



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

S02

Tank 241-CX-70 (CX-70) was used for approximately one year in the early 1950's to store high-level process waste from the REDOX pilot plant studies. REDOX was the acronym used for the reduction/oxidation chemical process separating plutonium and uranium from irradiated reactor fuels. Tank waste removal activities for CX-70 were initiated in the summer of 1987 with the construction of a sluicing/pumping system. The sluicing/pumping system involved using large volumes of water to sluice/pump the solid waste from the CX-70 tank to a double-shell tank in the 200 East Area Tank Farms. Approximately 140,000 gallons of water were used to sluice the original waste volume of 10,300 gallons down to the present 750 gallons contained in the tank. The design capacity of the CX-70 tank is 30,000 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 300 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)				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 20 wastes to list.

10. 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	2	3	4			1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	D	0	0	2	19,000	P	S	0	2			Storage
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												

90118341369

(enter "A", "B", "C" etc. behind the "3" in dashy photo-coded pages)

Continued from the front

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

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

Tank 241-CX-70 (CX-70) contains 750 gallons of waste with a pH of 13.1. Approximately two-thirds of the tank's content is liquid and one-third is solid. The remaining 750 gallons have been sampled and analyzed with results showing the only regulated waste to be corrosive. Based on WAC 173-303-090 (6)(a)(i), given an aqueous sample with a pH greater than or equal to 12.5, due to the sodium hydroxide content, the CX-70 tank has been assigned the dangerous waste number D002 for corrosive waste.

**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 drawings and photos

LATITUDE (degrees, minutes, & seconds)

LONGITUDE (degrees, minutes, & seconds)

**VIII. FACILITY OWNER**

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

SIGNATURE  
*Michael J. Lawrence*

DATE SIGNED  
7-10-90

**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)

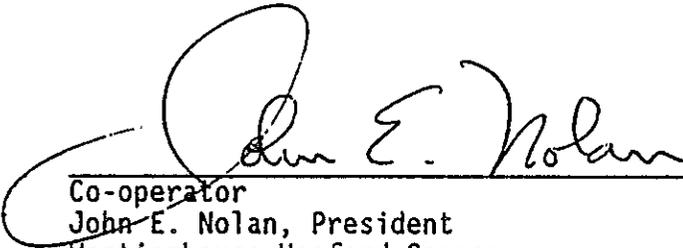
SIGNATURE

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.

  
\_\_\_\_\_  
Co-operator  
John E. Nolan, President  
Westinghouse Hanford Company

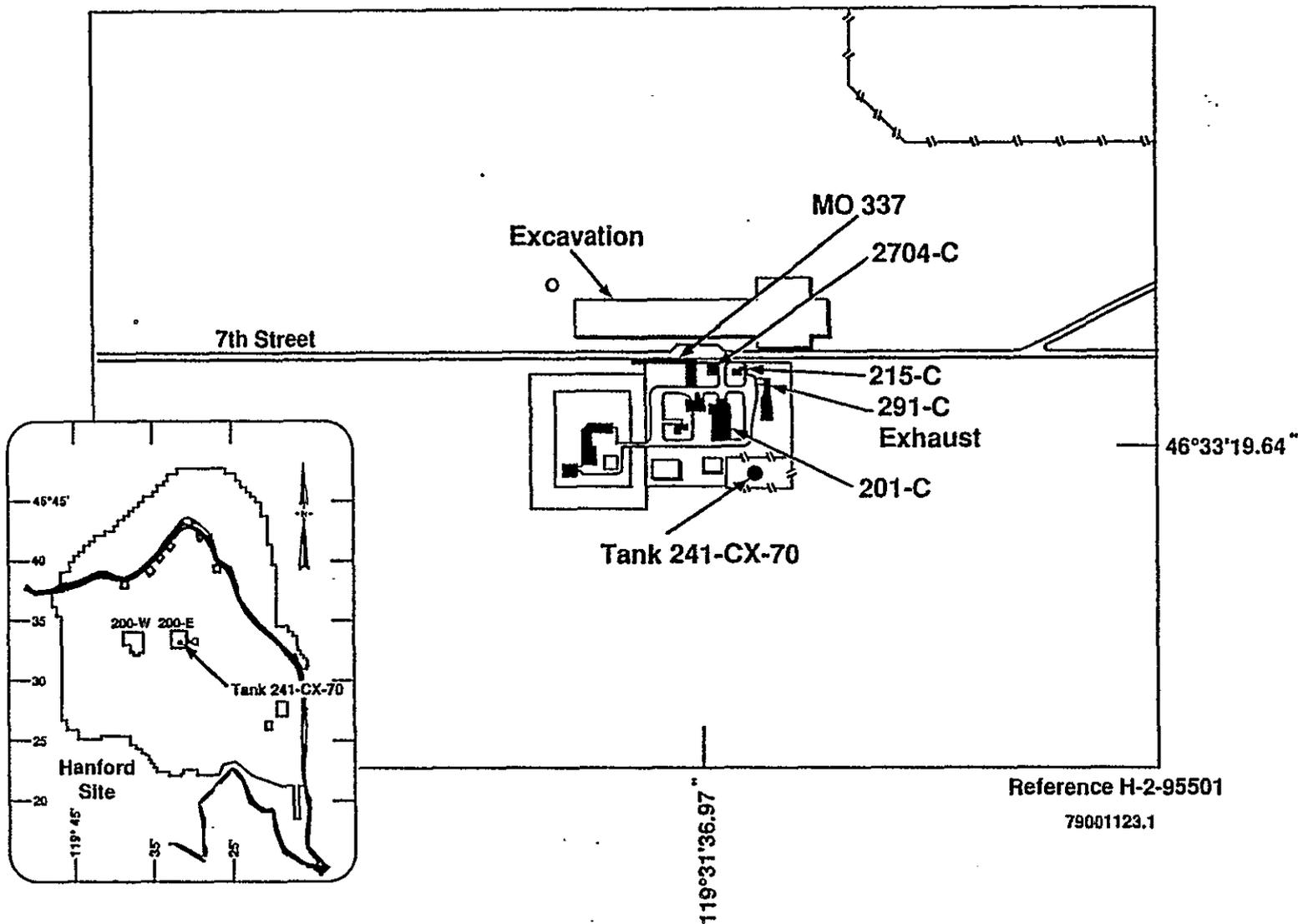
3/12/90  
Date

  
\_\_\_\_\_  
Owner/Operator  
Michael J. Lawrence, Manager  
U.S. Department of Energy  
Richland Operations Office

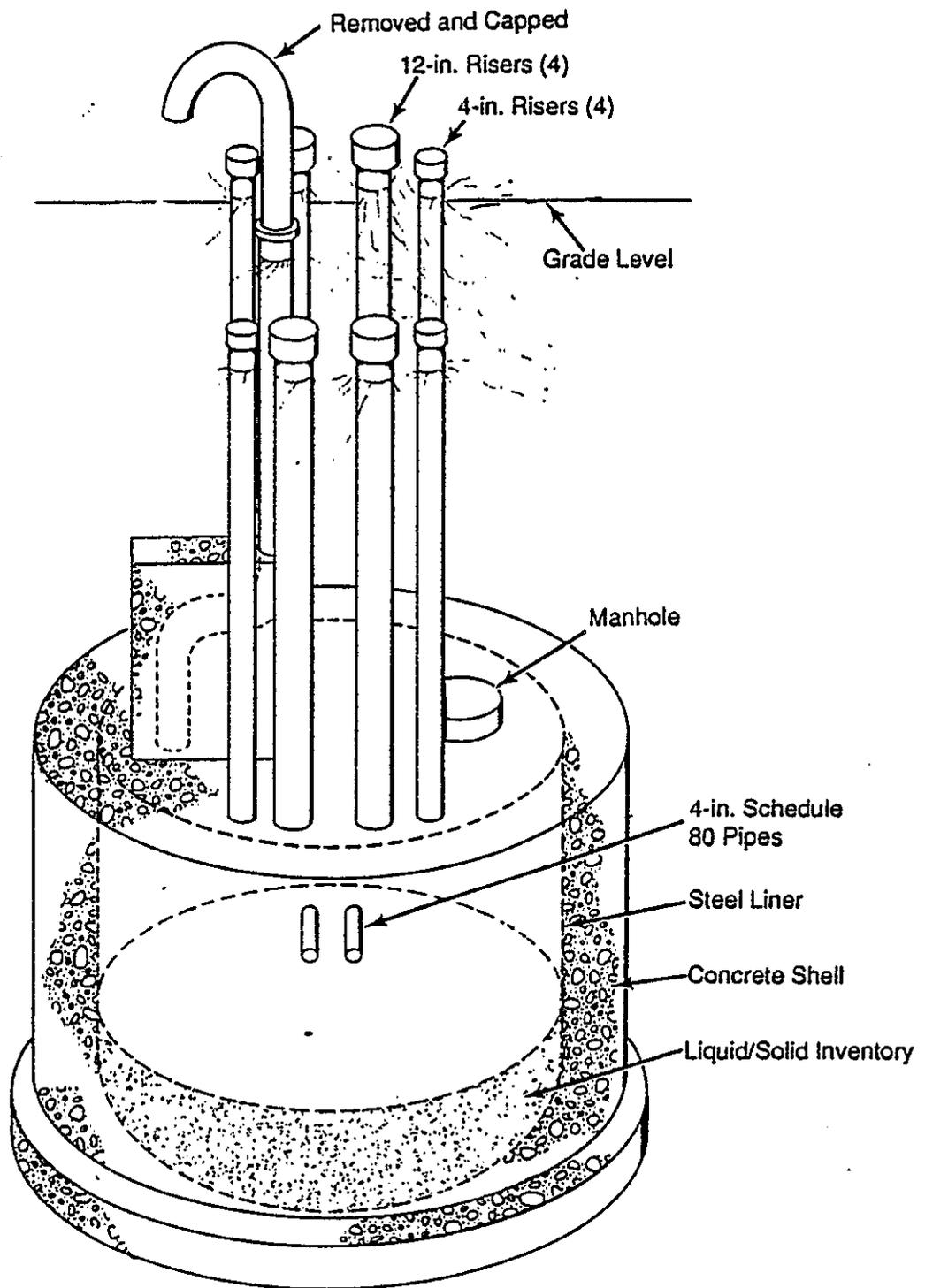
7/10/90  
Date

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# 241-CX-70 Underground Storage Tank Site Plan



90118341373

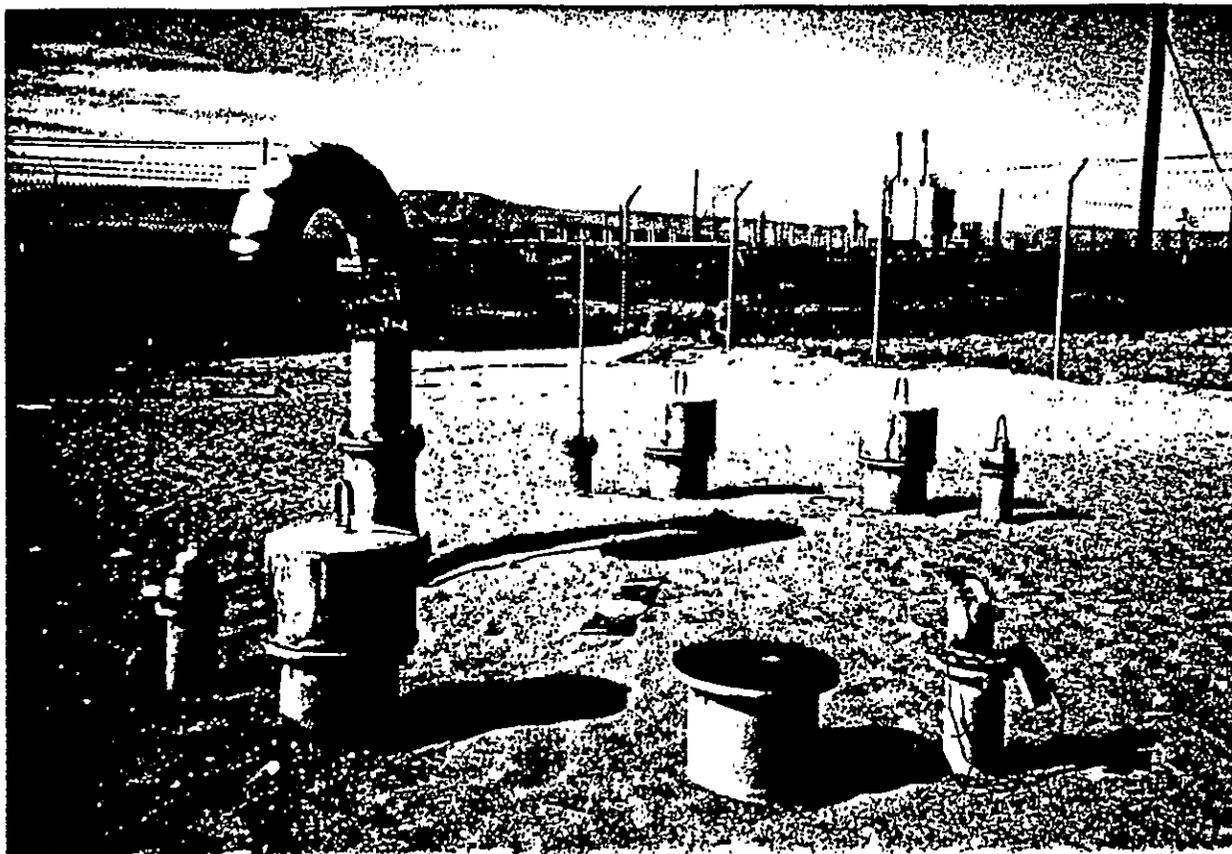


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**Tank 241-CX-70**

WA7890008967

# TANK 241-CX-70



46°33'20"  
119°31'37"

127164-27CN  
(PHOTO TAKEN 1986)

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