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

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

January 30, 1996

B15527

Re: 10CFR50.73(a)

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

Reference: Facility Operating License No. DPR-65 Docket No. 50-336 Licensee Event Report 96-001-00

This letter forwards Licensee Event Report 96-001-00 required to be submitted within thirty (30) days pursuant to 10CFR50.73(a).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

Donald B. Miller, JA

Senior Vice President - Millstone Station

pjl

CC:

Attachment: LER 96-001-00

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

050151 9602050178 960130 PDR ADDCK 05000336 PDR

IFOR

NRC FOR (4-95)	M 366			E EVENT I	REPORT (I	LER)	IY COM	VISSION	ESTIM INFOR LEARI BACK ESTIM 6 F3 2055	MAT NED TO AATE 3), U 5-000	D BURDEN PEI ION COLLECT ARE INCORPO INDUSTRY. TO THE INFOR J.S. NUCLEAR 1. AND TO TH	EXPIRES 04 RESPONSE TO ION REQUEST: RATED INTO TH FORWARD (IMATION AND RE REGULATORY REGULATORY REPAPERWORK	/30/98 COMPLY 50.0 HR NE LICEN COMMEN COMMEN COMMEN REDUCT	WITH THIS M IS. REPORTED ISING PROCESS ITS REGARDIN MANAGEMENT ISION, WASHIN ON PROJECT IS	D LESSONS AND FED G BURDEN BRANCH (T- NGTON, DC 3150,0104)	
								DOCKEY NUMBER (2) PAGE (3)								
		Mills	stone N	luclear Pow	er Station L	Jnit 2					050003	336		1 of 4		
TITLE (4)	ILICENSEE EVENT REPORT (LER) ISSUED WITH THE DEVELOPMENT ALL PROPERTY AND THE DEVELOPMENT OF TO CERT NUMBER VER AND THE REPORT DATE (7) VER AND THE TERU AND THE TERU AND TO THE REPORT DATE (7) VER AND THE REPORT DATE (7) VER AND THE TERU AND THE TERU AND TO THE REPORT DATE (7) VER AND THE TERU AND TO THE REPORT DATE (7) VER AND THE TERU AND TO THE REPORT DATE (7) VER AND TO THE REPORT DATE (7) VER AND TO THE REPORT DATE (7) VER AND TO THE REPORT DATE (7)															
	Reacto	or Cool	ant Sys	stern Heatup	Rate Exce	eded Tec	hnical	Specif	icatio	on l	imit					
EVEN	T DATE	(5)	T	LER NUMBE	R (6)	REPO	RT DAT	E (7)	T		OTHER	FACILITIES	INVO	LVED (8)		
MONTH	DAY	YEAR	YEAR						FACI	UTY						
						1										
01	04	96	96	001	00	01	30	96	FACI		NAME		DOCK	ET NUME R		
OPERA	TING		THIS R	EPORT IS SUB	MITTED PURS	UANT TO	THE RE	UIREM	ENTS	OF	10 CFR 6:	(Check on		ore) (11)		
MODI	E (9)	1	-		T										(viii)	
POW	/ER															
LEVEL	(10)	100%	20	.2203(8)(2)(i)											(6)	
		1	20	.2203(a)(2)(ii)		20.2203	(a)(4)				50.73(a)	(2)(iv)	++	OTHER		
	dominin		20	.2203(a)(2)(iii)		50.36(c)	(1)				50.73(a)	(2)(v)	Spec	ify in Abstra	ct below	
			20	.2203(e)(2)(iv)		50.36(c)	(2)				50.73(a)	(2)(vii)	orin	NHC Form 3	56A	
	COLUMN PROCESSION AND ADDRESS	Statute of File and Select Artists	and the second se		LICENSEE	CONTACT	FOR TH	IS LER	(12)	Accessed in the local division of the local	Construction of the second second					
													- Chen			
	+					-				+						
		SUPP	LEMENT	AL REPORT E	PECTED (14)		1					MONTH		DAY	YEAR	
YES	a comol	ate EXP	ECTED S	URMISSION	TE)	NC	>	1	SUBN	liss	ION	04		02	96	
								1	1401							
the Rea during a period, requirer continu change This evi condition An Even adequate change	ctor Cr an RCS which ment to ed ope modes ent is I on prof nt Revi cy of t s to th	bolant i heatu was in o perfo ration is to full being m hibited iew Tei he corr e plant	System p on D n exces rm an o was no l powe eported by the am was rective operat	n (RCS) heat ecember 17 s of the Tec engineering of performed r operation w d pursuant to plant's Tech s established actions from ting procedu	up rate req , 1995. Th hnical Spec evaluation of until Janua while not ha of the requir nnical Speci d to review in the July 1 res, change	uirement le RCS hi dification of the str ary 4, 19 aving me ements of fications the circu 995 RCS as to the	s of Ta eatup r limit o ructura 096. Li t the a of 10Cl ." umstan S heatu plant h	echnica ate wa f 50°F I integr CO 3.0 ctions FR50.7 ces co ip even	al Spe as de per rity o 0.4 w of L(73(a) mcerr nt. P /cool	ecif tern hou f th vas CO (2)((2)(nin) tan dov	fication 3 mined to ur, and t ne RCS a violated 3.4.9.11 (i)(B), "re g this ev ned corr	3.4.9.1(a) be 72°F he action and its acc when the (a). eporting o ent, and t rective act	wer in a state cepta e plan f any co rev tions	e not sat one hour ment bility for at continu operation riew the include	isfied red to n or	
There v	vere no	auton	natic o	r manually ir	nitiated safe	ety respo	nses re	sulting	g from	m t	his even	t.				

.

100000	ORM 366	A		U	.S. NUC	LEAR R	EGULATORY	COMMISSIC
4-95)		LICENSEE F	VENT REPORT (LE	R)				
			CONTINUATION					
ACIL	ITY NAME	A PERSON NOT THE PERSON NET TO PERSON NET THE PERSO	DOCKET NUMBER (2)		R (6)	PAGE (3)		
	Mill	stone Nuclear Powe: Station Unit 2	05000336	YEAR		ENTIAL	REVISION	2 of 4
				96	0	01	00	
EXT	(If more s	pace is required, use additional copies of NRC Form	n 366A) (17)		+			
١.	Descrip	ation of Event						
	concle Limitie 1995	nuary 4, 1996 at 1815 hours, with the uded that the Reactor Coolant System (R ng Condition for Operation (LCO) 3.4.9.1 The engineering review determined that ded the LCO limit of 50°F per hour.	RCS) heatup rate requi	rement during	an Ri	ne Tec CS hea	hnical Spec atup on Dec	ifications ember 17
	comp excee was p Howe that ti perfor	t (ACR) was initiated to document the hi liance with requirements of the surveillar ded the LCO limit. As a result of the AC performed on December 18, 1995, which ver, this initial review did not consider the SDC system was secured. An addition med in January 1996.	nce procedure, they w CR, a subsequent engin in concluded that the R the Shutdown Cooling conal engineering review	rere no neering ICS he (SDC) w of th	t awar p revie atup ra injectio e RCS	e that w of th ate lim on tem heatu	RCS heatu he RCS hea it was not o perature at p data was	p rate had tup data exceeded the time
		The SDC system was secured at 0425 At the time that SDC was secured, the				FEOF		
	:	Shortiy after securing SDC, the RCS ic 155°F to 185°F					to increase	from
		The "B" RCP was started at 0448 and	the "D" RCP was sta	rted at	0451			
	•	At 0525, the RCS loop 2 cold leg tem					uring SDC)	
II.	Cause.	of Event						
	The c	auses of this event are described below.						
		The surveillance procedure and the con		1				
		heatup and cooldown rates are inadeq	uate for Technical Sp	ecificat	tion su	rveilla	nce monito	ring.
	•	The plant heatury procedure placed the excessive RCS heatup rate	plant into a configura	ation w	hich c	reated	the condition	ons for a

The surveillance procedure which is used to monitor RCS heatup and cooldown rates requires that the RCS heatup rate be calculated at least once every 30 minutes during a plant heatup. When SDC is in operation, this calculation uses the SDC suction temperature value (hot leg discharge from RCS). The SDC suction temperature instrument was selected since it provides a more stable (or smoother) temperature indication. When SDC is not operating, this calculation uses the average of the RCS loop 1 and loop 2 cold leg temperature values. The plant computer heatup/cooldown monitoring program was developed to be similar to the above procedure requirements, with one exception: the computer calculation uses a 30 minute

¥.

NRC FC (4-95)	ORM 366	sa"		U	I.S. N	UCLEA	RRE	GULATORY	COMMISSIC
			VENT REPORT (LE	R)					
FACILIT	Y NAM		DOCKET NUMBER (2)	[LE	RNUM	BER	(8)	PAGE (3)
	Mill	stone Nuclear Power Station Unit 2	05000336	YEAR				REVISION	3 of 4
				96		001		00	
TEXT //	H more s	spece is required, use additional copies of NRC Form	n 366A) (17)			gern og enn taand			
		ged value to determine the RCS heatup r tends to "smooth" or decrease the magni						e averagin	g of the
	monit secur temp	ig the December 17, 1995 RCS heatup, t toring program to satisfy the Technical Sp red, the SDC suction temperature was 18 eratures was 170°F. Using the logic of t ating mode to loop operating mode appea	pecification surveilland 1°F and the average the heatup/cooldown	ce requ of the	RCS	hents. S loop	Wi 1 a	hen SDC v nd loop 2	vas
	Thus,	, the magnitude of the RCS heatup rate w	vas concealed from th	e oper	ating	g shift	by	a combina	tion of:
	1	Switchion from SDC operation mode t	a loop oppration mode						
	1. 2.	Switching from SDC operating mode to Using the wrong temperature instrume cold leg temperatures (which is non-co monitor the RCS heatup rates, and	ent (SDC suction temp	eratur					2
	3.	The method used to calculate time ave	eraged RCS heatup rat	e valu	es				
	condi	plant heatup procedure (CP 2201) does n itions prior to the termination of SDC and ficient in the following areas:							
	•	There is no evaluation of the "thermal starting RCPs	inventory" of the RCS	s to es	tima	te the	hea	atup rate p	rior to
	•	No guidance is provided to increase th downcomer heatup rate when SDC is		erature	to	ninimi	ze t	he reactor	vessel
	1	There is no guidance provided on cont temperatures	rolling the heatup rate	e and s	ouro	ces of	hea	t input at l	low
	since powe condi	ig the December 17, 1995 RCS heatup, to the reactor had been shutdown for appro- er. This decay heat, combined with the h ition which approached 50°F per hour. A rators were ineffective in controlling the h F).	oximately 4 days follo eat input from two op Additionally, since the	wing 1 berating heatu	120 g RC p sta	days o Ps, cr arted n	of o reat	peration at ed a heatu 185°F, th	t full p rate ne steam
111.	Analys	is of Event							
	opera when 3.0.4	event is being reported pursuant to the re- ation or condition prohibited by the plant's the RCS heatup rate exceeded its limit a was violated when the plant continued to ctions of LCO 3.4.9.1(a).	s Technical Specificat and the corresponding	ions. action	LCO is w	3.4.9 ere no	.1(a t cc	a) was vio impleted.	LCO

LCO, TS section 3.4.9.1(a), requires that the RCS heatup rate be limited to " 50° F in any one hour period with T_{avg} above 140°F." This limit was exceeded on December 17, 1995 at 0525 when the RCS heatup rate was 72°F in a one hour period.

•,

(4-95)	Form Seea		U	.S. N	UCLEA	R RE	GULATORY	COMMISSI
14 001	LICENSEE E	VENT REPORT (LE	R)					
EA CII	ITY NAME (1)	CONTINUATION						
PACI	Millstone Nuclear Power Station Unit 2	DOCKET NUMBER (2) 05000336	YEAR	- marine	QUENT	-	(6) REVISION	PAGE (3
			96	NUMBE		R NUM	NUMBER	4 of 4
			90		001		00	
IV.	The required action when this LCO is not met, the temperature and/or pressure to within the li- determine the effects of the out-of-limit conditi determine that the Reactor Coolant System ren HOT STANDBY within the next 6 hours and re- psia, respectively, within the following 30 hour Since the violation of the RCS heatup rate limit 1995, the Limiting Condition for Operation (LC perform an engineering evaluation of the struct operation, was initiated and completed on Janu The requirements of TS LCO 3.0.4 were also w power operation while not having met the action Corrective Action An Event Review Team (ERT) has been formed of this event, and comsider the adequacy of t RCS heatup event (LER 50-336/95-030). Changes to the plant operating and surveillance changes and the RCS heatup event will be impli- the RCS heatup rate. These changes will be co- temperature less than 230°F.	limit within 30 minute ion on the structural i mains acceptable for o educe the RCS T _{avg} an rs." t was not identified b CO) was not entered. tural integrity of the F uary 4, 1996. violated when the plan ons of LCO 3.4.9.1 (a to review this event the corrective actions e procedures, and ope emented to allow ope	es; perintegrit continue d press y the o The re RCS an ht cont). The imple rator to rators	form y of led o sure opera- oquis d its tinue ERT mer	an en the R operat to les ating s red acce ad to c ed to c will en ted fo	ngin eac ions s th shift tion ptat chan esta ollow the y m	eering eva tor Coolan s or be in a han 200°F on Decem for this L0 bility for co age modes blish the r wing the J se procedu	Iluation t t System and 500 ober 17, 20, to ontinued to fuli oot caus luly 199 ure
V.	Additional Information							
	Similar Events							
	LER 95-030							
	Manufacturer Data							
	None							

*