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Writer's Direct Dial Number

September 9 , 1980
TLL 448

Office of Inspection and Enforcement
Attn: Mr. Boyce H. Grier, Director
Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Sir:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)
Operating License No. DPR-73
Docket No. 50-320
Licensee Event Report 80-037/01L-0

Attached please find Licensee Event Report 80-037/01L-0, concerning the excessive seal leakage for the outer Personnel Air Lock door on August 8, 1980.

This event constitutes a violation of Section 3.6.1.3(a) and is considered reportable under Section 6.9.1.8(b) of the Interim Recovery Technical Specifications.

Sincerely,

G. K. Hovey
Director, TMI-2

GKH:SDC:dad

Attachments

cc: J. T. Collins
B. J. Snyder

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S
1/1

8009180

404

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LICENSEE EVENT REPORT

Attachment 1
TLL 448

CONTROL BLOCK: _____ (1)

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | P | A | T | M | I | 2 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | _____ | 5
7 8 9 14 15 25 26 30 57 58
 LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

CON'T
 0 1 | R | E | P | O | R | T | S | O | U | R | C | E | L | 6 | 0 | 5 | 0 | 0 | 0 | 3 | 2 | 0 | 7 | 0 | 8 | 0 | 8 | 8 | 0 | 8 | 0 | 9 | 0 | 8 | 8 | 0 | 9
7 8 60 61 68 69 74 75 80
 REPORT SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | Leak rate testing of a reactor building personnel air lock door No. 2 showed leakage
 0 3 | to be excessive. As repairs could not be accomplished within 24 hours, this event was
 0 4 | a violation of Technical Specification 3.6.1.3.
 0 5 | _____
 0 6 | _____
 0 7 | _____
 0 8 | _____
7 8 9

0 9 | S | R | 11 | E | 12 | B | 13 | P | E | N | E | T | R | 14 | A | 15 | Z | 16 |
7 8 9 10 11 12 13 18 19 20
 SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE
 17 | L | E | R | R | O | R | E | P | O | R | T | N | U | M | B | E | R | 8 | 0 | 23 | 0 | 3 | 7 | 26 | 27 | 0 | 1 | 28 | 29 | L | 30 | 31 | 0 | 32 |
21 22 23 24 26 27 28 29 30 31 32
 LEAR RO REPORT NUMBER EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.
 ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NPRO-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
 B 18 | G | 19 | Z | 20 | Z | 21 | 0 | 0 | 0 | 0 | 22 | Y | 23 | N | 24 | A | 25 | S | 1 | 7 | 5 | 26
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | The apparent cause was the failure to equalize the pressure inside and outside the air-
 1 1 | lock resulting in sudden opening of a door and its striking a wall. The door has been
 1 2 | realigned and seals replaced. Purging of the PAL is no longer required and, therefore,
 1 3 | *has been* eliminated. In addition, the pressure differential interlock for the outer PAL door has
 1 4 | been returned to service.
7 8 9

1 5 | X | 28 | 0 | 0 | 0 | 29 | Recovery Mode | 30 | B | 31 | Auxiliary Operator Observation | 32
7 8 9 10 12 13 44 45 46 80
 FACILITY STATUS % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION

1 6 | Z | 33 | Z | 34 | N/A | 35 | N/A | 36
7 8 9 10 11 44 45 80
 ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE

1 7 | 0 | 0 | 0 | 37 | Z | 38 | N/A | 39
7 8 9 11 12 13 80
 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION

1 8 | 0 | 0 | 0 | 40 | N/A | 41
7 8 9 11 12 80
 PERSONNEL INJURIES NUMBER DESCRIPTION

1 9 | Z | 42 | N/A | 43
7 8 9 10 80
 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION

2 0 | N | 44 | 8009180 408 | N/A | 45 | _____ | 46
7 8 9 10 68 69 80
 ISSUED DESCRIPTION PUBLICITY NRC USE ONLY

NAME OF PREPARER Steven D. Chaplin

PHONE: (717) 948-8461

LICENSEE EVENT REPORT
NARRATIVE REPORT

TMI-2

LER 80-037/01L-0

EVENT DATE - August 8, 1980

I. EXPLANATION OF OCCURRENCE

At 2245 on August 7, 1980, pursuant to Technical Specification 4.6.1.3.a, a leak test was performed on a reactor building personnel airlock (PAL) outer door (PAL #2). Leakage rate exceeded Technical Specification limits and could not be repaired within 24 hours. Therefore, this is a violation of the Action requirement of Technical Specification 3.6.1.3.

II. CAUSE OF THE OCCURRENCE

Due to damage to the outer airlock door in preparation for entry into the Reactor Building Air Lock No. 2, the door failed to seal. It was not possible to complete repair of the seal until 0120 hours on August 9, 1980.

The apparent cause of damage to the door was incomplete following of the procedure for purging of the airlock in that the pressure differential across the door had not been equalized prior to unlatching the door.

The interlock which prevents opening the outer door with a pressure differential across it had been defeated to insure no problems were encountered during the Reactor Building entries because it was similar to the interlock system which delayed the first Reactor Building entry.

The operator visually examined the door for damage and opened and closed it, but found no malfunction.

However, when the leak test was performed, as above, it was concluded that the door had, indeed, been damaged by striking the wall.

III. CIRCUMSTANCES SURROUNDING THE OCCURRENCE

At the time of the occurrence, the Unit 2 facility was in a long-term cold shutdown state. The reactor decay heat was being removed via natural circulation to the "A" steam generator which is operating in a 'steaming' mode. Throughout the event, there was no Loss of Natural Circulation heat removal in the RCS System.

IV. CORRECTIVE ACTIONS TAKEN OR TO BE TAKEN

IMMEDIATE

The immediate action taken was the addition of shims to correct the door's alignment and installation of new seals.

LONG TERM

Long-term actions are two-fold:

- 1) The interlock which prevents the opening of the door with a pressure differential across it has been returned to service, and
- 2) with changing conditions, entries are now made according to Procedure 1630.2, which does not require purging of the PAL.

V. COMPONENT FAILURE DATA

N/A