

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)

INDIAN POINT, UNIT 2

DOCKET NUMBER (2)

0 5 0 0 0 2 4 7 1 OF 2

PAGE 1

TITLE (4)

AUXILIARY FEEDWATER PUMP RELAYS

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)
09	10	84	84	012	010	10	10	84		0 5 0 0 0
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)								
POWER LEVEL (10)		20.402(b)		20.406(a)		80.73(a)(2)(iv)		73.71(b)		
01010		20.406(a)(1)(i)		80.38(a)(1)		80.73(a)(2)(v)		73.71(e)		
		20.406(a)(1)(ii)		80.38(a)(2)		80.73(a)(2)(vi)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)		
		20.406(a)(1)(iii)		80.73(a)(2)(i)		80.73(a)(2)(vii)(A)				
		20.406(a)(1)(iv)		80.73(a)(2)(ii)		80.73(a)(2)(vii)(B)				
		20.406(a)(1)(v)		80.73(a)(2)(iii)		80.73(a)(2)(x)				

LICENSEE CONTACT FOR THIS LER (12)

NAME

MICHAEL BLATT, REGULATORY AFFAIRS

TELEPHONE NUMBER

AREA CODE

911 452 6511 271

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
X	B	A	R	L	Y	W	1	2	0

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On September 10, 1984 when attempting to fill the steam generators utilizing the motor driven auxiliary feedwater pumps it was found that the pumps would not start. The plant was at cold shutdown for a refueling-maintenance outage when the event occurred. The cause of this event was determined to be two defective relay coils; both coils were open-circuited and the insulation decomposed. Although the coil failures were indicative of over-temperature, records verified that coil voltage, when energized, was maintained, within the supplier's limitations.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)

INDIAN POINT STATION

LICENSEE NAME (2)

LER NUMBER (3)

PAGE (3)

YEAR	SEQUENTIAL NUMBER	REVISION NUMBER
0 8 1 0 0 0 1 2 4 7	8 4 - 0 1 2	- 0 1 0

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TEXT (IF MORE SPACE IS REQUIRED, USE ADDITIONAL NRC Form 365A (1-83))

On September 10, 1984, while at a cold shutdown for a refueling-maintenance outage, the auxiliary feedwater pumps did not start when actuated. The pumps were being used for steam generator fill. The cause of the failure of the pumps to start was traced to two relays, one per pump. Examination of the relays revealed open circuiting and severe degradation of the insulation. In the two week period prior to this event, three other similar relays failed with evidence of similar degradation.

When the plant is at power, these relays are not usually energized. When at cold shutdown the relays may be energized.

This class of relays has experienced occasional past failures in applications where they are frequently energized during operation. The cause of previous failures was traceable to sensitivity of the relays to temperature. For replacement relays coil, insulation was modified and ambient temperature and voltage restrictions were recommended by the supplier.

The two failed relays of this event are not frequently energized. During this outage, when the relays were energized, a check of operating voltage indicated it to be below the maximum recommended by the supplier. The cause of the failures is attributed to physical degradation. To preclude further failures an evaluation of similar relays is in progress with selective replacement. The supplier has been contacted and is assisting in this program.

There was no safety hazard due to these failures since the plant was in cold shutdown. In addition, the diverse steam driven auxiliary feedwater supply was unaffected by this condition.

John D. O'Toole
Vice President

Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, NY 10003
Telephone (212) 460-2533

October 10, 1984

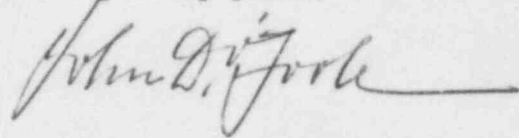
Re: Indian Point Unit No. 2
Docket No. 50-247
LEF-84-012-00

Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Sirs:

The attached Licensee Event Report LER-84-012-00 is hereby submitted in accordance with the requirements of 10 CFR Part 50.73.

Very truly yours,



attach.

cc: Dr. Thomas E. Murley,
Regional Administrator-Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pa. 19406

Senior Resident Inspector
U. S. Nuclear Regulatory Commission
P. O. Box 38
Buchanan, New York 10511

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