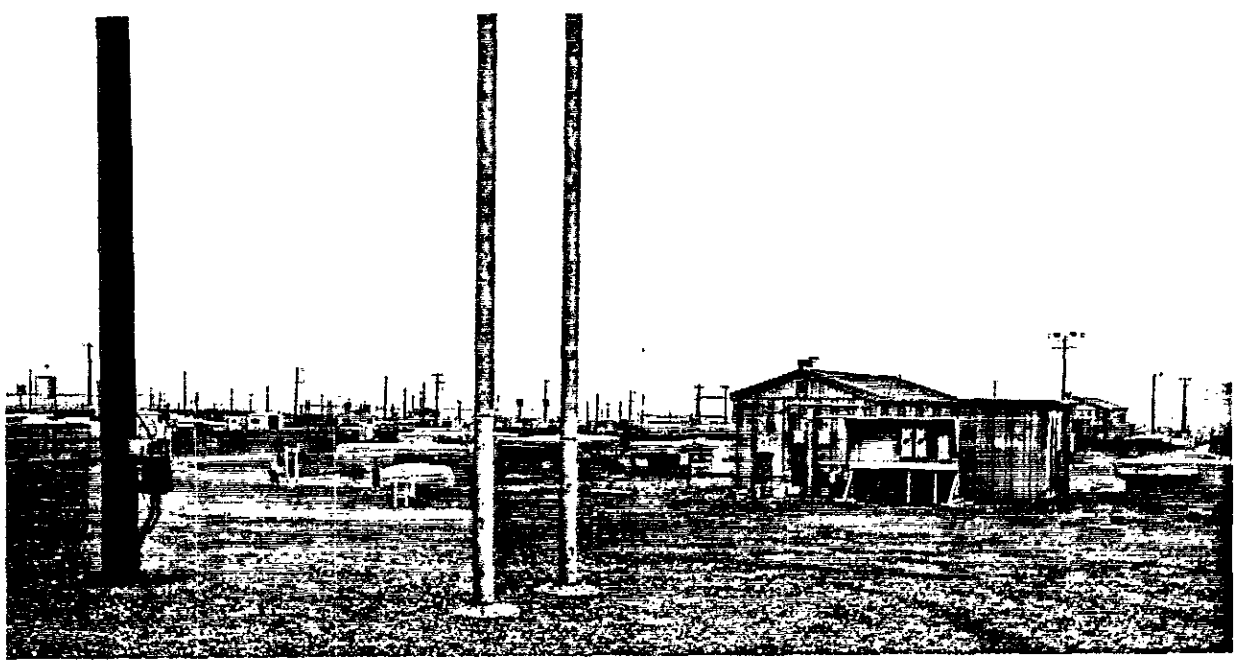
(PHOTO TAKEN 1988)

28801-021.24

9 0 1 1 7 7 3 1 7 1 3

# 241-AX SINGLE SHELL TANK FARM

8800284-2CN
(PHOTO TAKEN 1988)

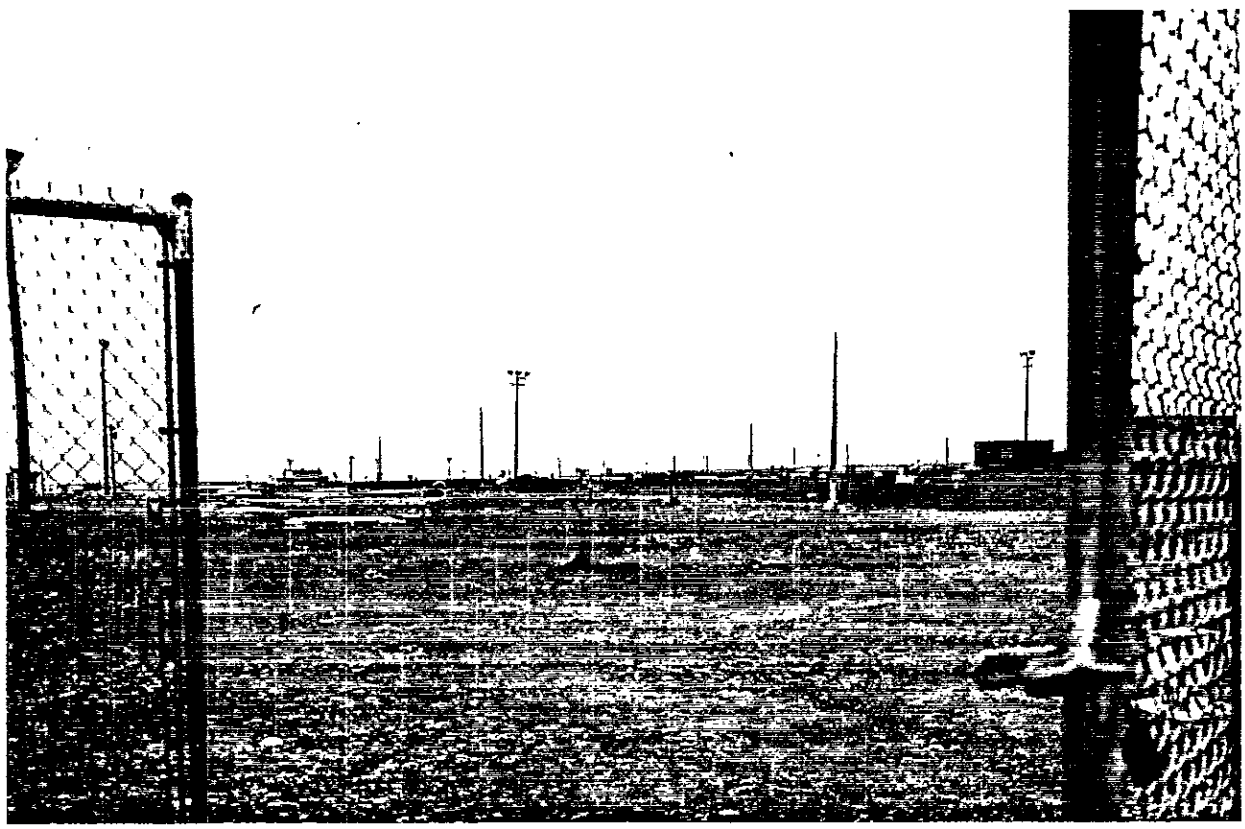


46°33'15"
119°31'02"

8800284-3CN
(PHOTO TAKEN 1988)

28801-021.25

# 241-B SINGLE SHELL TANK FARM



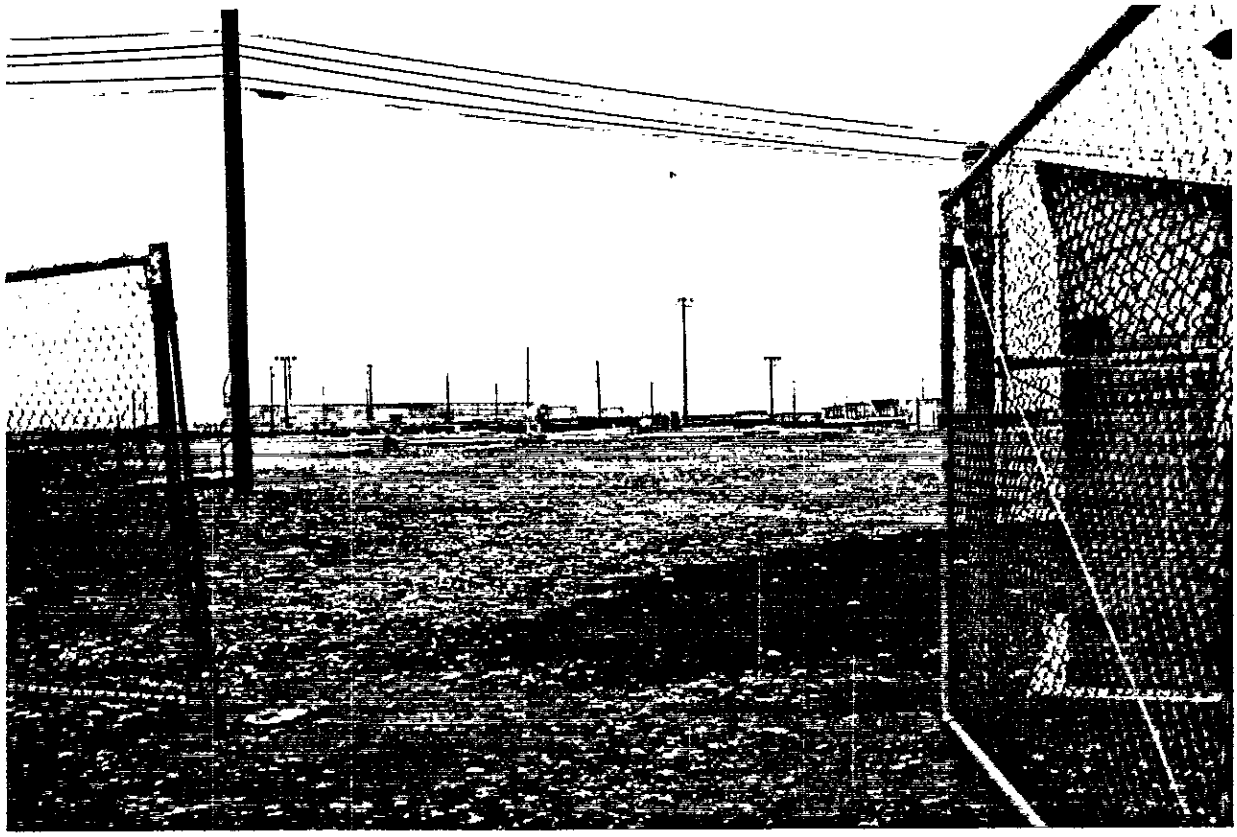
46°33'52"
119°32'12"

8800284-6CN

(PHOTO TAKEN 1988)

28801-021.33

# 241-BX SINGLE SHELL TANK FARM



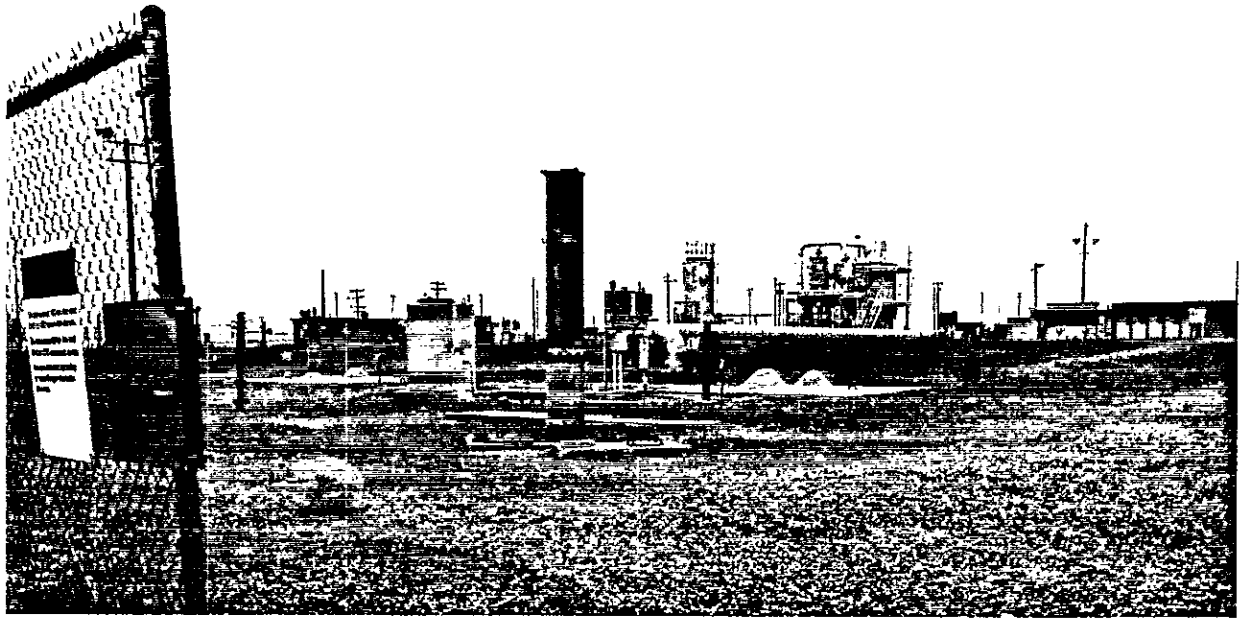
46°33'51"
119°32'22"

8800284-7CN

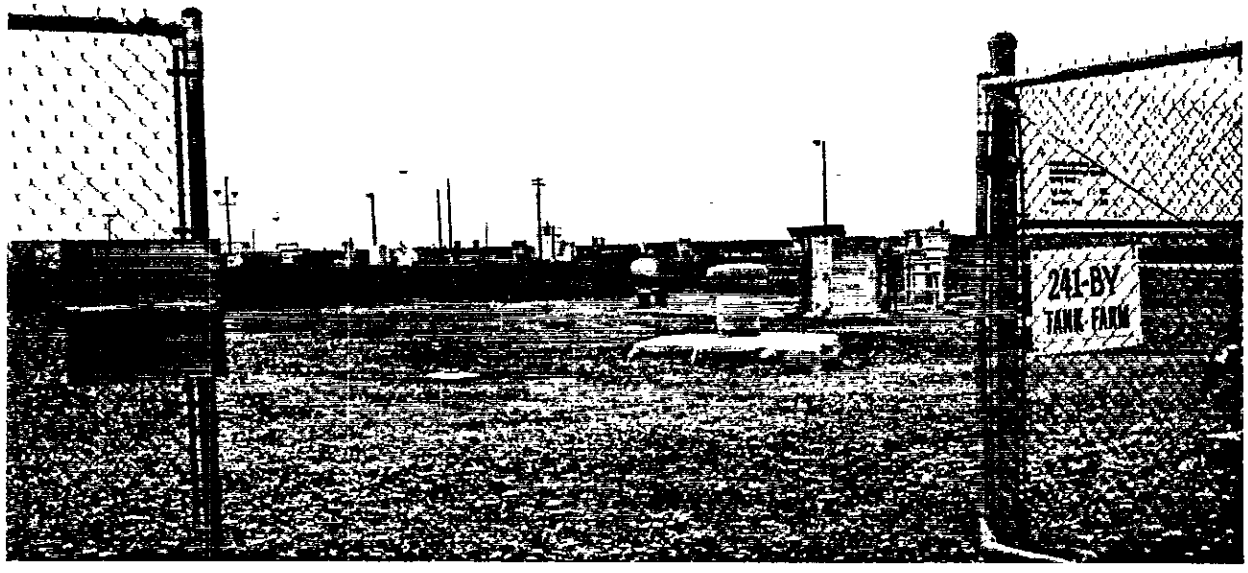
(PHOTO TAKEN 1988)

28801-021.34

# 241-BY SINGLE SHELL TANK FARM



8800284-8CN
(PHOTO TAKEN 1988)

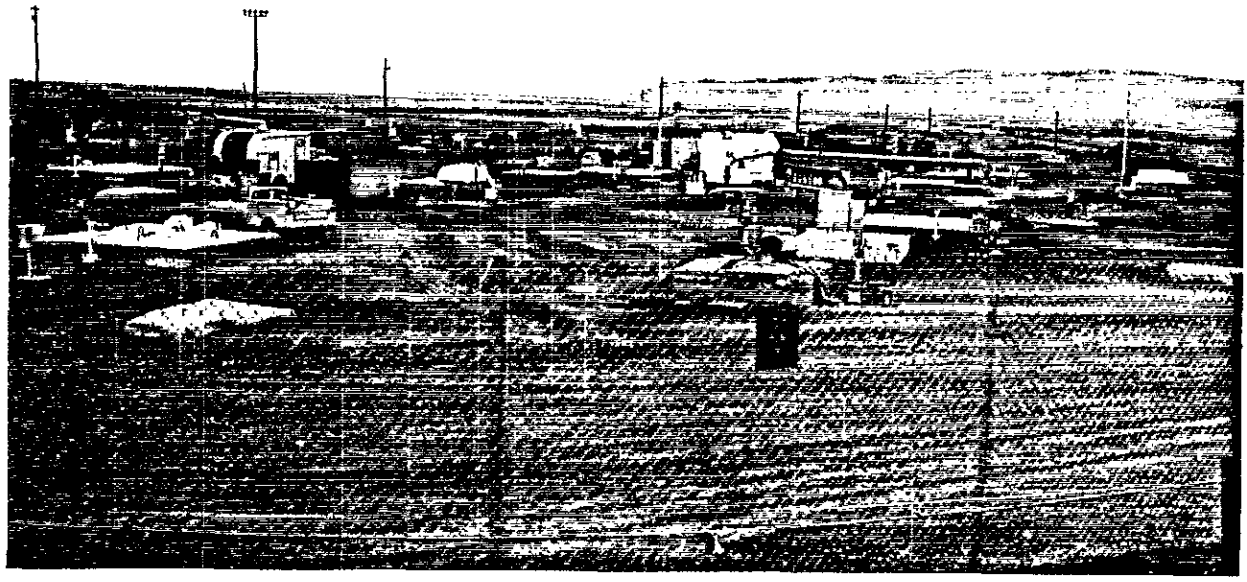



46°33'58"
119°32'22"

8800284-9CN
(PHOTO TAKEN 1988)

28801-021.32

# 241-C SINGLE SHELL TANK FARM



46°33'27"
119°31'13"

8800284-5CN

(PHOTO TAKEN 1988)

28801-021.36

# 241-S SINGLE SHELL TANK FARM

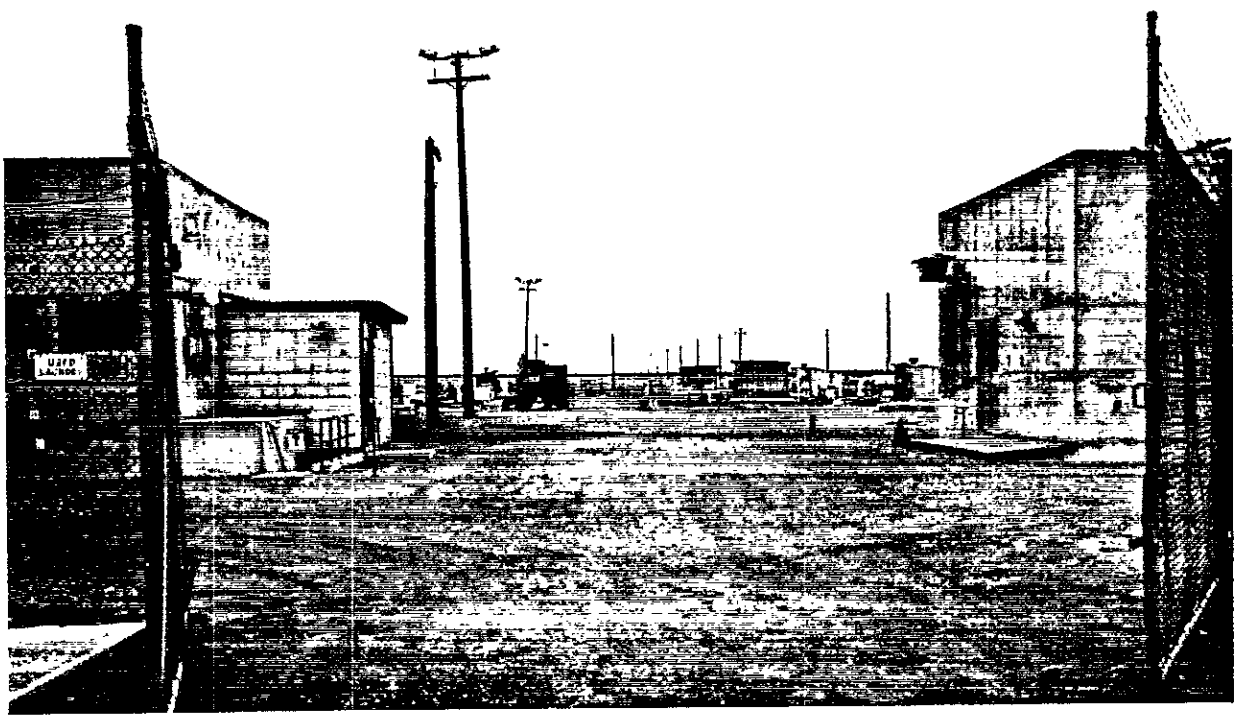
46°32'20"
119°37'47"

8800284-15CN

(PHOTO TAKEN 1988)

28801-021.26

# 241-SX SINGLE SHELL TANK FARM



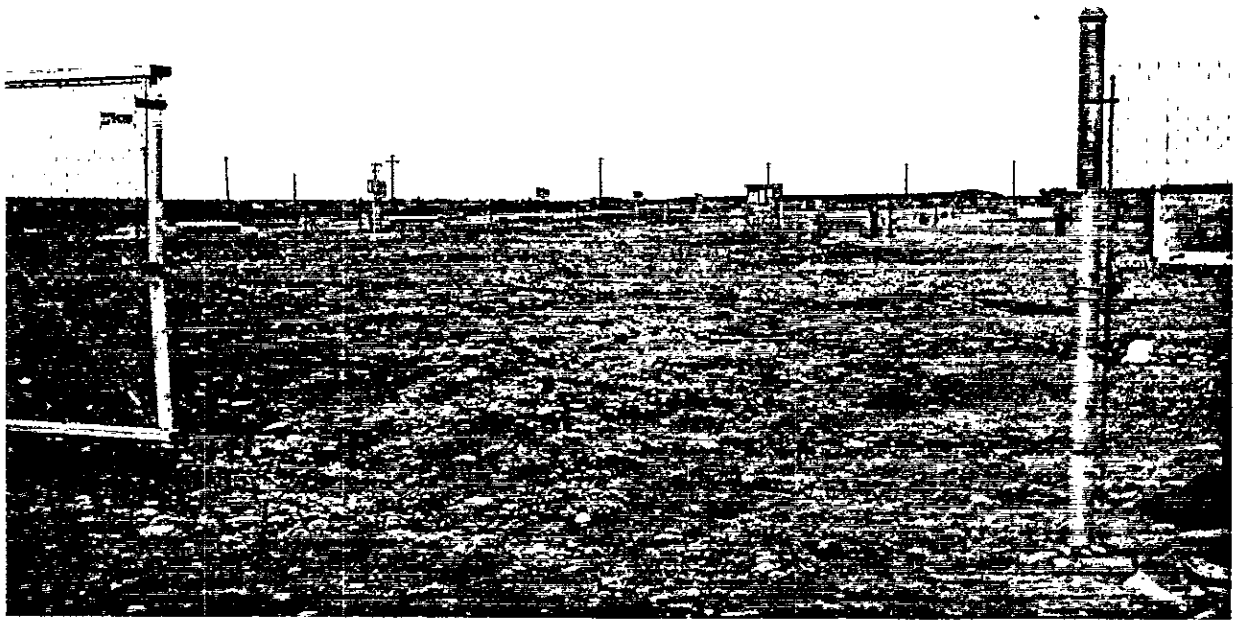
46°32'12"
119°37'47"

8800284-16CN

(PHOTO TAKEN 1988)

28801-021.27

# 241-T SINGLE SHELL TANK FARM



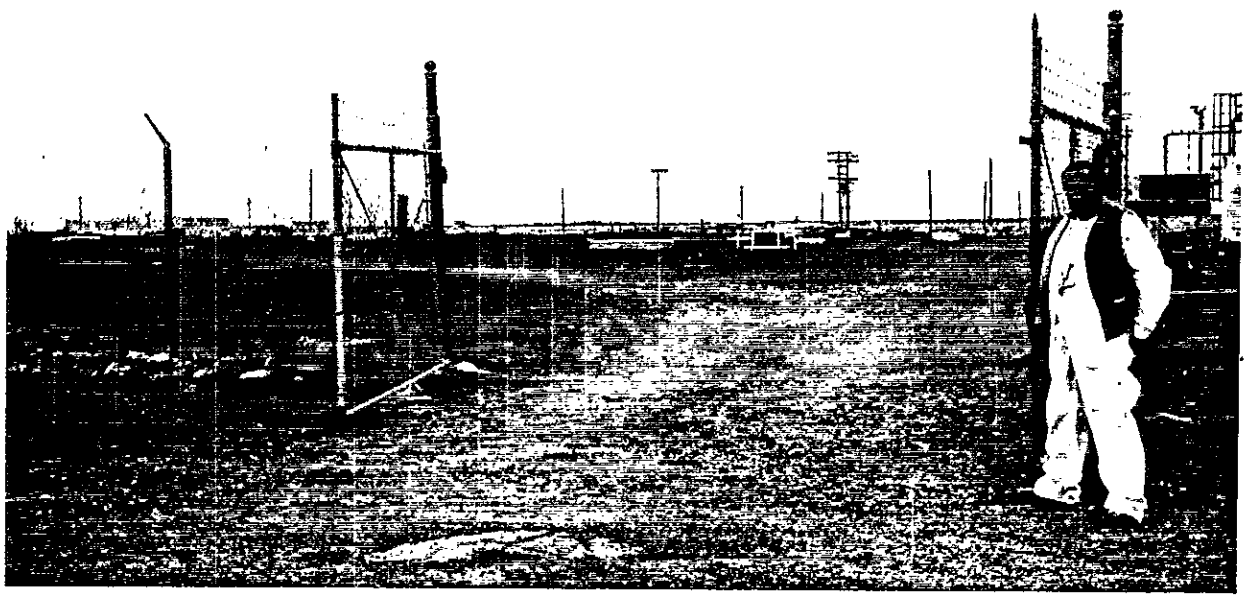
8800284-10CN
(PHOTO TAKEN 1988)

46°33'34"
119°37'47"

8800284-11CN
(PHOTO TAKEN 1988)

28801-021.29

# 241-TX SINGLE SHELL TANK FARM



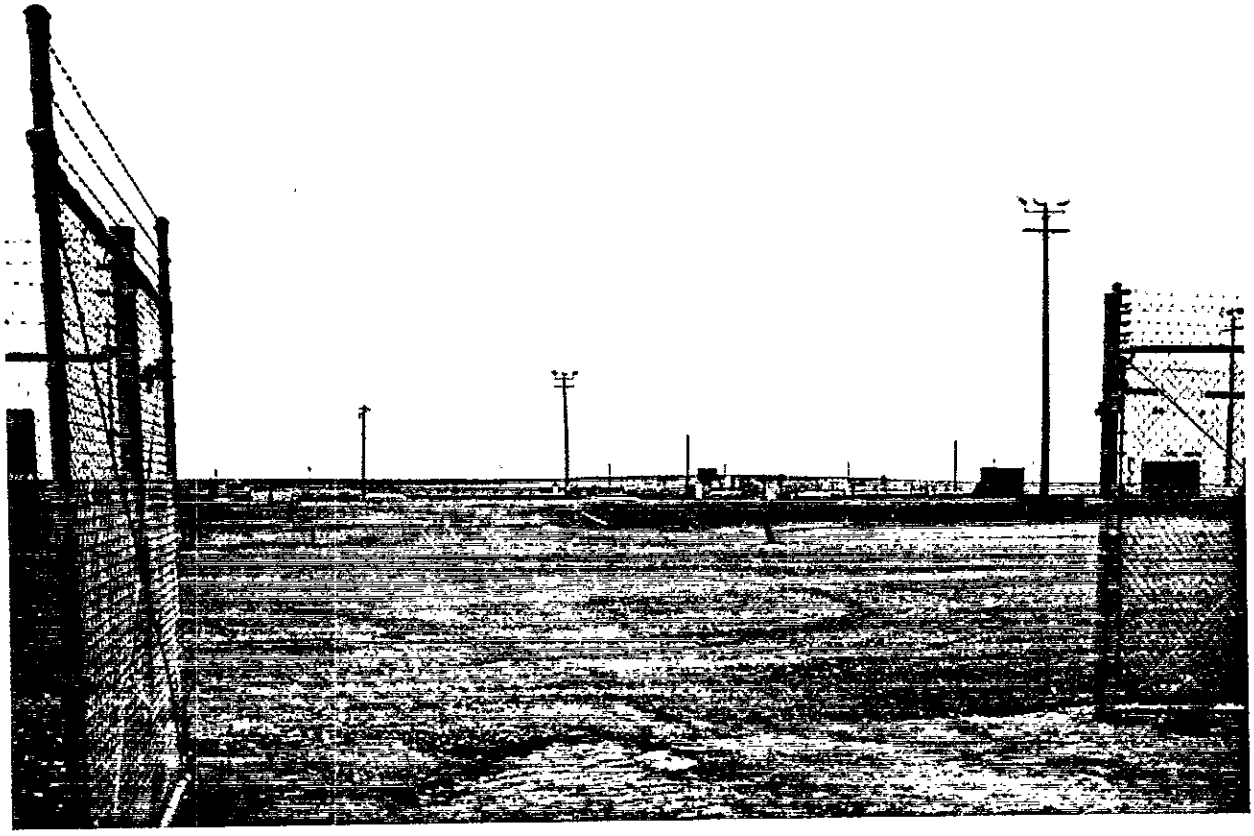
46°33'17"
119°37'49"

8800284-13CN

(PHOTO TAKEN 1988)

28801-021.31

# 241-TY SINGLE SHELL TANK FARM



46°33'24"
119°37'49"

8800284-12CN

(PHOTO TAKEN 1988)

28801-021.30

# 241-U SINGLE SHELL TANK FARM

46°32'40"
119°37'47"

8800284-14CN

(PHOTO TAKEN 1988)

28801-021.28

Please print or type in the unshaded areas only.
(Fill-in areas are spaced for elite type, i.e., 12 characters/inch).

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

**FOR OFFICIAL USE ONLY**

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO. 0 1 | DAY | YR. 4 4 — FOR EXISTING FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

☐ 2. NEW FACILITY *(Complete item below.)*

MO. | DAY | YR. — FOR NEW FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the *(Section III-C)*.

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER |
| LAND APPLICATION | D82 | *ACRES OR HECTARES* |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III *(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) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | B. 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | | 5 | | | | |
| X-2 | T 0 3 | 20 | E | | 6 | | | | |
| 1 | D 8 1 | 200 | A | | 7 | | | | |
| 2 | | | | | 8 | | | | |
| 3 | | | | | 9 | | | | |
| 4 | | | | | 10 | | | | |



CONTINUE ON REVERSE

Continued from the front

## III. PROCESSES (continued)

C SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY

D81

The Low-Level Radioactive Retrievable Storage Units were storage facilities which were used to store 55-gallon drums or boxes containing radioactive mixed wastes. Waste containers were stored on underground asphalt pads and plywood-lined underground trenches. An earthen cover over the trenches provides radiological protection.

The Low-Level Burial Grounds were designed to dispose of solid low-level radioactive mixed wastes. The wastes were packaged in steel, concrete or wood containers and then placed into burial trenches.

The Radioactive Mixed Waste (RMW) Disposal Facility may consist of trenches or other systems equipped with liners and leachate collection. Approved alternative technologies which may include high integrity containers in lieu of liner-leachate collection systems may also be used.

The wastes handled at the above-mentioned facilities are generated by many different operations, both on and off the Hanford Site.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS 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 | 0001 | 10,000 | P | D81 | Disposal/Storage |
| 2 | 0002 | 500 | | | |
| 3 | 0003 | 500 | | | |
| 4 | 0004 | 500 | | | |
| 5 | 0005 | 500 | | | |
| 6 | 0006 | 500 | | | |
| 7 | 0007 | 500 | | | |
| 8 | 0008 | 100,000 | | | |
| 9 | 0009 | 500 | | | |
| 10 | 0010 | 500 | | | |
| 11 | 0011 | 500 | | | |
| 12 | WT01 | 800,000 | | | |
| 13 | WT02 | 80,000 | | | |
| 14 | WP01 | 8,000 | | | |
| 15 | WP02 | 8,000 | | | |
| 16 | WP03 | 8,000 | | | |
| 17 | WC01 | 8,000 | | | |
| 18 | WC02 | 8,000 | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

| I.D. NUMBER (enter from page 1) |
|---|
| WA789000896 7 |

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | 8,000 | P | D81 | Retrievable Storage |
| 2 | F002 | | | | |
| 3 | F003 | | | | |
| 4 | F004 | | | | |
| 5 | F005 | | | | |
| 6 | F020 | 500 | | | |
| 7 | F021 | | | | |
| 8 | F022 | | | | |
| 9 | F023 | | | | |
| 10 | F026 | | | | |
| 11 | F027 | | | | |
| 12 | F028 | | | | |
| 13 | U001 | 500 | P | D81 | Disposal/Storage |
| 14 | U002 | | | | Retrievable Storage |
| 15 | U003 | | | | Disposal/Storage |
| 16 | U004 | | | | |
| 17 | U005 | | | | |
| 18 | U006 | | | | |
| 19 | U007 | | | | |
| 20 | U008 | | | | |
| 21 | U009 | | | | |
| 22 | U010 | | | | |
| 23 | U011 | | | | |
| 24 | U012 | | | | |
| 25 | U013 | | | | Retrievable Storage |
| 26 | U014 | | | | Disposal/Storage |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS 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 | U015 | 500 | P | D81 | Disposal/Storage |
| 2 | U016 | | | | |
| 3 | U017 | | | | |
| 4 | U018 | | | | |
| 5 | U019 | | | | |
| 6 | U020 | | | | |
| 7 | U021 | | | | |
| 8 | U022 | | | | |
| 9 | U023 | | | | |
| 10 | U024 | | | | |
| 11 | U025 | | | | |
| 12 | U026 | | | | |
| 13 | U027 | | | | |
| 14 | U028 | | | | |
| 15 | U029 | | | | |
| 16 | U030 | | | | |
| 17 | U031 | | | | Retrievable Storage |
| 18 | U032 | | | | Disposal/Storage |
| 19 | U033 | | | | |
| 20 | U034 | | | | |
| 21 | U035 | | | | |
| 22 | U036 | | | | |
| 23 | U037 | | | | Retrievable Storage |
| 24 | U038 | | | | Disposal/Storage |
| 25 | U039 | | | | |
| 26 | U041 | | | | |

Continued from page 2
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U042 | 500 | P | 081 | Disposal/Storage |
| 2 | U043 | | | | |
| 3 | U044 | | | | |
| 4 | U045 | | | | |
| 5 | U046 | | | | |
| 6 | U047 | | | | |
| 7 | U048 | | | | |
| 8 | U049 | | | | |
| 9 | U050 | | | | |
| 10 | U051 | | | | |
| 11 | U052 | | | | Retrievable Storage |
| 12 | U053 | | | | Disposal/Storage |
| 13 | U055 | | | | |
| 14 | U056 | | | | |
| 15 | U057 | | | | Retrievable Storage |
| 16 | U058 | | | | Disposal/Storage |
| 17 | U059 | | | | |
| 18 | U060 | | | | |
| 19 | U061 | | | | |
| 20 | U062 | | | | |
| 21 | U063 | | | | |
| 22 | U064 | | | | |
| 23 | U066 | | | | |
| 24 | U067 | | | | |
| 25 | U068 | | | | |
| 26 | U069 | | | | |

Continued from page 2.
NOTE. Photocopy this page before completing if you have more than 26 wastes to list.

ID. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U070 | 500 | P | D81 | Retrievable Storage |
| 2 | U071 | | | | |
| 3 | U072 | | | | |
| 4 | U073 | | | | Disposal/Storage |
| 5 | U074 | | | | |
| 6 | U075 | | | | |
| 7 | U076 | | | | |
| 8 | U077 | | | | |
| 9 | U078 | | | | |
| 10 | U079 | | | | |
| 11 | U080 | | | | Retrievable Storage |
| 12 | U081 | | | | Disposal/Storage |
| 13 | U082 | | | | |
| 14 | U083 | | | | |
| 15 | U084 | | | | |
| 16 | U085 | | | | |
| 17 | U086 | | | | |
| 18 | U087 | | | | |
| 19 | U088 | | | | |
| 20 | U089 | | | | |
| 21 | U090 | | | | |
| 22 | U091 | | | | |
| 23 | U092 | | | | |
| 24 | U093 | | | | |
| 25 | U094 | | | | |
| 26 | U095 | | | | |


CONTINUE ON REVERSE

Continued from page 2.
NOTE Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U095 | 500 | P | D81 | Disposal/Storage |
| 2 | U097 | | | | |
| 3 | U098 | | | | |
| 4 | U101 | | | | |
| 5 | U102 | | | | |
| 6 | U107 | | | | |
| 7 | U108 | | | | |
| 8 | U112 | | | | Retrievable Storage |
| 9 | U113 | | | | Disposal/Storage |
| 10 | U115 | | | | |
| 11 | U117 | | | | Retrievable Storage |
| 12 | U118 | | | | Disposal/Storage |
| 13 | U119 | | | | |
| 14 | U120 | | | | |
| 15 | U123 | | | | |
| 16 | U124 | | | | |
| 17 | U134 | | | | |
| 18 | U136 | | | | |
| 19 | U137 | | | | |
| 20 | U139 | | | | |
| 21 | U140 | | | | Retrievable Storage |
| 22 | U141 | | | | Disposal/Storage |
| 23 | U145 | | | | |
| 24 | U146 | | | | |
| 25 | U148 | | | | |
| 26 | U149 | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

| I.D. NUMBER (enter from page 1) |
|---|
| WA789000896 7 |

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U151 | 500 | P | D81 | Disposal/Storage |
| 2 | U152 | | | | |
| 3 | U153 | | | | |
| 4 | U154 | | | | Retrievable Storage |
| 5 | U155 | | | | Disposal/Storage |
| 6 | U156 | | | | |
| 7 | U157 | | | | |
| 8 | U158 | | | | |
| 9 | U159 | | | | Retrievable Storage |
| 10 | U160 | | | | Disposal/Storage |
| 11 | U161 | | | | Retrievable Storage |
| 12 | U162 | | | | Disposal/Storage |
| 13 | U163 | | | | |
| 14 | U164 | | | | |
| 15 | U165 | | | | |
| 16 | U166 | | | | |
| 17 | U167 | | | | |
| 18 | U168 | | | | |
| 19 | U169 | | | | Retrievable Storage |
| 20 | U170 | | | | Disposal/Storage |
| 21 | U171 | | | | |
| 22 | U172 | | | | |
| 23 | U173 | | | | |
| 24 | U174 | | | | |
| 25 | U175 | | | | Retrievable Storage |
| 26 | U176 | | | | Disposal/Storage |

Continued from page 2.
NOTE. Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS WASTE NO. (enter codes) | 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 | U177 | 500 | P | D81 | Disposal/Storage |
| 2 | U178 | | | | |
| 3 | U179 | | | | |
| 4 | U180 | | | | |
| 5 | U181 | | | | |
| 6 | U182 | | | | |
| 7 | U183 | | | | |
| 8 | U184 | | | | |
| 9 | U185 | | | | |
| 10 | U186 | | | | |
| 11 | U187 | | | | |
| 12 | U188 | | | | |
| 13 | U189 | | | | |
| 14 | U190 | | | | |
| 15 | U191 | | | | |
| 16 | U192 | | | | |
| 17 | U193 | | | | |
| 18 | U194 | | | | |
| 19 | U196 | | | | Retrievable Storage |
| 20 | U197 | | | | Disposal/Storage |
| 21 | U200 | | | | |
| 22 | U201 | | | | |
| 23 | U202 | | | | |
| 24 | U203 | | | | |
| 25 | U204 | | | | |
| 26 | U205 | | | | |



9011773173

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS WASTE NO. (enter codes) | 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 | U206 | 500 | P | D81 | Disposal/Storage |
| 2 | U207 | | | | |
| 3 | U208 | | | | |
| 4 | U209 | | | | |
| 5 | U210 | | | | Retrievable Storage |
| 6 | U211 | | | | |
| 7 | U212 | | | | Disposal/Storage |
| 8 | U213 | | | | |
| 9 | U214 | | | | |
| 10 | U215 | | | | |
| 11 | U216 | | | | |
| 12 | U217 | | | | |
| 13 | U218 | | | | |
| 14 | U219 | | | | |
| 15 | U220 | | | | Retrievable Storage |
| 16 | U221 | | | | Disposal/Storage |
| 17 | U222 | | | | |
| 18 | U223 | | | | |
| 19 | U225 | | | | |
| 20 | U226 | | | | Retrievable Storage |
| 21 | U227 | | | | Disposal/Storage |
| 22 | U228 | | | | Retrievable Storage |
| 23 | U230 | | | | Disposal/Storage |
| 24 | U231 | | | | |
| 25 | U232 | | | | |
| 26 | U233 | | | | |



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Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | U234 | 500 | P | D81 | Disposal/Storage |
| 2 | U235 | | | | |
| 3 | U236 | | | | |
| 4 | U237 | | | | |
| 5 | U238 | | | | |
| 6 | U239 | | | | Retrievable Storage |
| 7 | U240 | | | | Disposal/Storage |
| 8 | U241 | | | | |
| 9 | U242 | | | | |
| 10 | U243 | | | | |
| 11 | U244 | | | | |
| 12 | U245 | | | | |
| 13 | U246 | | | | |
| 14 | U247 | | | | |
| 15 | | | | | |
| 16 | | | | | |
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| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
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Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P001 | 500 | P | D81 | Disposal/Storage |
| 2 | P002 | | | | |
| 3 | P003 | | | | |
| 4 | P004 | | | | |
| 5 | P005 | | | | |
| 6 | P006 | | | | Retrievable Storage |
| 7 | P007 | | | | Disposal/Storage |
| 8 | P008 | | | | |
| 9 | P009 | | | | |
| 10 | P010 | | | | |
| 11 | P011 | | | | |
| 12 | P012 | | | | |
| 13 | P013 | | | | |
| 14 | P014 | | | | |
| 15 | P015 | | | | |
| 16 | P016 | | | | |
| 17 | P017 | | | | |
| 18 | P018 | | | | |
| 19 | P020 | | | | |
| 20 | P021 | | | | |
| 21 | P022 | | | | Retrievable Storage |
| 22 | P023 | | | | Disposal/Storage |
| 23 | P024 | | | | |
| 24 | P025 | | | | |
| 25 | P026 | | | | |
| 26 | P027 | | | | |



9011771737

Continued from page 2.
NOTE. Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1)
WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P028 | 500 | P | D81 | Disposal/Storage |
| 2 | P029 | | | | |
| 3 | P030 | | | | |
| 4 | P031 | | | | |
| 5 | P033 | | | | |
| 6 | P034 | | | | |
| 7 | P035 | | | | |
| 8 | P036 | | | | |
| 9 | P037 | | | | |
| 10 | P038 | | | | |
| 11 | P039 | | | | |
| 12 | P040 | | | | |
| 13 | P041 | | | | |
| 14 | P042 | | | | |
| 15 | P043 | | | | |
| 16 | P044 | | | | |
| 17 | P045 | | | | |
| 18 | P046 | | | | |
| 19 | P047 | | | | |
| 20 | P048 | | | | |
| 21 | P049 | | | | |
| 22 | P050 | | | | |
| 23 | P051 | | | | |
| 24 | P054 | | | | |
| 25 | P056 | | | | |
| 26 | | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 28 wastes to list.

| I.D. NUMBER (enter from page 1) |
|---|
| WA789000896 7 |

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P052 | 500 | P | D81 | ~~Retrievable Storage~~ |
| 2 | P058 | | | | ~~Disposal/Storage~~ |
| 3 | P059 | | | | |
| 4 | P060 | | | | |
| 5 | P062 | | | | |
| 6 | P063 | | | | |
| 7 | P064 | | | | |
| 8 | P065 | | | | |
| 9 | P066 | | | | |
| 10 | P067 | | | | |
| 11 | P068 | | | | |
| 12 | P069 | | | | |
| 13 | P070 | | | | |
| 14 | P071 | | | | |
| 15 | P072 | | | | |
| 16 | P073 | | | | |
| 17 | P074 | | | | |
| 18 | P075 | | | | |
| 19 | P076 | | | | |
| 20 | P077 | | | | |
| 21 | P078 | | | | |
| 22 | P079 | | | | |
| 23 | P081 | | | | |
| 24 | P082 | | | | |
| 25 | P084 | | | | |
| 26 | P085 | | | | |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P087 | 500 | P | D81 | Disposal/Storage |
| 2 | P088 | | | | |
| 3 | P089 | | | | |
| 4 | P092 | | | | |
| 5 | P093 | | | | |
| 6 | P094 | | | | |
| 7 | P095 | | | | |
| 8 | P096 | | | | |
| 9 | P097 | | | | |
| 10 | P098 | | | | |
| 11 | P099 | | | | |
| 12 | P101 | | | | |
| 13 | P102 | | | | |
| 14 | P103 | | | | |
| 15 | P104 | | | | |
| 16 | P105 | | | | |
| 17 | P106 | | | | |
| 18 | P107 | | | | |
| 19 | P108 | | | | |
| 20 | P109 | | | | |
| 21 | P110 | | | | |
| 22 | P111 | | | | |
| 23 | P112 | | | | |
| 24 | P113 | | | | |
| 25 | P114 | | | | |
| 26 | P115 | | | | |

Continued from page 2.

NOTE Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1)

W A 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | P115 | 500 | P | D81 | Disposal |
| 2 | P118 | | | | |
| 3 | P119 | | | | |
| 4 | P120 | | | | |
| 5 | P121 | | | | |
| 6 | P122 | | | | |
| 7 | P123 | | | | |
| 8 | P057 | | | | |
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Continued from the front.

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The wastes handled consist of listed wastes, characteristic wastes and state-only wastes (designation of Extremely Hazardous Waste due to toxicity (WT01) results from lead content in waste), and wastes from nonspecific sources.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION *This information is provided on attached drawing and photos

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| | |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | 5-19-88 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

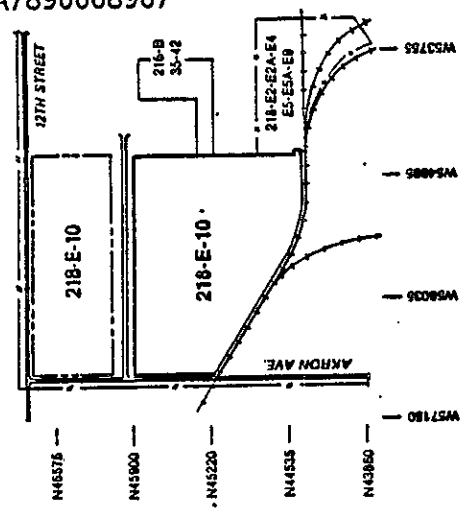
| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

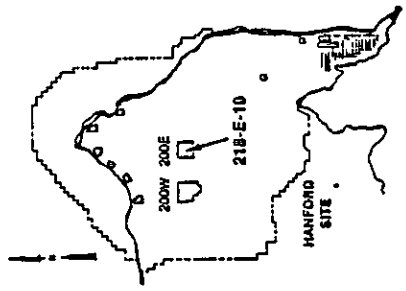
## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Michael J. Lawrence — 5-19-88
Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy
Date

W. M. Jacobi — 5/13/88
William M. Jacobi
President
Westinghouse Hanford Company
Co-operator
Date

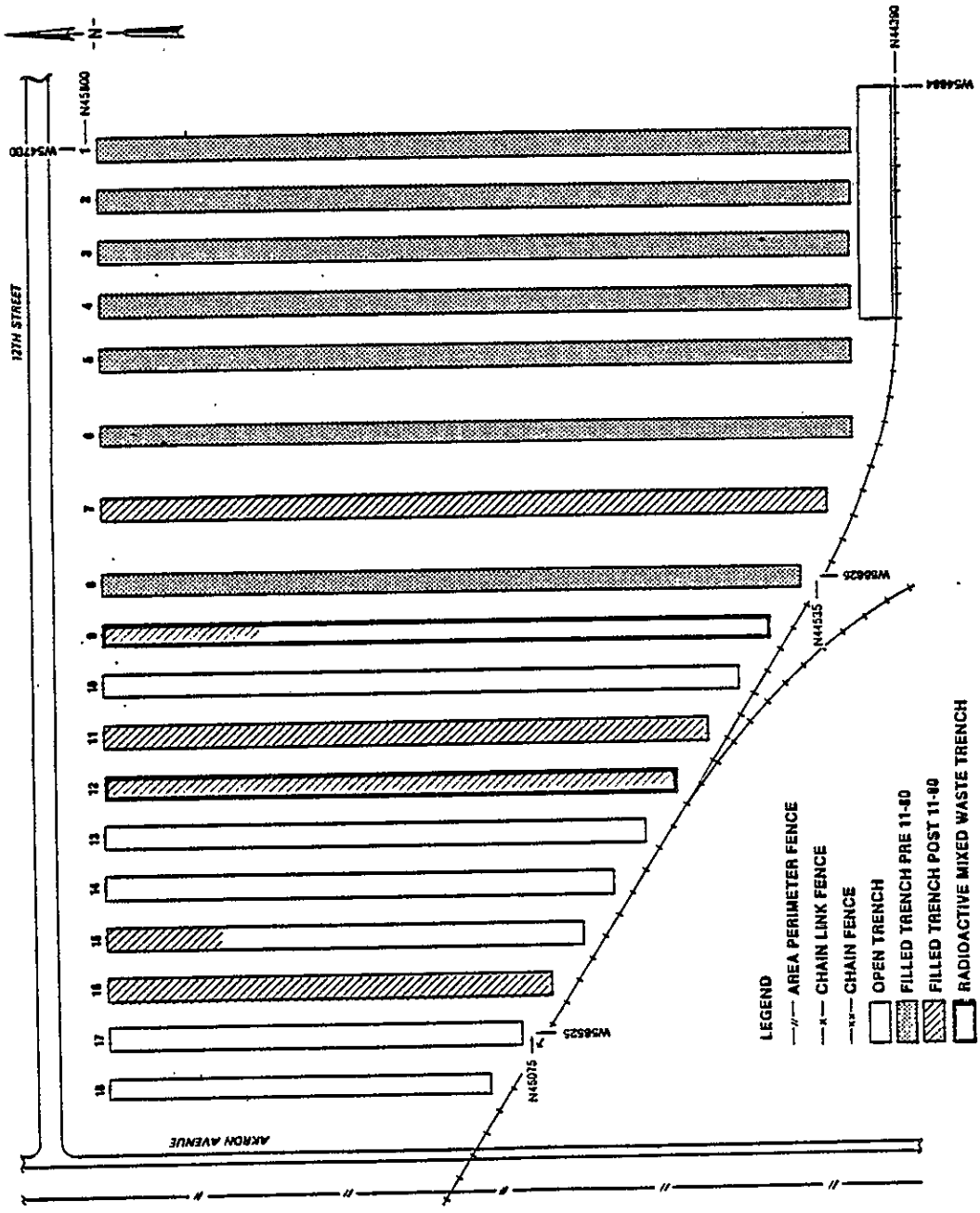


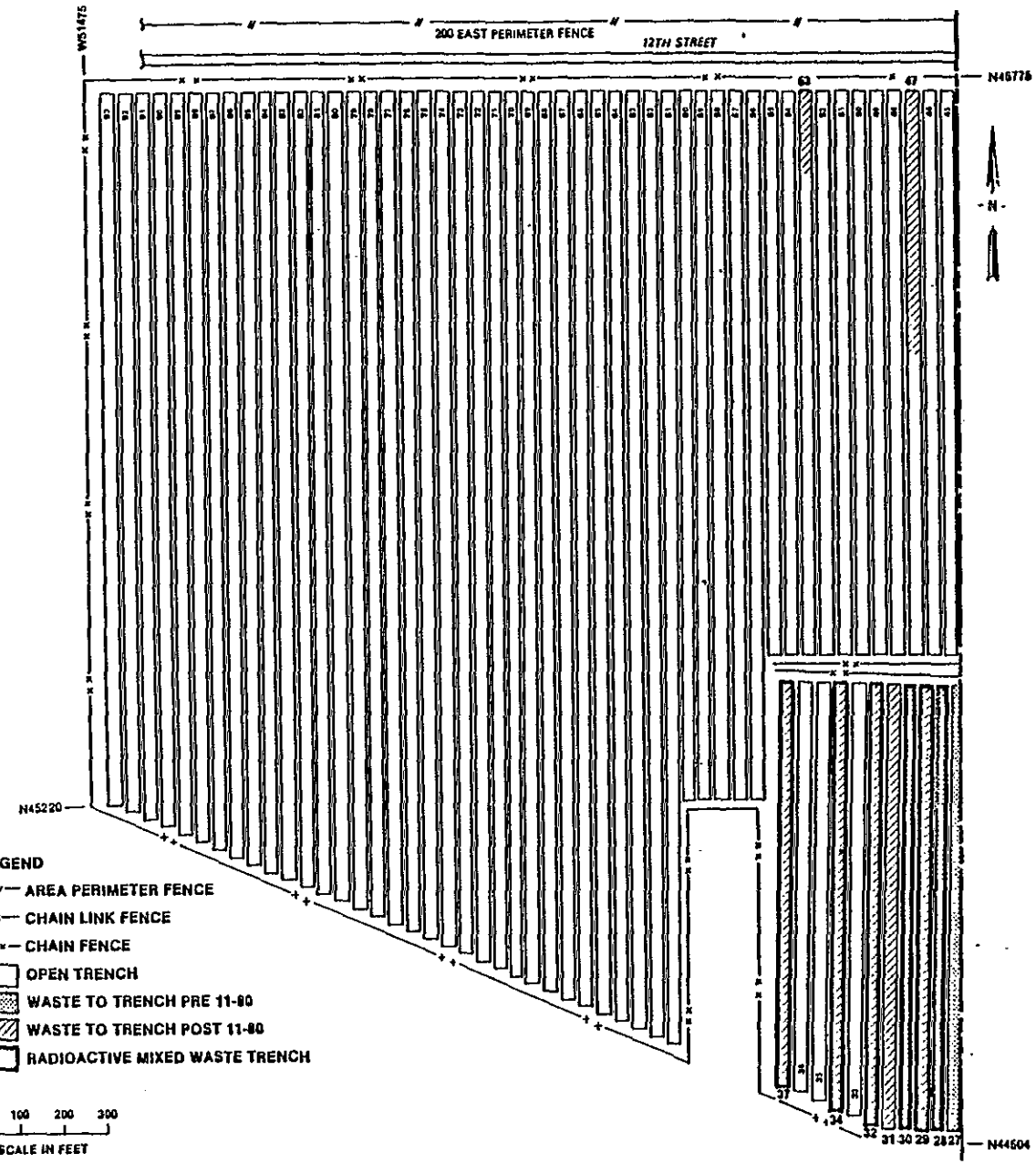



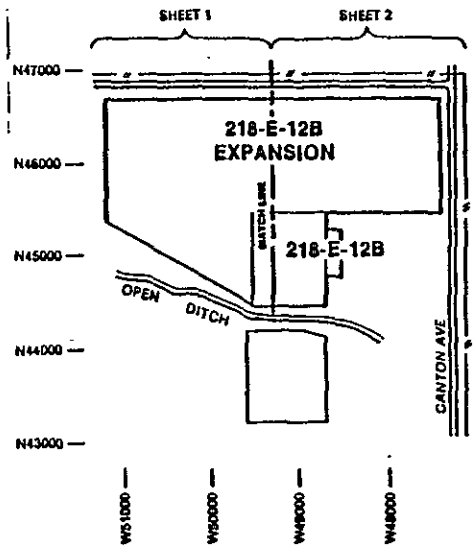

# BURIAL GROUND 218-E-10

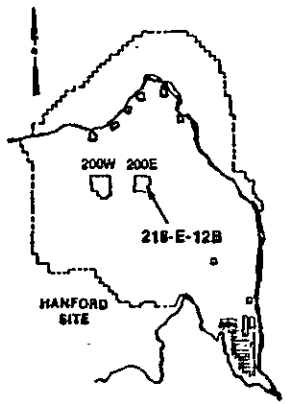
UPDATED JANUARY 1988

2K9608 8 7A





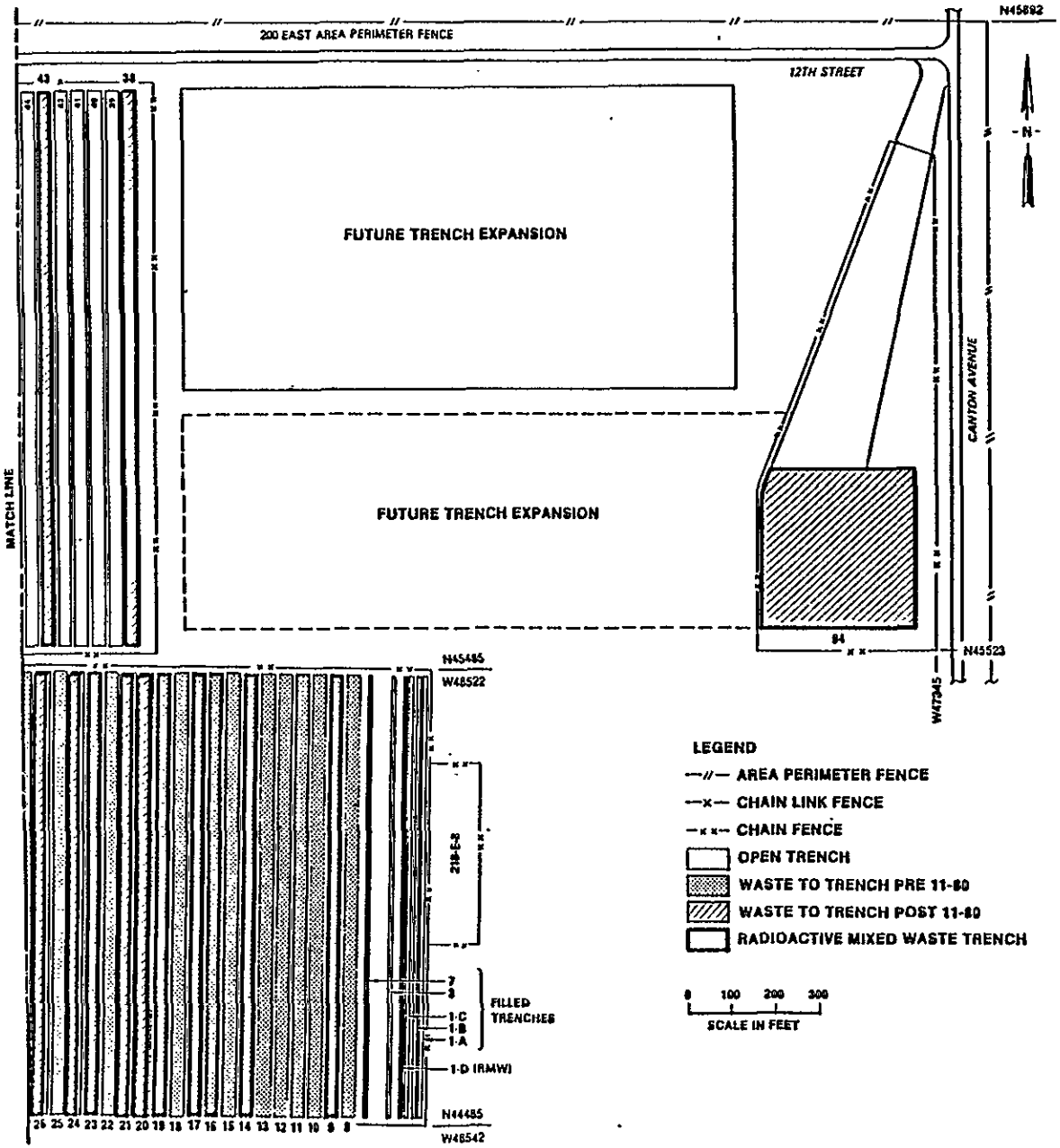



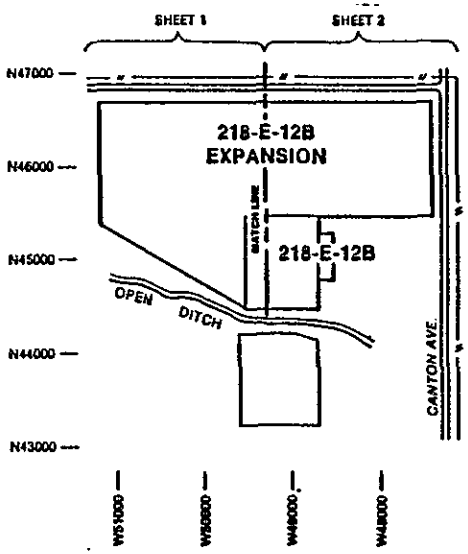



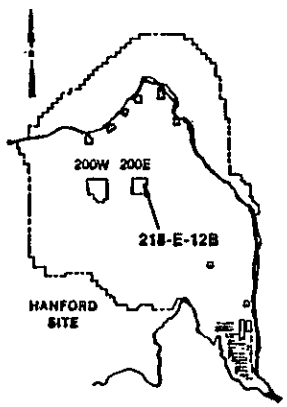

# BURIAL GROUND 218-E-12B

UPDATED JANUARY 1988

SHEET 1 of 2



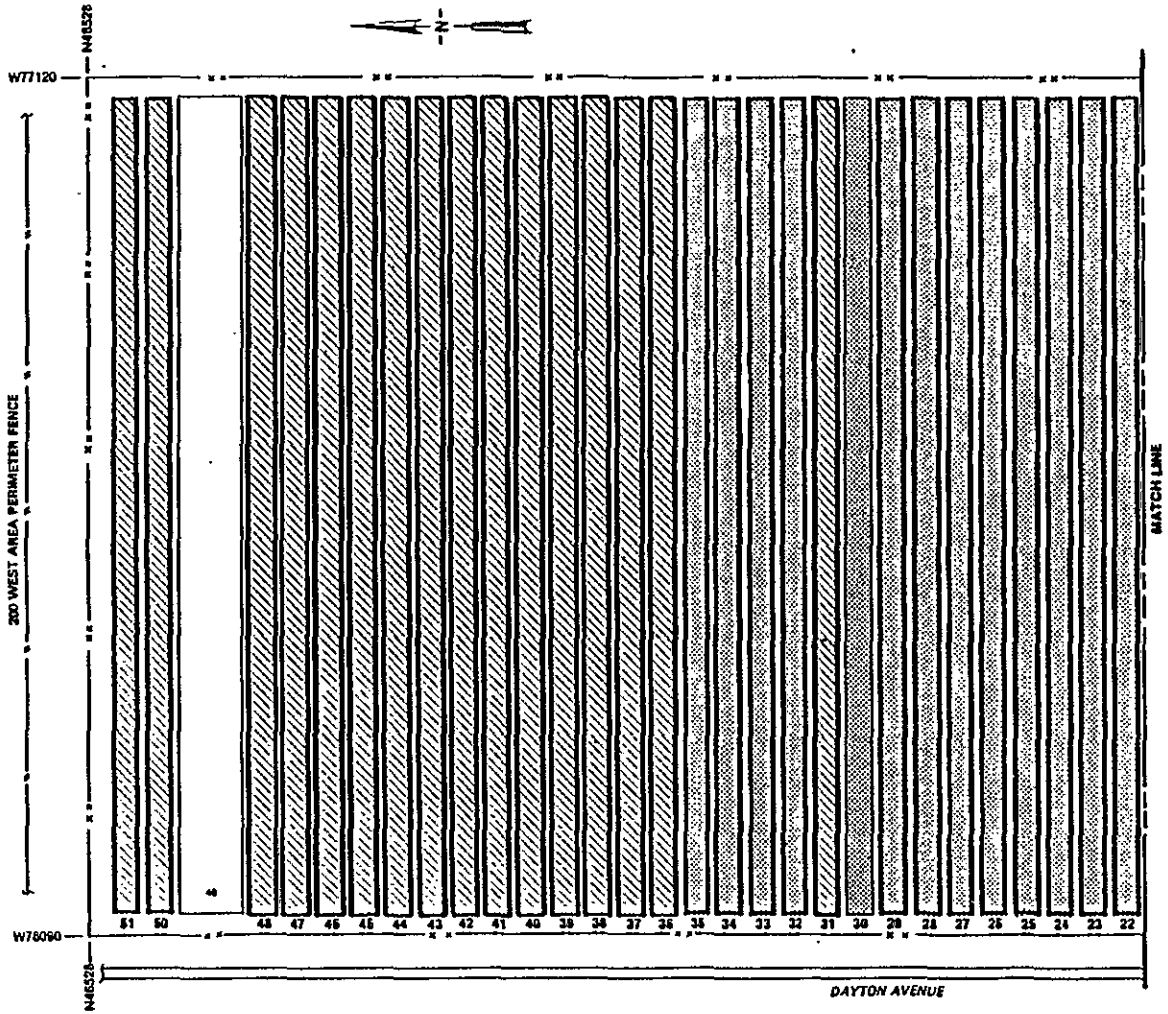

# BURIAL GROUND 218-E-12B

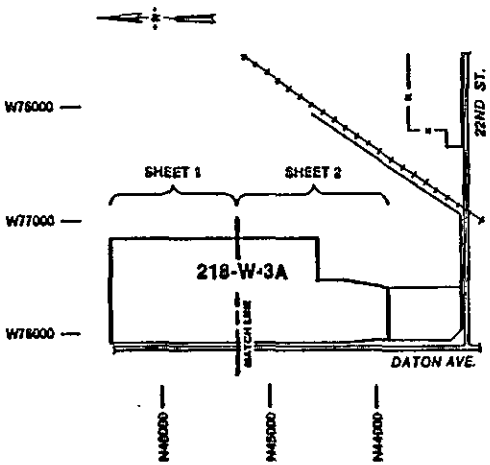
UPDATED JANUARY 1988

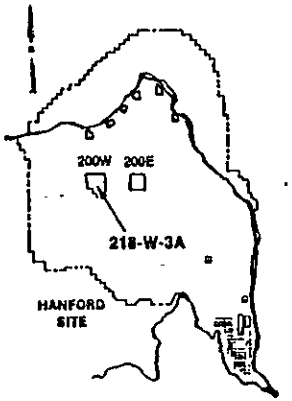
SHEET 2 of 2

2K8608 B 2A

WA7890008967




**LEGEND**

- —//— AREA PERIMETER FENCE
- —x— CHAIN LINK FENCE
- —xx— CHAIN FENCE
- OPEN TRENCH
- WASTE TO TRENCH PRE 11-80
- WASTE TO TRENCH POST 11-80
- RADIOACTIVE MIXED WASTE TRENCH

0 100 200 300
SCALE IN FEET

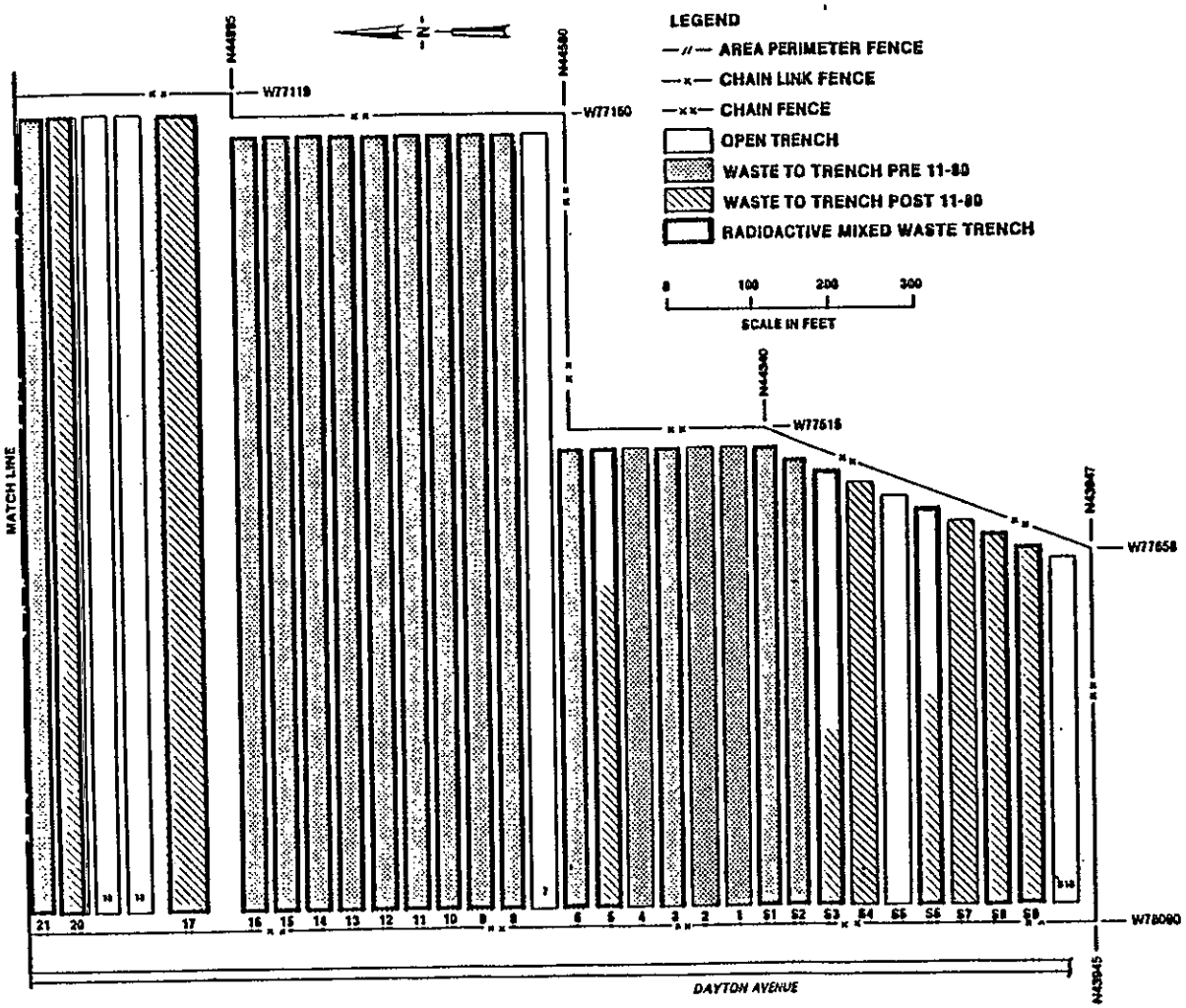
NOTE:
RETRIEVABLE STORAGE UNITS
3AT31

# BURIAL GROUND AND RETRIEVABLE STORAGE UNIT 218-W-3A

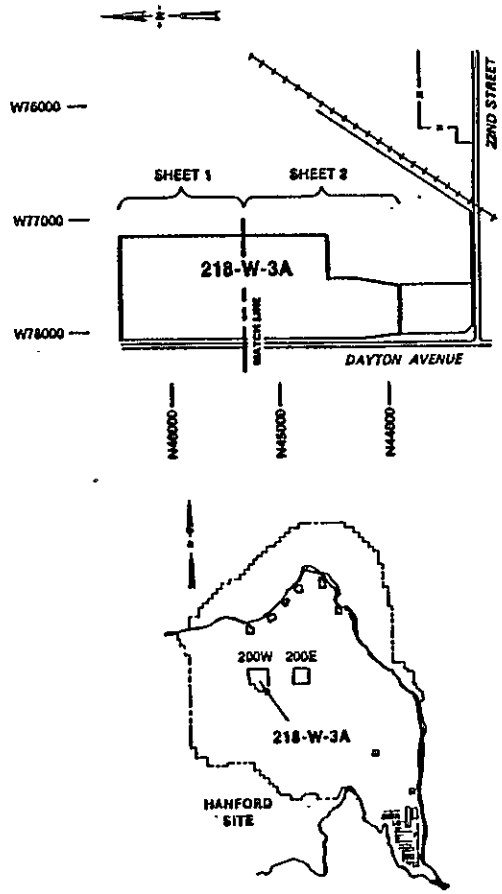
UPDATED JANUARY 1988

SHEET 1 of 2

2K8608-8.5A




NOTE:
STORAGE RETRIEVABLE UNITS
3AT5
3AT53
3AT56

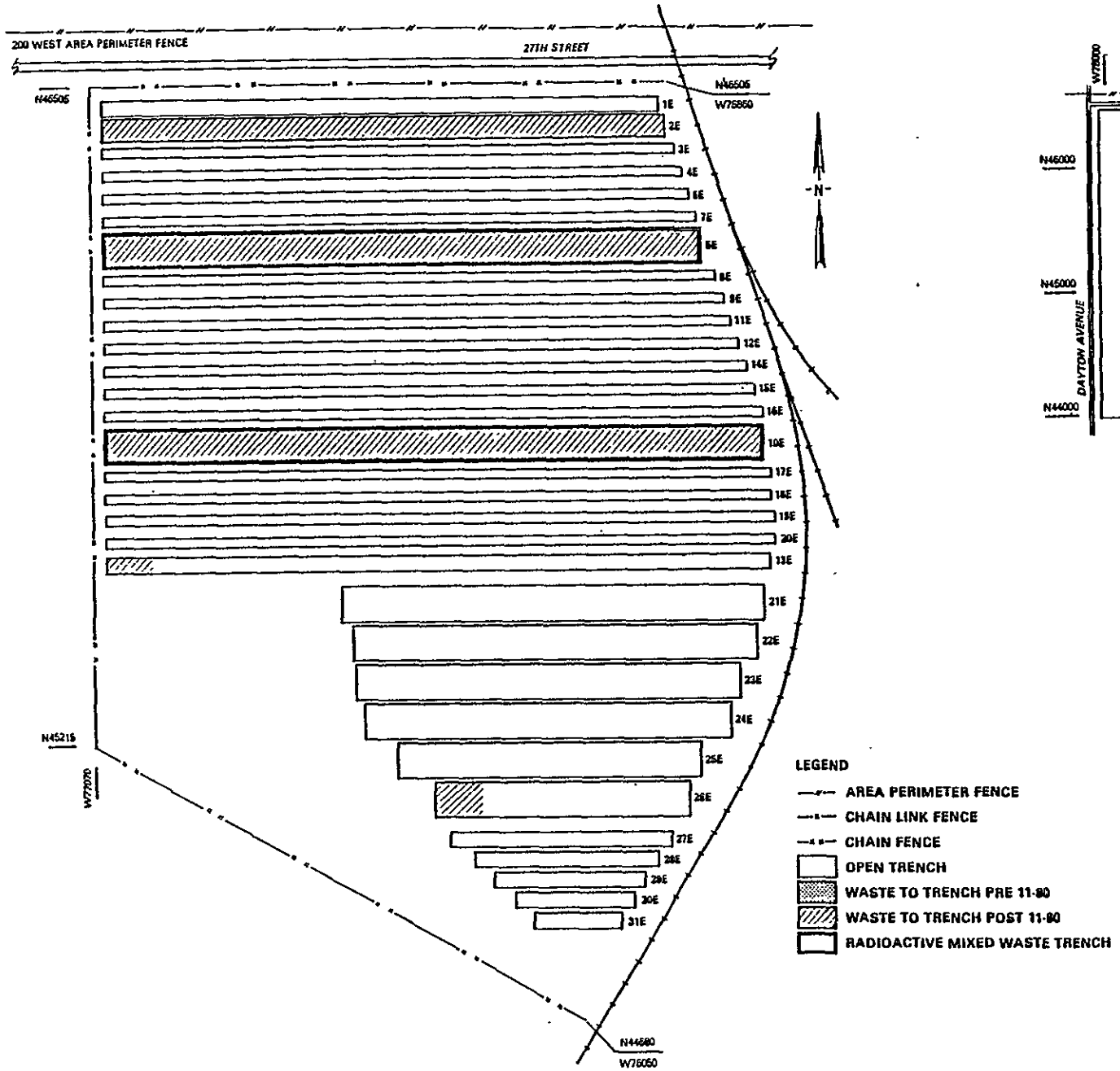


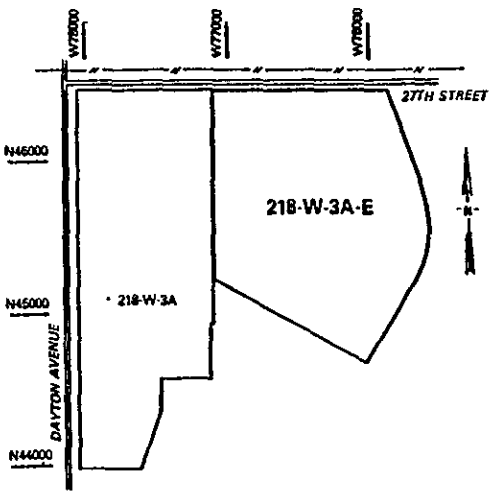

# BURIAL GROUND AND RETRIEVABLE STORAGE UNIT 218-W-3A

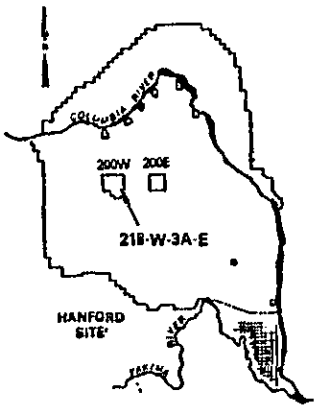
UPDATED JANUARY 1988

SHEET 2 of 2

2K860R-B 4A



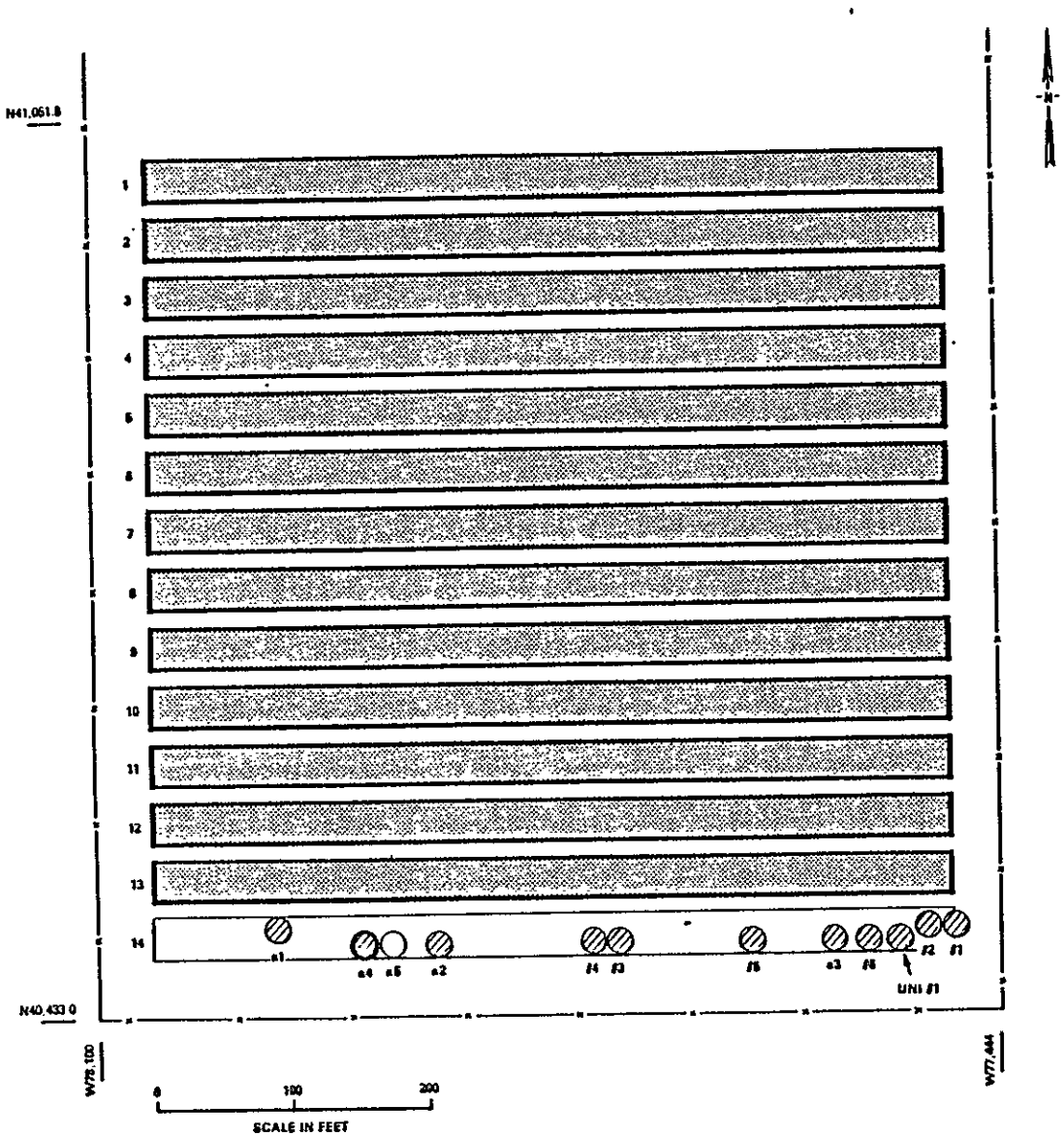



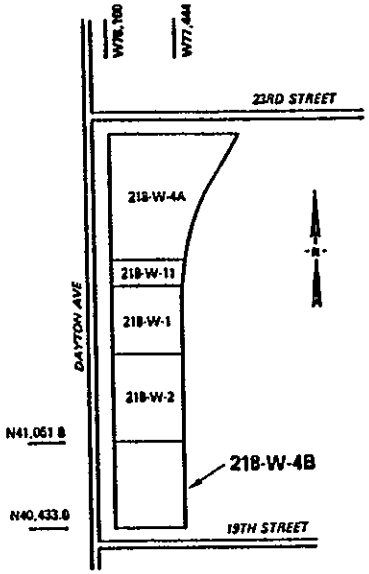



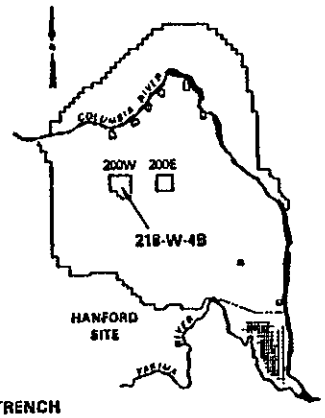

**BURIAL GROUND**
**218-W-3A-E**

UPDATED JANUARY 1988

28804-058.1



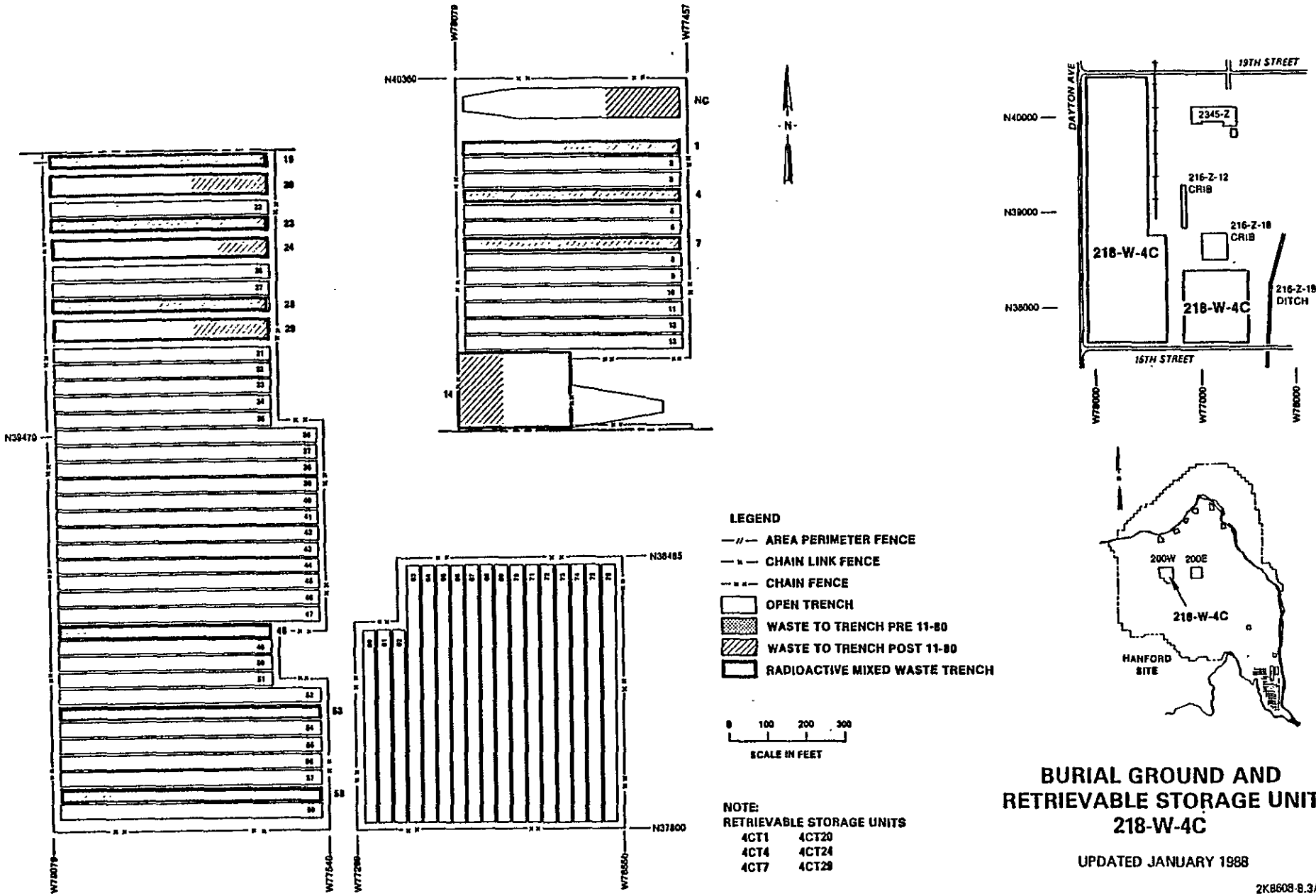

LEGEND

- AREA PERIMETER FENCE
- CHAIN LINK FENCE
- CHAIN FENCE
- OPEN TRENCH
- WASTE TO TRENCH PRE 11-80
- WASTE TO TRENCH POST 11-80
- RADIOACTIVE MIXED WASTE TRENCH

**BURIAL GROUND**
**218-W-4B**

UPDATED JANUARY 1988

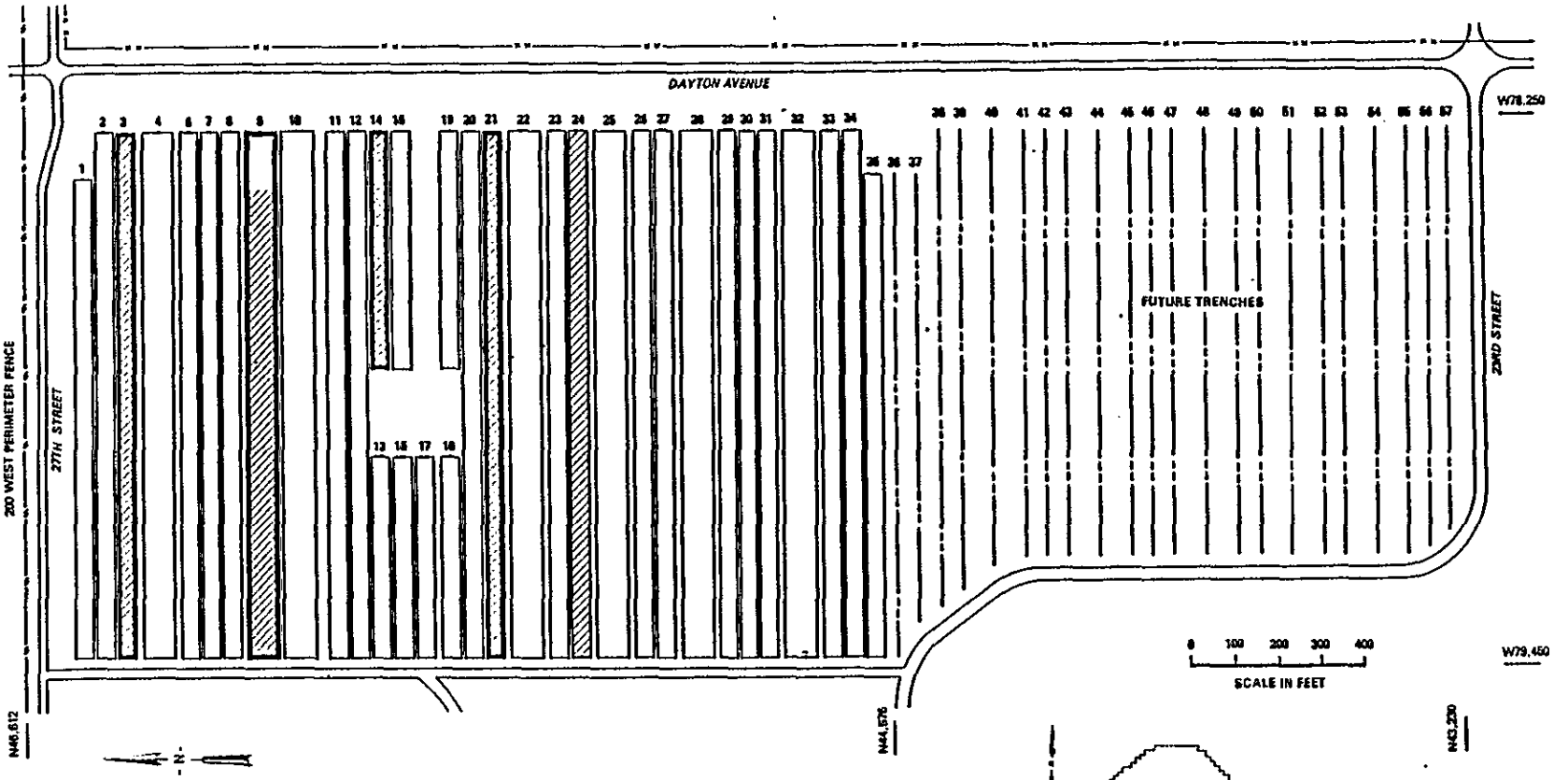
28804-058.2

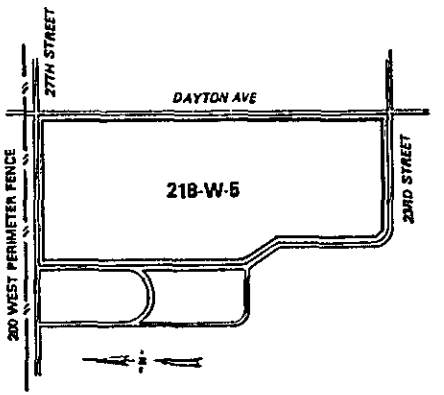


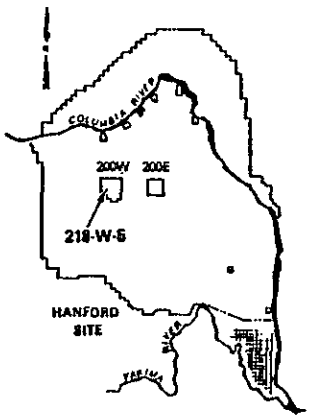

# BURIAL GROUND AND RETRIEVABLE STORAGE UNIT 218-W-4C

UPDATED JANUARY 1988

2K8608-8.3A




LEGEND

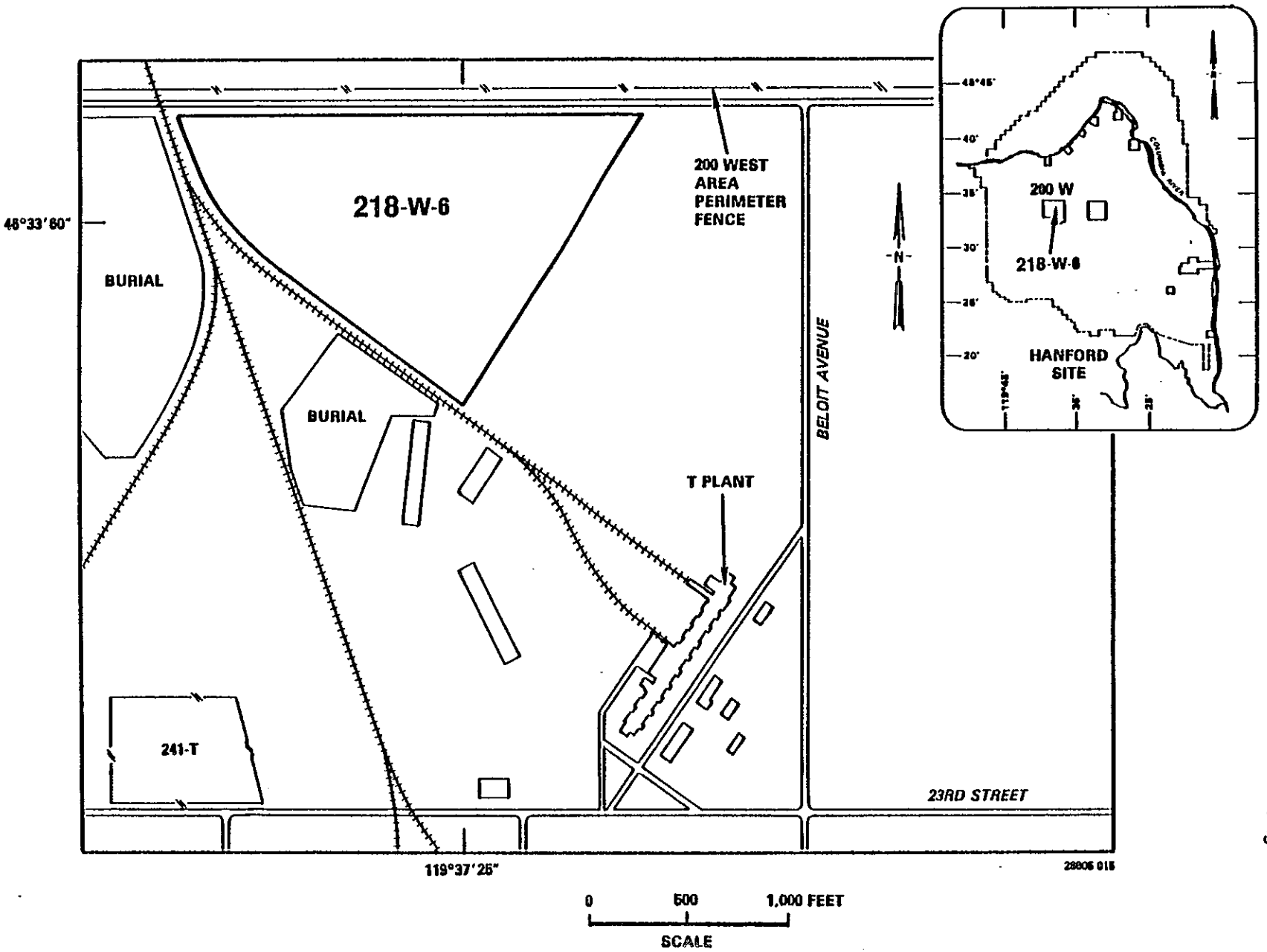
- AREA PERIMETER FENCE
- CHAIN LINK FENCE
- CHAIN FENCE
- OPEN TRENCH
- WASTE TO TRENCH PRE 11-80
- WASTE TO TRENCH POST 11-80
- RADIOACTIVE MIXED WASTE TRENCH

**BURIAL GROUND**
**218-W-5**

UPDATED JANUARY 1988

28804-058.3

# 218-W-6 BURIAL GROUND FUTURE SITE



# TYPICAL LOW-LEVEL RADIOACTIVE BURIAL GROUND 218-W-3A/200-W AREA

46°33'41.318"
119°38'6.440"

8301108-40CN

(PHOTO TAKEN 1983)

2B8707-13.45

# TYPICAL RADIOACTIVE RETRIEVABLE STORAGE FACILITY-LIQUID ORGANICS 218-W-46/200-W AREA

46°33'5.892"
119°38'3.981"

8505779-30CN

(PHOTO TAKEN 1985)

2B8707-13.41

Please print or type in the unshaded areas only
(Shaded areas are spaced for elite type, i.e., 12 characters/inch).

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

MO. 0 5 DAY 0 1 YR. 5 2 — FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

☐ 2. NEW FACILITY (Complete item below.)

MO. DAY YR. — FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | | 5 | | | | |
| X-2 | T 0 3 | 20 | E | | 6 | | | | |
| 1 | D 8 4 | 150,000 | G | | 7 | | | | |
| 2 | | | | | 8 | | | | |
| 3 | | | | | 9 | | | | |
| 4 | | | | | 10 | | | | |

Continued from the front.

## III. PROCESSES (continued)

2. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

084

The 216-S-10 Pond and Ditch receive nonregulated waste waters which consist of water tower overflow, cooling water, and rainwater. These units were historically used as the disposal site for the Chemical Engineering Laboratory between 1980 and 1983. During that time, discharges of dangerous wastes to the pond and ditch consisted of simulated double shell tank slurry. These wastes were discharged to the pond and ditch and were allowed to percolate into the soil column underlying the units. The units were designed to percolate approximately 150,000 gallons per day of wastes. The 216-S-10 Pond has been decommissioned, and the 216-S-10 Ditch continues to receive nonregulated wastes. No dangerous wastes have been discharged to these units since February 1987. The process design capacity reflects the maximum volume of water discharged to the facility on a daily basis rather than the physical capacity of the unit.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous wastes: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS WASTE NO. (enter code) | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (enter code) | D. PROCESSES 1. PROCESS CODES (enter) | | | | 2. PROCESS DESCRIPTION (If a code is not entered in D(1)) |
|---|---|---|---|---|---|---|---|---|
| 1 | D001 | 1,000 | P | D84 | | | | Percolation |
| 2 | D002 | | | | | | | Included with above |
| 3 | D007 | | | | | | | Included with above |
| 4 | WT01 | | | | | | | Included with above |
| 5 | WT02 | | | | | | | Included with above |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
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| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |



9011775175

Continued from the front.

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

Historically, the 216-S-10 Pond and Ditch received one documented discharge of dangerous waste. This discharge consisted of simulated double shell tank slurry which exhibited the dangerous waste characteristics of ignitability, corrosivity, EP toxicity, and toxicity. Approximately 1,000 pounds of dangerous wastes were discharged to this facility.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION *This information appears on the attached drawing and photograph

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| | |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | November 16, 1987 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

## X. OPERATOR CERTIFICATION

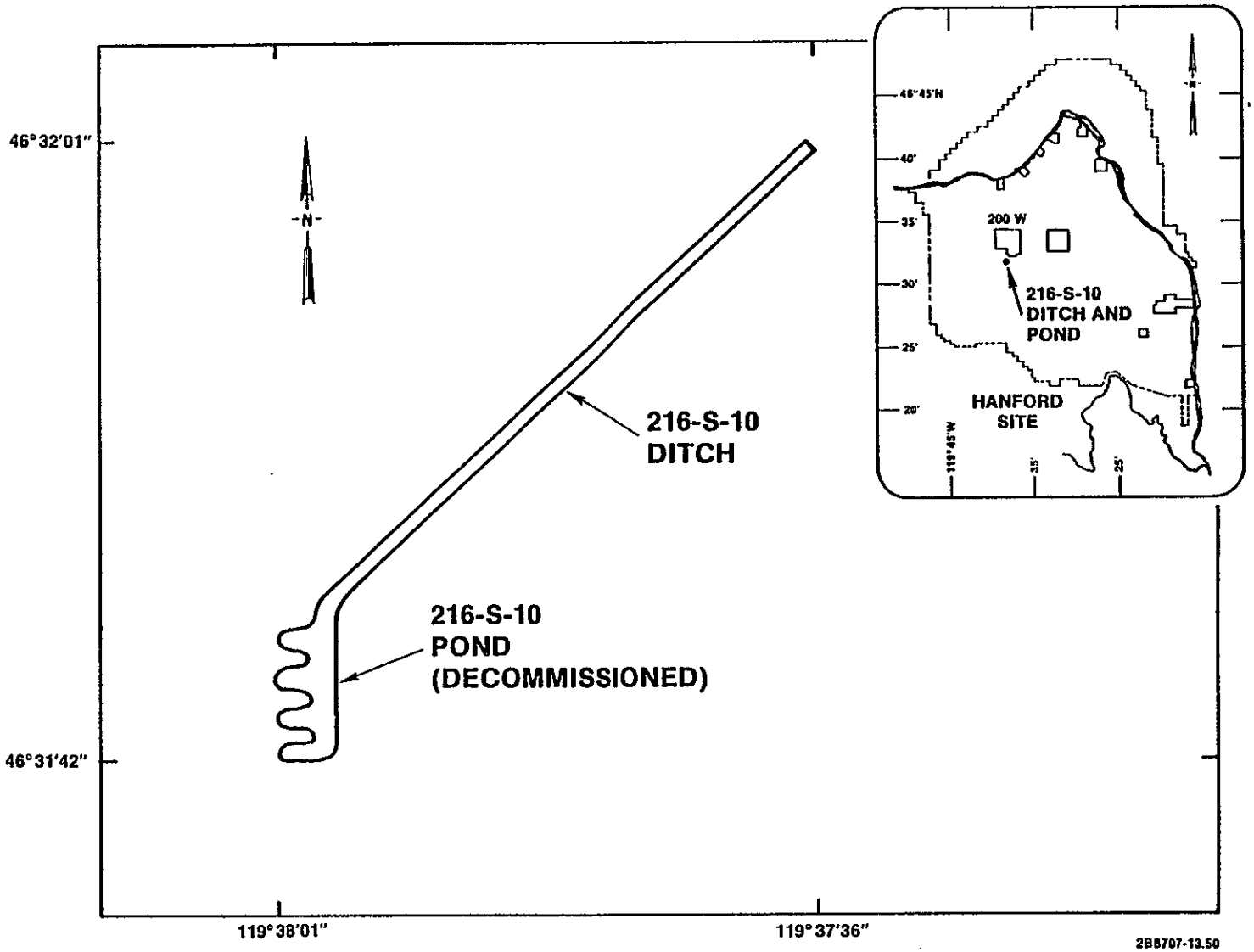
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Michael J. Lawrence — 11-16-87
Michael J. Lawrence — Date
Manager, Richland Operations
United States Department of Energy

W. M. Jacobi — 11/16/87
William M. Jacobi — Date
President
Westinghouse Hanford Company

9 0 1 1 7 7 3 1 7 6 0

# 216-S-10 DITCH AND POND



# 216-S-10 POND (Decommissioned)

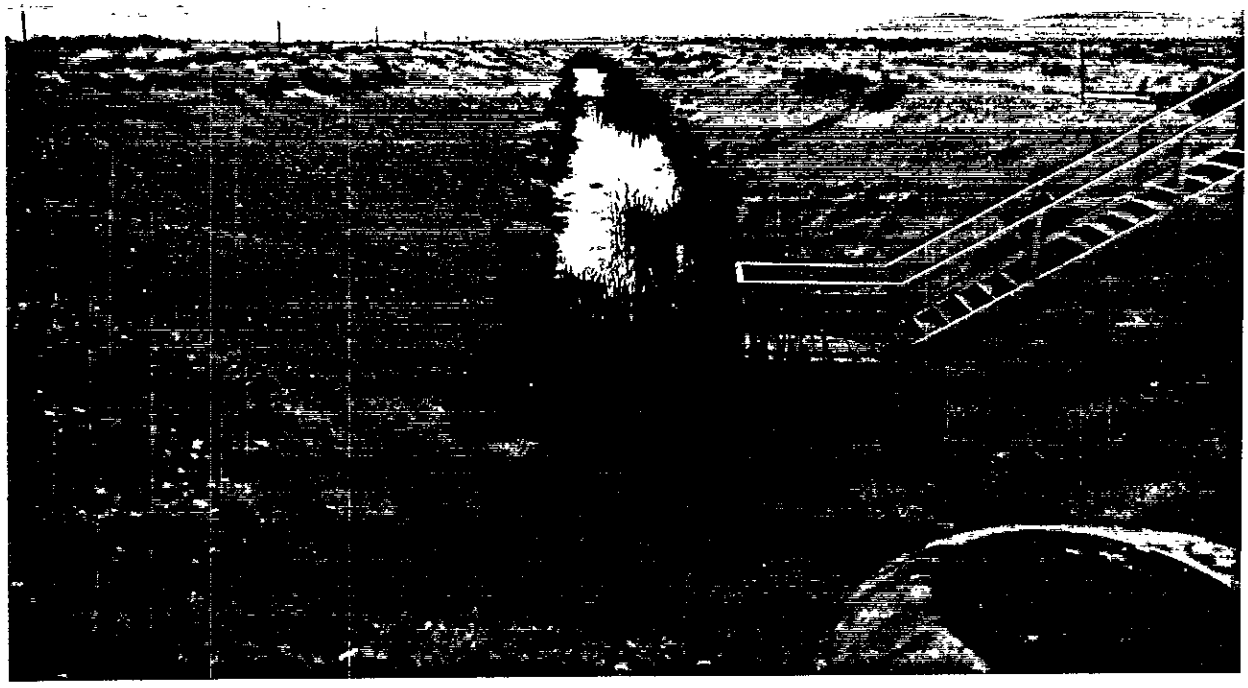
46°31'42"
119°38'01"

8704191-7CN

(PHOTO TAKEN 1987)

2B8707-13.30

# 216-S-10 DITCH



46°32'01"
46°31'39"
119°37'36"
119°38'02"

8704191-6CN

(PHOTO TAKEN 1986)

2B8707-13.27

Please print or type in the unshaded areas only.
(Fill-in areas are spaced for elite type, i.e., 12 characters/inch).

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (*place an "X" below and provide the appropriate date*)

☐ 1. EXISTING FACILITY (*See instructions for definition of "existing" facility. Complete item below.*)

MO. 0 1 3 | DAY | YR. 5 3

FOR EXISTING FACILITIES, PROVIDE THE DATE (*mo., day, & yr.*) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (*use the boxes to the left*)

☐ 2. NEW FACILITY (*Complete item below.*)

MO. | DAY | YR.

FOR NEW FACILITIES, PROVIDE THE DATE (*mo., day, & yr.*) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (*place an "X" below and complete Section I above*)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Two lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (*Section III-C*).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (*the volume that would cover one acre to a depth of one foot*) OR HECTARE-METER |
| LAND APPLICATION | D82 | *ACRES OR HECTARES* |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | O |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (*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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | |
| X-2 | T 0 3 | 20 | E | |
| 1 | D 8 4 | 18,750 | G | |
| 2 | | | | |
| 3 | | | | |
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CONTINUE ON REVERSE

Continued from the front.

## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

D84
The 2101-M Pond receives nonregulated process and cooling wastes from the 2101-M Laboratory, and, historically received chemical wastes which may have been designated dangerous wastes. Disposal of the wastes occurred by percolation of the wastes through the soil column, using the precipitation, filtration, and ion exchange which occurred in the soil to reduce the toxicity and corrosivity of the wastes. The 2101-M Pond receives approximately 18,750 gallons per day of waste waters, of which the historic discharge of dangerous wastes constituted approximately 6% of the total. This pond has not received dangerous wastes since July 1985 and will be closed under interim status. The process design capacity reflects the maximum volume of water discharged to the facility on a daily basis rather than the physical capacity of the unit.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. **DANGEROUS WASTE NUMBER** — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 estimate 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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA 7 8 9 0 0 0 8 9 6 7

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | 5,500 | P | D84 | Percolation |
| 2 | | | | | |
| 3 | | | | | |
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## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 2101-M Pond received, for a two-year period, a discharge of a solution containing barium chloride. This waste exhibited the dangerous waste characteristic of EP toxicity due to the barium. A total of approximately 1,200 gallons of this waste was discharged to the 2101-M Pond.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION *This information appears on the attached drawing and photograph

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| | |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | November 16, 1987 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

9 0 1 7 7 3 1 7 5 7

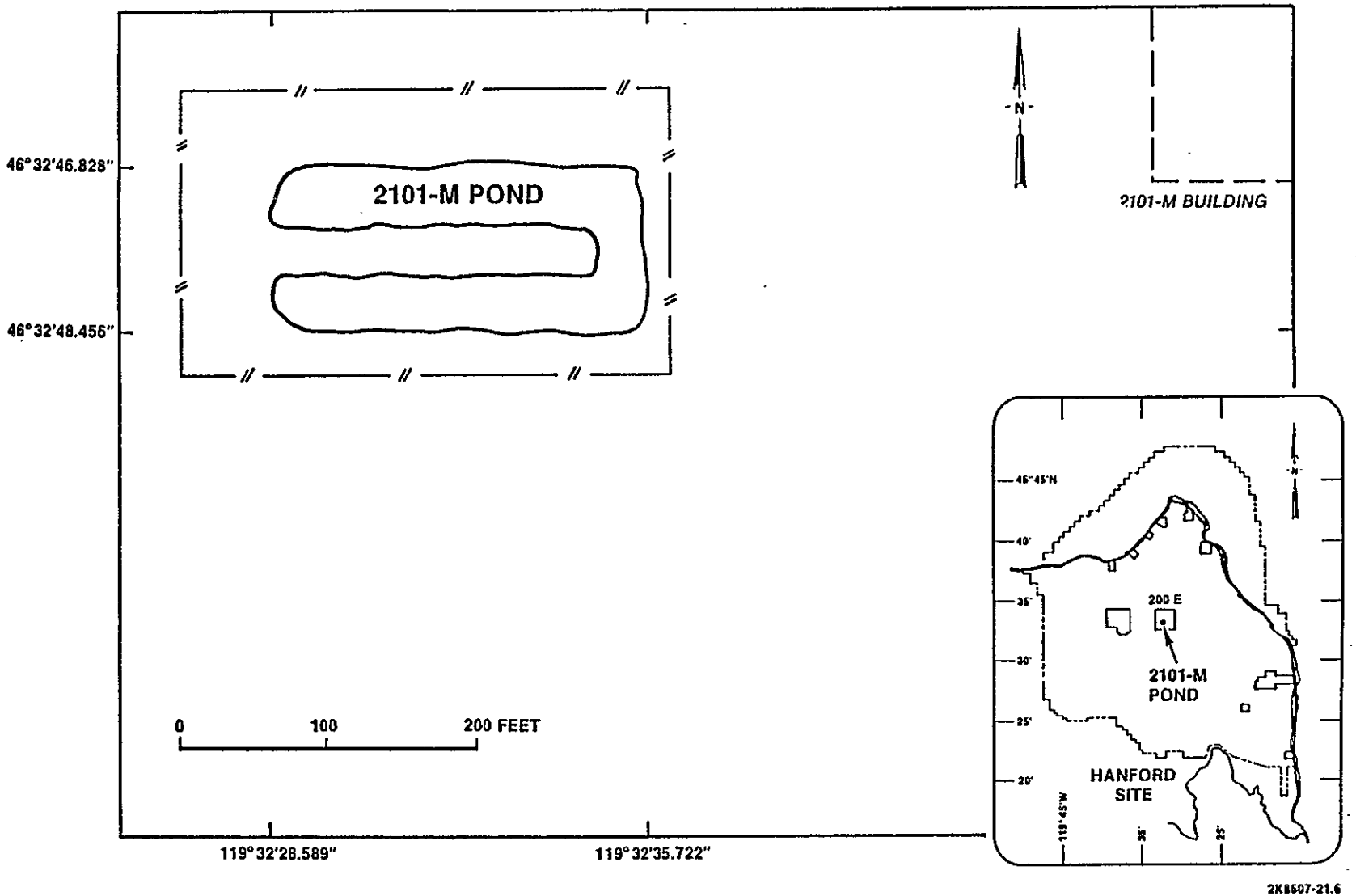
## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Michael J. Lawrence — 11-16-87
Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy
Date

W. M. Jacobi — 11/16/87
William M. Jacobi
President
Westinghouse Hanford Company
Date

# 2101-M POND


46°32'46.828"
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2101-M BUILDING
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119°32'28.589"
119°32'35.722"
46°45'N
40'
35'
30'
25'
20'
200 E
2101-M
POND
HANFORD
SITE
2K8507-21.6

# 2101-M POND

46°32'46.828"
46°32'48.456"
119°32'28.589"
119°32'35.722"

8505779-5CN

(PHOTO TAKEN 1985)

2K8607-21.14

Please type or print in the unshaded areas only
(Shaded areas are spaced for elite type, i.e., 12 characters/inch).

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| 11 | | 56 |

FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (see the boxes to the left)

☐ 2. NEW FACILITY (Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| | | |

FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | O |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | S |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|
| X-1 | S02 | 600 | G | |
| X-2 | T03 | 20 | E | |
| | D84 | 6,000,000 | G | |
| 2 | T04 | 6,000,000 | U | |
| 3 | | | | |
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## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

T04, D84

The 216-A-29 Ditch receives nonregulated process and cooling waters from PUREX, and historically received corrosive dangerous wastes from regeneration of demineralizer columns in the PUREX facility. Treatment of these wastes occurred by the successive addition of acidic and caustic wastes. This served to neutralize the wastes while in the ditch. Any acidic or caustic wastes which did reach the soil were subsequently neutralized by the calcareous nature of the soil. Approximately 6,000,000 gallons per day of total flow reached this ditch. No accurate estimates are available concerning the volume of corrosive wastes this facility treated. This unit has not received dangerous wastes since February 1986 and will be closed under interim status. The process design capacity reflects the maximum volume of water discharged to the facility on a daily basis rather than the physical capacity of the unit.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. **DANGEROUS WASTE NUMBER** — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

NOTE: **DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER** — Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

Continued from page 2.

NOTE: *Photocopy this page before completing if you have more than 26 wastes to list.*

I.D. NUMBER (*enter from page 1*): W A 7 8 9 0 0 0 8 9 6 7

## IV. DESCRIPTION OF DANGEROUS WASTES (*continued*)

| LINE NO. | A. DANGEROUS 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 | 3,300,000,000 | P | T04 D84 | Neutralization/Percolation |
| 2 | U133 | 310 | P | T04 D84 | |
| 3 | WT02 | 50,000 | P | T04 D84 | |
| 4 | D006 | 35 | P | T04 D84 | |
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## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 216-A-29 Ditch historically received corrosive dangerous wastes from the PUREX plant. These discharges consisted of acidic and caustic backwashes from the regeneration of demineralizer columns in PUREX. The 216-A-29 Ditch also historically received spills from PUREX. When accurate information as to the nature and quantity of these spills was available, this information was listed on the annual waste quantity.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION *This information appears on the attached drawing and photograph

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| | |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | November 16, 1987 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

9 0 1 1 7 7 3 1 7 7 4

## X. OPERATOR CERTIFICATION

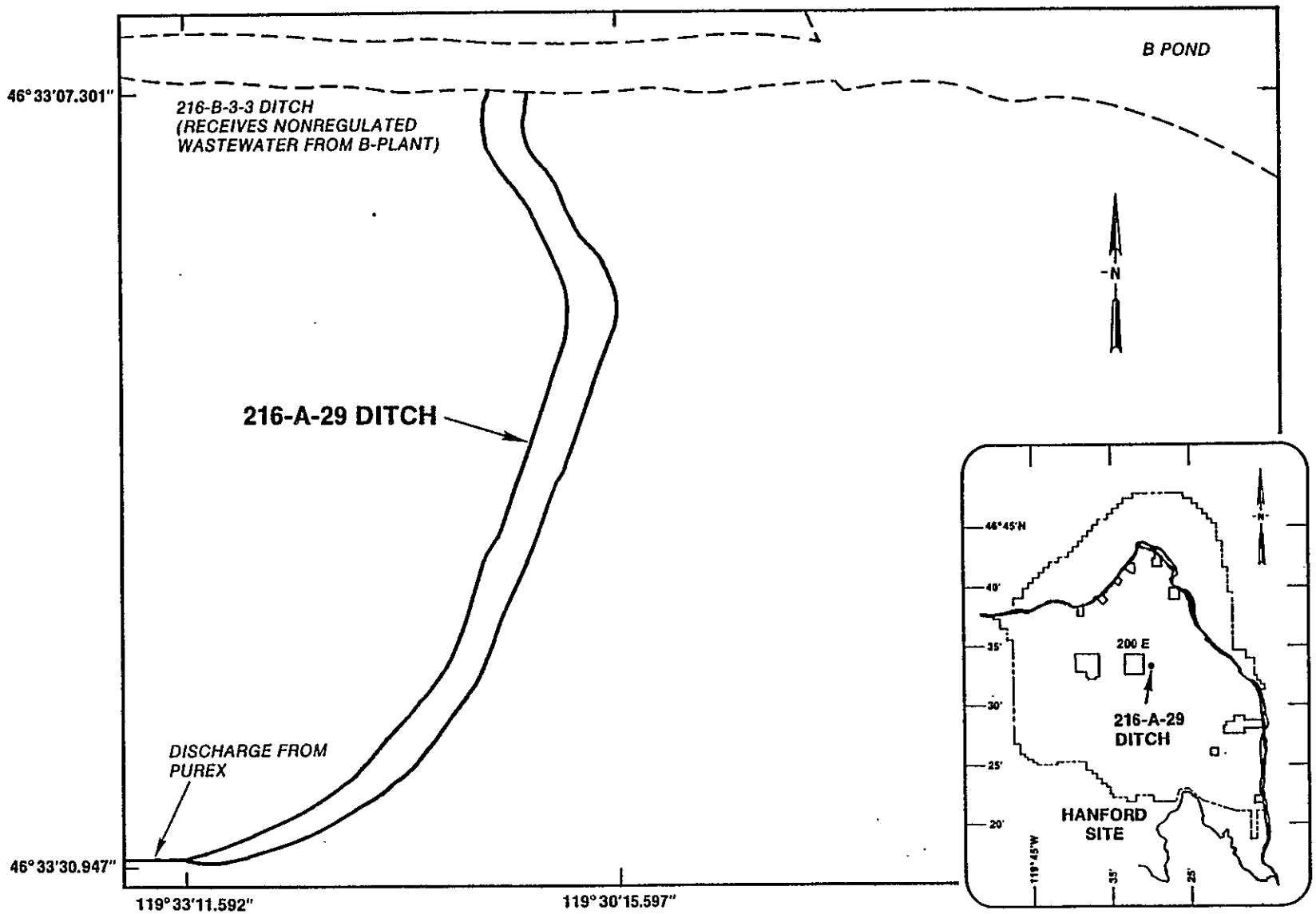
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Michael J. Lawrence — 11-16-87
Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy
Date

W. M. Jacobi — 11/16/87
William M. Jacobi
President
Westinghouse Hanford Company
Date

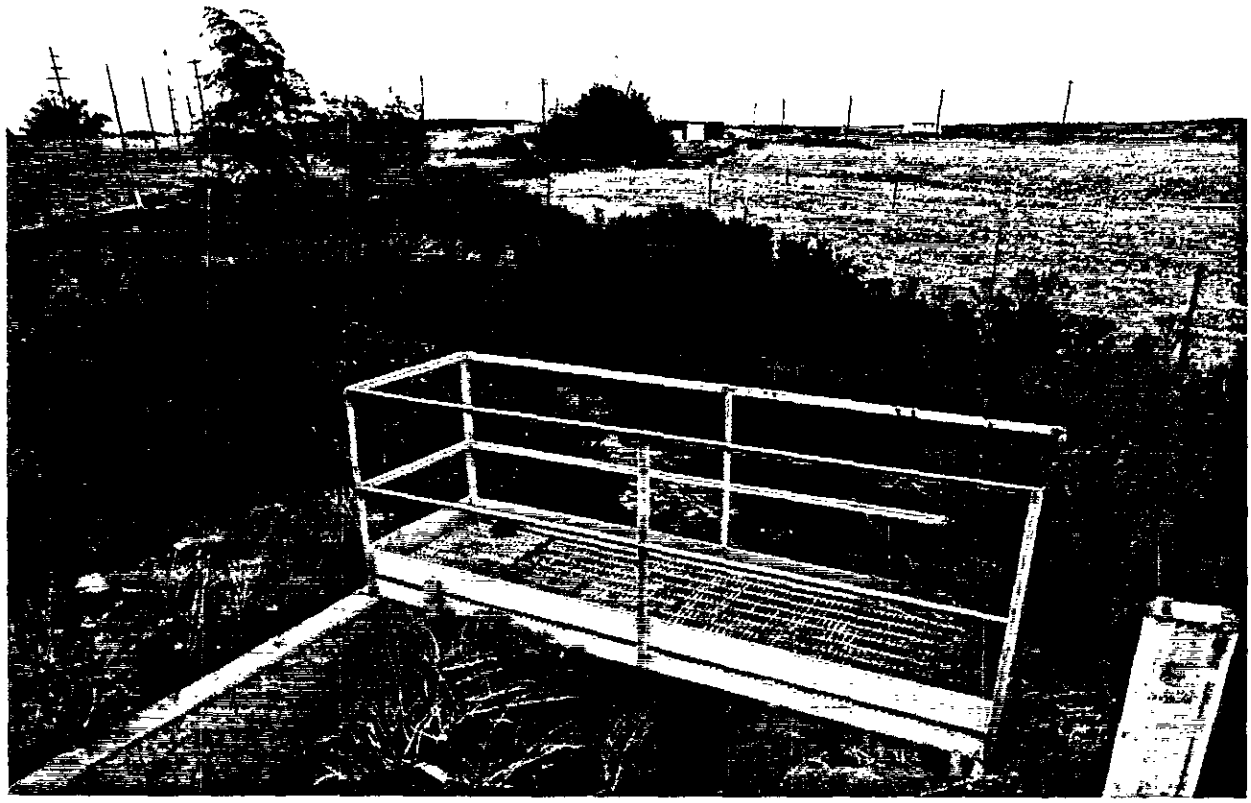
9011177175

# 216-A-29 DITCH




2K8607-21.7

# 216-A-29 DITCH



46°33'07.301"
46°33'30.947"
119°33'11.592"
119°30'15.597"

8704191-5CN

(PHOTO TAKEN 1982)

2K8607-21.13

9011772117776

Please print or type in the unshaded areas only
(Fill-in areas are spaced for elite type, i.e., 12 characters/inch

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

**FOR OFFICIAL USE ONLY**

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (*place an "X" below and provide the appropriate date*)

☐ 1. EXISTING FACILITY (*See instructions for definition of "existing" facility. Complete item below.*)

* MO. | DAY | YR. 4 5 — FOR EXISTING FACILITIES, PROVIDE THE DATE (*mo., day, & yr.*) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (*use the boxes to the left*)

☐ 2. NEW FACILITY (*Complete item below.*)

MO. | DAY | YR. — FOR NEW FACILITIES, PROVIDE THE DATE (*mo., day, & yr.*) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (*place an "X" below and complete Section I above*)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Two lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (*Section III-C*).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (*the volume that would cover one acre to a depth of one foot*) OR HECTARE-METER |
| LAND APPLICATION | D82 | *ACRES OR HECTARES* |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (*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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | | 5 | | | | |
| X-2 | T 0 3 | 20 | E | | 6 | | | | |
| 1 | T 0 4 | 22,000,000 | U | | 7 | | | | |
| 2 | D 8 4 | 22,000,000 | G | | 8 | | | | |
| 3 | | *The month of initial operation on this facility was not available | | | 9 | | | | |
| 4 | | | | | 10 | | | | |



CONTINUE ON REVERSE

Continued from the front

## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

T04, D84

The 216-B-3 Pond receives process and cooling waters from PUREX, B Plant, and other 200 Area facilities via the 216-A-29 Ditch. The pond also historically received potentially corrosive dangerous wastes from the regeneration of demineralizer columns in PUREX. Treatment of the wastes occurred by the successive addition of acidic and caustic wastes. This served to neutralize the wastes prior to their reaching the pond. Any wastes which did reach the pond were subsequently neutralized by the calcareous nature of the soil underlying the pond. Approximately 22,000,000 gallons per day were treated in B Pond, of which the corrosive discharge constituted a small fraction. The pond has not received dangerous wastes since February 1986 and will be closed under interim status. The process design capacity reflects the maximum volume of water discharged to the facility on a daily basis rather than the physical capacity of the unit.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. **DANGEROUS WASTE NUMBER** — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

9 0 1 1 7 7 3 1 7 7 9

Continued from page 2.

*NOTE: Photocopy this page before completing if you have more than 26 wastes to list.*

I.D. NUMBER (enter from page 1): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE NO. | A. DANGEROUS 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 | 3,300,000,000 | P | T04 | D84 | | | Neutralization/Percolation |
| 2 | U133 | 310 | P | T04 | D84 | | | |
| 3 | WT02 | 50,000 | P | T04 | D84 | | | |
| 4 | D006 | 35 | P | T04 | D84 | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
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| 25 | | | | | | | | |
| 26 | | | | | | | | |



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## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 216-B-3 Pond historically received corrosive dangerous wastes via the 216-A-29 Ditch. These dangerous wastes consisted of backwash from the regeneration of demineralizer columns in PUREX. This pond also received infrequent spills of hazardous wastes from PUREX. When accurate information as to the nature of quantity of these spills was available, this information was listed on the estimated annual waste quantity.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION *This information appears on the attached drawing and photograph

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| | |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | November 16, 1987 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

## X. OPERATOR CERTIFICATION

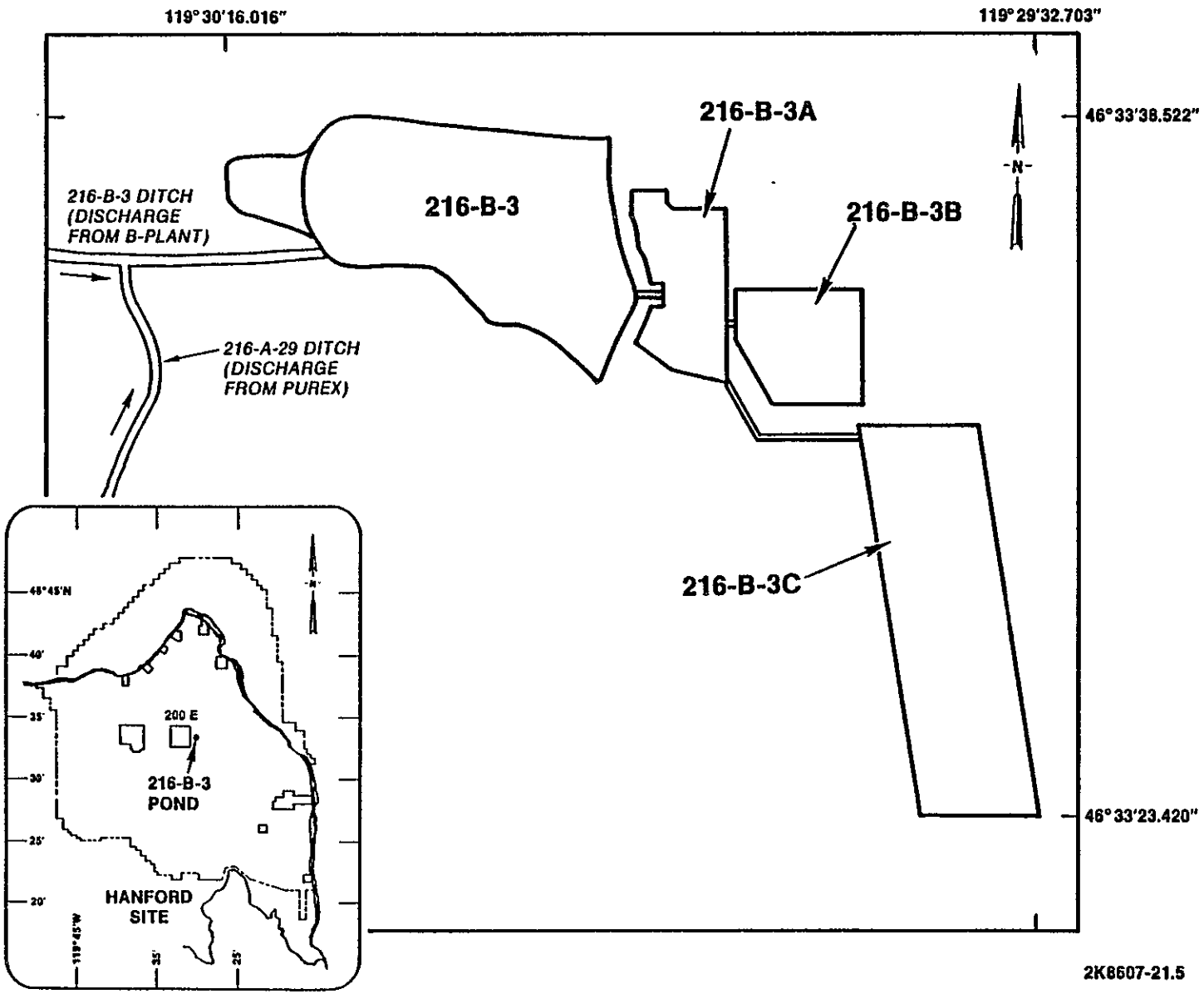
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Michael J. Lawrence — 11-16-87
Michael J. Lawrence — Date
Manager, Richland Operations
United States Department of Energy

W. M. Jacobi — 11/16/87
William M. Jacobi — Date
President
Westinghouse Hanford Company

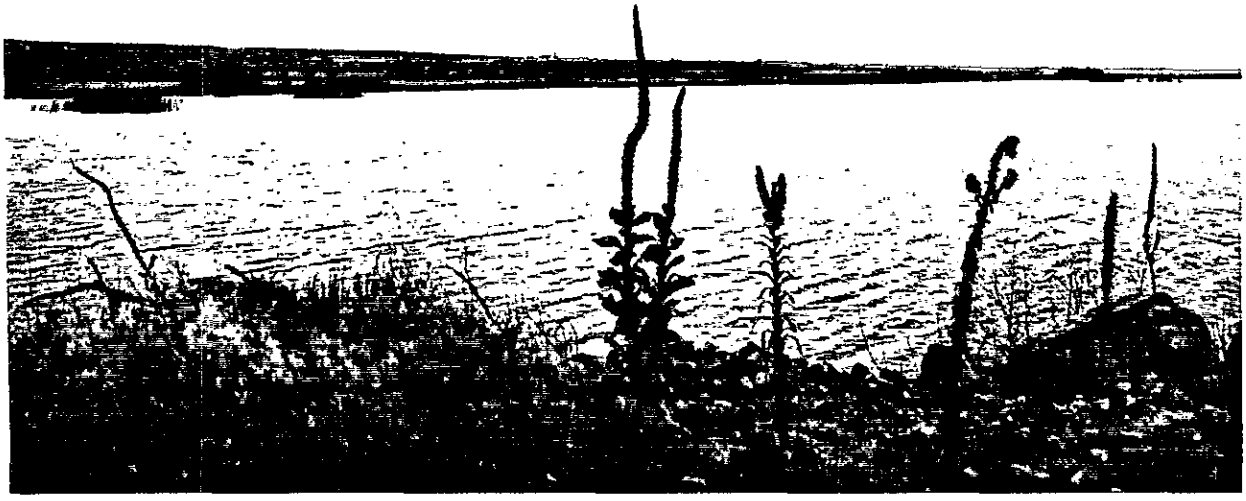
9011173176

# 216-B-3 POND




WA7890008967

# 216-B-3 POND



8704191-3CN

46°33'38.522"
46°33'23.420"
119°30'16.016"
119°29'32.703"

8503592-56CN
(PHOTO TAKEN 1985)

2K8607-21.17

Please print or type in the unshaded areas only
(Elite—12 areas are spaced for elite type, i.e., 12 characters/inch).

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| 0 3 | | 7 0 |

FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

☐ 2. NEW FACILITY (Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| | | |

FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | | 5 | | | | |
| X-2 | T 0 3 | 20 | E | | 6 | | | | |
| 1 | T 0 4 | 200,000 | U | | 7 | | | | |
| 2 | D 8 4 | 200,000 | G | | 8 | | | | |
| 3 | | | | | 9 | | | | |
| 4 | | | | | 10 | | | | |



CONTINUE ON REVERSE

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## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

T04, D84

The 216-B-63 Trench receives nonregulated waste water from the B Plant Chemical Sewer. The trench also historically received corrosive dangerous waste from the generation of demineralizer columns in B Plant. Treatment of these wastes occurred by the successive addition to the trench of acidic and caustic wastes. This served to neutralize the wastes while in the trench. Any acidic or caustic waste which did reach the soil were subsequently neutralized by the calcareous nature of the soil. Approximately 125,000 gallons per day total flow reached the trench. The corrosive discharges constituted a major part of this flow. This unit has not received dangerous waste since September 1985 and will be closed under interim status. The process design capacity reflects the maximum volume of water discharged to the facility on a daily basis rather than the physical capacity of the unit.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. **DANGEROUS WASTE NUMBER** — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

Continued from page 2.
NOTE: *Photocopy this page before completing if you have more than 26 wastes to list.*

I.D. NUMBER (enter from page 1): W A 7 8 9 0 0 0 8 9 6 7

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

| LINE | A. DANGEROUS WASTE NO. (enter code) | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (enter code) | D. PROCESSES 1. PROCESS CODES (enter) | | | | 2. PROCESS DESCRIPTION (If a code is not entered in D(1)) |
|---|---|---|---|---|---|---|---|---|
| 1 | D 0 0 2 | 75,000,000 | P | T 0 4 | D 8 4 | | | Percolation/Neutralization |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
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| 25 | | | | | | | | |
| 26 | | | | | | | | |

Continued from the front.

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

Historically, the 216-B-63 Trench received discharges of corrosive, dangerous wastes from B Plant. These discharges consisted of acidic and caustic backwashed from the regeneration of demineralizer columns in B Plant. Approximately 150,000,000 pounds of corrosive wastes were managed in the trench on an annual basis.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION *This information appears on the attached drawing and photograph

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| | |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | November 16, 1987 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

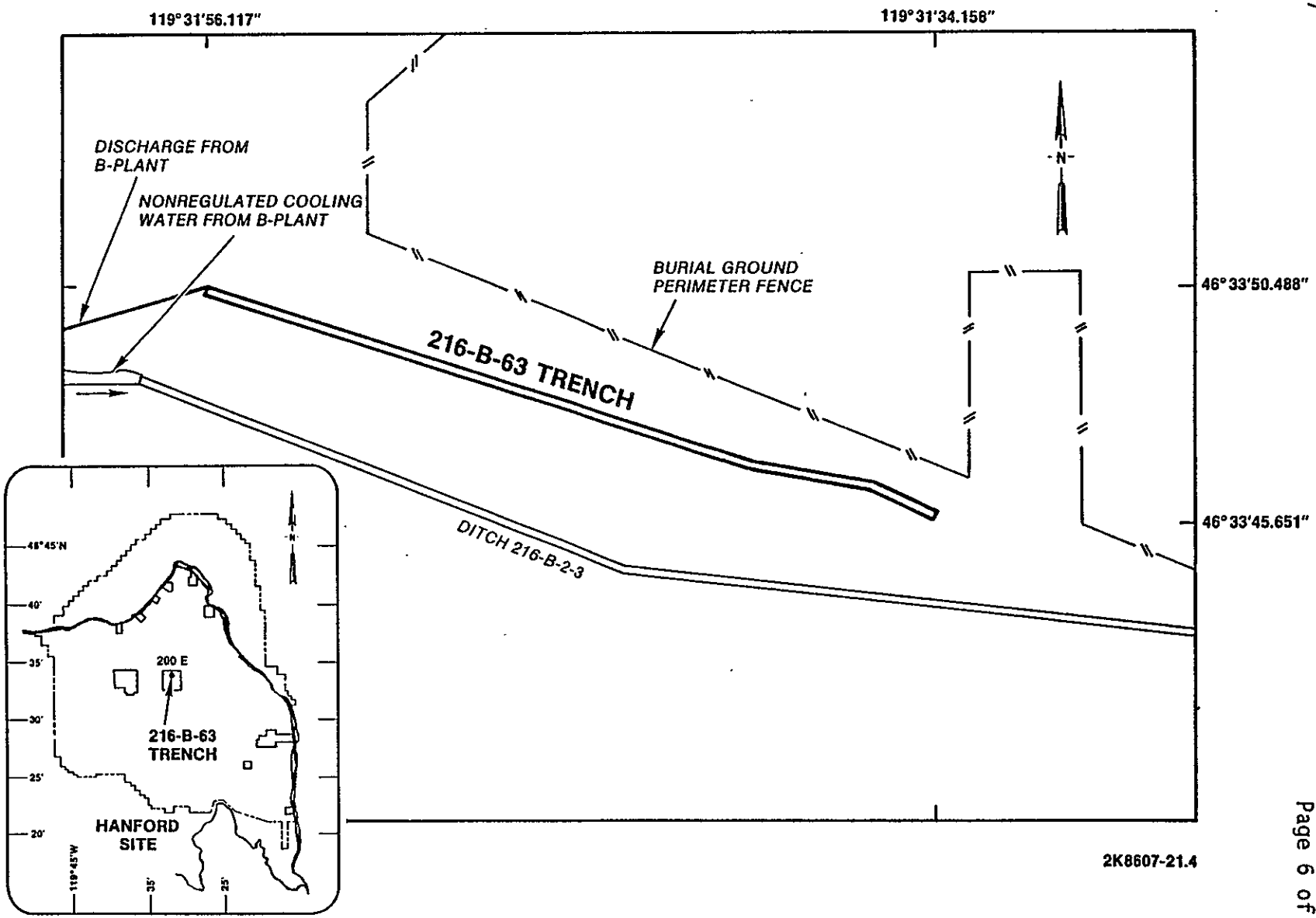
## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

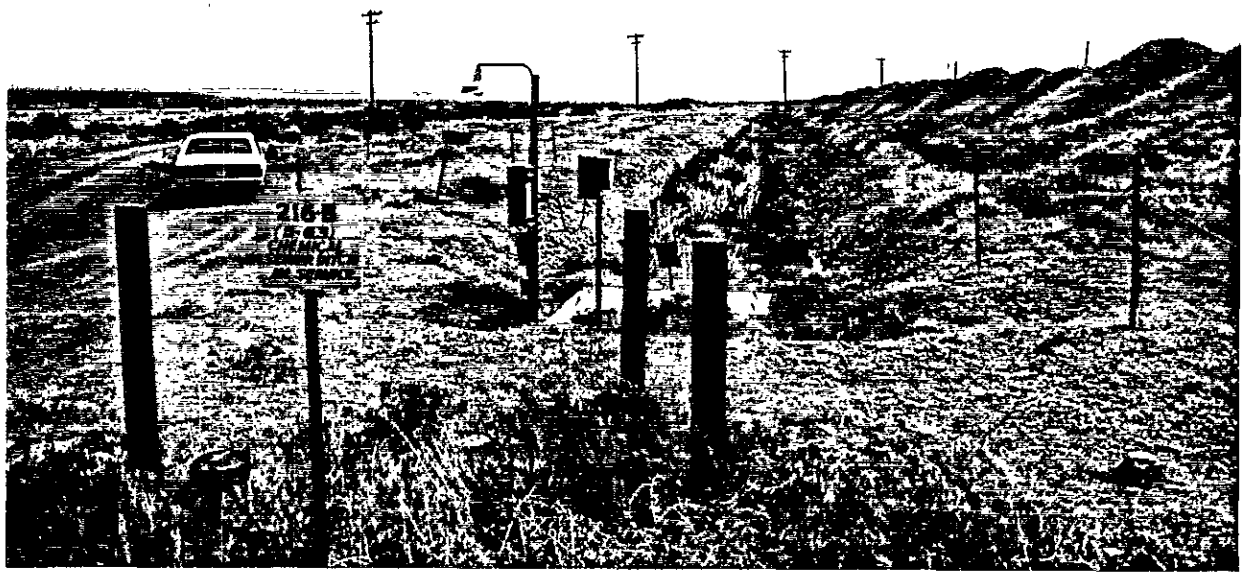
Michael J. Lawrence — 11-16-87
Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy
Date

W. M. Jacobi — 11/16/87
William M. Jacobi
President
Westinghouse Hanford Company
Date

# 216-B-63 TRENCH



# 216-B-63 TRENCH




46°33'50.488"
46°33'45.651"
119°31'56.117"
119°31'34.158"

8503045-31CN

(PHOTO TAKEN 1985)

2B8707-13.31

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6

FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate data)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| 10 | 15 | 61 |

FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the same as the last)

☐ 2. NEW FACILITY (Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| | | |

FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Two lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | S |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | | 5 | | | | |
| X-2 | T 0 3 | 20 | E | | 6 | | | | |
| 1 | D 8 1 | 72,000 | U | | 7 | | | | |
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| 3 | | | | | 9 | | | | |
| 4 | | | | | 10 | | | | |

Continued from the front

## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

D81

The 216-A-10 Crib was historically used for the disposal of the process distillate discharge (PDD) from the PUREX process. The 216-A-10 Crib received the corrosive/radioactive PDD at an average flow rate of 60 gallons per minute. The 216-A-10 Crib was a percolation unit designed for the disposal of liquid wastes via the soil column.

The PDD is currently treated to ensure that discharges are non-hazardous prior to discharge to the environment. The neutralized wastes are now discharged to the 216-A-45 Crib. The 216-A-10 Crib has not received wastes since March 1987, and will be closed under interim status.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. **DANGEROUS WASTE NUMBER** — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 NO. | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| X-1 | K054 | 900 | P | T03 D80 | |
| X-2 | D002 | 400 | P | T03 D80 | |
| X-3 | D001 | 100 | P | T03 D80 | |
| X-4 | D002 | | | T03 D80 | included with above |

Continued from page 2.

NOTE: *Photocopy this page before completing if you have more than 26 wastes to list.*

I.D. NUMBER (*enter from page 1*): WA7890008967

## IV. DESCRIPTION OF DANGEROUS WASTES (*continued*)

| LINE No. | A. DANGEROUS 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 | 138,096,000 | P | D81 | | - | | Percolation |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
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| 26 | | | | | | | | |

Continued from the front

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 216-A-10 Crib historically received the process discharge distillate (PDD) which is an acidic waste stream generated from two product concentrators in the PUREX process. The pH of this waste ranged from as low as 1.0 to 2.5 standard units. Thus, this waste was a corrosive radioactive mixed waste. Approximately 138,096,000 pounds of waste were disposed of in the 216-A-10 Crib in 1986.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| 46 32 519 | 119 31 163 |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence, Manager<br>Richland Operations Office<br>U.S. Department of Energy | Michael J. Lawrence | 2/2/88 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

9011772179

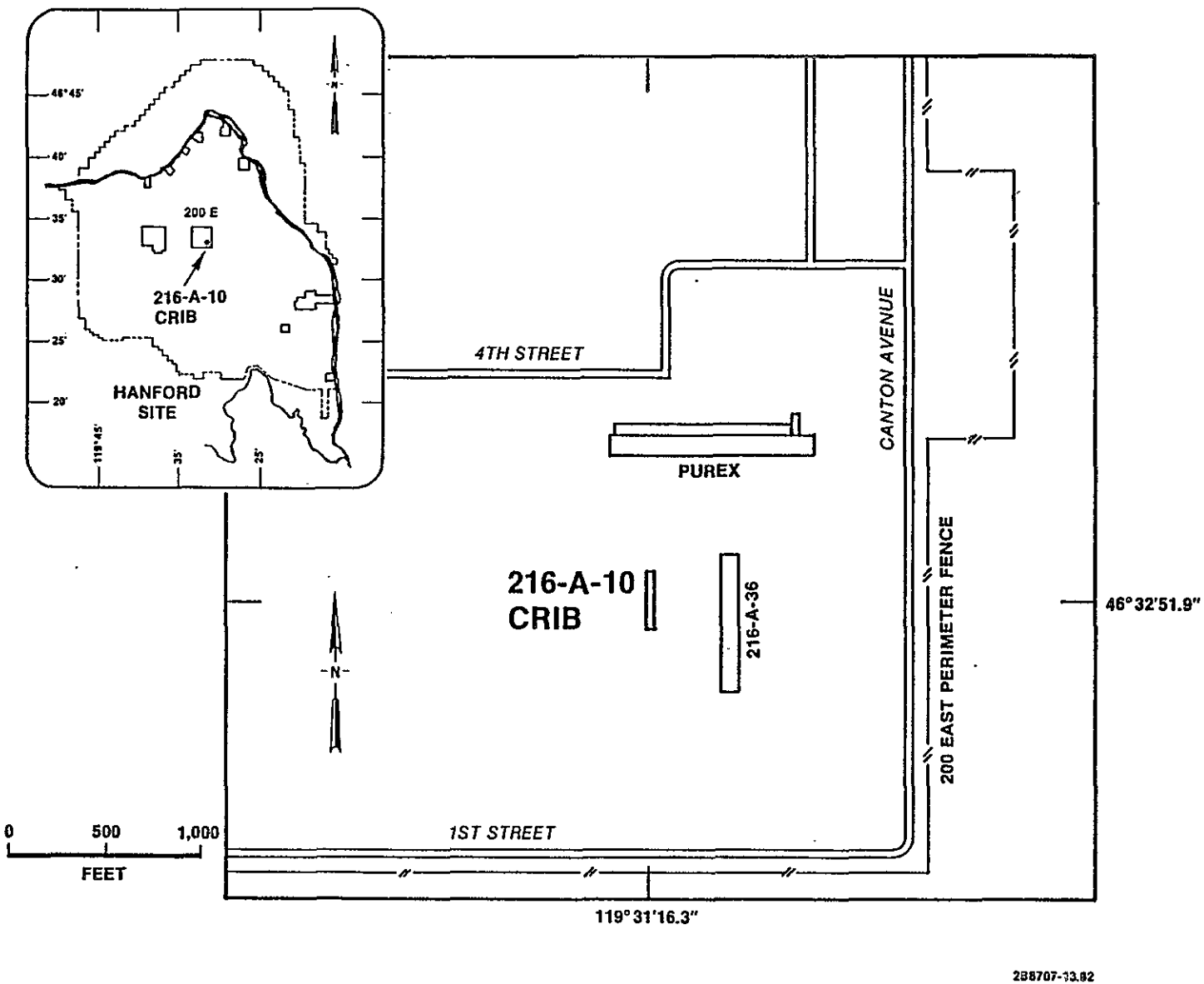
## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Michael J. Lawrence — 2/3/88
Michael J. Lawrence — Date
Manager, Richland Operations
United States Department of Energy

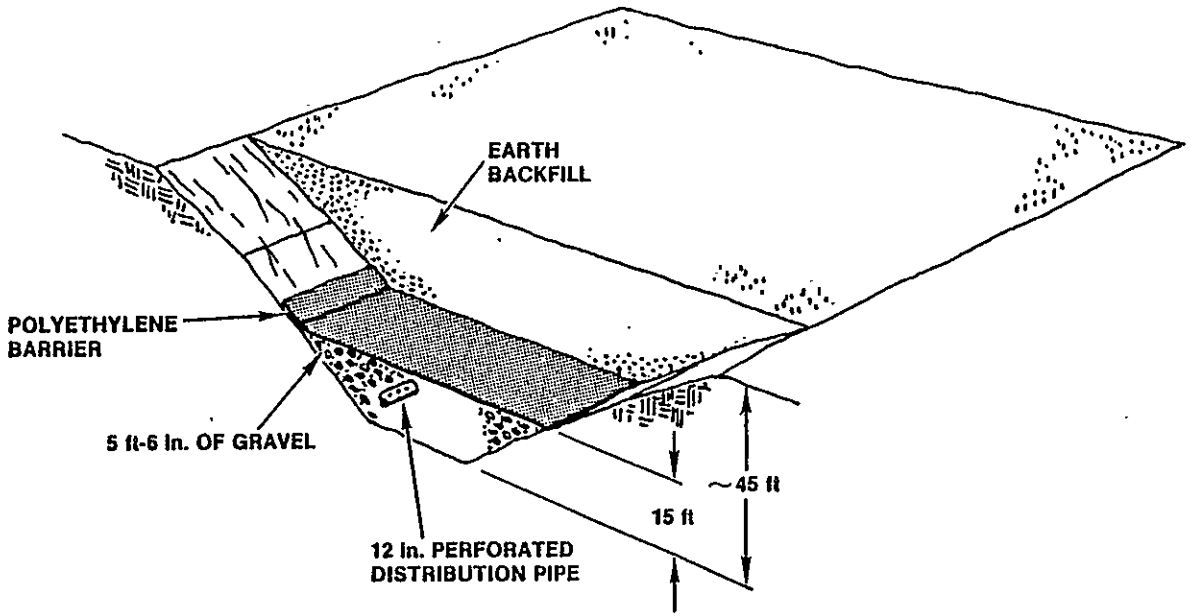
W. M. Jacobi — 2/1/88
William M. Jacobi — Date
President
Westinghouse Hanford Company

# 216-A-10 CRIB
## SITE PLAN

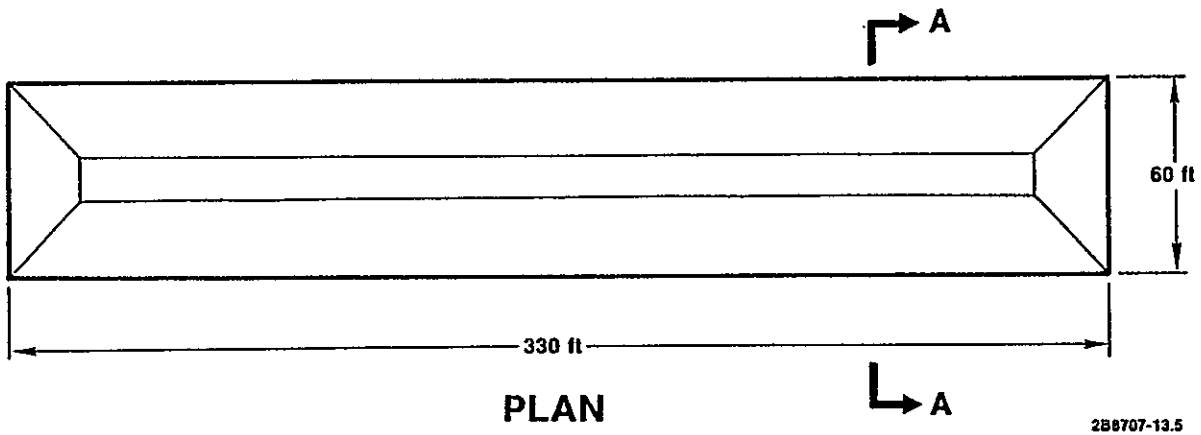


WA7890008967

# 216-A-10 CRIB

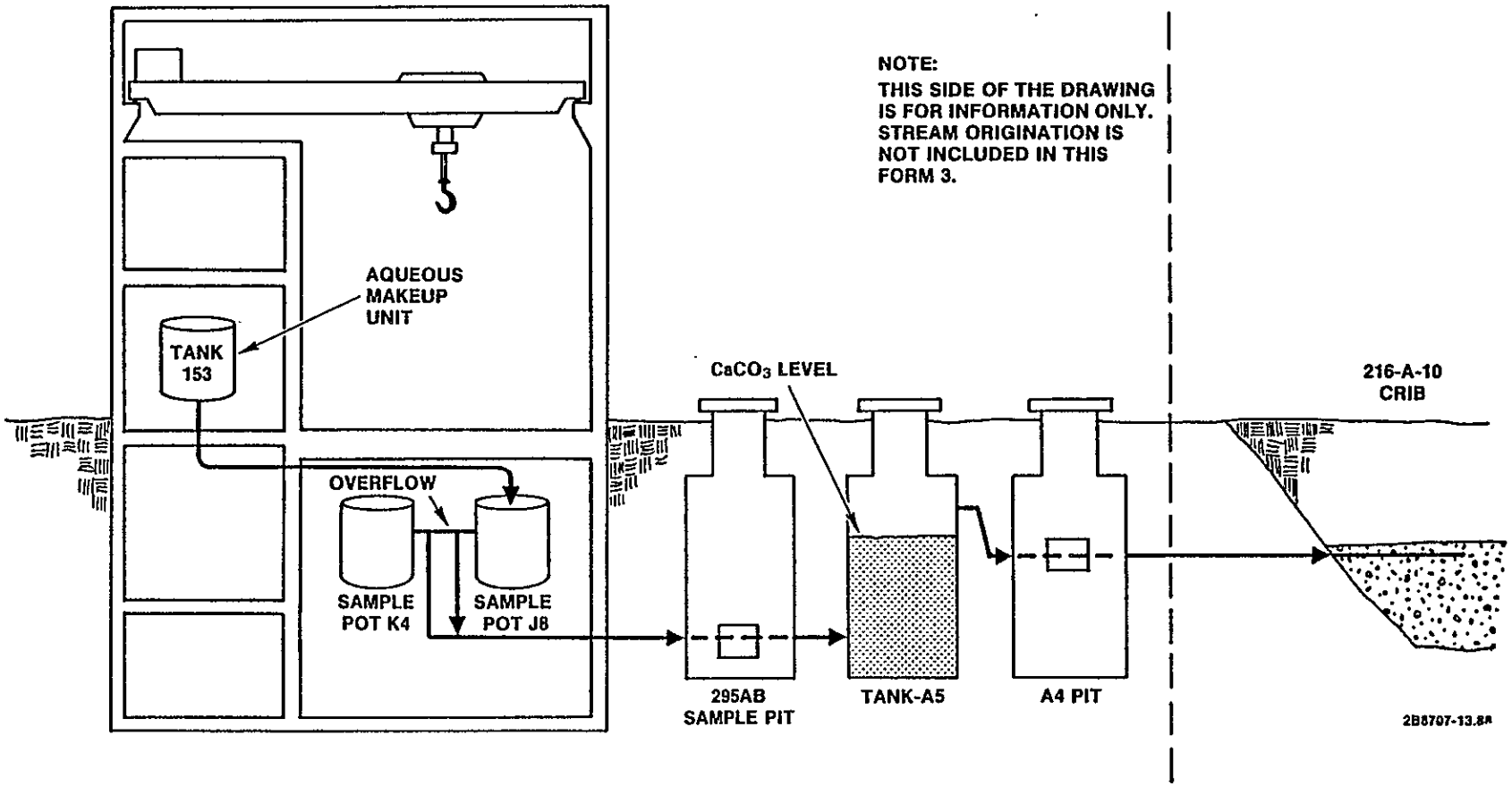



## SECTION A-A

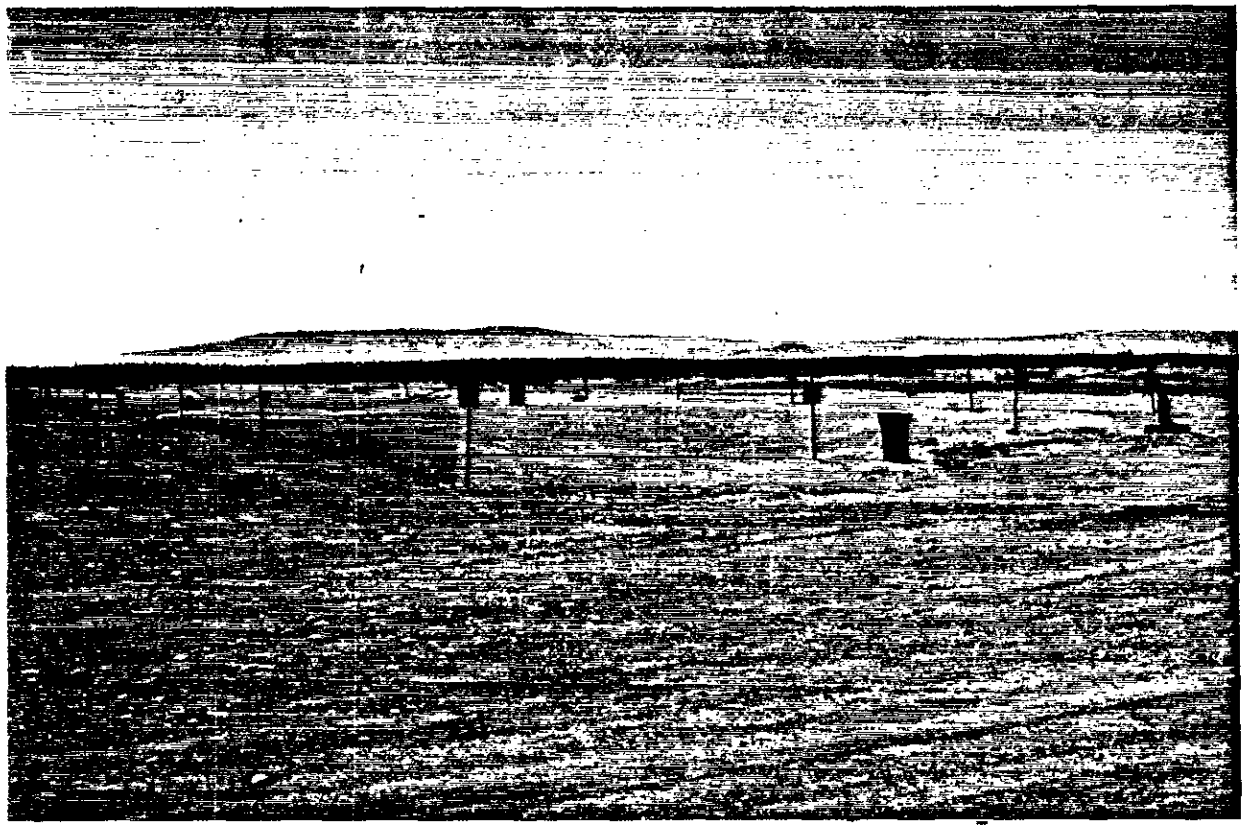



## PLAN

# PDD WASTE STREAM ORIGINATION



# 216-A-10 CRIB



46°32'51.9"
119°31'16.3"

8704474-1CN

2B8707-13.84

(Numbered spaces are reserved for data type, i.e., 12 characters maximum)

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6

FOR OFFICIAL USE ONLY

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate data)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| 0 4 | 1 | 6 0 |

FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the same as the left)

☐ 2. NEW FACILITY (Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| | | |

FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Two lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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 (capacity) | B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|
| X-1 | S 0 2 | 600 | G | |
| X-2 | T 0 3 | 20 | E | |
| 1 | D 8 1 | 50,000 | U | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

| LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (capacity) | B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |



CONTINUE ON REVI

Continued from the front

## III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

D81

The 216-U-12 Crib was historically used to dispose of $UO_3$ Plant corrosive process condensate waste. The 216-U-12 Crib is a percolation unit which was designed to receive the radioactive mixed wastes from $UO_3$ Plant for approximately five minutes every hour, 100 gallons per minute, and to dispose of those wastes by percolation into the soil solumn.

When $UO_3$ Plant is not operating, the process condensate is not a dangerous waste. The plant did not operate after September 1986, until the installation of a neutralization unit was completed January 14, 1988. At this time, discharges of radioactive mixed wastes to the 216-U-12 Crib will be discontinued, and the non-hazardous radioactive wastes will be discharged to a new crib, 216-U-17. The 216-U-12 Crib will be closed under interim status.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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 dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(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 | A. DANGEROUS 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)) |
|---|---|---|---|---|---|
| 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 | | | T 0 3 D 8 0 | included with above |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1)
WA7890008867

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS 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 | 4,454,000 | P | D80 | | | | Percolation |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
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| 25 | | | | | | | | |
| 26 | | | | | | | | |

Continued from the front.

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 216-U-12 Crib was historically used to dispose of corrosive $UO_3$ Plant process condensate waste. This waste consisted of process condensate off-gases from the production of $UO_3$ powder from Uranium Nitrate Hexahydrate (UNH) solutions. When the plant was operating, the pH of these wastes ranges from 0.5 to 1.5 standard units.

The plant is not currently operating. When the plant is not operating, the pH of the process condensate wastes ranges from 2.1 to 4.0 standard units. At current processing rates, 1,700,000 gallons per year of process condensate are disposed of in the 216-U-12 Crib.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. 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)*.

## VII. FACILITY GEOGRAPHIC LOCATION

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| 46 32 027 | 119 37 015 |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & ...)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attach... documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that ... submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false informati... including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | 2/2/88 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attach... documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that ... submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false informati... including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

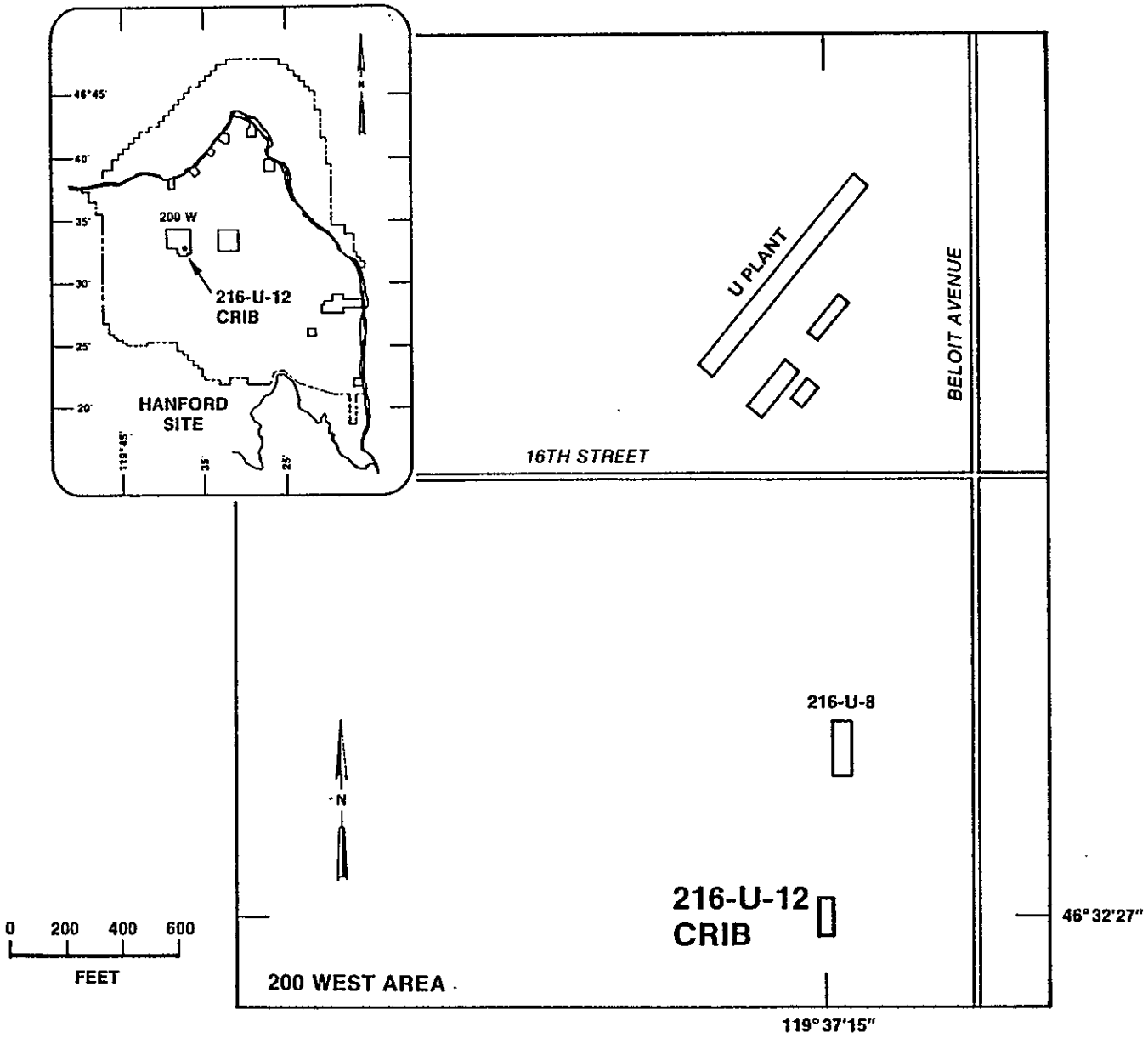
Michael J. Lawrence — Date 2/2/88

Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy

W. M. Jacobi — Date 2/1/88

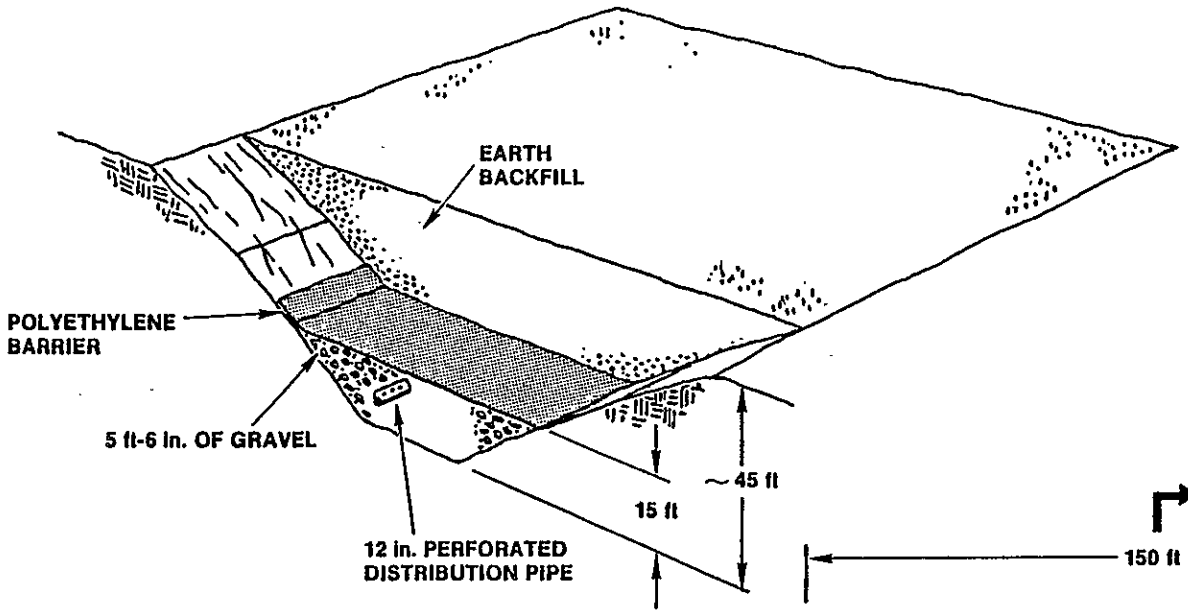
William M. Jacobi
President
Westinghouse Hanford Company

# 216-U-12 CRIB
## SITE PLAN

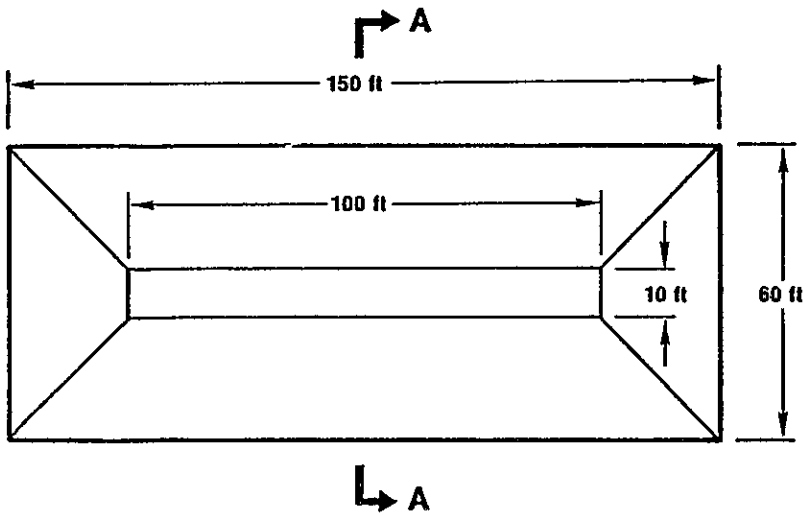



2B8707-13.81

# 216-U-12 CRIB



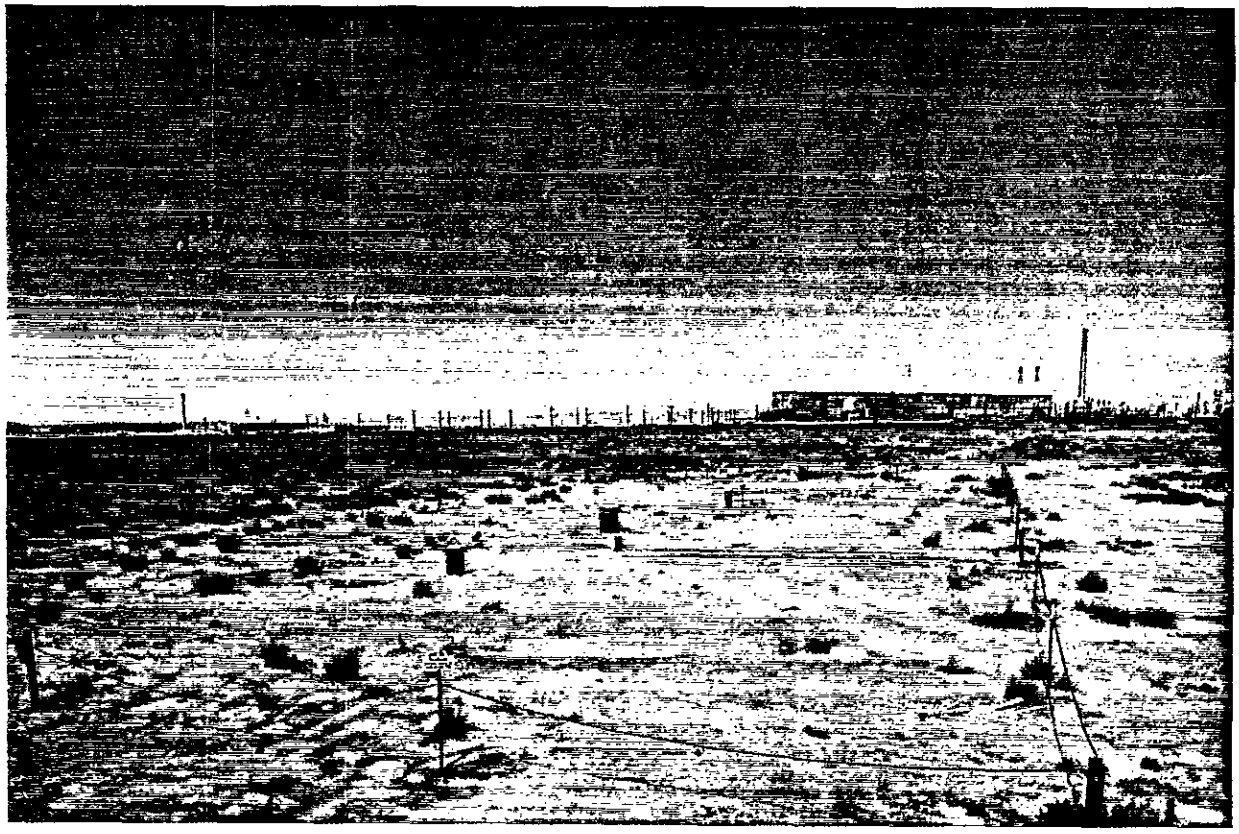

SECTION A-A




PLAN

2B8707-13.80

# 216-U-12 CRIB



46°32'27"
119°37'15"

8704509-1CN

(PHOTO TAKEN 1987)

2B8707-13.79

(Please type in the unshaded areas only (one character between each box). Shaded areas are spaced for elite type, i.e., 12 characters/inch).

FORM 3

# DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

**FOR OFFICIAL USE ONLY**

| APPLICATION APPROVED | DATE RECEIVED (mo., day, & yr.) | COMMENTS |
|---|---|---|
| | | |

## II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| 0 9 | 1 5 | 6 5 |

FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

☐ 2. NEW FACILITY (Complete item below.)

| MO. | DAY | YR. |
|---|---|---|
| | | |

FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete Section I above)

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

## III. PROCESSES — 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. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. 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 on the (Section III-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
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.

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Storage:** | | |
| CONTAINER (barrel, drum, etc.) | S01 | GALLONS OR LITERS |
| TANK | S02 | GALLONS OR LITERS |
| WASTE PILE | S03 | CUBIC YARDS OR CUBIC METERS |
| SURFACE IMPOUNDMENT | S04 | GALLONS OR LITERS |
| **Disposal:** | | |
| INJECTION WELL | D80 | GALLONS OR LITERS |
| LANDFILL | D81 | ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER |
| LAND APPLICATION | D82 | ACRES OR HECTARES |
| OCEAN DISPOSAL | D83 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | D84 | GALLONS OR LITERS |

| PROCESS | PROCESS CODE | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| **Treatment:** | | |
| TANK | T01 | GALLONS PER DAY OR LITERS PER DAY |
| SURFACE IMPOUNDMENT | T02 | GALLONS PER DAY OR LITERS PER DAY |
| INCINERATOR | T03 | TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR |
| OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.) | T04 | GALLONS PER DAY OR LITERS PER DAY |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| GALLONS | G |
| LITERS | L |
| CUBIC YARDS | Y |
| CUBIC METERS | C |
| GALLONS PER DAY | U |
| LITERS PER DAY | V |
| TONS PER HOUR | D |
| METRIC TONS PER HOUR | W |
| GALLONS PER HOUR | E |
| LITERS PER HOUR | H |
| ACRE-FEET | A |
| HECTARE-METER | F |
| ACRES | B |
| HECTARES | Q |

EXAMPLE FOR COMPLETING SECTION III (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. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY | LINE NUMBER | A. PROCESS CODE (from list above) | B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify) | B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code) | FOR OFFICIAL USE ONLY |
|---|---|---|---|---|---|---|---|---|---|
| X-1 | S02 | 600 | G | | 5 | | | | |
| X-2 | T03 | 20 | E | | 6 | | | | |
| 1 | D81 | 116,000 | U | | 7 | | | | |
| 2 | | | | | 8 | | | | |
| 3 | | | | | 9 | | | | |
| 4 | | | | | 10 | | | | |

CONTINUE ON REVERSE

Continued from the front.

## III. PROCESSES (continued)

SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

081
The 216-A-36 Crib was placed into operation September 1965. The crib was then divided into the A and B sections. The A section is the first 100 feet of the crib on the north end and is bypassed by the process pipe. The A section was closed in 1966 and has not been used since. The B section was operational from March 1966 to October 1972, and was reactivated in November 1982 for PUREX restart. Discharges to this crib were stopped in August 1987, and it will no longer receive any discharges. The radioactive mixed waste discharged to 216-A-36 came from the PUREX Ammonia Scrubber Distillate Stream. The 216-A-36B crib will be closed under interim status.

## IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous 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.

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

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, 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.

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

1. Select one of the Dangerous 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 Dangerous 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 other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (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 NO. | A. DANGEROUS WASTE NO. (enter codes) | 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 | K015 4 | 900 | P | T03 D80 | |
| X-2 | D002 | 400 | P | T03 D80 | |
| X-3 | D001 | 100 | P | T03 D80 | |
| X-4 | D002 | | | T03 D80 | included with above |

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

| LINE | A. DANGEROUS 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 | WT02 | 265,000,000 | P | D81 | Percolation |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
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Continued from the front.

## IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The waste stream is called the ammonia scrubber distillate or ASD which is a basic byproduct waste stream generated by the ammonia scrubbers during decladding operations in the PUREX process. The waste stream comes from the coating dissolution stage where ammonium fluoride and ammonium nitrate are used to dissolve the zirconium alloy cladding from fuel elements. Ammonia gas is produced as a byproduct during this reaction. The gas stream from the dissolver is scrubbed with water which absorbs and reacts with most of the ammonia to form liquid ammonium hydroxide. This stream is sent to the 216-A-36B Crib for disposal. This waste was determined to be a toxic dangerous waste (WT02) under the state of Washington's waste mixture rule because of the concentrations of ammonium hydroxide in excess of 1% by weight.

## V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

## VI. PHOTOGRAPHS

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

## VII. FACILITY GEOGRAPHIC LOCATION

| LATITUDE *(degrees, minutes, & seconds)* | LONGITUDE *(degrees, minutes, & seconds)* |
|---|---|
| 46 32 470 | 119 31 150 |

## VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

| 1. NAME OF FACILITY'S LEGAL OWNER | 2. PHONE NO. *(area code & no.)* |
|---|---|
| | |

| 3. STREET OR P.O. BOX | 4. CITY OR TOWN | 5. ST. | 6. ZIP CODE |
|---|---|---|---|
| | | | |

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| Michael J. Lawrence<br>Manager, Richland Operations<br>United States Department of Energy | Michael J. Lawrence | 2/2/88 |

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.*

| NAME *(print or type)* | SIGNATURE | DATE SIGNED |
|---|---|---|
| SEE ATTACHMENT | | |

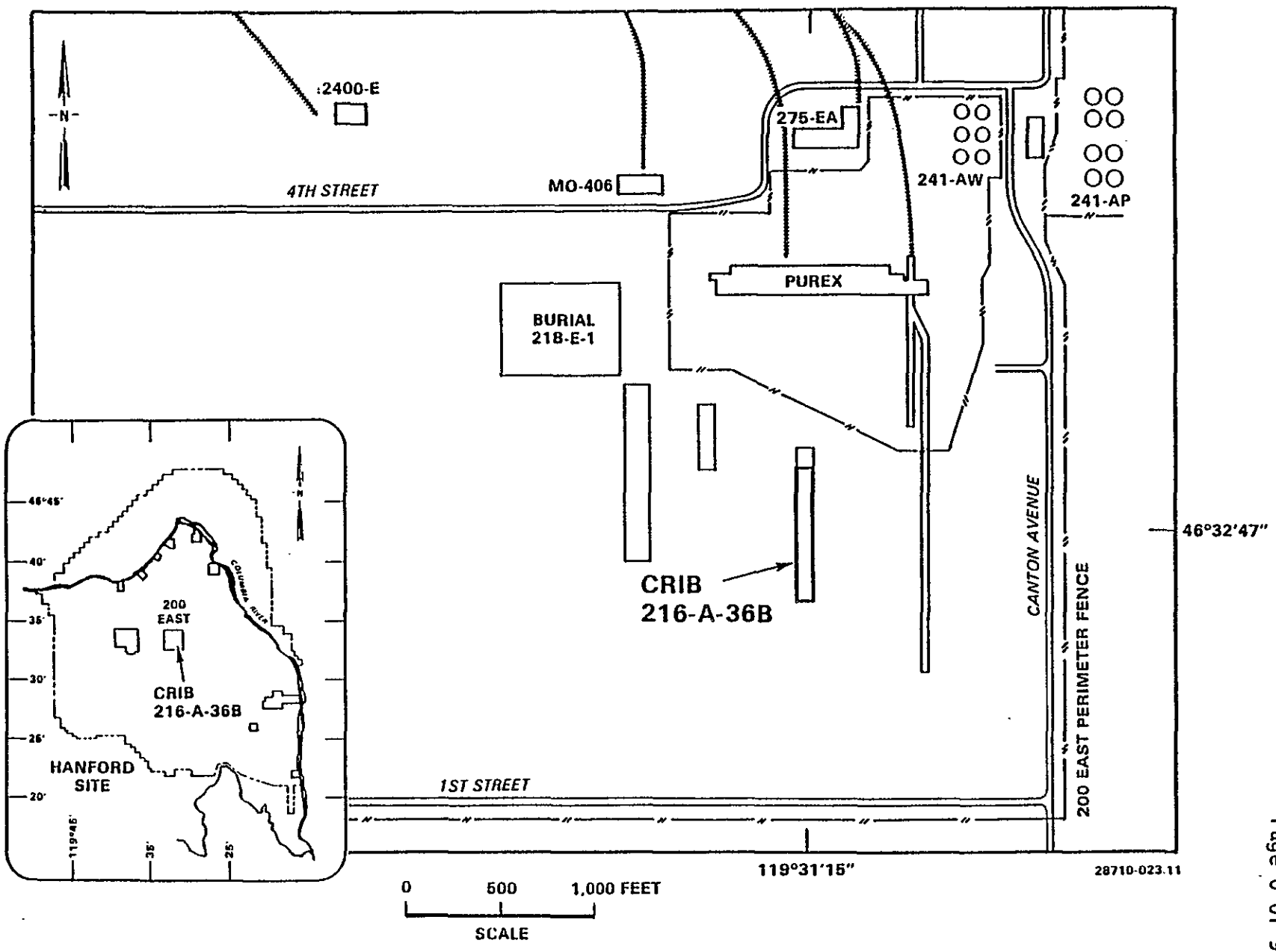
## X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Michael J. Lawrence — 2/2/88
Michael J. Lawrence — Date
Manager, Richland Operations
United States Department of Energy

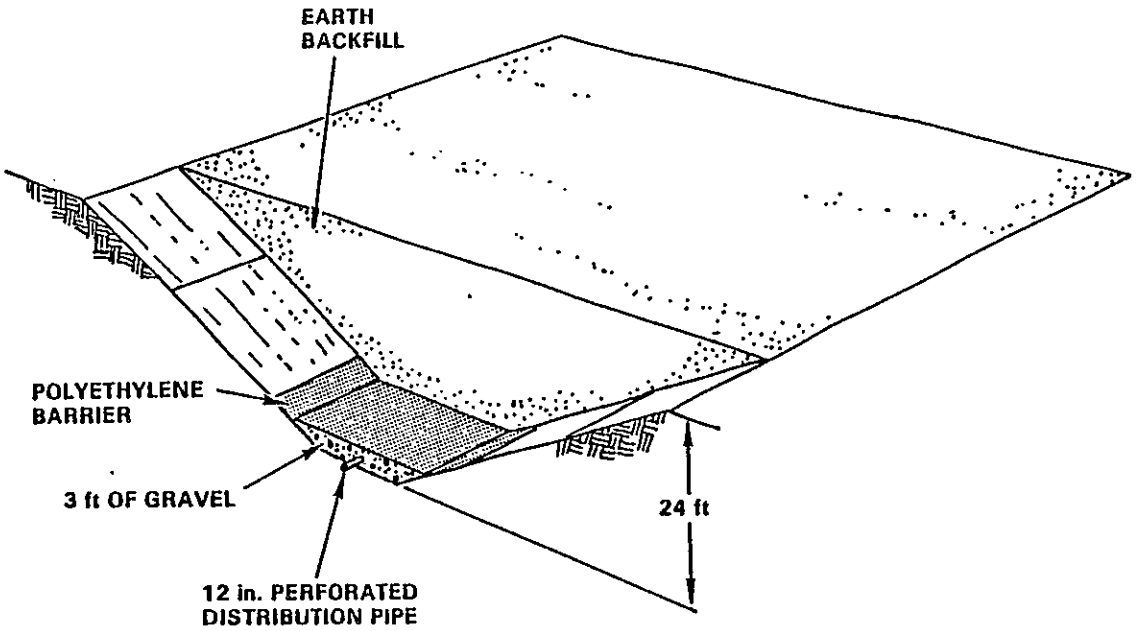
W. M. Jacobi — 2/1/88
William M. Jacobi — Date
President
Westinghouse Hanford Company

# CRIB 216-A-36B
## SITE PLAN

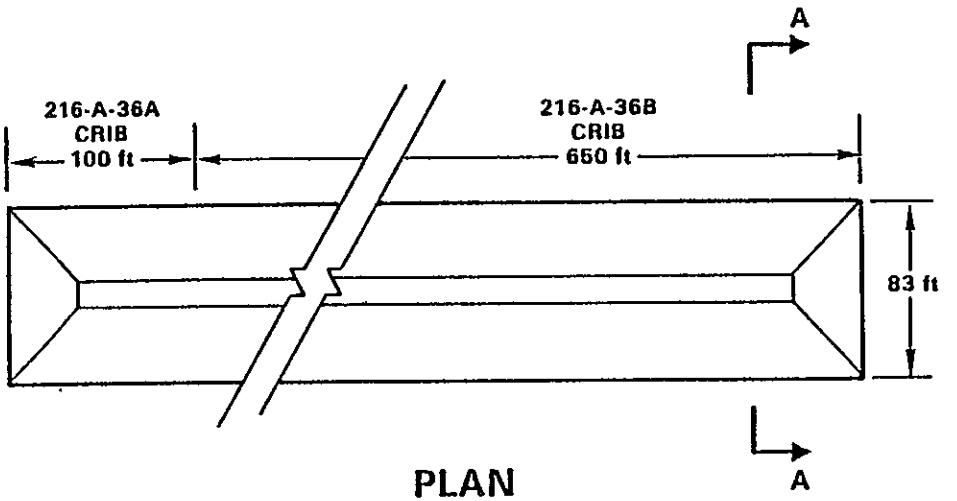



WA7890008967

# 216-A-36 A AND B CRIBS



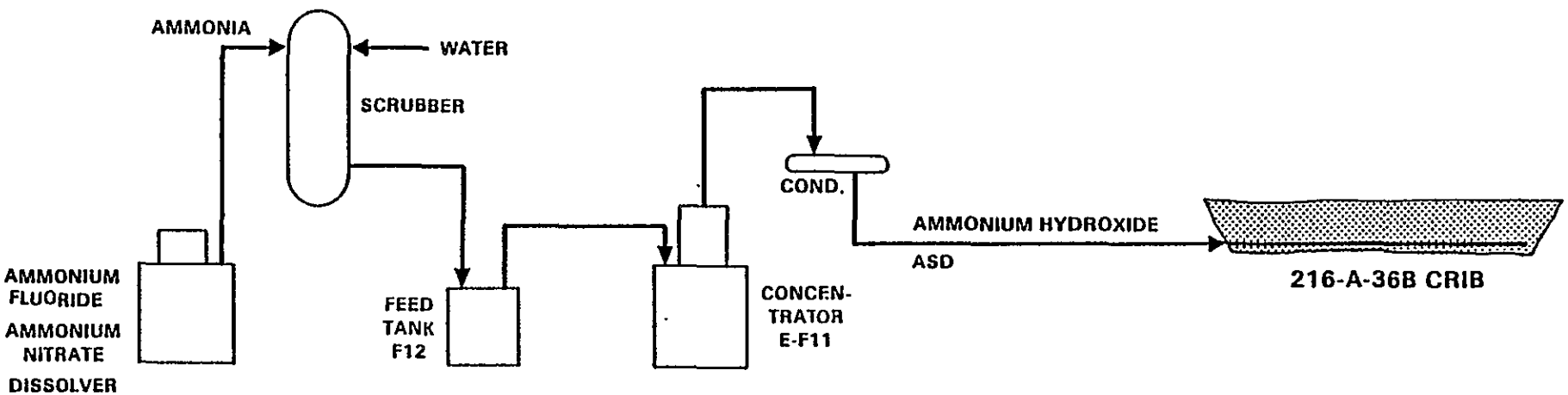

SECTION A-A




PLAN

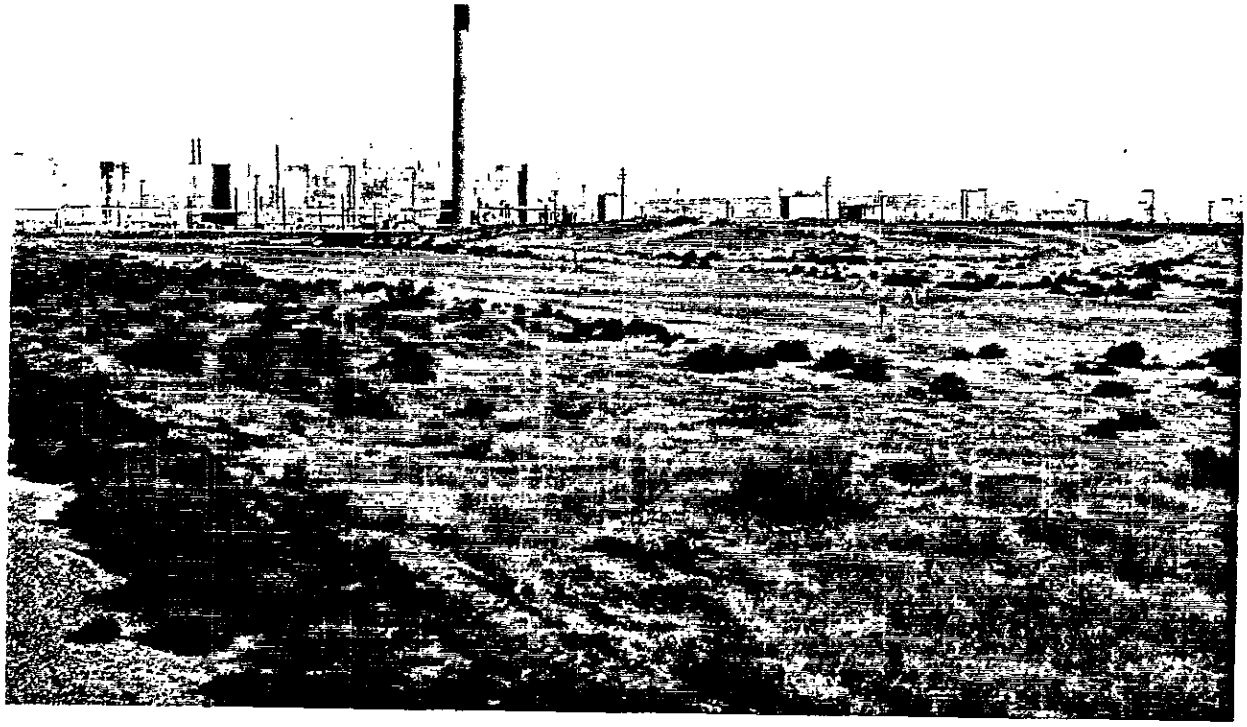
28710-023.12

# 216-A-36B CRIB WASTE STREAM FLOW DIAGRAM




28710-023.24

# 216-A-36 CRIB



46°32'47"
119°31'15"

8706243-2CN

(PHOTO TAKEN 1987)

28710-023.27