LICENSEE EVENT REPORT

CONTROL BLOCK: | | | | | | | (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | F L T P S 3 (2) | 0 0 - 0 0 0 0 0 - 0 0 (3) | 4 1 1 1 1 (4) | | (5)
LICENSEE CODE | LICENSE NUMBER | LICENSE TYPE | CAT

CON'T 0 1 | REPORT SOURCE L (6) | 0 5 0 0 0 2 5 0 (7) | 1 0 0 8 7 9 (8) | 1 0 2 2 7 9 (9)
DOCKET NUMBER | EVENT DATE | REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 During a planned outage, a hex nut was discovered lodged in the internals
0 3 of the main steam supply valve to the 3C moisture separator-reheater. The
0 4 unit was brought to cold shutdown. Investigation revealed that the nut was
0 5 missing from the disc stud in the 3A main steam check valve. The disc and
0 6 disc stud were in the proper position and the valve was fully operable.
0 7 The 3B and 3C MSCVs were inspected and the disc stud nuts were found in
0 8 place.

0 9 | SYSTEM CODE H B (11) | CAUSE CODE E (12) | CAUSE SUBCODE C (13) | COMPONENT CODE V A L V E X (14) | COMP. SUBCODE C (15) | VALVE SUBCODE D (16)

(17) LER/RO REPORT NUMBER | EVENT YEAR 7 9 | — | SEQUENTIAL REPORT NO. 0 3 1 | / | OCCURRENCE CODE 0 3 | REPORT TYPE T | — | REVISION NO. 0

ACTION TAKEN A (18) | FUTURE ACTION X (19) | EFFECT ON PLANT C (20) | SHUTDOWN METHOD Z (21) | HOURS (22) 0 0 0 0 | ATTACHMENT SUBMITTED Y (23) | NPRD-4 FORM SUB. Y (24) | PRIME COMP. SUPPLIER A (25) | COMPONENT MANUFACTURER S 0 7 5 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The cause of the hex nut dislodging from the disc stud was failure of the.
1 1 washer beneath the hex nut and subsequent failure of the associated locking
1 2 device. The hex nut was replaced on the 3A MSCV and an improved locking
1 3 device was installed on all three MSCVs. Main steam isolation valves are
1 4 scheduled for inspection during the November, 1979 refueling outage.

1 5 | FACILITY STATUS G (28) | % POWER 0 0 0 (29) | OTHER STATUS (30) NA | METHOD OF DISCOVERY B (31) | DISCOVERY DESCRIPTION (32) During maintenance.

1 6 | ACTIVITY RELEASED Z (33) | CONTENT OF RELEASE Z (34) | AMOUNT OF ACTIVITY (35) NA | LOCATION OF RELEASE (36) NA

1 7 | PERSONNEL EXPOSURES NUMBER 0 0 0 (37) | TYPE Z (38) | DESCRIPTION (39) NA

1 8 | PERSONNEL INJURIES NUMBER 0 0 0 (40) | DESCRIPTION (41) NA

1 9 | LOSS OF OR DAMAGE TO FACILITY (43) TYPE Z (42) | DESCRIPTION NA

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2 0 | PUBLICITY ISSUED N (44) | DESCRIPTION (45) NA | NRC USE ONLY

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Additional Event Description and Probable Consequences:

On Sunday, October 7, 1979, in the course of performing secondary system maintenance during a planned unit outage, a foreign object (hex nut) was discovered lodged in the internals of the main steam supply valve to the 3C moisture separator - reheater. Operation to place the reactor coolant system in cold shutdown (unplanned) was initiated to facilitate an investigation to determine the origin of the hex nut. On Monday, October 8, 1979, investigative efforts revealed that the nut was missing from the disc stud in the 3A main steam check valve (MSCV). The disc and disc stud were in the proper position and the valve was fully operable. The 3B and 3C MSCV's were inspected and the disc stud nuts were found in place although some distress was noted on the 3C lock washer.

Additional Cause Description and Corrective Action:

The cause of the hex nut dislodging from the disc stud was failure of the washer beneath the hex nut and subsequent failure of the associated locking device. Vibration resulted in the hex nut "backing off" the disc stud. The hex nut was replaced on the 3A MSCV and an improved locking device was installed on all three MSCV's. Additionally, the main steam isolation valves (MSIV's) are scheduled for inspection during the upcoming refueling outage next month.

During the reassembly of the MSCV's following the inspection and repair described above, 24 studs (securing the valve bonnet to the valve body) on the 3A MSCV and 10 studs on the 3C MSCV were overtorqued. The overtorquing resulted from personnel error in reading the pressure gauge scale on the hydraulic torque device. The affected studs were replaced with new studs which meet or exceed original design requirements. Maintenance personnel have been reinstructed in the proper use of this type of torque device.