

General Offices Selden Street, Barlin Connecticut

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January 31, 1994 MP-94-78

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

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

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

Reference: Facility Operating License No. DPR-21 Docket No. 50-245 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 10CFR50.73(a)(2)(ii)(B).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

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

DBM/KEM:ljs

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

J. W. Andersen, NRC Acting Project Manager, Millstone Unit No. 1

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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104 EXPIRES: 5/31/95

LICENSEE EVENT REPORT (LER)

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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 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503

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in the actuation of the relays which monitor for degraded bus voltage conditions. Worst case minimum switchyard voltage is postulated to occur after the loss of Millstone Unit One generation when both Millstone Unit Two and Millstone Unit Three are off-line. In the unlikely event that this scenario occurs, the preferred source of off-site power would be automatically tripped, and LOCA mitigation would be accomplished utilizing the on-site sources of emergency power, the Diesel Generator and the Gas Turbine Generator. With either or both Millstone Unit Two and Millstone Unit Three on-line, it is postulated that electrical distribution system voltage would not decrease

low enough to actuate the degraded grid voltage relays upon loss of generation at Millstone Unit One.

actions are currently being finalized. No safety consequences resulted from this event.

Compensatory measures were taken to limit the potential for this postulated scenario, and long term corrective

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NRC , (5 - 9)	Form 366A U.S. NUCLEAR REGULAT - LICENSEE EVENT REPORT (L TEXT CONTINUATION	APPROVED BY OMB NO. 3150-0104 EXPIRES: 5/31/95 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST SUCHAS FORWARD COMMENTS REGATIONS BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.							
FACILIT	Y NAME (1)	DOCKET NUMBER (2)			LER NUMBER (6)			PAGE (3)	
				EAR	SEQUENTIAL NUMBER		REVISION		
	Millstone Nuclear Power Station Unit 1	05000245		94	- 001	-	00	02 0	OF 03
TEXT	(If more space is required, use additional copies of NRC Form 366A) (17) Description of Event		er en						
	On December 30, 1993, at 1435 hours, we that a potentially reportable condition exi- distribution system, various load studies of a postulated Loss of Coolant Accident Transformer (RSST), the preferred source case minimum value of 348 KV, results of combination with the normal loads which produce a voltage drop across the RSST emergency buses 14E and 14F. This low for degraded bus voltage conditions. We the loss of Millistone Unit One generation off—line. In the unlikely event that this so automatically tripped, and LOCA mitigati emergency power, the Diesel Generator of Two and Millstone Unit Three on—line, it decrease low enough to actuate the deg One.	sted. Using a cor were being condu- (LOCA) with power of off-site power the load study in a are not shed upon which is sufficient voltage would re- porst case minimum when both Millstor cenario occurs, the on would be accor- and the Gas Turbi is postulated that	mputer m ucted. O er being er. With s dicated t on receip nt to lowe sult in the n switchy one Unit e preferre mplished ine Gener electrica	ne o supp witcl hat L t of a r the e act vard Two ed so d util rator I dist	I of the Mi f the case olied by the hyard volt OCA mitin voltage a voltage is and Millst ource of of Izing the c With eith ribution s	listo s invite age gationt signation the posi- one ff-s one one one vste	ne Unit (volved th eserve Si assume on loads, gnal, con able at 4 relays wh stulated to Unit Thru- ite powe site sour- or both M m voltao	One elec e mitiga tation Se d at the in hbine to 160 volt hich mor o occur ee are r would ces of lillstone e would	trical tion ervice worst hitor after be Unit not
П.	Cause of Event								
	The Millstone Unit One Electrical Distribution previously prepared Degraded Voltage Contract voltage profiles using the more sophisticated analysis tools and more electrical distribution system voltage profiles and profiles with the system voltage profiles of the system voltage profiles and the system voltage profile	Calculations. A co OPAL computer of ethods allowed fo	mmitmer	nt wa	is made fo	ne a	ving the lavailable.	EDSFI to The us	e of
HI.	Analysis of Event								
	This event is being reported in accordant the reporting of any event or condition the plant. The preferred source of off-site p Transformer (RSST). This transformer, at adequately designed, immediately availa the worst case minimum value of 348 KV which are not shed upon receipt of an ad RSST which is sufficient to lower the volt low voltage will result in the actuation of the unlikely event this scenario occurs, the tripped, and LOCA mitigation would be a	at results in a cor ower for Millstone s defined by certa ble source of off- , LOCA mitigation cident signal, cor age available at 4 the relays which r ne preferred source	dition that Unit On in regula -site pow loads, in mbine to 160 volt monitor fo ce of off-	at is e is t tory ver. 1 proc emei or de site	outside the he Resen criteria, sl With switc nbination luce a vol gency bu graded bu power wo	ie de ve S houl shya with tage ises us v buld	esign bas tation Se Id be a re rd voltag the norr drop ac 14E and oltage co be autor	sis of the rvice liable, e assum nal load ross the 14F. Th onditions natically	ed at s his s. In
IV.	Corrective Action								
	Immediate corrective actions were taken Operations Departments to ensure switc adequate emergency bus voltage during require Millstone Unit One to enter a Lim	hyard voltage ren accident condition	nained wi ons. This	ithin	acceptab	le lir	mits to en	sure	90

require Millstone Unit One to enter a Limiting Condition for Operation (LCO), in accordance with Technical Specification 3.9.B.3 requirements, to declare the RSST inoperable whenever both Millstone Unit Two and Unit Three are off-line. This guidance was in place until the start of the current refueling and maintenance outage, which began January 15, 1994.

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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FACILITY NAME (1)	DOCKET NUMBER (2)		LER NUMBER (6)	PAGE (3)		
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TEXT (If more space is required, use additional copies of NRC Form 386A) (17)

This issue is presently under evaluation. It is currently our intention to address resolution of this issue prior to startup from the current refueling outage. Potential solutions to this scenario include the shedding of non-essential loads to preclude degraded bus voltage during accident conditions. A supplement to this LER will provide the details of the final resolution.

V. Additional Information

NRC Form 366A (5-92)

There were no similar events.