

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 (203) 444-4300 Fax (203) 444-4277

The Northeast Utilities System Donald B. Miller Jr., Senior Vice President – Millstone

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

April 10, 1995 MP-95-114

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 95-011-00

This letter forwards Licensee Event Report 95-011-00 required to be submitted within thirty (30) days pursuant to 10CFR50.73(a)(2)(ii)(B).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

Donald B. Miller, Jr. Senior Vice President – Millstone Station

DBM/JK:dlr

Attachment: LER 95-011-00

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 1 (5-92	Form 36	36 LICE Sae revi	ENSEI	U.S. NU	DCLEAR R	EGULATI	DRY CO	SIMMC	SION	ESTIMATE COLLECT BURDEN BRANCH WASHING PROJECT WASHING	APP D BURDE ION REQU ESTIMATE (MNBB 7 ITON, DC (3150-1 TON, DC 2	ROVED E N PER RES JEST: 50.0 TO THE 714). U.S 20555-00 0104). OF 0503.	BY OMB NO XPIRES: 5/3 PPONSE TO CO HRS FORW. INFORMATION NUCLEAR IO1 AND TO T FRICE OF MU	2. 3150-0 1/95 MPLY WITH TH ARD COMME AND RECORD REGULATOR HE PAPERW ANAGEMENT	HIS INFO INTS RE DS MANA Y COM ORK RE AND	RMATION GARDING NGEMENT MISSION DUCTION BUDGET		
FACILITY NAME (1)											PAGE (3)							
Millstone Nuclear Power Static						tation U	tion Unit 2					1	05000336	00336 1		F 3		
	Έ	HC P	ressure	e Switches Not	Isolated	from F	RPS C	ircuitr	y									
EV	ENT DA	TE (5	1	LER NUMBER	R (6)	REPO	ORT D	ATE (7)	T		OTH	ER FAC	ILITIES INV	OLVED (8)			
MONTH DAY YEAR			YEAR	YEAR SEQUENTIAL REVISION			MONTH DAY YEAR			ILITY NAME		State Construction of the State	DC	DOCKET NUMBER				
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			20				50.73(a)(2)(ii)(B)			50.73(a)(2)(vill)(B)				Form 366A)				
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CAUSE SYSTEM CO			COMPONENT MANUFACTURER		REPOR	PRDS			AUSE	SYSTEM	TEM COMPONENT		MANUFA	CTURER	REPORT TO NPR			
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YES (If yes, complete EXPECTED SUBMISSION DATE)						X	NO NO	NO 14)				- E SU	EXPECTED MOR SUBMISSION DATE (15)		DAY	YEAR		
On Info eleo Sys resi Nor a S Des witt	March March prmatic ctro-1 stem (I ult of i n-QA afety S sign Ei h the F ut of th	umit to n 16, on No nydra RPS) nade with Syste ngine RPS to ne RF	1995 a bice 95 ulic 95 ulic co Turbin- quate c but pro m. eering is urbine 'S turbi	a. Le. approximately 16 t 1914 hours, y 5-10 "Potentia ntrol pressure e Trip Bistable: design control per considerat s reviewing the trip circuitry to ine trip circuitry to	single-space with the IL Loss of switches s (TTB) n which re- tion for is e followin its origin v. Corre-	ed typewritte plant de f Autom s PS-4 without esulted solation	en lines) (e - fue batic E 597A, adequ in the betw ntial c -CAT	ne, it ingine B, C, uate e down een vi forrect 1 statu	was ered & D lectri grac tal ai tive a us. b	determ I Safety are cor ical isol ling of a nd non actions;	a) res ling Q/	ollowin es Acti d to the This de input electric toring i A – CAT	g a review uation", the Reactor I esign defic device in 1 al circuits all compor 1 isolation	of NRC at Non – Protectio ciency is 1989 fror associat nents as	QA the n QA ed wi sociat	to th ted		

This is being reported pursuant to requirements of 10CFR 50.73 (a)(2)(ii)(B) as a condition that was outside the design basis of the plant.

(5-9)	LICENSEE EVENT REPORT TEXT CONTINUATION	APPROVED BY OMB NO. 3150-0104 EXPIRES: 5/31/95 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATIO COLLECTION REQUEST 50.0 HRS FORWARD COMMENTS REGARDIN BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMEN BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTIO PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGE WASHINGTON, DC 20503.											
FACILIT	Y NAME (1)	DOCKET NUMBER (2)			LER NUMBE	R (6)	PAGE (3)						
	Millstone Nuclear Power Station Unit 2	05000336		YEAR	SEQUENTIA	L REVISION NUMBER	-						
EXT	If more space is required, use additional copies of NRC Form 366A) ((Z)		95	- 011	- 00	02 OF	03					
1.	Description of Event												
	On March 16, 1995 at 1914 hours, with the plant de-fueled, it was determined, following a review of NRC Information Notice 95-10 "Potential Loss of Automatic Engineered Safety Features Actuation", that Non-QA Electro Hydraulic Control (EHC) pressure switches PS-4597A, B, C & D are connected to the RPS Turbine Trip Bistables (TTB) without adequate electrical isolation. This was identified as a potential issue upon completion of a review of the NRC Information Notice 95-10, by the Nuclear Safety Engineering Department.												
	The EHC pressure switches PS-4597A-D provide a "dry contact" input to the TTB located in RPS sensor channels A-D respectively. The purpose of the Turbine Trip Bistables is to provide a turbine trip (2/4) upon decreasing turbine electro hydraulic oil pressure. These EHC pressure switches PS-4597A-D were originally installed as QA-CAT 1 devices.												
l,	Cause of Event												
This design deficiency is the result of inadequate design control which resulted in the downgradir RPS input device in 1989 from QA to Non – QA without proper consideration for isolation between non-vital electrical circuits associated with a Safety System													
1.	Analysis of Event												
	This is being reported pursuant to requirements of:												
	10CFR50.73(a)(2)(ii)(B), Any event or condition that resulted in the condition of the nuclear power plant being: In a condition that was outside the design basis of the plant.												
	An assessment of the above event has determined that the EHC pressure switch circuitry is functional, but does not conform with IEEE 279–1971. Interpretation of this standard implies equipment that is used for both protective and control functions shall be classified as part of the protection system and shall meet all the requirements of IEEE 279. Therefore, these EHC pressure switches are required to be QA-CAT1 or installation of qualified QA-CAT1 signal isolators on the input to the RPS turbine trip bistables is required.												
	The safety significance of this event is minimal for the following reasons;												
	• credible failures (e.g. open, short-	to-ground, hot sho	rt) of the	e pres	sure swite	ches remain	unchanoed						
	 no new failure modes have been in 	troduced as a result	roduced as a result of downgrading the EHC pressure swi										
	 gross failure of the RPS is not poss channels). 	ible due to it's desig	gn (e.g. one sensor per trip unit, four redundant										
	 MP2 FSAR Accident Analysis, Section 14 "states that no credit is taken for a turbine trip causing reactor trip." 												
	 A failure of the EHC pressure switch would most likely cause the RPS TTB to assume the tripped swhich is also the safe condition. 												
	Corrective Action												
	Design Engineering is reviewing two pot associated with the RPS turbine trip circl isolation devices to the input of the RPS plant startup.	tential options for con uitry to its original Q/ turbine trip circuitry.	rrective A-CAT Correc	actior 1 statu tive a	i: a) rest is. b) ins ction will	oring all con talling QA – be complete	nponents CAT1 ed prior to						

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	Millstone Nuclea Unit 2	05000336		95	- 011 -	00	03 OF 03			
V.	M more space is required, use Additional Info	additional copies of NRC Form 386A	(17)							
	Similar LER's;									
	94-002-00,	Failure to Meet Acceptable Isolation Requirements Between Class IE Protection Instrument Channels.								
	EIIS Codes									
	Plant Protectio	n System - JC								

Pressure Switch - PS