

## LICENSEE EVENT REPORT

CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | S C H B R 2 | 0 0 - 0 0 0 0 0 - 0 0 | 4 1 1 1 1 | 4 | 5  
7 8 9 14 15 25 26 30 57 CAT 58

CON'T

0 1 | L | 0 5 0 0 0 2 6 1 | 7 0 9 2 1 7 8 | 8 1 0 2 0 7 8 | 9  
7 8 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During full power operation on September 21, 1978, a primary to secondary leak was de-  
0 3 | tected in "A" Steam Generator of .62 GPM. A manual reactor shutdown was started at  
0 4 | 1800 hours with the reactor being at a cold shutdown condition at 2130 hours on  
0 5 | September 22, 1978, in accordance with Technical Specification paragraph 3.1.5.3.  
0 6 | The total primary to secondary leakage was less than 1 GPM so there was no threat to  
0 7 | the public safety or health.

0 8 | \_\_\_\_\_ 80

0 9 | SYSTEM CAUSE CAUSE COMPONENT COMP. VALVE  
CODE CODE SUBCODE CODE SUBCODE  
C A (11) E (12) B (13) H T E X C H (14) F (15) Z (16)  
7 8 9 10 11 12 13 18 19 20

(17) LER/RO EVENT YEAR SEQUENTIAL OCCURRENCE REPORT REVISION  
REPORT NUMBER YEAR REPORT NO. CODE TYPE NO.  
7 8 21 22 23 24 26 27 28 29 30 31 32  
X (18) Z (19) A (20) A (21) 0 1 9 1 Y (23) Y (24) N (25) W 1 2 0 (26)  
33 34 35 36 37 40 41 42 43 44 47

ACTION FUTURE EFFECT SHUTDOWN ATTACHMENT NPRD-4 PRIME COMP. COMPONENT  
TAKEN ACTION ON PLANT METHOD SUBMITTED FORM SUB. SUPPLIER MANUFACTURER  
X (18) Z (19) A (20) A (21) 0 1 9 1 Y (23) Y (24) N (25) W 1 2 0 (26)  
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | The leak resulted from failure of two steam generator tubes. The exact failure  
1 1 | mechanism is unknown. The plant was brought to a cold shutdown condition and the  
1 2 | leaking tubes were explosively plugged. A Steam Generator inspection program is  
1 3 | continuing in an effort to identify improvements in the chemistry program and  
1 4 | diagnose tube failure before a leak occurs.

1 5 | FACILITY % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION  
STATUS 10 12 13 44 45 46 80  
E (28) 1 0 0 (29) NA A (31) Operator Observation

1 6 | ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE  
7 8 9 10 11 13 44 45 46 80  
Z (33) Z (34) NA NA

1 7 | PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION  
7 8 9 10 11 12 13 44 45 46 80  
0 0 0 (37) Z (38) NA

1 8 | PERSONNEL INJURIES NUMBER DESCRIPTION  
7 8 9 10 11 12 13 44 45 46 80  
0 0 0 (40) NA

1 9 | LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION  
7 8 9 10 11 12 13 44 45 46 80  
Z (42) NA

2 0 | PUBLICITY ISSUED DESCRIPTION  
7 8 9 10 11 12 13 44 45 46 80  
N (44) NA

7810310127

NAME OF PREPARER R. B. Starkey, Jr.

PHONE (803) 332-1351

NRC USE ONLY

SUPPLEMENTAL INFORMATION  
FOR  
LICENSEE EVENT REPORT 78-22

1. Cause Description and Analysis:

At 1800 hours on September 21, 1978, during full power operation, a primary to secondary leak of .62 GPM was identified in Steam Generator "A". A manual reactor shutdown was commenced and the plant was in a cold shutdown condition within the thirty hours as required by Technical Specification paragraph 3.1.5.3. As a result of inspection, two failed steam generator tubes were identified in the vicinity of the tube sheet. The precise mechanism of failure is not known.

2. Corrective Action:

The plant was brought to a cold shutdown condition and an inspection of "A" Steam Generator revealed two leaking tubes. Following explosively plugging of the tubes, a pressure test of the secondary side of the steam generator was conducted to prove the effectiveness of the repair.

3. Corrective Action To Prevent Further Occurrence:

The defects in the leaking tubes were found to be at the tube sheet because of a continuing leakage during the complete drain down of the secondary side of the steam generator. Although the 1978 Eddy Current inspection results did not reveal any defects in these tubes, this program will be continued in an effort to identify improvements in the chemistry program and to diagnose this type of defect before a failure occurs.