

CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

1 M D C C N 1 2 0 0 - 0 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5
3 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 37 CAT 50

1 REPORT SOURCE L 6 0 5 0 0 0 3 1 7 7 0 13 2 0 8 1 8 0 4 1 6 8 1 9
8 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

2 At 1525, during normal power operation, #12 Coolant Charging Pump (CCP)
3 was started for testing after maintenance. When #12 CCP started, the
4 discharge relief valve for #12 CCP lifted and appeared to stick open,
5 rendering a second cooling charging pump inoperable (T.S. 3.1.2.4). #12
6 CCP was returned to service at 1805. #11 CCP remained operable during
7 this event. This event had no impact on the public health or safety
8 and is non-repetitive.

9 SYSTEM CODE C G 11 CAUSE CODE E 12 CAUSE SUBCODE X 13 COMPLIMENT CODE V A L I V E X 14 COMP SUBCODE P 15 VALVE SUBCODE B 16
17 LER-RO REPORT NUMBER 8 1 21 EVENT YEAR 22 8 1 23 SEQUENTIAL REPORT NO. 24 0 2 1 25 OCCURRENCE CODE 26 0 3 27 REPORT TYPE 28 L 29 REVISION NO. 30 0
31 ACTION TAKEN 32 B 33 FUTURE ACTION 34 Z 35 EFFECT ON PLANT 36 Z 37 SHUTDOWN METHOD 38 Z 39 ATTACHMENT SUBMITTED 40 Y 41 SPRD-4 FORM SUB. 42 N 43 PRIME COMP. SUPPLIER 44 A 45 COMPONENT MANUFACTURER 46 C 7 1 1 0 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

0 #13 Coolant Charging Pump discharge desurger had lost its nitrogen pre-
1 charge causing the discharge pressure to cycle violently, repeatedly
2 lifting the relief valve and causing internal damage to it. The valve
3 was repaired, the desurger correctly charged and the system was returned
4 to normal.

5 FACILITY STATUS 6 E 7 POWER 8 1 9 0 0 10 29 OTHER STATUS 30 NA 31 METHOD OF DISCOVERY 32 A 33 Operator Observation 34 DISCOVERY DESCRIPTION 35

6 ACTIVITY CONTENT 7 Z 8 33 9 Z 10 34 AMOUNT OF ACTIVITY 35 NA 36 LOCATION OF RELEASE 37 NA 38

7 PERSONNEL EXPOSURES 8 0 9 0 10 0 11 37 Z 12 38 NA 13 DESCRIPTION 39

8 PERSONNEL INJURIES 9 0 10 0 11 0 12 40 NA 13 DESCRIPTION 41

9 LOSS OF OR DAMAGE TO FACILITY 10 7 11 42 NA 12 DESCRIPTION 43

0 ISSUED 1 N 2 44 NA 3 DESCRIPTION 45

NRC USE ONLY

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S PDR

LER NO. 81-21/3L
DOCKET NO. 50-317
LICENSE NO. DFR-53
EVENT DATE 03-20-81
REPORT DATE 04-16-81
ATTACHMENT

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (CONT'D)

At 1525 on March 20, 1981, with Unit 1 at 100% power, #12 Coolant Charging Pump (CCP) was started for post maintenance testing when #12 CCP common discharge header caused #12 CCP discharge relief valve to lift. It was reported that the valve had lifted and failed to reseat, rendering the charging pump "inoperable". #13 CCP was taken out of service for repairs. The testing of #12 CCP was completed and it was put back in service at 1805.

The discharge relief valve for #13 CCP was removed, tested and inspected. In testing, the valve lifted and resealed within proper limits of operation. Physical inspection revealed damage to the disc caused by repeated lifting of the valve "hammering" the disc against the seat. Further investigation revealed that the discharge pressure desurger on #13 CCP had lost its nitrogen precharge. This caused inordinate cycling of the pressure at the pump discharge, lifting the relief valve repeatedly. The only indication of this valve lifting is the noise it creates and in the high noise level area of the charging pump, these repeated lifts can easily be construed as "chattering" of a stuck open relief valve. There was also a small fluid flow through the valve due to the damaged disc.

The relief valve disc was repaired, the valve was reinstalled, and the system returned to normal. The discharge desurger was correctly precharged and no further problem has been noted.