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CONTROL NO: 7827

FILE: INCIDENT REPORT FILE

FROM: Met. Edison Co. Reading, Pa. 19603 R.C. Arnold			DATE OF DCC 7-21-75	DATE REC'D 7-23-75	LTR XX	TWX	RPT	OTHER
TO: NRC			ORIG 1 signed	CC	OTHER	SENT AEC PDR XX		SENT LOCAL PDR XX
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-289		

DESCRIPTION: Ltr advising of Abnormal Occurrence AO-50-289/75-22 on 7-11-75 re socket weld joint leaks in the suction vent line for the Make-Up Pump (MU-PLA)...

ENCLOSURES:

DO NOT WRITE

PLANT NAME: Three Mile Island Unit 1

FOR ACTION/INFORMATION

DHL 7-24-75

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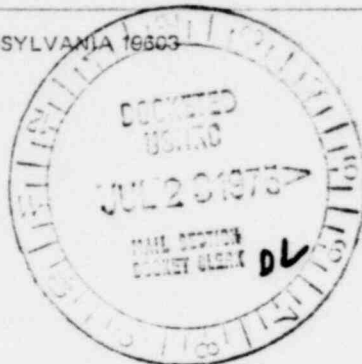
Regulatory Docket File

METROPOLITAN EDISON COMPANY

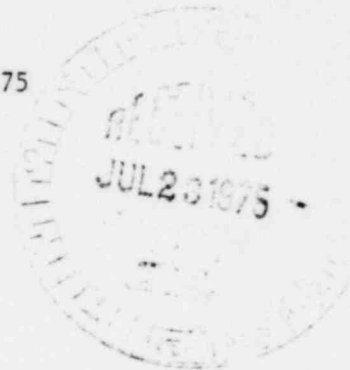
SUBSIDIARY OF GENERAL PUBLIC UTILITIES CORPORATION

POST OFFICE BOX 542 READING, PENNSYLVANIA 19603

TELEPHONE 215 - 929-3601



July 21, 1975
GQL 1285



Director
Division of Reactor Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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 abnormal occurrence.

- (1) Report Number: AO 50-289/75-22
- (2a) Report Date: July 21, 1975
- (2b) Occurrence Date: July 11, 1975
- (3) Facility: Three Mile Island Nuclear Station Unit 1
- (4) Identification of Occurrence:

Title: Socket weld joint leaks in the suction vent line for the Make-Up Pump (MU-P1A).

Type: An abnormal occurrence as defined by the Technical Specifications, paragraph 1.8e, in that leaks from this Make-Up Pump suction line constituted abnormal degradation of a system boundary designed to contain radioactive materials.

- (5) Conditions Prior to Occurrence:

Power: Core: 100%
Elect.: 870 MWe

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RC Flow: 140×10^6 lb/hr

RC Pressure: 2155 psig

RC Temp.: 579°F

PRZP Level: 240 inches

PRZR Temp.: 650°F

(6) Description of Occurrence:

On July 11, 1975, during a routine inspection of the Auxiliary Building, two leaks were discovered in socket weld joints of the Make-Up Pump (MU-PLA) suction vent line leading to valve MU-V156A.

One leak on this vent line was a crack in the weld joint adjacent to the 6 inch diameter Make-Up Pump suction line. The other leak was a pinhole crack in the weld joint of a 90° elbow fitting on this same vent line.

Immediately upon discovery, these leaks were isolated.

(7) Designation of Apparent Cause of Occurrence:

Installation procedures specify 80 inches to be the minimum space between a moving anchor and the first pipe restraint. This specification allows sufficient flexibility in the pipe between the moving anchor and the first pipe restraint to prevent cyclic fatigue failure. For the vent line only 23 inches of space between anchor and restraint existed allowing cyclic stresses to cause fatigue failure of the weld joints on this line. Therefore, the apparent cause of this occurrence is installation/construction.

(8) Analysis of Occurrence:

It has been determined that this occurrence did not represent a threat to the health or safety of the public, in that

- a. only two Make-Up Pumps are required for normal system operation,
- b. the effected pump was immediately isolated, and
- c. no detectable increase in radiation levels were observed.

(9) Corrective Actions:

In addition to the immediate corrective action listed above, long term corrective actions were to:

- a. modify the restraints to conform to the installation specifications, and
- b. inspect and verify that similar conditions did not exist on "B" and "C" Make-Up Pumps.

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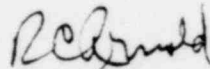
The Plant Operations Review Committee and Station Superintendent have reviewed and approved the above listed corrective actions.

(10) Failure Data:

Pipe: 3/4 inch diameter Schedule 40S ASTM A 312, type 304
Stainless Steel Socket Welds.

Similar Occurrences: None

Sincerely,



R. C. Arnold
Vice President

RCA/CWS/cas

cc: Office of Inspection and Enforcement, Region 1

File: 20.1.1/7.7.3.5.1

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