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AUG 08 1979

# OCCURRENCE REPORT

CONTRACTOR Rockwell Hanford Operations		FACILITY 241-C		WORK AREA 200E
REPORT NO. 79-73	<input type="checkbox"/> PRELIMINARY 7-26-79	<input type="checkbox"/> INTERIM	<input checked="" type="checkbox"/> FINAL	DATE AND TIME OF OCCURRENCE 7-23-79 1530
OCCURRENCE SUBJECT Release of Raw Water in 241C Tank Farm				

## 1. DESCRIPTION OF OCCURRENCE AND DESIGNATION OF APPARENT CAUSE

DESIGN     MATERIAL     PERSONNEL     PROCEDURE     OTHER

At 6:00 PM on July 22, 1979, water was discovered coming from the ground at the southwest corner of C Farm. The water ran downhill to the tank area. A 75' x 200' puddle was formed at the west side of tanks 111C and 112C. The puddle partially covered the tanks.

The cause of the occurrence was failure of a "stop and waste" valve in the 4 inch raw water line supplying water to C farm. Total estimated volume 5,000 gallons.

cc: J.C. Cummings, DOE-RL	bcc: D.C. Bartholomew	G.C. Owens
O.J. Elgert, DOE-RL (2)	C.R. Carter	R.D. Prosser
P.G. Harris, DOE-RL	D.J. Cockeram	J.H. Roecker
J.H. Straub, DOE-RL	G.T. Dukelow	H.P. Shaw
M.W. Tiernan, DOE-RL	J.B. Fecht	R.J. Thompson
	P.B. Fisk	R.A. Zinsli
	<del>J.H. Garbrick</del>	D.J. Washenfelder
	R.J. Gimera	Correspondence Control
	R.S. Gruhn	
	R.D. Hammond	
	W.F. Heine	
	J.D. Keck	
	E.J. Kosiancic	
	O.J. Larsen	
	H.B. Lindberg	
	W.M. Lindsay	
	J.V. Mohatt	
	G.C. Oberg	
	L.R. Ogletree	

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*File*

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

No transfers were underway in C farm.  
The line supplied cooling water to the 271 CR Air Compressor.

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3. IMMEDIATE EVALUATION, CORRECTIVE ACTION TAKEN AND RESULTS

"Stop and Waste" Valve 41R had failed, due to packing deterioration and fatigue. Valve 39R upstream of Valve 41R was closed stopping the flow. Tank Farm Surveillance was notified of those drywells having water around them. No contamination spread resulted from the valve failure. Valve 41R is a Ludlow 200 PSI "Stop and Waste" valve installed as original equipment to supply raw water to C Farm.

4. RECOMMENDATIONS

A. TEMPORARY CORRECTIVE ACTION

Sanitary water was plumbed to cool the air compressor. The valve was excavated, and the source of the leakage was found to be in the valve packing.

B. PERMANENT CORRECTIVE ACTION

Valve stem repacked and regasketed. Project B-139 "Tank Farm Water Line Modification" will replace Valve 41R. Project B-139 is designed to modify Tank Farm water supply systems to minimize the potential of raw water leakage into Tank Farms. Scheduled completion date on all Tank Farms is May 1981.

C. IS DESIGN CHANGE NECESSARY? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		IF YES, WHEN
D. IS FURTHER EVALUATION NECESSARY? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		IF YES, BY WHOM
E. PERMANENT CORRECTIVE ACTION TO BE IMPLEMENTED BY:		WHEN
NAME		DATE

5. SIMILAR OCCURRENCE : BY REPORT NUMBER AND OCCURRENCE SUBJECT

79-2 Raw Water Leak at 241S/241SX Tank Farms  
78-24 Release of Raw Water in 241A Tank Farm  
78-44 Raw Water Leak at 241-S/241SX Tank Farms

/Denotes changes from previous occurrence report.

ORIGINATED BY	TITLE	DATE
O.J. Larsen <i>[Signature]</i>	Mfg. Engineer, Tank Farm Proc. Oper.	8/6/79
D.J. Washenfelder <i>[Signature]</i>	Manager, Tank Farm Proc. Operation	8/6/79
J.H. Garbrick <i>[Signature]</i>	Manager, Tank Farm Surveillance & Oper.	8-7-79
G.C. Owens <i>[Signature]</i>	Manager, Env. & Occupational Safety	8/6/79
D.C. Bartholomew <i>[Signature]</i>	Director, Production Operations	8/7/79
W.F. Heine <i>[Signature]</i>	Director, Health, Safety & Environment	8/7/79
R.J. Thompson <i>[Signature]</i>	Manager, Plant Engineering	8/7/79
APPROVED BY (PER CONTRACTOR OPERATING INSTRUCTIONS)	TITLE	DATE
J.H. Roecker <i>[Signature]</i>	Program Director, Waste Management	8-8-79

# OCCURRENCE REPORT

JUL 26 1979

CONTRACTOR <b>Rockwell Hanford Operations</b>		FACILITY <b>241-C</b>		WORK AREA <b>200E</b>	
REPORT NO. <b>79-73</b>		<input checked="" type="checkbox"/> PRELIMINARY <input type="checkbox"/> INTERIM <input type="checkbox"/> FINAL		DATE AND TIME OF OCCURRENCE <b>7-23-79                      1530</b>	
OCCURRENCE SUBJECT  <b>Release of Raw Water in 241C Tank Farm</b>					

**1. DESCRIPTION OF OCCURRENCE AND DESIGNATION OF APPARENT CAUSE**

DESIGN       MATERIAL       PERSONNEL       PROCEDURE       OTHER

At 6:00 PM on July 22, 1979, water was discovered coming from the ground at the southwest corner of C Farm. The water ran downhill to the tank area. A 75' X 200' puddle was formed at the west side of tanks 111C and 112C. The puddle partially covered the tanks.

The apparent cause of the occurrence was failure of a stop and waste valve in the 4 inch raw water line supplying water to C farm. Total estimated volume 5,000 gallons.

cc: J.C. Cummings, DOE-RL O.J. Elgert, DOE-RL (2) P.G. Harris DOE-RL J.H. Straub DOE-RL M.W. Tiernan DOE-RL	bcc: D.C. Bartholomew C.R. Carter D.J. Cockeram J.B. Fecht <del>J.H. Garbrick</del> R.J. Gimera R.S. Gruhn R.D. Hammond W.F. Heine E.J. Kosiancic W.M. Lindsay G.C. Oberg L.R. Ogletree  G.C. Owens J.H. Roecker H.P. Shaw R.D. Prosser R.J. Thompson	H.B. Lindberg G.T. Dukelow J.V. Mohatt Correspondence Control P. B. Fisk
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**2. OPERATING CONDITIONS OF THE FACILITY AT TIME OF OCCURRENCE (IF APPLICABLE)**

No transfers were underway in C farm.  
 The line supplied cooling water to the 271 CR Air Compressor.

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3. IMMEDIATE EVALUATION, CORRECTIVE ACTION TAKEN AND RESULTS

The stop and waste valve 41R failed.  
 Valve 39R upstream of valve 41R was closed stopping the flow.  
 Tank Farm Surveillance was notified of those drywells having water around them.  
 No contamination spread resulted from the valve failure.

4. RECOMMENDATIONS

A. TEMPORARY CORRECTIVE ACTION

Sanitary water was plumbed to cool the air compressor.  
 The valve will be excavated, cause of leakage determined and repairs made.

B. PERMANENT CORRECTIVE ACTION

To be determined

C. IS DESIGN CHANGE NECESSARY? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		IF YES, WHEN
D. IS FURTHER EVALUATION NECESSARY? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		IF YES, BY WHOM D.J. Washenfelder
		WHEN 8-6-79
E. PERMANENT CORRECTIVE ACTION TO BE IMPLEMENTED BY:	NAME	DATE

5. SIMILAR OCCURRENCE ; BY REPORT NUMBER AND OCCURRENCE SUBJECT

79-2 Raw Water Leak at 241S/241SX Tank Farms  
 78-24 Release of Raw Water in 241A Tank Farm  
 78-44 Raw Water Leak at 241-S/241SX Tank Farms.

ORIGINATED BY O.J. Larsen <i>O.J. Larsen</i>	TITLE Mfg. Engineer, Tank Farm Proc. Oper.	DATE 7-26-79
REVIEWED BY D.J. Washenfelder <i>D.J. Washenfelder</i>	TITLE Manager, Tank Farm Proc. Operation	DATE 7-26-79
J.H. Garbrick <i>J.H. Garbrick</i>	Manager, Tank Farm Surveillance & Oper.	7-26-79
G.C. Owens <i>G.C. Owens</i>	Manager, Eng. & Occupational Safety	7/26/79
APPROVED BY (PER CONTRACTOR OPERATING INSTRUCTIONS)	TITLE	DATE