

NORTHEAST UTILITIES



The Connecticut Light and Power Company
Western Massachusetts Electric Company
Norfolk Water Power Company
Northeast Utilities Service Company
Northeast Nuclear Energy Company

General Offices - Selden Street, Berlin, Connecticut

P. O. BOX 270
HARTFORD, CONNECTICUT 06114-0270
(203) 665-6000

Re: 10CFR50.73(a)(2)(iv)

August 26, 1991

MP-91-694

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


Reference: Facility Operating License No. NPF-49
Docket No. 50-423
Licensee Event Report 91-020-00

Gentlemen:

This letter forwards Licensee Event Report 91-020-00, required to be submitted within thirty (30) days pursuant to 10CFR50.73(a)(2)(iv), any event or condition that resulted in manual or automatic actuation of any Engineered Safety Feature (ESF).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY


Stephen E. Scace
Director, Millstone Station

SFS/VRJ:ljs

Attachment: LER 91-020-00

cc: T. T. Martin, Region I Administrator
W. J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1, 2 and 3
D. H. Jaffe, NRC Project Manager, Millstone Unit Nos. 1 and 3

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LICENSEE EVENT REPORT (LER)

Estimated burden per response to comply with this information collection request: 60 minutes. Forward comments regarding burden estimate to the Records and Reports Management Branch (2-540), U.S. Nuclear Regulatory Commission, Washington, DC 20555, and to the Paperwork Reduction Project (2150-0104), Office of Management and Budget, Washington, DC 20503.

FACILITY NAME (1)										DOCKET NUMBER (2)										PAGE (3)																													
Milestone Nuclear Power Station Unit 3										0 6 0 0 0 4 2 3 1										OF 0 3																													
TITLE (4) Inadvertent Main Steam Isolation Signal Due to Wrong Switch Operation Due to Improper Work Practices																																																	
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 NAME																			
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OPERATING MODE (9) 4										THIS REPORT IS BEING SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § 1.70 (Check one or more of the following) (11)																																							
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LICENSEE CONTACT FOR THIS LER (12)																																																	
NAME										TELEPHONE NUMBER										AREA CODE																													
Vere R. Joseph, Engineer, Ext. 5571										2 0 3 4 4 7 - 1 7 9 1																																							
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																																																	
FAILURE										SYSTEM										COMPONENT										MANUFACTURER										REPORTABLE TO NRC									
SUPPLEMENTAL REPORT EXPECTED (14)																														EXPECTED SUBMISSION DATE (15)										MONTH DAY YEAR									
YES (If yes, complete EXPECTED SUBMISSION DATE)										N NO																																							

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

On July 26, 1991, at 2254 hours, while in Mode 4 (Hot Shutdown), at 233 degrees Fahrenheit and 380 psia, an inadvertent Main Steam Line Isolation (MSLI) - Engineered Safety Features signal was generated. At the time of the event, a Senior Control Room Operator (SCO) was attempting to reset the Feedwater Isolation (FWI) Signal to support ongoing evolutions during the shutdown. Control Room operators immediately verified that all components actuated as required in response to the MSLI.

Based on the plant computer Sequence of Events (SOE) information, MSLI inputs, and discussions with plant personnel, the root cause of the event is concluded to be improper work practices. The SCO, who was in the process of resetting the FWI signal, inadvertently actuated the MSLI via the FWI Reset (pushbutton) switch. Although different in color, the MSLI actuation switch is the same type switch and is adjacent to the FWI reset switch on Main Control Board No. 5. The switches are properly labeled.

The importance of self-checking as part of routine work practices is being re-emphasized to all operating shift personnel. Either the MSLI or FWI Reset switch will be modified such that each switch must be operated differently. A practical design modification is being reviewed and evaluated for implementation by December 31, 1991.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED burden per response to comply with this information collection request: 60.0 hrs. Forward comments regarding burden estimate to the Records and Reports Management Branch (p-630), U.S. Nuclear Regulatory Commission, Washington, DC 20555, and to the Paperwork Reduction Project (2150-0106), Office of Management and Budget, Washington, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (3)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Millstone Nuclear Power Station Unit 3	01500042341	91	020	00	02	OF	03

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

I. Description of Event

On July 26, 1991, at 2254 hours, with the plant shutdown in Mode 4 (Hot Shutdown), at 233 degrees Fahrenheit and 380 psia, an inadvertent Main Steam Line Isolation (MSLI) - Engineered Safety Features signal was generated. At the time of the event, a Senior Control Room Operator (SCO) was attempting to reset the Feedwater Isolation (FWI) signal to support ongoing evolutions during the shutdown.

As immediate corrective action, Control Room operators verified that the Main Steam Isolation Valves and Bypass Valves were closed as required in response to the (MSLI). No further actions were required since the plant was shutdown and in a stable configuration. All components operated as required in response to the event and the event did not significantly impact the ongoing evolutions. After responding to the event, Control Room operators initiated an investigation to determine the source of the MSLI.

II. Cause of Event

After a review of the plant computer Sequence of Events (SOE) information, MSLI inputs, and discussions with plant personnel, the root cause of the event is concluded to be improper work practices (i.e., no self-checking) by the SCO who was in the process of resetting the FWI signal. The SCO inadvertently actuated the MSLI (pushbutton) switch vice the FWI Reset (pushbutton) switch. Although different in color, the MSLI actuation switch is the same type switch and is adjacent to the FWI reset switch on Main Control Board No. 5. The switches are properly labeled.

III. Analysis of Event

This event is being reported pursuant to 10CFR50.73(b)(2)(iv), as any event or condition which resulted in a manual or automatic actuation of any Engineered Safety Feature (ESF). An immediate notification was made in accordance with 10CFR50.72(b)(2)(ii).

The event did not pose a significant challenge to plant safety systems nor did it have any significant safety consequences. The MSLI-ESF actuation is a conservative protection feature. The plant was shutdown and in a stable configuration. Had the event occurred at power, closure of the Main Steam Isolation Valves would have generated a reactor trip on low-low steam generator level (due to steam generator "shrink"). However, the likelihood of this event occurring while at power is minimal, since a FWI reset is an evolution normally performed while the plant is shutdown to provide feedwater to the steam generators.

IV. Corrective Action

As immediate corrective action, Control Room operators verified that all components actuated as required in response to the MSLI.

The importance of self-checking as part of routine work practices is being re-emphasized to all operating shift personnel.

In addition, either the MSLI or FWI Reset switch will be modified such that each switch must be operated differently. A practical design modification is being reviewed and evaluated for implementation by December 31, 1991.

YEAR	2023.8-2024.7	REVENUE	20.5 亿元
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ELIS Codes

Systems

Engineered Safety Features Actuation System - JF

Switch = AS