(7-77)

LICENSEE EVENT REPORT

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

0 1 | M A P P S 1 (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 2 9 3 (7) | 1 0 0 9 8 1 (8) | 1 1 0 9 8 1 (9)

DOCKET NUMBER | EVENT DATE | REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | On 10/9/81 and 10/13/81, during refuel, Limitorque Motor Operators on MOV

0 3 | 1001-32 and MOV 1001-36A, respectively, were found to have loose and broken

0 4 | CAP screws anchoring the motors to the valves. Related events were reported

0 5 | as LER's 79-028, 030, and 037. See Attachment.

0 6 |

0 7 |

0 8 |

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

(17) LER/RO REPORT NUMBER: EVENT YEAR 8 1 | — | SEQUENTIAL REPORT NO. 0 5 7 | / | OCCURRENCE CODE 0 3 | REPORT TYPE L | — | REVISION NO. 0

ACTION TAKEN B (18) | FUTURE ACTION X (19) | EFFECT ON PLANT Z (20) | SHUTDOWN METHOD Z (21) | HOURS (22) 0 0 0 0 | ATTACHMENT SUBMITTED Y (23) | NPRD-4 FORM SUB. N (24) | PRIME COMP. SUPPLIER A (25) | COMPONENT MANUFACTURER L 2 0 0 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | The most probable cause has been attributed to vibration causing the hold-down

1 1 | bolts to work loose resulting in the shearing of one of the bolts. A thread

1 2 | locking substance will be applied to the bolts and the recommended torque values

1 3 | verified. An engineering study of these events is currently underway.

1 4 |

1 5 | FACILITY STATUS H (28) | % POWER 0 0 0 (29) | OTHER STATUS (30) NA | METHOD OF DISCOVERY A (31) | DISCOVERY DESCRIPTION (32) Operator Observation

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 TYPE Z (42) | DESCRIPTION (43) NA

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

8111230547 811109
PDR ADOCK 05000293
S PDR

NRC USE ONLY

NAME OF PREPARER G. G. Whitney PHONE: 617-746-7900

GPO 911-926

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION
DOCKET NO. 50-293

Attachment to LER 81-057/03L-C

Event Description and Probable Consequences

On October 9 and 13, 1981 during a refuel outage, loose and sheared off hold-down bolts were found on the limitorque motor operators on valves 1001-32 and 36A. MOV 1001-32 is a normally closed valve, electrically isolated (breaker-pulled). The MOV 1001-36A valve, however, is in normal use and, if all the bolts sheared, the valve would be inoperative.

Cause Description and Corrective Action

The most probable cause has been attributed to vibration causing the bolts to work loose resulting in the shearing of one of the bolts. An immediate fix is to apply a thread locking substance to all the hold-down bolts.

Related occurrences have been reported as LER's 79-28, 30 and 37. These dealt with the shearing of a ½" steel key with the recommended fix to the stem clamp of adding set screws to the clamps to prevent inadvertent movement. This was implemented as a plant design change with the caution that it was temporary and that the valves (MOV 1001-36A & B) be checked for the effectiveness of the fix. No key shearing has been found, to this date.

A request has been made for an engineering investigation into a potential common mode failure relative to the subject LER and a recent LER, 81-051/01T-0 "RHR Test Connection".

The potential exists due to the common probable cause of vibration.

An investigation into these events and the previously reported occurrences is now underway and an update report will be issued when this investigation is completed.