

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 13
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TITLE (4)
Main Steam Isolation Valve Fails to Close

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	2	04	8	9	002	0	3	03			0 5 0 0 0

OPERATING MODE (9) N

POWER LEVEL (10) 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

20.402(b)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)
20.405(a)(1)(i)	<input type="checkbox"/>	50.73(a)(2)(v)	73.71(c)
20.405(a)(1)(ii)	<input type="checkbox"/>	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
20.405(a)(1)(iii)	<input type="checkbox"/>	50.73(a)(2)(viii)(A)	
20.405(a)(1)(iv)	<input type="checkbox"/>	50.73(a)(2)(viii)(B)	
20.405(a)(1)(v)	<input type="checkbox"/>	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Vincent R. Coulehan, Plant Engineer	TELEPHONE NUMBER 9 1 4 7 1 6 1 8 1 0 4 7
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
X	S B I S I V I			N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15) MONTH: 0 DAY: 8 YEAR: 3 1 8 9

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

On February 4, 1989 with the reactor in hot shutdown in preparation for a steam generator replacement outage, one main steam isolation valve (MSIV) (MS-1-34) failed to close from the control room. Operators locally closed MS-1-34. The problem has been isolated to mechanical binding of the actuator. The main steam isolation valve is in the process of being repaired during the present outage.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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							0 2 OF 0 3

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

DESCRIPTION OF THE EVENT

At 0900 hours (during plant cooldown to cold shutdown) with average reactor coolant temperature at 360 degrees F, and the steam generator pressure at approximately 100 psig, the 34 main steam isolation valve (MSIV) (SB) (A585) (ISV) failed to shut on a close signal from the control room. Operators were dispatched to locally shut this valve and had to manually assist the valve to ensure closure.

INVESTIGATION OF THE EVENT

On February 4, 1989 Operations commenced a cooldown to cold shutdown. This evolution commenced shortly after 0100 hours utilizing the high pressure steam dumps to the condenser. This method of cooldown continued until approximately 0900 hours on February 4 when the condenser vacuum interlock precluded any further use of the high pressure steam dumps. The control room operators attempted to secure main steam to the turbine hall by shutting the main steam isolation valves. The isolation valves for 31, 32 and 33 steam lines operated normally. When the operators attempted to close 34 main steam isolation valve, no response was observed. The control room operators dispatched operators to locally shut the valve. When the operators arrived at 34 main steam isolation valve the air to the piston had been verified to be vented by opening the manual vent valves. The operators then manually shut the valve. During the close stroke of this valve, it was observed that the valve was mechanically binding. Note that the main steam isolation valves are reverse flow check valves and are assisted closed by steam flow. During this event, there was no effective steam flow to aid in closing this valve.

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

CAUSES OF THE EVENT

The failure of the number 34 main steam isolation valve to close has not been positively identified. Preliminary investigation disclosed that some mechanical binding has occurred. The valve operator is to be disassembled and shipped to the manufacturer for complete analysis and refurbishment. A supplement to this LER will be provided when the root cause of the MSIV failure has been determined.

CORRECTIVE ACTIONS

As a result of this event, the following is a summary of corrective actions undertaken:

All four main steam isolation valve actuators are being sent to the manufacturer for repair and analysis, and all four packing assemblies will be repacked.

ANALYSIS OF THE EVENT

This event is reportable under 10CFR50.73a.iv.

The failure of one main steam isolation valve to close is evaluated in the plant's Final Safety Analysis Report, Section 14.2.5.1.

SECURING FROM THE EVENT

Plant personnel secured 34 main steam isolation valve. The control room operators continued to place the plant in a cold shutdown condition.

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



March 3, 1989
IP3-89-016

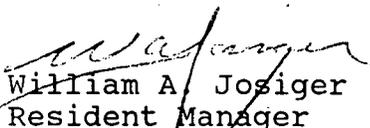
Docket No. 50-286
License No. DPR-64

Document Control Desk
Main Station PI-137
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

The attached Licensee Event Report LER 89-002-00 is hereby submitted in accordance with the requirements of 10CFR50.73. This event is of the type defined in the requirements per 10CFR50.73(a)(2)(iv).

Very truly yours,


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

VC/rj
Attachment

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

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1100 Circle 75 Parkway
Atlanta, Georgia 30339

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