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[0063769.H]

OCCURRENCE REPORT

CONTRACTOR Rockwell Hanford Operations		FACILITY 241-A Tank Farm		WORK AREA 200 East	
REPORT NO. 78-24	<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> INTERIM	<input type="checkbox"/> FINAL	DATE AND TIME OF OCCURRENCE 2/23/78 5:30 p.m.	

OCCURRENCE SUBJECT

RELEASE OF RAW WATER IN 241-A TANK FARM

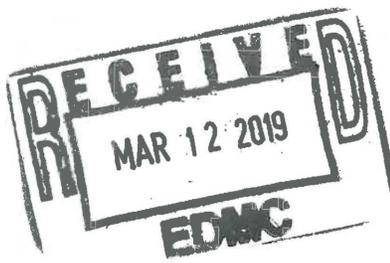
DESCRIPTION OF OCCURRENCE AND DESIGNATION OF APPARENT CAUSE

DESIGN MATERIAL PERSONNEL PROCEDURE OTHER

On February 23, 1978, at 5:30 p.m. raw water was found to be flowing from a hole 30 feet southeast of the 501 Valve Pit Building. A radiation field of approximately 1 R/hr. was present at the edge of the hole. This resulted from exposure of a buried deentrainer which was part of an unused ventilation system. The valve in the 501 controlling flow to line M5a was shut off and the flow of water stopped. In addition to the hole by the 501 building a cave-in discovered on the morning of February 24 occurred between the 102-A and 105-A Tank. Water meter readings indicate that approximately 60,000 gallons of water was released between the morning of February 22, 1978, and when the break was discovered on February 23, 1978. The apparent cause was the rupture of the M5a line approximately 30 feet southeast of the 501 Building. The cave-in between 102-A and 105-A is attributed to the channeling of water from the site of rupture along a pipe encasement to the area of cave-in.

It was determined on February 27, 1978, that because of the extent of the release this incident would become an Occurrence Report.

Tank 105A



OPERATING CONDITIONS OF THE FACILITY AT TIME OF OCCURRENCE (IF APPLICABLE)

... .. Sluicing was taking place in 105-A Tank.

Approved for Public Release;
Further Dissemination Unlimited

IMMEDIATE EVALUATION, CORRECTIVE ACTION TAKEN AND RESULTS

The release was caused by a rupture of line M5a. The valve controlling flow to the ruptured line was closed. The area was surveyed and no evidence of any release of radioactivity was found. The area was roped off to exclude personnel from the high radiation area.

RECOMMENDATIONS

A. TEMPORARY CORRECTIVE ACTION

The valve controlling flow to line M5a was locked closed. The holes by the 501 Building between 102-A - 105-A Tanks were filled.

B. PERMANENT CORRECTIVE ACTION

To be determined.

C. IS DESIGN CHANGE NECESSARY?		IF YES, WHEN	
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	To be scheduled.	
D. IS FURTHER EVALUATION NECESSARY?		IF YES, BY WHOM	WHEN
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	J.M. Cashman	4/22/78
E. PERMANENT CORRECTIVE ACTION TO BE IMPLEMENTED BY:	NAME	DATE	
F. SIMILAR OCCURRENCE: BY REPORT NUMBER AND OCCURRENCE SUBJECT			

Occurrence Report 77-91, Release of Water Within A Tank Farm.



ORIGINATED BY	TITLE	DATE
J.A. Swenson <i>J.A. Swenson</i>	Manager, Tank Farm Support Operations	3/1/78
REVIEWED BY	TITLE	DATE
J.M. Cashman <i>J.M. Cashman</i>	Manager, Tank Farm Operations	3/1/78
G.C. Owens <i>G.C. Owens</i>	Manager, Environ. & Occupational Safety	3/1/78
APPROVED BY (PER CONTRACTOR OPERATING INSTRUCTIONS)	TITLE	DATE