

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

SYSTEM CODE C C		CAUSE CODE E		CAUSE SUBCODE B		COMPONENT CODE H T E X C H				COMP. SUBCODE F		VALVE SUBCODE Z	
0	9	9	10	11	12	13	14	15	16	17	18	19	20
LER/RC REPORT NUMBER 8 2		EVENT YEAR 8 2		SEQUENTIAL REPORT NO. 0 0 7		OCCURRENCE CODE 0 1		REPORT TYPE T		REVISION NO. 0			
ACTION TAKEN P		FUTURE ACTION Z		EFFECT ON PLANT C		SHUTDOWN METHOD A		HOURS 0 0 0 0		ATTACHMENT SUBMITTED Y		NPRD-4 FORM SUB. N	
PRIME COMP. SUPPLIER N		COMPONENT MANUFACTURER W 1 2 0											

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

7	8	9	FACILITY STATUS 1 5 H 28						% POWER 0 0 0 29			OTHER STATUS N/A 30			METHOD OF DISCOVERY A 31		DISCOVERY DESCRIPTION OPERATOR OBSERVATION 32						80
7	8	9	ACTIVITY RELEASED 1 6 Z 33						CONTENT OF RELEASE Z 34			AMOUNT OF ACTIVITY N/A 35			LOCATION OF RELEASE N/A 36						80		
7	8	9	PERSONNEL EXPOSURES NUMBER 1 7 0 0 0 37						TYPE Z 38			DESCRIPTION N/A 39						80					
7	8	9	PERSONNEL INJURIES NUMBER 1 8 0 0 0 40						DESCRIPTION N/A 41									80					
7	8	9	LOSS OF OR DAMAGE TO FACILITY TYPE 1 9 Z 42						DESCRIPTION N/A 43									80					

7 8 9 10
 PUBLICITY (45)
 ISSUED DESCRIPTION (44)
 2 0 N 44
 8208090174 820731
 PDR ADOCK 05000261
 S PDR
 NRC USE ONLY

PHONE: (803) 383-4524

SUPPLEMENTAL INFORMATION
LER-82-007

I. Cause Description and Analysis

On July 17, 1982 at 0920 hours, a primary to secondary leak in "A" Steam Generator (S/G) was confirmed at an estimated rate of 3-5 GPM. The plant was in the process of heating up following a refueling outage and was at approximately 435°F and 1500 PSIG when this event occurred. A plant cool-down was immediately commenced, and upon completion of the cooldown, "A" S/G was opened to determine the cause of the leak.

Inspection revealed the leak to be from a welded tube plug. This tube had been repaired during the outage to correct a leak from an explosive plug which was installed in 1973.

During this outage, the explosive plug was drilled out, and a welded plug was installed. A subsequent hydrostatic test of the S/G revealed a leak in the weld repair. A second weld repair was performed, and a hydrostatic test revealed a leak on the order of "drops" per minute. Following review of this situation, it was determined that operation of the S/G with this small leakage could be done safely and would result in leakage at power well within the Technical Specification limits. However, during heat up the leakpath opened up and the leakage rate increased substantially.

This event resulted in a primary to secondary leak in excess of the amount allowed by Technical Specification 3.1.5.3 which is reportable pursuant to 6.9.2.a.3. There was no offsite activity release, and thus there was no threat to the public health and safety.

II. Corrective Action

The leaking welded plug was removed, the necessary machining performed, and a mechanical plug installed. Hydrostatic testing revealed a slight leak of approximately 5 drops per minute from the area of this plug.

Evaluation of the current leak rate was performed and determined to be within acceptable limits and easily monitored by current chemistry procedures. Close scrutiny was given to S/G leakage indicators during plant heatup and pressurization with no abnormal indications resulting. Specifically, primary to secondary leakage is essentially non-detectable.

III. Corrective Action to Prevent Recurrence

Current monitoring of S/G leakage indicators is adequate to detect leak occurrence and/or leak rate increase well below license requirements and permit the early initiation of corrective action.

Preliminary evaluation of these repair efforts and subsequent leakage may indicate the possibility of an imperfection in the tube sheet cladding which prevented proper adhesion of the weld material to the cladding or leaching of chemical contaminants into the filler material. Review of this event is continuing to determine if additional corrective action is needed. Any additional corrective action identified will be reported in a supplement to this report.