Rope Ferry Rd. (Route 156), Waterford, CT 06385



Northeast Nuclear Energy

Millstone Nuclear Power Station Northeast Nuclear Energy Company P.O. Box 128 Waterford, CT 06385-0128 (860) 444-4300 Fax (860) 444-4277

The Northeast Utilities System

MAR 2 5 1996

Docket No. 50-336 B15612

Re: 10 CFR 50.73

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

This letter forwards Licensee Event Report (LER) 96-010-00 documenting an event that occurred at Millstone Nuclear Power Station, Unit No. 2 on February 22, 1996. This LER is being submitted pursuant to 10 CFR 50.73(a)(2)(v).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

P. M. Richardson Director - Millstone Unit No. 2

Attachment: LER 96-010-00

CC:

- T. T. Martin, Region I Administrator
 - P. D. Swetland, Senior Resident Inspector, Millstone Unit No. 2
 - G. S. Vissing, NRC Project Manager, Millstone Unit No. 2

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NRC FORM (4-95)	1366	U.S. NUCLEAR REGULATORY COMMISSION								APPROVED BY OMB NO. 3150-0104 EXPIRES 04/30/98 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS MANDATOR INFORMATION COLLECTION REQUEST SO THES. REPORTED LESSON LEARNED ARE INCORPORATED INTO THE LICENSING PROCESS AND FE BACK TO INDUSTRY FORWARD COMMENTS REGARDING BURDER ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH T 6 F331. U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DI 20555.0001, AND TO THE FAPEWOORK REDUCTION PROJECT 3150-0104.							
(See reverse for required number of digits/characters for each block)									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 2									DOCKET NUMBER (2) PAGE (3) 05000336 1 of 3								
TITLE (4)	nadequ	ate Fl	ow Thr	rougt	h the Co	ntainment H	lydroger	n Monit	ors due	e to	the	Pressur	e Regulat	ors			
EVENT DATE (5) LER NUMBER (6)							REPORT DATE (7)				OTHER FACILITIES INVOLVED (8)						
MONTH	DAY	YEAR	YEAR	-	QUENTIAL		MONTH	DAY	YEAR	FACH	ILITY NAME			DOCKET NUMBER			
02	22	96	96		010	00	es	25	96	FACI	LITY NAME			DOCKET NUMBER			
OPERAT	TING		THIS R	EPORT	T'S SUBN	ITTED PURSU	ANT TO TH	HE REQU	IREMEN	TSO	F 10	CFR 5: (0	Check one o	r more) (11)	N N N N N N N N N N N N N N N N N N N	
20.2201(b)					20.2203(a)(2)(v)				50.73(a)(2)(i) 50.73(a)(2)(viii)								
POWE	ER		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)	.)(iii) 7		73.71		
			20	2203	8(a)(2)(ii)		20.2203	a)(4)				50.73(a)(2)(iv)		OTHER		
					50.36(c)(1)				50.73		2)(v)		ify in Abstrac NRC Form 36				
					50.36(c)(2)				50.73(a)(2)(vii)					AOA			
						LICENSEE	CONTACT	FOR TH	IS LER (1	12)							
NAME	G.	P. va	n Noord	denn	en, Nucl	lear Licensir	ng Super	visor			TELI	EPHONE NUM	(860)44				
	C	OMPL	ETE O	NE LI	INE FOR	EACH COM	PONEN	TFAIL	URE DE	SCF	RIB	ED IN TH	IS REPOR	RT (1:	3)		
CAUSE	SYSTE	A CON	PONENT	MAN	UFACTUREF	REPORTABLE TO NPRDS		CAUS	E SVS	STEM	CC	OMPONENT	MANUFAC	TURER	REPORT TO NP		
		01100		AL 07	DODT FU					-							
SUPPLEMENTAL REPORT EXPECTED (14) YES (If yes, complete EXPECTED SUBMISSION DATE).						NO		1	EXPE	CTI	ED T	MONTH		DAY	YEAR		

On February 22, 1996, at 2240 hours, with the plant in Mode 5 at 0% power, it was identified that containment hydrogen monitor flow could not be established with the containment at atmospheric pressure (0 psig). Hydrogen monitor flow may be required after a Loss of Coolant Accident (LOCA) with containment pressure equal to or greater than 0 psig and less than 10 psig. This requirement meets the provisions of NUREG-0737 and RG 1.97, Revision 2, as reflected in the licensing basis. The apparent cause of this event was an improper setting of the system pressure regulators and flow indicating valves. This event is being reported pursuant to the requirements of 10CFR50.73(a)(2)(v)(D), "any event or condition that alone could have prevented the fulfillment of the safety function of structures or systems that are needed to mitigate the consequences of an accident."

The corrective action is to revise the system calibration procedure to provide sample flow for containment pressure conditions representative of design basis accident conditions. An investigation is continuing to verify that PASS and the hydrogen monitoring system meet the design basis requirements. This investigation will be completed prior to the end of the current outage.

There were no immediate operator actions required in response to this event. Additionally, there were no automatic or manually initiated safety systems actuated as a result of this event.

NRC FORM 366A

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER)

TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)		PAGE (3)					
Millstone Nuclear Power Station Unit 2	05000336	Contraction of the local sector of the local s		QUENTIAL NUMBER		REVISION NUMBER	2 of 3	
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TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

I. Description of Event

On February 22, 1996, at 2240 hours, with the plant in Mode 5 at 0% power, it was identified that containment hydrogen monitor flow could not be established with the containment at atmospheric pressure (0 psig). Pursuant to the provisions of NUREG-0737 and RG 1.97, Revision 2, hydrogen monitoring may be required after a Loss of Coolant Accident (LOCA) with containment pressure equal to or greater than 0 psig and less than 10 psig.

An immediate report was made on February 22, 1996 at 2248 hours pursuant to the requirements of 10CFR50.72(b)(1)(v), "any event that results in a major loss of emergency assessment capability..."

There were no immediate operator actions required in response to this event. Additionally, there were no automatic or manually initiated safety systems actuated as a result of this event.

II. Cause of Event

The apparent cause of this event was an improper flow balance to account for all accident scenarios.

III. Analysis of Event

The pressure regulators which control the inlet pressure to the hydrogen monitors are currently set at 10 psig. The flow indicating needle valves which control hydrogen monitoring sample and bypass flow are currently set at 100 cc/min sample flow and 6500 cc/min bypass flow. With these pressure and flow settings, flow through the hydrogen monitor cannot be established when containment pressure is at or near atmospheric conditions and the containment hydrogen concentration could not be measured. The plant's emergency operating procedure (EOP 2532) requires the operation of the hydrogen recombiners when the hydrogen concentration is higher than the 1.5% limit. However, a false reading from the hydrogen monitors may fail to direct the operator to start the hydrogen recombiners.

A preliminary determination shows that (1) decreasing the setting of the pressure regulators from 10 psig to 5 psig, (2) increasing the hydrogen monitor sample flow through the flow indicating valve from 100 cc/min to 150 cc/min and, (3) decreasing the hydrogen monitor bypass flow through the flow indicating valve from 6500 cc/min to 2500 cc/min will allow adequate flow through the hydrogen monitors with containment pressure at or near atmospheric pressure (0 psig). It has also been determined that the system will still operate properly during all pressure inlet conditions.

This event is being reported pursuant to the requirements of 10CFR50.73(a)(2)(v)(D), "any event or condition that alone could have prevented the fulfillment of the safety function of structures or systems that are needed to mitigate the consequences of an accident."

The actual and the potential safety significance is low following a design basis event since (1) the hydrogen concentration will not reach 3% (the limit at which a containment purge is required) for 7 days, and (2) the Post Accident Sampling System (PASS) would be available to assess hydrogen concentration at atmospheric pressure.

NRC FORM 366A (4-95)	LICENSEE EVENT REPORT (TEXT CONTINUATION		J.S. NUCLEAR R	EGULATORY	COMMISSION
FACILITY NAME (1)	DOCKET NUMBER (2)		LER NUMBER	(6)	PAGE (3)
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Millstone Nuclear Power Station Unit 2 05000336 NUMBER	NUMBER	3 of 3
96 010		5015

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

IV. Corrective Action

The corrective action is to revise the system calibration procedure to provide sample flow for containment pressure conditions representative of design basis accident conditions. An investigation is continuing to verify that PASS and the hydrogen monitoring system meet the design basis requirements. This investigation will be completed prior to the end of the current outoge.

V. Additional Information

EIIS Codes

PASS	IP
Hydrogen Analyzer	IK
PAM	IP
CTMT	NH

Similar Events

LER 95-022-00 LER 96-008-00 LER 96-009-00

Manufacturer Data

None.