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DESCRIPTION

Ltr. providing Reportable Occurrence # 76-26/3L
on 6-22-76 concerning Inoperable High Radiation
Actuation Mode of a Reactor Building Purge
Exhaust Monitor.....

(1 Signed Cy. Received)
(3 Pages)

PLANT NAME: Three Mile Island # 1

ENCLOSURE

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED
SEND DIRECTLY TO KREGER/J. COLLINS

FOR ACTION/INFORMATION

SAB 7-29-76

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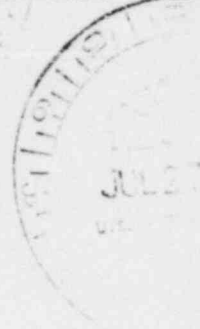
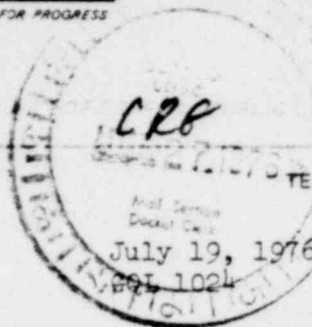
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METROPOLITAN EDISON COMPANY

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Mr. J. P. O'Reilly, Director
Office of Inspection & Enforcement, Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Dear Sir:

Docket No. 50-289
Operating License No. DPR-50

In accordance with the Technical Specifications of our Three Mile Island Nuclear Station Unit 1 (TMI-1), we are reporting the following reportable occurrence:

- (1) Report Number: ER 76-26/3L
- (2a) Required Report Date: July 22, 1976
- (2b) Date of Occurrence: June 22, 1976
- (3) Facility: Three Mile Island Nuclear Station - Unit 1
- (4) Identification of Occurrence:

Title: Inoperable High Radiation Actuation Mode of a Reactor Building Purge Exhaust Monitor.

Type: A reportable occurrence as defined by Technical Specification 6.9.2.B(4) in that failure of Reactor Building purge exhaust monitor RM-A9 to close purge exhaust valves AH-VLA and AH-VLB upon receipt of a high radiation test signal showed abnormal degradation of a system designed to contain radioactive material resulting from the fission process.

- (5) Conditions Prior to Occurrence:

Power: Core: 2531 MWt
Elec: 834 MWe (Gross)

RC Flow: 140×10^6 lbs/hr.

756,1480 750

RC Pressure: 2155 psig

RC Temp.: 579°F

PRZR Level: 225 inches

PRZR Temp.: 650°F

(6) Description of Occurrence:

On June 22, 1976, while performing Surveillance Procedure 1303-4.15, Radiation Monitoring System (RMS) Monthly Test, Reactor Building purge exhaust monitor RM-A9 failed to close purge exhaust valves AH-V1A and AH-V1B upon receipt of a high radiation test signal. Upon recognition of this condition both valves were immediately closed. Investigation results showed that the plug-in interlock and alarm relays for RM-A9 had been removed. The relays were returned to their correct location and tested. The test results were satisfactory.

(7) Designation of Apparent Cause of Occurrence:

The cause of this occurrence has been determined to be personnel in that the interlock and alarm relays, which were apparently removed during calibration to prevent spurious alarms on the RMS alarm panel, were not returned to the RM-A9 module on completion of the maintenance.

(8) Analysis of Occurrence:

From June 11, 1976, the date on which the alarm and interlock relays were not returned to their proper location following maintenance on RM-A9, to June 22, 1976, when the relays were reinstalled, three (3) Reactor Building purges were performed. However, it has been determined that this occurrence did not constitute a threat to the health and safety of the public in that:

- a. Review of the release data showed that no technical specification release limits were exceeded during the purges.
- b. Even though the alarm and interlock relays of RM-A9 were missing, RM-A9 still monitored the radiation level of the purges with read out and local alarm available in the Control Room.
- c. The Reactor Building purge valves could have been closed manually if a high radiation condition existed.

(9) Corrective Action:

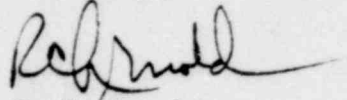
In addition to the immediate corrective action described above, the instrument maintenance personnel have been counseled regarding restoring equipment to service and assuring that adequate procedures are used.

1489 360

(10) Failure Data: N/A

Similar Occurrences: None

Sincerely,

A handwritten signature in dark ink, appearing to read 'R. C. Arnold', with a long, sweeping horizontal stroke extending to the right.

R. C. Arnold
Vice President

RCA:JMC:cas