

General Offices Selden Street, Berlin Connecticut

PO.BOX 270 HARTFORD, CONNECTICUT 06141-0270 (203)665-5000 February 18, 1994 MP-94-130

DONALD B. MILLER, Jr. SENIOR VICE PRESIDENT - MILLSTONE

Re: 10CFR50.73

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 94-001-00

Gentlemen:

This letter forwards Licensee Event Report 94 - 001 - 00 required to be submitted within thirty (30) days pursuant to 10 CFR50.73(a)(2)(i).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

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

DBM/RM:bjo

Attachment: LER 94-001-00

cc: T. T. Martin, Region I Administrator

P. D. Swetland, Senior Resident Inspector, Millstone Unit Nos. 1, 2 and 3 V. L. Rooney, NRC Project Manager, Millstone Unit No. 3

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LICENSEE EVENT REPORT (LER) (5-92) LICENSEE EVENT REPORT (LER) TEXT CONTINUATION			APPROVED BY OMB NO. 3150-0104 EXPIRES: 5/31/95 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20565-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104). OFFICE OF MANAGEMENT AND BUDGET. WASHINGTON, DC 20503.								
FACILITY	NAME (1)	DOCKET NUMBER (2)	L	LER NUMBER (6)					PAGE (3)		
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	Millstone Nuclear Power Station Unit 3	05000423		94	- 001	-	00	02 OF		03	
TEXT (#	more space is required, use additional copies of NRC Form 366A) (17)										
L.	Description of Condition										
	On January 20, 1994, with the plant at 86% power, it was discovered that the Overtemperature Delta T (OT $\Delta$ T) and Overpower Delta T (OP $\Delta$ T) CHANNEL CHECKs were not being adequately performed. The method of satisfying the CHANNEL CHECK surveillance requirement for OT $\Delta$ T channels included a comparison of the four OT $\Delta$ T trip setpoints. The method of satisfying the CHANNEL CHECK surveillance requirement for OP $\Delta$ T channels included a comparison of the four OP $\Delta$ T channels included a comparison of the four OP $\Delta$ T channels included a comparison of the four OP $\Delta$ T trip setpoints. However, the OT $\Delta$ T and OP $\Delta$ T CHANNEL CHECKs did not include the four loop $\Delta$ T channels. The OT $\Delta$ T and OP $\Delta$ T trips will actuate when any two of the four $\Delta$ T channels exceed the variable OT $\Delta$ T and OP $\Delta$ T trip setpoints. Therefore, the four $\Delta$ T channels should be included in the OT $\Delta$ T and OP $\Delta$ T CHANNEL CHECKs to ensure the process outputs, in addition to the trip setpoints, are within an allowed tolerance.										
II.	Cause of Condition										
	The root cause for the failure to adequately perform OT $\Delta$ T and OP $\Delta$ T CHANNEL CHECKs has been determined to be a program failure due to a procedure deficiency. Technical Specification Surveillance Requirement 4.3.1.1, Table 4–3.1, Functional Units 7 and 8, require a CHANNEL CHECK be performed every 12 hours on the OT $\Delta$ T and OP $\Delta$ T channels. It was believed that comparing the OT $\Delta$ T and OP $\Delta$ T meter indications on the main control board, would satisfy this CHANNEL CHECK. However, the OT $\Delta$ T and OP $\Delta$ T meters are actually the computed trip setpoints. The trip setpoints and the process signal need to be compared between loops.										
111.	Analysis of Condition										
	This condition is being reported in accordance with 10CFR50.73(a) (2) (i) (B), as an operation or condition prohibited by Technical Specifications. Technical Specification 3.3.1 provides the operability requirements for Reactor Trip System instrumentation and interlocks. Surveillance Requirement 4.3.1.1, Table 4–3.1, Functional Units 7 and 8, provide the surveillance requirements for the OT $\Delta$ T and OP $\Delta$ T channels. The OT $\Delta$ T and OP $\Delta$ T channel surveillance requirements require performing a CHANNEL CHECK at least once per 12 hours.									S	
	The Overtemperature $\Delta T$ trip provides co all combinations of pressure, power, coor automatically varied with: coolant temperature detectors, pressurizer press is then compared to actual $\Delta T$ for the as loops' actual $\Delta T$ exceeds their respective	bre protection to p plant temperature, erature (to correct lamic compensation soure, and axial po sociated loop. A r e loops' OT∆T trip	revent De and axial for tempton for pip wer distri eactor tri setpoints	epan l pov eratu ing c ibuti p wi s.	ture from I ver distrib ure induce delays fror on for eac II be initiat	Nuclea ution. d char n the o h loop ed wh	ate Boil The tri nges in core to b. This en two	ing (D p setp dens the lo trip se of the	NB) f boint i ity an op stpoin four	or s d	
	The Overpower $\Delta T$ trip provides assurance of fuel integrity under all possible overpower conditions, limits the required range for Overtemperature $\Delta T$ trip, and provides a backup to the High Neutron Flux trip. The setpoint is automatically varied with: coolant temperature (to correct for temperature induced changes in density and heat capacity of water), and rate of change of temperature (for dynamic compensation for piping delays from the core to loop detectors), to ensure that the allowable heat generation rate is not exceeded. A reactor trip will be initiated when two of the four loops' actual $\Delta T$ exceeds their respective loops' OP $\Delta T$ trip setpoints.								9		

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U.S. NUCLEAR REGULATORY COMMISSION (5-92) LICENSEE EVENT REPORT (LER) TEXT CONTINUATION			APPROVED BY OMB NO. 3150-0104 EXPIRES: 5/31/95 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 50.0 HRS FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714). US. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001 AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.							
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	There were no adverse consequences a such that even assuming one ∆T channel mitigation during accident and transient two of the four ∆T channels exceed the t the need for a reactor trip was required, channels. In addition, an alarm in the co auctioneered highest ∆T channel as con is expected that the successful performa OPERATIONAL TESTs would have also i next to the setpoint meters.	s a result of this ev el inoperable the s conditions. The C rip setpoints. In the the trip signal wou ontrol room is gene opared to the remaince of CHANNEL dentified an inope	vent. Ther ystem des DTAT and ( ne unlikely ild still be erated sho aining AT o CALIBRAT rable cond	e is ign OP. ev ger ould cha fIO ditic	sufficient re will ensure $\Delta T$ reactor tr ent that a $\Delta T$ herated from the differen nnels excee Ns and ANA on, since $\Delta T$	edundancy protection ips are initi channel fa the remain ce betwee d ±4%. Fo LOG CHAN meters are	availa and ated v alled, ning the n the urther NNEL phys	able, when and nree ∆1 more, i ically	r t	
IV.	Corrective Action									
	The immediate corrective action taken w additionally to implement supplemental implemented. The Mode 1 and Mode 2 been revised to include the ΔT CHANNE being reviewed to ensure existing CHAN requirements.	as to perform a Cl monitoring until Te Technical Specific L CHECK. All Tec NEL CHECK met	HANNEL C ochnical Sp ation logs hnical Spe hodology	CHE Dec , wi ecifi is in	ECK on the f ification log hich are per ication CHA h full compli	our AT cha changes w formed eve NNEL CHE ance with e	nnels vere ry shi CKs a existin	, and ft, have tre g	e	
V.	Additional Information									
	There have been no LERs similar to this event.									
	EIIS Codes									
	System	Compone	ent							
	JC (Plant Protection System)	None								