NRC FORM 195 (2-76) U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER: 50-289

FILE NUMBER: INCIDENT REPORT

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO:	FROM:	DATE OF DOCUMENT
Mr. J. P. O'Reilly	Metropolitan Edison Company Reading, Pa. R. C. Arnold	1/5/77
		DATE RECEIVED: 1/13/77

LETTER	NOTORIZED	PROP	INPUT FORM	NUMBER OF COPIES RECEIVED
☒ ORIGINAL	☒ UNCLASSIFIED			One signed
☐ COPY				

DESCRIPTION

Ltr. trans the following:

(3-P)

PLANT NAME:

Three Mile Island Unit No. 1

ENCLOSURE

Licensee Event Report (RO 50-289/76-44/3L) on 12/7/76 concerning Reactor Building Containment Isolation Valve AH-VID failing to fully close.

ACKNOWLEDGED

(1-P) DO NOT REMOVE

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

FOR ACTION/INFORMATION 1/14/77 RJL

☒	BRANCH CHIEF:	Reid
	W/3 CYS FOR ACTION	
☒	LIC. ASST.:	Ingram
	W/ CYS	
☒	ACRS 16 CYS ~~HOLDING~~/SENT : CAT. B. (1/14/77)	

INTERNAL DISTRIBUTION

☒	REG FILE
☒	NRC PDR
☒	I & E (2)
☒	MIPC
☒	SCHROEDER/IPPOLITO
☒	HOUSTON
☒	NOVAK/CHECK
☒	GRIMES
☒	CASE
☒	BUTLER
☒	HANAUER
☒	TEDESCO/MACCARY
☒	EISENHUT
☒	BAER
☒	SHAO
☒	VOLLMER/BUNCH
☒	KREGER/J. COLLINS

EXTERNAL DISTRIBUTION

☒	LPDR: Harrisburg, Pa.
☒	TIC:
☒	NSIC:

CONTROL NUMBER

1476 357
391 289
DAO. 7

NRC FORM 195 (2-76)

7910250563 S

METROPOLITAN EDISON COMPANY
SUBSIDIARY OF GENERAL PUBLIC UTILITIES CORPORATION

POST OFFICE BOX 542 READING, PENNSYLVANIA 19603 TELEPHONE 215 – 929 3601

GQL 1775
January 5, 1977

JAN 13 1977
U.S. NUCLEAR REGULATORY COMMISSION
Mail Section

Mr. J. P. O'Reilly, Director
Office of Inspection and Enforcement, Region 1
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 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.

Regulatory Docket File
DOCKETED USNRC
JAN 13
CRO

(1) Report Number: 76-44/3L

(2a) Required Report Date: 1/6/77

(2b) Date of Occurrence: 12/7/76

(3) Facility: Three Mile Island Nuclear Station - Unit 1

(4) Identification of Occurrence:

Title:

Reactor Building Containment Isolation Valve AH-V1D failed to fully close.

Type:

A reportable occurrence as defined by Technical Specification 6.9.2.B(2) in that Reactor Building Containment Isolation Valve AH-V1D failed to close fully thus leading to operating in a degraded mode permitted by a limiting condition for operation as defined by Technical Specification 3.6.6.

391

1476 358

(5) Conditions Prior to Occurrence:

Power:	Core:	2351 MWt
	Elec:	838 MWe
RC Pressure:		2155 psig
RC Flow:		140×10^6 lbs/hr
RC Temp:		$579^\circ F$
PRZR Level:		215 inches
PRZR Temp:		$650^\circ F$

(6) Description of Occurrence:

On December 7, 1976, while performing Preventive Maintenance Procedure 1C-49, the Reactor Building Purge Supply Valve (RBPSV), AH-V1D, could not be closed automatically. This valve was operable on December 6, 1976.

(7) Designation of Apparent Cause of Occurrence:

This event has been determined to be due to inadequate maintenance in that, the roller bearings on the butterfly valve shaft had not been regularly lubricated, resulting in corrosion products building up in the bearing races, preventing the bearings from turning freely.

(8) Analysis of Occurrence:

It has been determined that this occurrence did not constitute a threat to the health and safety of the public in that:

1. The in-series Reactor Building Purge Supply Valve (AH-V1C) was verified as closed and was tagged closed as required by Technical Specification 3.6.6.

2. The valve (AH-V1D) was closed shortly after repairs were commenced and was kept closed at all times when the repair steps did not require it to be open.

3. A satisfactory leak test was performed on the purge valve pair after repairs, without having made any adjustment or repairs to the valve in-series (AH-V1C).

1476 359

(9) Corrective Action:

In addition to the immediate corrective action described above:

1. The bearings were flushed to remove corrosion products and they were then greased. The pneumatic actuator was disassembled, inspected and overhauled.

2. The bearings on AH-V1A were promptly lubricated.

3. AH-V1D was leak tested satisfactorily and cycled repeatedly to verify operability.

4. Inspection of the bearing opposite the operator on AH-V1A, 1B and 1C will be done before the end of the March 1977 Refueling Outage.

5. A lubrication schedule for the valve shaft bearings of all four (4) purge valves will be set up.

(10) Failure Data:

1. Bettis Corporation
Robotarm Actuator
80889 BK DC
1074-15R75

2. Pratt 48" Butterfly Valve
Model R 1-A

Similar Occurrences: (List of Similar Unusual Occurrences By Report Number)

AO 75-29 Failure of AH-V1D to fully close (inadequate actuator lubrication)
AO 75-17 Failure of AH-V1A to fully close

Sincerely,

R. C. Arnold
Vice President

RCA:DGM:rk

1476 360