

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Indian Point, Unit 3	DOCKET NUMBER (2) 0 5 0 0 0 2 8 6	PAGE (3) 1 OF 3
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TITLE (4) Main Steam Isolation Valve Fails to Close Due to a Control Circuit Failure

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)
0 5	1 1	8 8	8 8	0 0 3	0 0	0 6	0 9	8 8			0 5 0 0 0 0

OPERATING MODE (9) N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)									
POWER LEVEL (10) 0 0 0	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)						
	20.405(a)(1)(i)	50.36(c)(1)	X 50.73(a)(2)(v)	73.71(c)						
	20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)							
	20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)							
20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)								

LICENSEE CONTACT FOR THIS LER (12)

NAME Roger Lauricella, Plant Engineer I	TELEPHONE NUMBER
	AREA CODE: 9 1 4 7 3 6 8 0 4 6

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

CAUSE	SYSTEM	COMPONENT	MANUFAC. TURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC. TURER	REPORTABLE TO NPRDS	
X	S B	H S I	M 3 0 2	N							
X	S B	I S V	A 5 8 5	Y							

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 May 11, 1988, with the reactor in hot shutdown in preparation for a Maintenance Outage, a Main Steam Isolation Valve (MSIV) (MS-1-34) failed to close when "manually" signaled from the control room. All other plant systems were functioning properly at the time. Operators locally closed MS-1-34. The problem with the system was isolated to the control circuitry for MS-1-34. Investigation indicated probable intermittent operation of the control switch. Troubleshooting efforts could not reproduce the malfunction, however, the MS-1-34 control switch was replaced as a precautionary measure. Subsequently, all four MSIVs' control circuits were tested satisfactorily. Following replacement of the MS-1-34 control switch and retesting, the plant continued in cold shutdown for a scheduled maintenance outage. Further testing of the replaced MS-1-34 control switch is to be undertaken. All four MSIV control room control switches will be upgraded during the next refueling outage. Should additional information become available that significantly alters (or enhances) the perception of this event, a supplemental LER will be issued.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Indian Point, Unit 3	DOCKET NUMBER (2) 0 5 0 0 0 2 8 6	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 8	- 0 0 3	- 0 0	0 2	OF

TEXT (If more space is required, use additional NRC Form 366A's) (17)

DESCRIPTION OF EVENT:

At 1210 hours on May 11, 1988, with the plant at hot shutdown, while performing a plant cooldown in preparation for entering a maintenance outage, a manual closure signal was provided to the Main Steam Isolation Valves (MSIVs) (SB) (A585) (ISV) when the reactor temperature reached 325°F. One MSIV (MS-1-34) did not close on command. Operators closed MS-1-34 locally by isolating and venting control air to the valve piston. The valve operator responded correctly and the valve went shut.

INVESTIGATION OF EVENT:

Since the valve operated locally with no mechanical difficulties, the investigation focused on the control circuitry. Testing was conducted on all four MSIV control circuits by the Instrument and Control Department. Testing showed control circuit operation, both manually and automatically for all MSIVs. The MS-1-34 switch (M302) (H5) (Honeywell/Microswitch Model #PTSHB202BREV-B00) was checked for flaws and found satisfactory.

Since the MS-1-34 control switch was the only point where a single failure could have prevented closure of the valve, the switch was replaced and all MSIVs (31, 32, 33, 34) were tested for operation from their control room control switches. All MSIVs operated satisfactorily.

CAUSE OF EVENT:

The cause for the failure of the MS-1-34 valve to close is unknown. No past failures of the MS-1-34 valve to close have occurred.

CORRECTIVE ACTIONS:

The following actions were undertaken as a result of this incident:

- 1) The MS-1-34 control switch was replaced with an identical control switch and that switch was tested for function and control of MSIV operation. All test results were satisfactory.

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		8 8	- 0 0 3	- 0 0	0 3	OF	0 3

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- 2) The remaining three (MS-1-31, MS-1-32, MS-1-33) control switches were also tested for function and control of MSIV operation. All tests results were satisfactory.
- 3) The MS-1-34 control switch will be further evaluated and tested for possible failure mechanisms.
- 4) All four MSIV control room control switches will be upgraded during the next refueling outage.

ANALYSIS OF EVENT:

This event is reportable under 10CFR50.73(a)(2)(v). An evaluation has determined that this event has been considered under the guidelines of plant FSAR and Technical Specifications. It was determined that the problem would not have prevented auto closure of the MSIV by the safety injection actuation system, if it had been needed. No other safety implications were identified as a result of this event.

SECURING FROM THE EVENT:

On May 18, 1988, with the plant in cold shutdown for a maintenance outage, the MS-1-34 control circuit was satisfactorily returned to service. The plant will remain in cold shutdown pending completion of the maintenance outage. No similar events or LERs have occurred or been reported to date.

Indian Point 3
Nuclear Power Plant
P.O. Box 215
Buchanan, New York 10511
914 739.8200



June 9, 1988
IP3-88-036
IP3-88-003R

Docket No. 50-286
License No. DPR-64

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

Dear Sir:

The attached Licensee Event Report LER 88-003-00 is hereby submitted in accordance with the requirements of 10CFR50.73. This event is of the type defined in Paragraph 50.73 (a) (2) (v).

Very truly yours,


William A. Josiger
Resident Manager
Indian Point 3 Nuclear Power Plant

RL/rj
Attachment

cc: Mr. William Russell
Regional Administrator
Region 1
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406

INPO Records Center
Suite 1500
1100 Circle 75 Parkway
Atlanta, Georgia 30339

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11