

LICENSEE EVENT REPORT

UPDATE REPORT

Previous Report Date 04-16-81

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

REPORT SOURCE L 6 0 5 0 0 0 3 1 7 7 0 3 2 0 8 1 8 0 5 1 2 8 1 9

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 #13 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 C G 11 E 12 X 13 V A L V E X 14 P 15 B 16
17 LER/RO REPORT NUMBER 8 1 21 0 2 1 24 0 3 28 L 30 1 32
18 Z 19 Z 20 Z 21 0 0 0 0 22 Y 23 N 24 A 25 C 7 1 0 26

10 #13 Coolant Charging Pump discharge desurger had lost its nitrogen pre-
11 charge causing the discharge pressure to cycle violently, repeatedly
12 lifting the relief valve and causing internal damage to it. The valve
13 was repaired, the desurger correctly charged and the system was returned
14 to normal.

15 E 28 1 0 0 0 29 NA 30 A 31 Operator Observation 32

16 Z 33 Z 34 NA 35 NA 36

17 0 0 0 37 Z 38 NA 39

18 0 0 0 40 NA 41

19 Z 42 NA 43

20 N 44 NA 45

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PDR ADOCK 05000317
S PDR

NRC USE ONLY
68 69 80
(201) 260 4776/4816

LER NO. 81-21/3L Rev. 1
DOCKET NO. 50-317
LICENSE NO. DPR-53
EVENT DATE 03-20-81
REPORT DATE 05-12-81
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 started, a pressure surge in the CCP common discharge header caused #13 CCP discharge relief valve to lift. It was reported that the valve had lifted and failed to reseal, 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 reseated 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 pumps 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.