

NORTHEAST UTILITIES



The Connecticut Light And Power Company
Western Massachusetts Electric Company
Holyoke Water Power Company
Northeast Utilities Service Company
Northeast Nuclear Energy Company

General Offices: Selden Street, Berlin, Connecticut

P. O. BOX 270

HARTFORD, CONNECTICUT 06141-0270

(203) 865-5000

January 21, 1993

HP-93-88

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

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

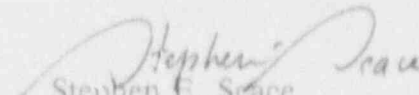
Reference: Facility Operating License No. DPR-65
Docket No. 50-336
Licensee Event Report 92-015-01

Gentlemen:

This letter forwards Licensee Event Report 92-015-01 required to be submitted within thirty (30) days pursuant to 10CFR50.73(a)(2)(v).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY


Stephen E. Seace
Vice President - Millstone Station

SES/WCS:ljs

Attachment: LER 92-015-01

cc: T. T. Martin, Region I Administrator
P.D. Swetland, Senior Resident Inspector, Millstone Unit Nos. 1, 2 and 3
G. S. Vissing, NRC Project Manager, Millstone Unit No. 2

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NRC Form 365 (8-89)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 Estimated burden per response to comply with this information collection request: 50.0 hrs. Forward comments regarding burden estimate to the Records and Reports Management Branch (P-530), U.S. Nuclear Regulatory Commission, Washington, DC 20555, and to the Paperwork Reduction Project (3150-0104), Office of Management and Budget, Washington, DC 20503.	
LICENSEE EVENT REPORT (LER)					
FACILITY NAME (1) Millstone Nuclear Power Station Unit 2				DOCKET NUMBER (2) 0 5 0 0 0 3 3 6 1 / P 0 2	
TITLE (3) Spec 200 Cabinets Seismic Qualification					
EVENT DATE (6)		LER NUMBER (5)		REPORT DATE (7)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER
0 8	2 1	9 2	9 2	0 1 5	0 1
				OTHER FACILITIES INVOLVED (8)	
				FACILITY NAME	
				0 5 0 0 0 0 0 0	
				0 5 0 0 0 0 0 0	
OPERATING MODE (9)		THIS REPORT IS BEING SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § 1.106 (Check one or more of the following) (11)			
1		20.402(b) <input type="checkbox"/> 20.402(c) <input type="checkbox"/> 50.73(a)(2)(iv) <input type="checkbox"/> 73.71(b) <input type="checkbox"/> 20.405(a)(1)(i) <input type="checkbox"/> 50.73(a)(2)(v) <input checked="" type="checkbox"/> 73.71(c) <input type="checkbox"/> 20.405(a)(1)(ii) <input type="checkbox"/> 50.73(a)(2)(vi) <input type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 365A) <input type="checkbox"/> 20.405(a)(1)(iii) <input type="checkbox"/> 50.73(a)(2)(vii)(A) <input type="checkbox"/> 20.405(a)(1)(iv) <input type="checkbox"/> 50.73(a)(2)(viii)(B) <input type="checkbox"/> 20.405(a)(1)(v) <input type="checkbox"/> 50.73(a)(2)(ix) <input type="checkbox"/>			
LICENSEE CONTACT FOR THIS LER (12)					
NAME Woodrow C. Saccoccio, Engineer, Ext. 4460				TELEPHONE NUMBER AREA CODE 3 0 3 4 4 7 - 1 7 9 1	
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)					
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRRIS	
SUPPLEMENTAL REPORT EXPECTED (14)					EXPECTED SUBMISSION DATE (16)
YES (if yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO					MONTH DAY YEAR
ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (15) <p>On August 21, 1992, at 1000, with the plant in cold shutdown and all of the fuel in the Spent Fuel Pool, it was determined that SPEC 200 cabinets manufactured by the Foxboro Company may not be seismically qualified as a result of missing bumpers. These cabinets contain safety related equipment which may not have performed its intended safety function after a seismic event.</p> <p>Information Notice 91-70 entitled, "Improper Installation of Instrumentation Modules" was reviewed by the licensee and an initial review of the instrumentation was performed in February of 1992. This review was not all inclusive since the unit was on line. The instruments which were readily accessible were checked and at that time, all were found to have the necessary seismic bumpers. A thorough inspection of all instruments was planned later in the year during the 1992 refueling outage. This inspection revealed that bumpers were missing and the potential for the loss of safety related systems after a seismic event.</p> <p>The licensee purchased SPEC 200 instrument nests and modules separately over the years and assembled them at the site. The vendor shipped the seismic bumpers with the equipment. Vendor manuals were included in the original cabinet purchase but at that time, the vendor had not included bumper installation instructions for safety related components. The seismic test report stated that modifications had to be made for the equipment to be seismically qualified. Since the instructions did not specify bumper installation, it was assumed that any necessary modifications to the equipment had been made by the vendor prior to shipment.</p>					

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-530), U. S. Nuclear Regulatory Commission, Washington, DC 20555, and to the Paperwork Reduction Project (3150-0104), Office of Management and Budget, Washington, DC 20503.

FACILITY NAME (1) Millstone Nuclear Power Station Unit 2	DOCKET NUMBER (2) 0 6 0 0 0 3 3 6 9 2	LER NUMBER (6) <table border="1"><thead><tr><th data-bbox="1004 268 1087 300">YEAR</th><th data-bbox="1087 268 1252 300">SEQUENTIAL NUMBER</th><th data-bbox="1252 268 1351 300">REVISION NUMBER</th></tr></thead><tbody><tr><td data-bbox="1004 300 1087 410">9 2</td><td data-bbox="1087 300 1252 410">0 1 5</td><td data-bbox="1252 300 1351 410">0 1</td></tr></tbody></table>	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	9 2	0 1 5	0 1	PAGE (3) 0 2 OF 0 2
YEAR	SEQUENTIAL NUMBER	REVISION NUMBER							
9 2	0 1 5	0 1							

TEXT (if more space is required, use additional NRC Form 365A, e) (17)

I. Description of Event

On August 21, 1992, at 1000, with the plant in cold shutdown and all of the fuel in the Spent Fuel Pool, it was determined that SPEC 200 cabinets manufactured by the Foxboro Company may not be seismically qualified as a result of missing bumpers. These cabinets contain safety related equipment which may not have performed its intended safety function after a seismic event.

Information Notice 91-70 entitled, "Improper Installation of Instrumentation Modules" was reviewed by the licensee and an initial review of the instrumentation was performed in February of 1992. This review was not all inclusive since the unit was on line. The instruments which were readily accessible were checked and at that time, all were found to have the necessary seismic bumpers. A thorough inspection of all instruments was planned later in the year during the 1992 refueling outage. This inspection revealed that bumpers were missing and the potential for the loss of safety related systems after a seismic event.

The licensee purchased SPEC 200 instrument nests and modules separately over the years and assembled them at the site. The vendor shipped the seismic bumpers with the equipment. Vendor manuals were included in the original cabinet purchase but at that time, the vendor had not included bumper installation instructions for safety related components. The seismic test report stated that modifications had to be made for the equipment to be seismically qualified. Since the instructions did not specify bumper installation, it was assumed that any necessary modifications to the equipment had been made by the vendor prior to shipment.

II. Cause of Event

The root cause of the event was lack of adequate vendor instruction to install seismic bumpers when cards are added to the cabinets by the user.

III. Analysis of Event

This event is being reported pursuant to the requirements of 10CFR50.73(a)(2)(v), a condition that could have prevented the fulfillment of the safety function of safety related systems. There were no safety concerns since the equipment in the cabinets did not become disabled as a result of a seismic event. Examination revealed that between the ten SPEC 200 cabinets installed in the MP2 Control Room, approximately 400 bumpers were missing. These missing bumpers had the potential to affect the function of the associated SPEC 200 cards during a seismic event since there is no test documentation that shows the cards would be unaffected without the bumpers installed. Early (1973) Foxboro vibration testing on a rack assembly found card deflection and component damage with 2 g's at 25 Hz. However, the MP2 seismic response spectra is well below these levels.

IV. Corrective Action

All of the equipment located in the cabinets was inspected to determine how many seismic bumpers were missing. The bumpers were installed prior to startup from the 1992 Refueling Outage. In addition, a Technical Bulletin has been prepared to inform the appropriate departments of this issue.

V. Additional Information

None