

NRC FORM 365
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 F L T P S 3 00 - 00 00 00 - 00 03 4 1 1 1 1 4 5
7 3 9 14 15 25 26 37 CAT 38

CON'T
01 REPORT SOURCE L 0 5 0 0 0 2 5 0 0 3 1 9 7 9 0 8 0 6 7 9 9
7 3 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 While conducting the Integrated Leakage Rate Test (ILRT) pursuant to

03 TS 4.4.1, leakage in excess of allowable limits was noted at the

04 pressure boundary (inner personnel airlock door/bulkhead). Additionally,

05 a leakage path through the outer personnel airlock door/bulkhead may have

06 existed. A local leak detection test of the personnel airlock had been

07 conducted successfully on March 2, 1979.

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17 LEAK/RO REPORT NUMBER 7 9
18 EVENT YEAR 7 9
19 SEQUENTIAL REPORT NO. 0 1 0
20 OCCURRENCE CODE 0 3
21 REPORT TYPE X
22 REVISION NO. 1
23 ACTION TAKEN X
24 FUTURE ACTION F
25 EFFECT ON PLANT Z
26 SHUTDOWN METHOD Z
27 HOURS 0 0 0
28 ATTACHMENT SUBMITTED Y
29 NRC-4 FORM SUB. N
30 PRIME COMP. SUPPLIER N
31 COMPONENT MANUFACTURER P 2 7

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The root cause was a packing leak along an operating shaft at the inner

11 bulkhead. Additional information will be contained in the summary

12 technical report required by TS 4.4.3. A local leak detection test and

13 a vacuum test of the volume between the personnel airlock door "O-rings"

14 has been successfully completed.

15 FACILITY STATUS X
16 % POWER 0 0 0
17 OTHER STATUS ILRT Test
18 METHOD OF DISCOVERY B
19 DISCOVERY DESCRIPTION Leakage inspection

20 ACTIVITY CONTENT Z
21 RELEASED OF RELEASE Z
22 AMOUNT OF ACTIVITY NA
23 LOCATION OF RELEASE NA

24 PERSONNEL EXPOSURES NUMBER 0 0 0
25 TYPE Z
26 DESCRIPTION NA

27 PERSONNEL INJURIES NUMBER 0 0 0
28 DESCRIPTION NA

29 LOSS OF OR DAMAGE TO FACILITY TYPE Z
30 DESCRIPTION NA

31 PUBLICITY ISSUED N
32 DESCRIPTION NA

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REPORTABLE OCCURRENCE 250-79-10, UPDATE #1
LICENSEE EVENT REPORT
PAGE TWO

Additional Cause Description and Corrective Action:

The leakage during the ILRT was determined to be in the area of the personnel airlock. The leakage paths at the pressure boundary defined for the ILRT were through (1) the containment-to-airlock equalizing valve packing gland, (2) the inner bulkhead airlock-to-atmosphere valve indicator seal gland, and (3) the inner bulkhead containment-to-airlock seal gland. Additionally, a leakage path existed around the "O-ring" seal on the outer airlock door.

The leakage paths at the pressure boundary were eliminated by tightening the packing gland and by pumping grease into the seal glands. The leakage path around the outer door was eliminated by reinstallation of shims behind the locking keeper of the latching mechanism. (The shims had been removed a few days prior to the ILRT to permit easier operation of the airlock door.)

As a precautionary measure, new seals will be installed on all through-bulkhead operators of both Unit 3 and Unit 4 at the next extended cold shutdowns. Additionally, our proposed license amendment (reference letter L-77-239, dated July 27, 1977) pursuant to Appendix J of 10 CFR 50 provides assurance that leaks of the above type will be quickly detected.