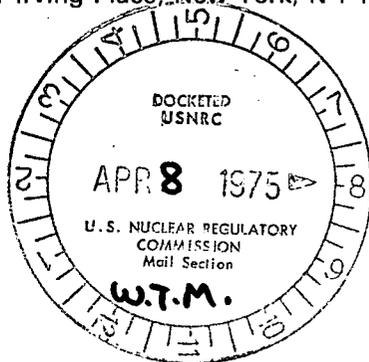




Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, N Y 10003



April 4, 1975

Re: Indian Point Unit No. 2
AEC Docket No. 50-247
A.O. 5-2-5

Mr. Edson G. Case, Acting Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20545



Dear Mr. Case:

In accordance with the requirements of the Technical Specifications to Facility Operating License DPR-26, the attached report of an Abnormal Occurrence is submitted.

Walter Stein

Walter Stein, Manager
Nuclear Power Generation

Copy to: Mr. James P. O'Reilly
Regulatory Operations

3777

8111090324 750404
PDR ADOCK 05000247
S PDR

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 3777

FILE: INCIDENT REPORT FILE

FROM: Con Edison New York, N.Y. 10003 Walter Stein			DATE OF DOC 4-4-75	DATE REC'D 4-8-75	LTR XX	TWX	RPT	OTHER
TO: Mr. Edson G. Case			ORIG 1 signed	CC 1	OTHER	SENT AEC PDR <u>XXX</u> SENT LOCAL PDR <u>XXX</u>		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-247		
DESCRIPTION: Ltr the following; DO NOT REMOVE ACKNOWLEDGED				ENCLOSURES: Abnormal Occurrence Report No. 50-247/5-2-5 on 3-25-75 malfunction of valve 822A Valve failed to open when signalled to... 1 copy enclosure rec'd				
PLANT NAME: Indian Point Unit No. 2								

FOR ACTION/INFORMATION W.T.M. 4-9-75

BUTLER (L) W/ Copies	SCHWENCER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies
CLARK (L) W/ Copies	STOLZ (L) W/ Copies	DICKER (E) W/ Copies	✓ LEAR (L) W/ Copies
PARR (L) W/ Copies	VASSALLO (L) W/ Copies	KNIGHTON (E) W/ Copies	SPELS W/ Copies
KNIEL (L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD (E) W/ Copies	

INTERNAL DISTRIBUTION

<u>REG FILE</u> - NRC PDR - OGC, ROOM P-506A - GOSSICK/STAFF - CASE - GIAMBUSO - BOYD - MOORE (L) - DEYOUNG (L) - SKOVHOLT (L) - GOLLER (L) (Ltr) - P. COLLINS - DENISE - REG OPR - FILE & REGION (2) - T.R. WILSON (3) - STEELE	TECH REVIEW - SCHROEDER - MACCARY - KNIGHT - PAWLICKI - SHAO - ** STELLO - ** HOUSTON - ** NOVAK - ROSS - IPPOLITO - TEDESCO - LONG - LA'NAS - BENAROYA - VOLLMER	DENTON - * GRIMES - GAMMILL - KASTNER - BALLARD - SPANGLER - ENVIRO - MULLER - DICKER - KNIGHTON - YOUNGBLOOD - REGAN - PROJECT LDR - HARLESS	LIC ASST - R. DIGGS (L) - H. GEARIN (L) - E. GOULBOURNE (L) - P. KREUTZER (E) - J. LEE (L) - M. MAIGRET (L) - S. REED (E) - M. SERVICE (L) - S. SHEPPARD (L) - M. SLATER (E) - H. SMITH (L) - ✓ S. TEETS (L) - G. WILLIAMS (E) - V. WILSON (L) - R. INGRAM (L)	A/T IND - BRAITMAN - SALTZMAN - MELTZ - PLANS - MCDONALD - CHAPMAN - DUBE (Ltr) - E. COUPE - PETERSON - HARTFIELD (2) - KLECKER - EISENHUT - WIGGINTON - F. WILLIAMS - HANAUER
--	--	--	---	---

EXTERNAL DISTRIBUTION

- 1 - LOCAL PDR <u>Montrose N.Y.</u>	- 1 - NATIONAL LABS	- 1 - PDR-SAN/LA/NY
- 1 - TIC (ABERNATHY) (1)(2)(10)	- 1 - W. PENNINGTON, Rm E-201 GT	- 1 - BROOKHAVEN NAT LAB
- 1 - NSIC (BUCHANAN)	- 1 - CONSULTANTS	- 1 - G. ULRIKSON, ORNL
- 1 - ASLB	- NEWMARK/BLUME/AGBABIAN	- 1 - AGMED (RUTH GUSSMAN) Rm B-127 GT
- 1 - Newton Anderson		- 1 - J. D. RUNKLES, Rm E-201 GT
- 5 - ACRS SENT TO LIC ASST <u>S. Teets 4-9-75</u>		
** SEND ONLY TEN DAY REPORTS		

1. Report Number: 50-247/5-2-5
- 2a. Report Date: April 4, 1975
- 2b. Occurrence Date: March 25, 1975
3. Facility: Indian Point Unit No. 2
4. Identification of Occurrence:

This abnormal occurrence was the type identified by Technical Specification 1.8.d and relates to a malfunction of valve 822A which is a motor operated valve in the component cooling system on the outlet of residual heat exchanger No. 22.

5. Conditions Prior to Occurrence:

At the time of the occurrence, Unit No. 2 was in the cold shutdown condition for a planned outage which began on February 28, 1975.

6. Description of Occurrence:

During the outage, Valve 822A had been operated several times to provide cooling water to the residual heat removal system. However, on March 25, 1975, when the valve was signalled to open, it did not respond. To provide cooling water the operator utilized the alternate path to residual heat exchanger No. 21.

7. Designation of Apparent Cause of Occurrence:

The investigation conducted to determine the cause of the malfunction revealed that a bronze worm gear in the limitorque operator was partially stripped. The gear teeth also showed excessive wear on both sides such that the edge of the teeth were reduced to a sharp edge. It was also noted that foreign material in the form of dirt, lagging dust and pieces of string were between the drive nut and the valve stem lead screw.

It was concluded that the bronze worm gear was heavily loaded, due to the foreign material on the valve stem lead screw, on both the open and close direction to the point where the gear teeth were stripped.

8. Analysis of Occurrence:

Valve 822A is a motor operated valve in the component cooling system and is located on the outlet of residual heat exchanger No. 22. Valve 822B, which is a redundant valve, is associated with No. 21 residual heat exchanger. This redundant valve operated satisfactorily following the occurrence. In the event safeguards actuation occurs, only one of these two valves are required to open and provide cooling water to its associated heat exchanger.

Since valve 822B was operable and would have provided the required cooling water had safeguards actuation been initiated, the safety implications of this occurrence are considered slight.

9. Corrective Action:

The stripped bronze worm gear was replaced. In addition, the valve stem lead screw was cleaned. Following reassembly, the valve was tested satisfactorily. Redundant valve 822B was also inspected and found to be in satisfactory condition.

10. Failure Data:

Valve 822A Operator

Philadlephia Gear Co.
Limitorque Division
Model No. SMB-00-10
Serial No. 87676A

A previous malfunction of a limitorque operator (A.O.-5-2-4) was reported to the Commission by letter dated March 28, 1975. This previous malfunction involved a cracked operator casing and was not similar to this occurrence.

11. Notification:

An initial report of this occurrence was provided the Region 1 Office of Inspection and Enforcement by telephone on March 25, 1975 followed by letter dated March 26, 1975.