



Northeast  
Utilities System

Millstone Offices • Rope Ferry Rd., Waterford, CT

P.O. Box 128  
Waterford, CT 06385-0128  
(203) 447-1791

September 16, 1996

Docket No. 50-245  
B15893

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

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

This letter forwards Licensee Event Report (LER) 96-048-00, documenting an event that occurred at Millstone Nuclear Power Station, Unit No. 1 on August 16, 1996. This LER is submitted pursuant to 10CFR50.73(a)(2)(i).

The following are NNECO's commitments made within this letter. All other statements made within this letter are for information only.

- B15893-1      A supplemental report will be issued by November 20, 1996, documenting the results and conclusions of an ongoing investigation into the condition described in this report.
- B15893-2      The issues described in this report will be dispositioned prior to startup for Cycle 16.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. J. Riffer  
Director - Millstone Unit No. 1

Attachment: LER 96-048-00

cc: H. J. Miller, Region I Administrator  
T. A. Easlick, Senior Resident Inspector, Millstone Unit No. 1  
J. W. Andersen, NRC Project Manager, Millstone Unit No. 1

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EXPIRES 04/30/98

## LICENSEE EVENT REPORT (LER)

(See reverse for required number of  
digits/characters for each block)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS MANDATORY INFORMATION COLLECTION REQUEST: 50.0 HRS. REPORTED LESSONS LEARNED ARE INCORPORATED INTO THE LICENSING PROCESS AND FED BACK TO INDUSTRY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)

Millstone Nuclear Power Station Unit 1

DOCKET NUMBER (2)

05000245

PAGE (3)

1 of 3

TITLE (4)

RPS LOGIC TESTING QUESTIONS IDENTIFIED DURING GENERIC LETTER 96-01 REVIEW

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
08	16	96	96	048	00	09	16	96	FACILITY NAME	DOCKET NUMBER
OPERATING MODE (9)		N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more) (11)							
POWER LEVEL (10)		000	20.2201(b)		20.2203(a)(2)(v)		<input checked="" type="checkbox"/> 50.73(a)(2)(i)		50.73(a)(2)(viii)	
			20.2203(a)(1)		20.2203(a)(3)(i)		50.73(a)(2)(ii)		50.73(a)(2)(x)	
			20.2203(a)(2)(i)		20.2203(a)(3)(ii)		50.73(a)(2)(iii)		73.71	
			20.2203(a)(2)(ii)		20.2203(a)(4)		50.73(a)(2)(iv)		OTHER	
			20.2203(a)(2)(iii)		50.36(c)(1)		50.73(a)(2)(v)		Specify in Abstract below or in NRC Form 366A	
			20.2203(a)(2)(iv)		50.36(c)(2)		50.73(a)(2)(vii)			

## LICENSEE CONTACT FOR THIS LER (12)

NAME

Robert W. Walpole, Nuclear Licensing Supervisor

TELEPHONE NUMBER (include Area Code)

(860)440-2191

## 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

## SUPPLEMENTAL REPORT EXPECTED (14)

☒ YES  
(If yes, complete EXPECTED SUBMISSION DATE).

NO

## EXPECTED SUBMISSION

MONTH

11

DAY

20

YEAR

96

## ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

A condition involving the adequacy of surveillance test methods used to demonstrate operability of logic relays within the Main Steam Isolation Valve (MSIV) Closure and Turbine Condenser Low Vacuum Reactor Protection System (RPS) logic circuits has been identified by the Generic Letter 96-01 review team. As a result, operability of both the MSIV Closure and Turbine Condenser Low Vacuum RPS functions may not have been fully demonstrated during prior operations. The RPS logic components that are affected by this condition are located within the reactor pressure RPS bypass interlock logic that is associated with the MSIV Closure and Turbine Condenser Low Vacuum RPS features. These functions are not required to be operable under the present plant operating conditions. This condition was discovered at 1433 hours on August 16, 1996, with the plant in the COLD SHUTDOWN condition. Issues involved in this matter will be dispositioned prior to plant restart.

Northeast Nuclear Energy Company (NNECO) is continuing in its effort to expeditiously investigate and resolve this issue. A supplemental report will be issued by November 20, 1996, documenting the results and conclusions of this investigation. Based upon preliminary investigation results it is believed that there were no adverse safety consequences as a result of this event. This condition is reportable pursuant to 10 CFR 50.73(a)(2)(i) as a condition prohibited by the plant's Technical Specifications.

LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)				PAGE (3)
		YEAR	SEQUENTIAL NUMBER		REVISION NUMBER	
		96	--	048	-- 00	
Millstone Nuclear Power Station Unit 1	05000245					2 of 3

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

I. Description of Event

A condition involving the adequacy of surveillance test methods used to demonstrate operability of logic relays within the MSIV Closure and Turbine Condenser Low Vacuum RPS logic circuits has been identified by the Generic Letter 96-01 review team. As a result, operability of both the MSIV Closure and Turbine Condenser Low Vacuum RPS functions may not have been fully demonstrated during prior operations. The RPS logic components affected by this condition are located within the reactor pressure RPS bypass interlock logic for the MSIV Closure and Turbine Condenser Low Vacuum RPS features. These features are not required to be operable under the present plant operating conditions. This condition was discovered at 1433 hours on August 16, 1996, with the plant in the COLD SHUTDOWN condition.

NNECO is continuing in its effort to expeditiously investigate and resolve this issue. Based upon preliminary investigation results it is believed that there were no adverse safety consequences as a result of this event. Although previously performed surveillance testing may not have fully demonstrated operability of the MSIV Closure and Turbine Condenser Low Vacuum RPS features, it did provide reasonable assurance that these features were available to perform their respective safety functions during previous operations.

This condition is reportable pursuant to 10 CFR 50.73(a)(2)(i) as a condition prohibited by the plant Technical Specifications.

II. Cause of Event

Results and conclusions of an ongoing investigation into this condition will be provided in a supplemental report.

III. Analysis of Event

Testing of logic circuit components that either perform, or can prevent, fulfillment of a safety function is encompassed within the scope of Technical Specification required surveillance test activities. A review of surveillance test procedures used to demonstrate operability of both the Turbine Condenser Low Vacuum and MSIV Closure RPS functions has identified questions that are presently under review regarding the ability of these procedures to adequately test individual logic components within the reactor pressure RPS interlock bypass that is associated with these RPS functions.

While this condition may have resulted in failure to adequately demonstrate operability of the Turbine Condenser Low Vacuum and MSIV Closure RPS features, it should be noted that the testing did provide reasonable assurance that these RPS features were available to perform their respective safety functions during previous operations. The condition described in this report does not involve an actual instance whereby an RPS safety function associated with the reactor pressure RPS interlock is known to have been impaired during prior plant operations. The plant is presently in an operational condition where neither the MSIV Closure nor the Turbine Condenser Low Vacuum RPS functions are required. Consequently, the safety significance of this condition is considered minimal at this time.

Results of an ongoing investigation into this condition, including a full analysis discussion, will be provided in a supplemental report. This condition is reportable pursuant to 10 CFR 50.73(a)(2)(i) as a condition prohibited by the plant Technical Specifications.

LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)				PAGE (3)
		YEAR	SEQUENTIAL NUMBER		REVISION NUMBER	
		96	--	048	-- 00	
Millstone Nuclear Power Station Unit 1	05000245					3 of 3

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

Analysis of Technical Specification 3.1 Compliance

Operability of both the MSIV Closure and Turbine Condenser Low Vacuum RPS functions may not have been fully demonstrated during prior operations.

IV. Corrective Action

Results and conclusions of an ongoing investigation, including any corrective actions, will be provided in a supplemental report by November 20, 1996.

V. Additional InformationSimilar Events

Results and conclusions of an ongoing investigation into the previously described condition, including identification of previous similar events, will be provided in a supplemental report.

EIIS Codes

	<u>System</u>	<u>Component</u>
RPS	JC	--
Main Condenser	SD	COND
Relay	JC	RLY

Manufacturer Data

None