The Connecticut Light And Power Company Western Massachusetts Electric Company Holyphe Water Power Company Northeast Unifiles Service Company Northeast Nuclear End of Company

General Offices Selden Street. Berlin Connecticut

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

Re: 10CFR50.73(a)(2)(vii) January 30, 1991 MP-91-92

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 90-026-01

Gentlemen:

This letter forwards Licensee Event Report 90-026-01 which is being submitted as a revision to Licensee Event Report 90-026-00. Licensee Event Report 90-026-00 was submitted pursuant to 10CFR50.73(a)(2)(vii), any event where a single cause or condition caused two independent trains to become inoperable in a single system designed to mitigate the consequences of an accident.

Very truly yours.

NORTHEAST NUCLEAR ENERGY COMPANY

FOR: Stephen E. Scace Director, Millstone Station

BY:

Homen. Carl H. Clement

Millstone Unit 3 Director

.

SES/VRJ:mo.

Attachment: LER \$0-026-01

CC: T. T. Martin, Region I Administrator
W. J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1, 2 and 3
D. H. Jafrin, NRC Project Manager, Millstone Unit No. 3

20 (no2503709

9102070055 910130 PDR ADOCK 05000423

NRC Form Sec (6-EP)	U-S NUC	APPRIOVED DMB NO. 3150-0106 EXPIRES: 4.30762 Estimated burden per response to comply with this information oblection request 50.0.1xs. Forward comments reparting burden estimate to the Reports and Reports Management Branch (p-630), U.S. Nuclear Requiatory Commission, Washington, DC 20655, and to the Paperwork. Reputition Project (2)50-0106, Citice of Management and Budget, Washington, DC 20603							
FAGLITY NAME (*)	Millistone Nuclear Pov		NUMBER (2) PAGE (2)						
and demand a service service of the service service of the service ser	a design of the second strain and the second strain and the second strain second strain second strain second st	fication Inconsistency Du	10 0 4 2 3 10F 0 3						
Engineer	ing Interface	warman warma	NAME OF THE ADDRESS OF THE OWNER	and a second					
EVENT DATE 16	VEAR SECRETAL R	REPORT DATE 17	FACE TY NAMES	ES INVOLVED IR					
	N.KADER 1	LMEEP		0 8 0 0 0 1 1					
0 6 2 5 9 0	900026	0 1 0 1 3 0 9 1		0 6 0 0 0 0					
OPERATINO	THE REPORT IS BEIND BUT	HATTED PURKUANT TO THE REC	WHENEVITE OF 10 OFR & (Che	ek out, or more of the followings still					
MODE (V) 1	20 402(b)	20.402(0)	60.78(m)(2)(iv)	70.71(b)					
NEWER 11010	20 406(8)(1)(1)	50.38 (c) (1)	50.70(a)(2)(v)	79.71(0)					
	20-406(a)(1))) 20-405(a)(1)(0)	50.36(c)(2) 60.75(c)(2)	X 50.73 (a)(2)(e)(Abstract below and in Text INRC Form 366A1					
	school and	50.73(#)(2)(() 50.73(#)(2)(i)	50.73(k) (21)v(II) (A)						
	20-406(A)(3)(1)(v) 20-806(A)(3)(1)	\$0,73(a)(2)(iii)	60 73(8)(2)(VIII)(B) 60 73(8)(2)(K)						
	and the first of the station of the second	LICENSEE CONTACT FOR	nine se anno a general de la seconda de s	neneral concern serve and serve and serve and					
NAME			AREA	TELEPHONE NUMBER					
Vere R. JOS	eph. Engineer. Ext. 5	P71 Marine anno 1999 - Marine Anno 1999	21	0 3 4 4 7 - 1 7 9					
initie - sequenciation por entry of	store our as a series of the second sec	FOR EACH COMPONENT FAILUR	the compared operation and the property of the state on a second s	and the second state in the second					
C SVETEN COM	PONENT MANUFAC-	CAUSE CAUSE	SYSTEM COMPONENT MAN	RER TO NPHER					
				1.1.					
				1 1					
nonia akonakanakanakanakan	Handrad - Louis - Loui	EPORT EXPECTED (14)		MONTH DAY YEA					
processing in the procession is not a second or the second of the second		here and the second	SU	PECTED BMISSION LTE (16)					
Consider spin of the property statements a party	HE EXPECTED BUBMISSION	V DATE) X NO	NAMES AND A DESCRIPTION OF						
psia, the B Tri Specifications the plant rema 1630, on June temperature pr monitors. Du manufacturer continuous ser be operable pr documented in	ain Containment Hydr Limited Condition for ined in the LCO until 26, 1990. On July 22 rofile at the Containme ring some conditions. It was immediately d vice. The Containmen rovided that the ambie of a Justification for Co gineering interface bet	ogen Monitor failed a ca Operation (LCO) had be the B Train Hydrogen M 2, 1990, an inconsistency ent Hydrogen Monitors, the ambient temperature irrected that the Recombi- at Hydrogen Monitors we ent temperature is mainta- ontinued Operation on Ju	libration surveillance. The en entered at 0720 hou Monitor calibration was si was discovered between and the operating temper could exceed that recom- ner Building Ventilation re reviewed for operability and below 90 degrees F ly 25, 1990. The root c	rs on June 25, 1990, and uccessfully completed at the anticipated ambient rature requirements of the imended by the System be maintained in ty and were determined to ahrenheit. This finding was					

١.

14

*

.....

である

NRC Form 266A (6-69)	U.S. NUCLEAR RI	IQULATORY COMMESSION					£.8.	4/30/62			
LICE	NSEE EVENT REPORT (I TEXT CONTINUATION	ER)	10 21 유민 유민 11	dormati ommen no Rieps epuiato le Pape	ion d ta ta onta ny C shwb	urben bei rei obliebtion re egarding bur Mariagemer Jommission rk Reduction 1 and Budge	Nen e Sen e U Prij V Bi V Prij	(60 0 hr) estimate to anch (p=60 shington 1 jept (3160	E Forwa b the Res 301 U S 510 20551 -0104	ard oordia Nucol 5. ariq Cittica	10.
PACENTY NAME (1)	and the second	DOORET NUMBER 121				LEP NUMBE	D. 16			$\mathbb{P}(\mu)$	SE 13
				YEAR		BESLENTIA NUMBER		NEVISION NUMBER			
Millstone Nuc Unit 3	clear Power Station	0 6 0 0 0 4	2 3	910	-	0121	-	011	012	OF	013

1. Description of Event

At 1530 hours on June 25, 1990, while operating in Mode 1, at 100% reactor power, 587 degrees. Fahrenheit and 2260 psia the B Train Containment Hydrogen Monitor, failed a calibration surveillance. The applicable Technical Specifications Limited Condition for Operation (LCO) had been entered at 0720 hours on June 25, 1990, to place the B Train Hydrogen Monitor out of service for surveillance testing. The Recombiner Building Ventilation System was placed in service and the calibration surveillance was successfully completed on June 26, 1990. Because of this, it is suspected that ambient temperature contributed to the calibration failure. The plant remained in the LCO until the B Train Hydrogen Monitor successfully completed calibration at 1630 on June 26, 1990.

On July 22, 1990, while reviewing information on the Containment Hydrogen Monitors, it was discovered that an inconsistency exists between the ambient temperature profile at the Containment Hydrogen Monitors, and the operating temperature requirements of the monitors. Containment Hydrogen Monitors are located in the Heating, Ventilating, and Air Conditioning (HVAC) room in the Hydrogen Recombiner Building. Under most conditions, ambient temperatures at the monitors support proper operation of the monitors. During days of very high outdoor temperature, the HVAC room temperature. During normal or accident conditions, calculations estimate that Recombiner Building HVAC Room temperature could increase from 85 degrees Fahrenheit to 110 degrees Fahrenheit for up to eight hours, or 120 degrees Fahrenheit for up to four hours. Plant experience shows that for various outdoor temperatures, the HVAC room temperature remains below 86 degrees Fahrenheit. Hydrogen Monitors are designed to operate below 90 degrees Fahrenheit by the manufacturer's specification. Containment Hydrogen Monitors to accurately indicate containment hydrogen concentration.

Based on the July 22, 1990, discovery, it was immediately directed that the Recombiner Building Ventilation System be placed in continuous service. The Containment Hydrogen Monitors were reviewed for operability and were determined to be operable provided that ambient temperature in the area remains below 90 degrees Fahrenheit. This finding was documented in a Justification for Continued Operation on July 25, 1990.

11. Cause of Eveni

Root cause of the inconsistent design condition is inadequate engineering interface between the facilities design organization concerned with the temperature profile in the Recombiner Building HVAC room, and the design engineering organization which selected and installed the Containment Hydrogen Monitors.

III. Analysis of Event

This event is reportable under 10CFR50.73(a)(2)(vii), as an event where a single cause or condition caused two independent trains to become inoperable in a single system designed to mitigate the consequences of an accident. A high temperature condition in the Recombiner Building HVAC room caused both trains of Containment Hydrogen Monitors to become inoperable. The Post Accident Sample System would still be available to determine containment atmosphere hydrogen concentration. Containment Hydrogen Monitors are Regulatory Guide 1.97 Post Accident Monitors.

A Train and B Train Containment Hydrogen Monitors are maintained operable during Mode 1 (Power Operation), 2 (Hot Standby), and 3 (Hot Shutdown), and are placed in service following accidents which could increase hydrogen concentration in the containment atmosphere. Containment Hydrogen Monitors and the Post Accident Sample System are used to determine containment atmosphere hydrogen concentration in support of decisions to start Hydrogen Recombiners. If both Containment Hydrogen Monitors were inoperable following an accident, there is no significant safety concern since the Post Accident Sample System is a diverse method for determining containment atmosphere hydrogen concentration.

NAC Faith State U.E. NUCLEAR REQULATORY COMMISSION (6-86) LICENSEE EVENT REPORT (LER) TEXT CONTINUATION		2	APPRIOVED DIAB INC 3150-0104 EXPIRES 4/30.02 Estimated burden per response to comply with this information collection request 50 D tris. Forward comments requiring burden estimate to the Records and Reports Management Brahen to-500 U.S. Nucleal Requiritory Commission Washington DC 20585 and t the Raperwork Reduction Protect (S150-0104). Office z Managument and Budjet Washington DC 20503									
Millstone Nuclear Power Station Unit 3		DOOKET NUMBER (2)		ICAR () ABER () ATALY ALL ALL ALL ALL ALL ALL ALL ALL ALL								GE 10
		0 6 0 0 0 0	4 2	3 9	10		1216		0 1 1	013	OF	013
	Analysis has shown that if a single Hyd Basis Accident (DBA), the containmen Without any methods available to mean Recombiners could be started when the calculated to be less than 5 volume per in containment had not occurred.	n hydrogen conce sure containment e containment atr	entratio atmos nosphe	on w phet ete t	rill f re h rydf	email vdrog ogen	n belo en co conce	ne A ricer intra	volun stratio tion s	ne per n. Hy estin	cent. droge vated	n or
IV.	Corrective Action											
	The Recombiner Building Ventilation S placed on main control board indicator indication may become erratic if Reco. Fahrenheit. The doors of the Containing from the monitors. A visual surveillan Recombiner Building HVAC room will computer located in the main control r alarm should the Recombiner Building this temperature. Containment Hydroge operation. A design review of normal a Monitors was initiated.	is of Containment biner Building H nent Hydrogen M ce of the Contain be performed ea oom, which is co HVAC room ten en Monitors will h	Hvdr NAC onitor ment ch shi nhecu iperati ne mol	roger root 5 we Hyd fi to ed to ure e hitor	n C(n te roge ens) a ecc	oncen imperio in Mi iure o tempe ed 90 hour)	tration ature d to f parab rature degr to v	n to exce acili disp ility clai ees erify	aleri eeds 9 tate h blavs ii A p ta logi Fahre satisf	operat 0 deg sat re ersoni ersoni er, wi nheit actory	ors t rees mova i) ii) au Abo	bat 1 dibly yve
	A design change to install vented bases during the upcoming refueling outage (significantly lower the cabinet ambient inside the cabinets will be evaluated se ambient temperature ranges. Cabinet t additional compensatory action is neces	scheduled for Fe temperature. Th asonally to verify emperature profi	bruary e impi satisfa	, 19 act c actor	91) 111 3111	Thine chi erforn	s clesi inge c nance	gn c n ai ove	hange mbien r vary	is int temp ing ou	ende berati itside	re
V.	Additional Information											

There have been no similar events with the same root cause and sequence of events-

EIIS Codes

Systems

Containment Combustible Gas Control - BB

Containment Environmental Monitoring System - 1K

Hydrogen Recombiner Building

Components

Indicator, analyzer - Al

Monitor - MON .