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Initial KB Date 12/14/93

ALLIED CHEMICAL CORPORATION
OPERATING OCCURRENCE REPORT

Shuman 6/16

JAN 04 1991

Report No. 76-3 (Obtain From O&ES Office) Date of Occurrence 1/16/76
Occurrence Subject WASTE TRANSFER LINE GASKET LEAK

Occurrence Location (Bldg. Process) Waste Tank Farm To Whom Reported in ERDA ID G. R. Kennedy
ACC Contact (For Add'l. Details) G. E. Lohse Time & Date Occurrence Reported to ERDA ID 1521, 1/16/76

Preliminary Type Classification: A B C Other
Final Type Classification: A B C Other

(Note: Complete Items 1 through 5 for all Reports. If Additional space needed, continue item on plain paper and attach to Report.)

1. DESCRIPTION OF OCCURRENCE (NATURE, EXTENT, LEVELS, AND EFFECTS - INCLUDING SKETCHES OR OTHER REFERENCES AS APPROPRIATE)

During a routine transfer of solution from service waste diversion tank WM-181 to the evaporator waste collection tank (WL-102), solution was observed leaking from the flange on one of the diversion valves. The transfer was stopped immediately. Check on the volume of waste received in WL-102 with that removed from WM-181 indicate that the measurements were well within the detection limits for WM-181. Therefore, the amount of liquid lost cannot be determined.

2. RELEVANT OPERATING CONDITIONS AT TIME OF OCCURRENCE:

Routine transfer of low-level waste back to the evaporator waste collection tank for concentration in the PEW evaporator.

CAUSE OF OCCURRENCE:

Design Material Human Error Procedure Equipment Failure Other (Specify) _____ Undetermined at _____

EXPLANATION OF CAUSE:

The gaskets were removed from the valve flange. The material was elastomeric. Steam from jetting operations would have heated the flange and caused the gasket to flow. The gasket showed evidence of flow. Also, flange markings on the gasket show that the gasket was improperly installed by construction forces during installation in 1971.

4. CONSEQUENCES OF OCCURRENCE:

Operational Delay Industrial Accident Local Contamination Environmental Contamination Personnel Exposure Personal Invention
Exceeded Safety Limit None
Other Specify: _____

5. IMMEDIATE CORRECTIVE ACTION TAKEN:

The jetting operation was halted and instructions issued to suspend further transfers through the line until the gasket was changed.

(For Initial SOO Reports)		(For Final SOO Reports Only)	
Report Originated By <u>G. E. Lohse</u>	Date <u>2-13-76</u>	Approved By: <u>[Signature]</u>	Date _____
By <u>[Signature]</u> Date <u>2-16-76</u> O&ES Br. Mgr. <u>[Signature]</u>	Date <u>1-18-76</u>	(S.M., I.C.P.)	
(Initial of Br. Mgr.) <u>[Signature]</u> (AGM, ICP)	Date <u>1-23-76</u>	Date <u>2-16-76</u>	

REPORT ONLY, COMPLETE REVERSE SIDE OF FORM (Items 6 through 10).

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Report No. 76-3 Occurrence Subject: WASTE TRANSFER LINE GASKET LEAK

5. SUBSEQUENT CORRECTIVE ACTION TAKEN (IF APPLICABLE):

The gasket was changed out on January 19. Soil samples were taken and probing indicated that activity did not penetrate the soil beneath the valve to a depth greater than three feet. The extent of the soil contamination will be further defined in the spring, after frozen ground has thawed.

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7. FINAL CORRECTIVE ACTION PROPOSED: (LIST SPECIFIC ACTION, ACTION ASSIGNEE AND DATE ACTION TO BE COMPLETED).

<u>Number)</u> <u>Corrective Action to be Taken</u>	<u>Assigned To</u>	<u>Estimated Completion Date</u>
The line and valves are to be relocated as part of the ICPP Radioactive Waste Systems Project (Project No. 76-ID-003).	N. J. Rigstad	June 1978
Additional probing will be done and an estimate made to obtain the number of curies discharged into soil after the spring thaw.	G. E. Lohse	May 1976

8. SIMILAR PREVIOUS OCCURRENCES:

Is this a recurrence of a previous event? Yes No
Is this a recurrence of a similar event? Yes No
If so, what is the approximate recurrence frequency or interval?

9. ESTIMATED COST OF OCCURRENCE: (SEE PPM 6.03 FOR GUIDELINES — MUST BE INCLUDED ON ALL FINAL REPORTS).

Material/Labor Costs \$ 200
1st Year Exposure (Internal/External) 0.10 Rem
Plant Downtime N/A Days

10. MANAGEMENT COMMENTS:

None Comments:

These are the sorts of incidents which Project 76-ID-003 will alleviate. Project 76-ID-003 will include better quality control than was previously obtained. The expanded surveillance of ICPP Tank Farm greatly assisted in early discovery of the leak.

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NOTEGRAM

Date July 6, 1976

To Ormand Cordes Dept. O&ES Address CPP-624

From G. E. Lohse Dept. Operations Address CPP-602

Reference: SOOR 76-3

Final corrective action (Item b) for this SOOR required that additional probing be done to estimate the number of curies discharged into the soil.

Probing has been completed, and the number of curies discharged into the soil was estimated (by Doug Wenzel) to be 1.2 curies of total $\beta + \gamma$ activity.

cc: C. B. Amberson/r/R. E. Commander

G. E. Lohse

File

PUT IT IN WRITING - WRITTEN MESSAGES SAVE TIME. PREVENT ANNOYING INTERRUPTIONS AND ERRORS

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