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WHC-CM-3-4

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	(Check only one suffix)		List attachments.

Title	Unclassified Category	Impact Level
CONTINGENCY PLAN: 241-C-106 TANK LEAK	UC-	

New or novel (patentable) subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).	Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)
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Date(s) of Conference or Meeting	City/State	Will proceedings be published?	<input type="checkbox"/> Yes <input type="checkbox"/> No
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Patent-General Counsel	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
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Applied Technology/Export Controlled Information or International Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
WHC Program/Project	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GT. BERLIN	<i>[Signature]</i>	6/18/92
Communications	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
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Purpose

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- Full Paper
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TRAC-06L3

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Applied Technology/Export Controlled Information or International Program

WHC Program/Project

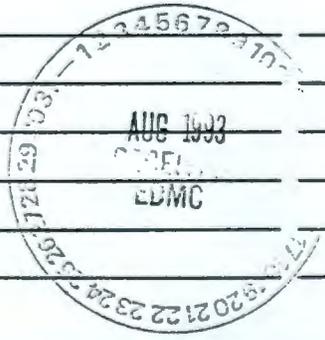
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- All reviews are complete and this publication or presentation is approved for release (after resolution of mandatory comments).

ORIGINAL

Rockwell Hanford Operations

SUPPORTING DOCUMENT		Number	Rev. Ltr./ Chg. No.	Page 1 of																											
PROGRAM: Waste Management		SD-WM-PD-013	Rev 0	Total Page 8																											
Document Title: Contingency Plan: 241-C-106 Tank Leak		Baseline Document <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																													
Key Words: Contingency Plan, 106C, Leak, Single-Shell Tank, High-Heat Tank		WBS No. or Work Package No. WC43A		Date 10/15/84																											
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Abstract This document describes immediate and long-term actions which would be necessary if Tank 241-C-106 were to leak. This tank is of special concern due to the necessity to maintain a liquid cover for evaporative cooling of the high-heat waste contents.		<table border="1"> <thead> <tr> <th>Distribution</th> <th>Name</th> <th>Mail Address</th> </tr> </thead> <tbody> <tr><td>*</td><td>F.E. Boyd</td><td>2750E/200E</td></tr> <tr><td>*</td><td>G.T. Dukelow</td><td>2750E/200E</td></tr> <tr><td>*</td><td>E.L. Richards</td><td>2101M/200E</td></tr> <tr><td>*</td><td>R.B. Gelman</td><td>272AW/200E</td></tr> <tr><td>*</td><td>L.H. Rodgers</td><td>2750E/200E</td></tr> <tr><td>*</td><td>R.A. VanMeter</td><td>2750E/200E</td></tr> <tr><td>*</td><td>B.F. Weaver</td><td>2750E/200E</td></tr> <tr><td>*</td><td>R.A. Zinsli</td><td>2750E/200E</td></tr> </tbody> </table>			Distribution	Name	Mail Address	*	F.E. Boyd	2750E/200E	*	G.T. Dukelow	2750E/200E	*	E.L. Richards	2101M/200E	*	R.B. Gelman	272AW/200E	*	L.H. Rodgers	2750E/200E	*	R.A. VanMeter	2750E/200E	*	B.F. Weaver	2750E/200E	*	R.A. Zinsli	2750E/200E
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CONTINGENCY PLAN241-C-106 TANK LEAKPURPOSE

The purpose of this document is to describe immediate and long-term actions necessary should tank 241-C-106 (106C) leak. This is a plan only; specific procedures would be developed if needed. A leak in 106C is of major concern due to the high heat load in the tank. A liquid cover and forced ventilation are maintained to provide evaporative cooling, and would be required to continue should a leak occur, because studies indicate that ventilation only would not provide sufficient cooling.¹ It would be possible that a leak would occur below the minimum liquid level now maintained. Water additions would then add to the leaking material.

BACKGROUND

Tank 106C was constructed in 1943-1944, placed into active service in 1947, and remained in active use until 1979. The tank was first used to store metal waste from the Bismuth Phosphate Process. All the metal waste was removed from the tank during 1953-1954 by sluicing to recover Uranium. After removing the Uranium, Tributyl Phosphate (TBP) waste was stored in the tank. Most of this waste was removed in 1956 to make room for PUREX Coating Waste. The tank remained full until 1963 when some of the material was pumped out to make room for PUREX Neutralized High Level Waste. At that point, 106C contained 62,000 gallons of sludge. From 1969 to 1971 Tank 106C was used in conjunction with 244-AR Vault for PUREX sludge processing. The wash solution from AR Vault was decanted to Tank 106C. The supernatant liquid from 106C was pumped to 105C. After a sludge temperature of 212°F was observed in Tank 106C during 1971, the tank was placed on a vessel ventilation system and its function as receiver for wash solution was immediately terminated. B-Plant cesium recovery waste was directed to the tank from 1974 to 1978.

Tank 106C is a 530,000 gallon capacity single-shell tank. It is 75 feet in diameter, with 16 feet of usable depth, and has a dish bottom. The tank contains a total of approximately 220,000 gallons of waste: 197,000 gallons is sludge and the remainder is supernate. The supernate level fluctuates as liquid is evaporated through ventilation and makeup water added. With an estimated heat load of 183,000 BTU/hr (Reference 1), an average of about 2,200 gallons of water per week must be added to maintain the liquid level in an operating band of 7.5 to 12.0 inches above the solids level. (Water additions of about 11,000 gallons are actually made about every fifth week, rather than weekly additions.) Based on a 12.5% assumed sludge porosity, an estimated 16,000 gallons of drainable interstitial liquid is present in the tank.

Campbell has indicated that the tank base temperature could exceed 510°F and dome temperatures 335°F if the tank waste is allowed to dry out while forced ventilation is continued.¹ Temperatures would peak at much higher levels if ventilation was stopped. The tank structure could be degraded if these high temperatures developed, possibly leading to dome collapse. The portable 7,000 CFM Exhauster (296-P-16) currently installed would not be adequate to maintain waste temperatures within operating specification limits², if the makeup water additions were halted.

LEAK DETECTION

Routine surveillance is maintained for leak detection purposes by several methods. The 106C liquid level is monitored and trends are analyzed for comparison with periodic psychrometric readings, which provide an estimate of water vapor loss to the atmosphere. If the liquid loss values are not comparable, the tank would be subject to a leak investigation. Dry wells around 106C are also monitored, and any increase in observed radiation level would require an investigation according to surveillance criteria.³ Routine photographs are periodically taken of the tank interior to visually check changes in waste appearance and the liquid level detector (a computer-automated tape reel). Photographs would also be taken during a leak investigation.

IMMEDIATE ACTIONS

The following actions will be taken in the event that Tank 106C is determined to leak. Actions should be completed within one month, and could be started during the leak investigation.

- o Increase Surveillance - Surveillance frequencies will be increased for all parameters manually monitored for Tank 106C. Tank Farm and Evaporator Process Engineering (TF&EPE) will analyze the data and modify tank operations as necessary.
- o Remove Supernatant Liquid - The liquid cover will be removed from Tank 106C by either pumping or evaporation, as determined by Process Engineering during the leak investigation. At this time (1984), evaporation would require approximately two months if the starting level was at the high operating level, and proportionately less time for lower starting levels. Removal by evaporation is advantageous in that no additional equipment is required, and no personnel exposure beyond routine operation would result. If the determination is made that evaporation will take too long, arrangements should be made to pump the supernate to a double-shell tank via tank truck. Dilution would probably be necessary to reduce radiation levels to acceptable values for truck transport.
- o Maximize Ventilation - As 105C and 106C share a common ventilation system, efforts to dry 106C could be impeded. The system valve from Tank 105C will be closed and tagged, and a separate exhaustor will be connected to 105C. The process condensate drain from the vent system (which drains to 106C) will then return only 106C liquid to 106C, and data indicate that the condensate amount will reduce as the waste dries.
- o Photograph Tank Interior - When the liquid has been removed, the tank interior will be photographed. Comparison of these photos with previous photos may help identify the leak location. If the leak location can be identified and it is well above the sludge, a new liquid level high operating limit may be set below the leak line. The liquid cover may then be reestablished to maintain cooling. Normal operations would be resumed.

If no leak location can be pinpointed, further contingency actions would be required (see next bullet).

- o Install Surface Sprinkler - A sprinkler will be installed to keep the waste surface moist (see Figure 1). The system will be fabricated from standard, locally available equipment to provide a spray capable of wetting 2/3 to 3/4 of the tank diameter. It is not desirable to spray the tank walls. The system will be operated on a timer. Tank Farm and Evaporator Process Engineering will provide the design and initial timing, and will modify the timing as operating experience is gained.

LONG-TERM ACTIONS

After all necessary immediate actions have been performed, more action will be required to assess trends in the tank temperatures. The following actions will be taken after the tank systems are operating normally.

- o Monitor Soil Temperatures - A significant leak from Tank 106C would be expected to raise soil temperatures in the effluent plume. Soil temperatures will be monitored in the area of expected migration along with dry well radiation scanning.
- o Install Thermocouples - Three to four additional thermocouples will be installed in Tank 106C in locations determined by Process Engineering. The data will aid in determining where the bulk of the high-heat material is in the tank.
- o Explore Disposal Options - Process Engineering will investigate options for a permanent solution to the problem of 106C. Those options will include disposal scenarios as well as continued storage.

DISPOSITION

One option will be chosen by Process Engineering and recommended as the preferred permanent solution. Action will be taken by the necessary organizations to implement the solution.

REFERENCES

1. RHO-CD-697, May 1980, G.D. Campbell, "Tank 241-C-106 Thermal Assessment and Heat Transfer Analysis", Rockwell Hanford Operations, Richland, Washington.
2. RHO-OSD-T-151-00013, May 1984, D.R. Autery, "Operating Specifications for the 200 East and 200 West Area Single-Shell Waste Storage Tanks", Rockwell Hanford Operations, Richland, Washington.
3. RHO-CD-213, August 1976 (updated quarterly), S. Stalos and C.M. Walker, "Waste Storage Tank Status and Leak Detection Criteria", Rockwell Hanford Operations, Richland, Washington.

SPRINKLER SYSTEM

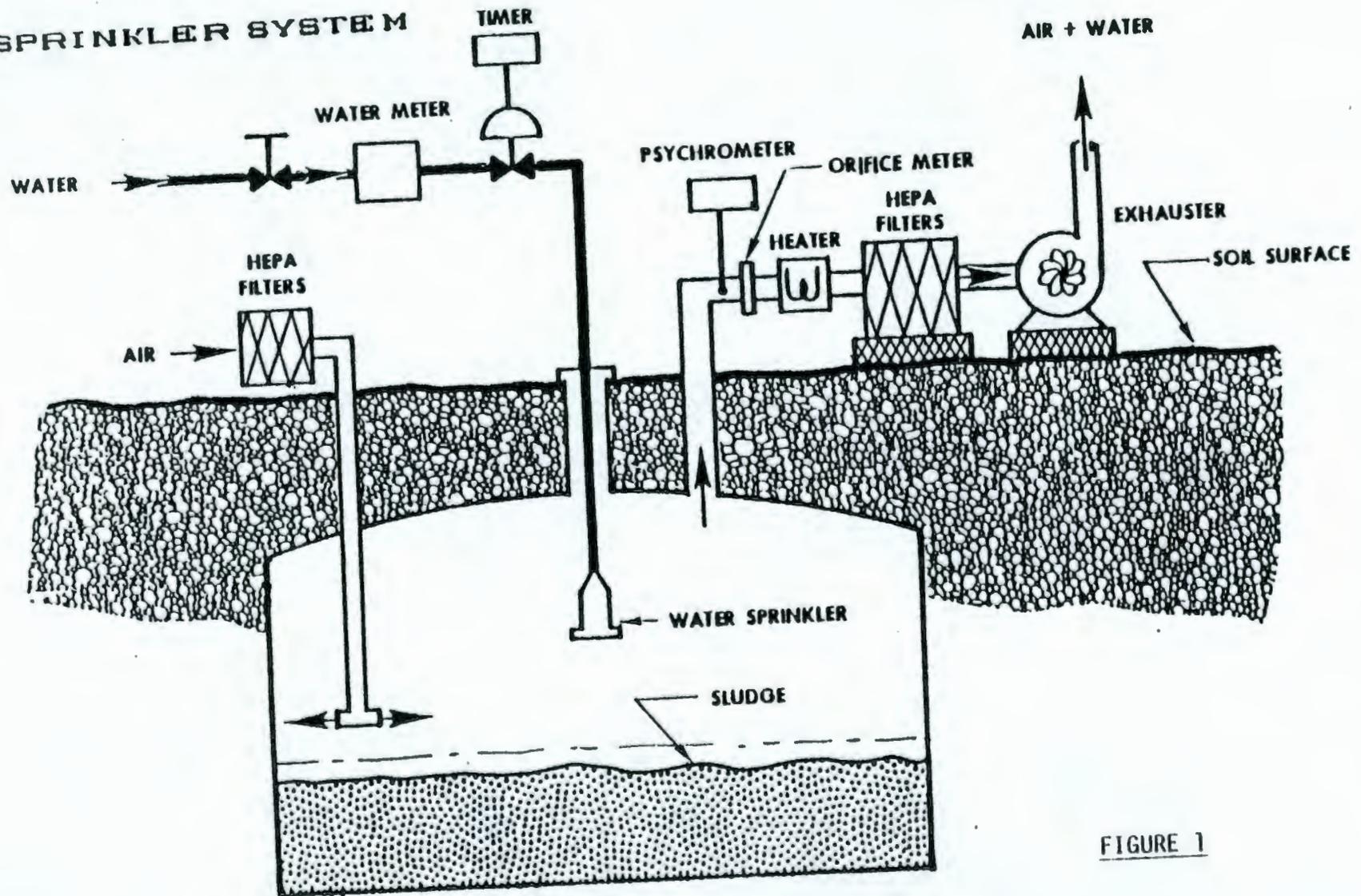


FIGURE 1

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Lead Author	Phone	MSIN	Other Author(s) or Requestor
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Editor	Phone	MSIN	DOE/HQ Program (DP, EH, EM, NE, etc.)

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Legends/Notices/Markings (required per WHC-CM-3-4 or guidance organization.) (Reviewer initials)

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Additional Information Misc information requested by WDOE

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TRAC-0613

1. WHC-SD-WM-PD-013 Rev 0
Pg 3₂ - 8 mly

2. Investigation of apparent intrusion
in tank 241-C-106

3. Data package on SX tank farm
Requested by ecology on 6-4-92
Tom Webb.

4. Miscellaneous information packet requested
by ecology 6-4-92 (Tank farm 106C)

5. Data transmittal package for
241-C-105 Waste Tank Characterization

6. SD-RE-TI-205 Rev 0 Pgs 1-20

7. Occurrence report packet requested by
ecology on 6-4-92 WHC-90-0193
TFARM