

General Offices Selden Street, Berlin Connecticut

P.O.BOX 270 HARTFORD, CONNECTICUT 06414-0270 (203)665-5000

Re: 10CFR50.73(a)(2)(v) October 5, 1990 MP-90-1084

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

Reference:

Facility Operating License No. DPR-21

Docket No. 50-245

Licensee Event Report 90-009-01

Gentlemen:

This letter forwards update Licensee Event Report 90-009-01 being submitted pursuant to the requirements of 10CFR50.73(a)(2)(v).

Very truly yours.

NORTHEAST NUCLEAR ENERGY COMPANY

FOR: Stephen E. Scace

Director, Millstone Station

BY:

Carl H. Clement

Millstone Unit 3 Director

SES/TST:mo

Attachment: LER 90-009-01

T. T. Martin, Region I Administrator

W. J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1, 2 and 3 M. Boyle, NRC Project Manager, Millstone Unit No. 1

9010160053 901005 PDR ADOCK 05000245 PDC

\$22 Cetho 003

NRC FORMERS U.S. NUCLEAR REGULATORY COMMISSION (NS-89)			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 Flegulatory Commission, Washington, DC 20555, and to the Paperwork Reduction Project (3/50-0104); Office of Management and Budget; Washington, DC 20503					
FACILITY NAME (1)	Millstone Nuclear	Power Station Uni		DESCRIPTION OF THE	OCKET NUMBE			3E (3)	
TITLE (4)	Ministone Nuclea:	rower station on	(1)		0 5 0 0 0	0 2 4	5 1 10	012	
	Heating Steam Hig	h Energy Line Brea	ik						
EVENT DATE (5) LER NUMBER (6) REPORT DATE (7)				OTHER	FACILITIES INV	OLVED (8)			
MONTH DAY YEAR	NTH DAY YEAR YEAR SECUENTIAL NAMES MONTH DAY YEAR FACILITY NAMES			\$					
						0 5 0	0 0		
0 5 1 1 9 0	90 009	0 1 1 00	5 9 0			0 5 0	0] 0]	LL	
OPERATING .	THIS REPORT IS BEIN	G SUBMITTED PURSUANT	TO THE REQUIREM	ENTS OF 10 CFR	§: (Check one)	or more of tr	ne followin	g)(11)	
MODE (9)	20.402(b)	20.402(c)		50.73(a)(2)(iv)		73.71(t)		
POWER	20.406(a)(1)(i)	50.36(c)(1)	X	50.73(a)(2)(v)		73.71(0			
LEVEL 11010	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)			
	20.406(a)(1)(iii)	50.73(a)(2)	(0)	50.73(a)(2)(viii)	(A)	Text, N	IRC Form	366A)	
	20.405(a)(1)(iv)	50.73(#1(2)	(ii)	50.73(a)(2)(viii)	(B)				
	20.405(a)(1)(iv)	50.73(a)(2)		50.73(a)(2)(x)					
		LICENSEE CO	NTACT FOR THIS LE	R (12)	· · · · · · · · · · · · · · · · · · ·				
NAME					AREA CODE	ELEPHONE	NUMBER		
Trudy S. T	hull, Engineer (Ex	. 5197)			21013	414171	-1117	1911	
	COMPLETE ONE	LINE FOR EACH COMPON	ENT FAILURE DESCE	BIRED IN THIS BEE			111	1	
CAUSE SYSTEM CON	MANUFAC-	FEPORTABLE TO NPROS		M COMPONENT	MANUFAC- TURER	REPORTABLE TO NATION	E		
		 		-		+	+		
			97.6	1111					
	11 111	This is		1111	1.1.1				
	SUPPLEMENT	AL REPORT EXPECTED ((4)		FURTOTER	MON	TH DAY	YEAR	
YES IT VES COMPLETE EXPECTED SUBMISSION DATE: V NO SUBMISSION DATE:					EXPECTED SUBMISSIO DATE (15)	N	1		
		mately fifteen single-space	-	16					

On May 1, 1990, with the plant at 100% power (530 degrees Fahrenheit and 1030 psig), it was determined that the House Heating Steam System, which is classified as a High Energy Line Break (HELB) System, could potentially degrade environmentally classified "EEQ Mild Environments". Upon recognition of this potentially unanalyzed condition, the House Heating Steam System was removed from service at 1715 hours. A Reportability Evaluation was immediately initiated to determine if a reportable condition existed. On May 11, 1990, preliminary results of the reportability evaluation concluded the consequences of a House Heating Steam Line rupture in "EEQ Mild Environments" would have a potentially negative impact on Class 1E equipment required for shutdown.

To insure other high energy sources have not been overlooked relative to their potential impact on equipment required for safe shutdown following a HELB, a mini review of the 1973 HELB study was immediately performed. The review concluded that there were no other major problem areas and the Auxiliary Steam System represented an isolated case. The review identified a concern that the HELB study was a 1973 snapshot, rather than a living document against which plant modifications are reviewed and determined acceptable. While the study, to date, has not found specific instances of plant modifications that adversely impacted the HELB study results, all areas having this potential will be validated. This issue is being pursued under a long term review program.

NA	0	For	TR.	36	6A
16-					

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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.

		withingerment	and neother assemble	JII DO EUDOS
FACILITY NAME (1)	DOCKET NUMBER (2)	L L	ER NUMBER (6)	PAGE (3)
		YEAR	NUMBER NUMBER	X X
Millstone Nuclear Power Station Unit 1	0 6 0 0 0 2 4	5 910-	01019 - 01	0 2 OF 012

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

1. Description of Event

On May 1, 1990, with the plant at 100% power (530 degrees Fahrenheit and 1030 psig), it was determined that the House Heating Steam System, which is classified as a High Energy Line Break System, could potentially degrade environmentally classified "EEQ Mild Environments". The mild environment areas identified as being subjected to a house heating steam line break include the Switchgear Room, Lower and Upper HVAC Rooms, and the Control Room via normally open ductwork in the Lower HVAC room.

At 1715 hours upon recognition of this potentially unanalyzed condition, the House Heating Steam System was removed from service. A Reportability Evaluation was immediately initiated to determine if a reportable condition existed.

On May 11, 1990, preliminary results of the reportability evaluation concluded the consequences of a House Heating Steam Line rupture in "EEQ Mild Environments" would have a potentially negative impact on Class 1E equipment required for shutdown.

II. Cause of Event

The cause of the oversight appears to be an incorrect conclusion drawn from the 1973 HELB study. The report addressed an Auxiliary Steam System line break and its non-relevance on safety related equipment, stating the environmental conditions ensuing from any break would be of no consequence tol any shutdown methods. This issue remains an open item being tracked under the Reportability Evaluation.

III. Analysis of Event

This event is being reported in accordance with 10CFR 50.73(a)(2)(v) which requires the reporting of any event or condition that alone could have prevented the fulfillment of the safety related structures or systems that are needed to (A) shutdown the reactor and maintain it in a safe condition and (B) remove residual heat.

IV. Corrective Action

On May 1, 1990, at 1715 hours, upon recognition of this potentially unanalyzed condition, the House Heating Steam System was removed from service. Plant modifications are being implemented prior to placing the House Heating Steam back in continuous operation and are expected to be complete by 12/1/90. These modifications reroute the auxiliary steam lines outside the Heating and Ventilation Room. Until the plant modifications are complete, an Operability Evaluation addresses selectively valving in the House Heating System for specific evolutions utilizing compensatory measures.

To insure other high energy sources have not been overlooked relative to their potential impact on equipment required for safe shutdown following a HELB, a mini review of the 1973 HELB study was immediately performed. The review concluded that there were no other major problem areas and the Auxiliary Steam System represented an isolated case. The review identified a concern that the HELB study was a 1973 snapshot, rather than a living document against which plant modifications are reviewed and determined acceptable. While the study, to date, has not found specific instances of plant modifications that adversely impacted the HELB study results, all areas having this potential will be validated. This issue is being pursued under a long term review program.

V. Additional Information

None