

General Offices-Selden Street, Berlin Connecticut

P.O.BOX 270 HARTFORD, CONNECTICUT 06141-0270 (203)665-5000 February 1, 1994 MP-94-86

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

Re: 10CFR50.73(a)(2)(v)(c)

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 94-003-00

Gentlemen:

This letter forwards Licensee Event Report 94-003-00 required to be submitted within thirty (30) days pursuant to 10CFR50.73(a)(2)(v)(c).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

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

DBM/JS:ljs

Attachment: LER 94-003-00

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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ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On January 3, 1994, at 1013 hours, with the plant operating at 94% power, during the performance of routine surveillance testing of the Steam Tunnel Ventilation Radiation Monitoring System, monitor RIS-1705-39A failed to initiate a high radiation trip within allowable limits. With no adjustments or repairs, three successive checks of the monitor then met the acceptance criteria and RIS-1705-39A was returned to service. Surveillance testing proceeded successfully on monitor RIS-1705-39B.

At 1420 hours, during a subsequent surveillance to reverify Channel 'A' operability. RIS-1705-39A again failed to trip within the acceptance criteria, and the monitor was declared inoperable from the time of the original failure, 1013 hours. During this period, RIS-1705-39B had been bypassed for testing, resulting in both channels of the Steam Tunnel Ventilation Radiation Monitoring System being inoperable for a four minute period.

I&C personnel affected repairs and, on January 4, 1994, the monitor was declared operable and returned to service under an increased surveillance frequency. Both RIS-1705-39A and RIS-1705-39B had been previously scheduled for end of qualified life replacement during the current refueling outage, which commenced on January 15, 1994. This replacement will be completed prior to startup.

No safety consequences resulted from this event.

NRC F (5-92	LICENSEE EVENT REPORT (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 (MNBS 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.										
FACILITY	Y NAME (1)	DOCKET NUMBER (2)	L		LER NUMBER (6		PAGE (3)					
				YEAR	SEQUENTIAL NUMBER	REVISION						
	Unit 1	05000245		93	- 003 -	00	02	OF	03			
TEXT	(If more space is required, use additional copies of NRC Form 366A) (17)											
L.	Description of Event											
	On January 3, 1994, at 1013 hours, with routine surveillance testing of the Steam RiS-1705-39A failed to initiate a high r repairs, three successive checks of the t RIS-1705-39A was declared operable conducted on monitor RIS-1705-39B,	the plant operatin Tunnel Ventilation adlation trip within monitor then met t and returned to s and the monitor v	ng at 94% n Radiation allowate the accept ervice. S vas return	6 pow on Mo ble lim otano Survei ned to	er, during th onitors (STVF its. With no e criteria. At llance testing o service at 1	e perform RM), moni acjustme 1030 hou g was suc 1034.	ance (tor nts or irs, cessfu	of Illy				
	At 1420 hours, after review of the surveil of monitor RIS-1705-39A. During the acceptance criteria. Based on the seco of the original failure, 1013 hours. Durin testing, resulting in the Steam Tunnel Ve four-minute period.	lance data, it was performance of th nd failure, RIS – 17 ig this period, RIS antilation Radiation	decided is surveil 705 – 39A – 1705 – Monitor	to re- llance was 39B t ing S	verify the hig , the monito declared ino ad been by ystem being	h radiation r failed to perable fr bassed for inoperab	n trip s trip wi om th surve le for a	setting thin e time sillanci a	Ð			
	I&C personnel troubleshot the monitor a of RIS-1705-39A were performed, and but not operable status.	and replaced the h I the monitor was	iigh level returned	trip a to se	mplifier. Thr rvice at 1655	ree succes hours lo	ssful c a func	hecks tional				
	On January 4, 1994, at 0817 hours, after successfully completing the surveillance on the monitor, RIS – 1705 – 39A was declared operable and returned to service under an increased frequency (every other day) surveillance monitoring program. No failures were encountered during the period of increased surveillance frequency from January 5 to 15, 1994, at which time the plant was shutdown for a scheduled refueling and maintenance outage.											
П.	Cause of Event											
	The root cause of this event has been at be positively identified due to its intermi successful surveillance testing suggests most likely the high level trip amplifier.	ttributed to equipn tlent occurrence, e s the fault is within	nent failu evidence the high	from level	Ithough the troubleshoo trip circuit o	specific fa sting and s f RIS-17(ult co subsec)5 – 39	uld no quent A,	t			
40.	Analysis of Event											
	This event is reportable pursuant to $10CFR50.73(a)(2)(v)(C)$, which requires the reporting of any event or condition that alone could have prevented the fulfillment of the safety structures or systems that are needed to control the release of radioactive material. Immediate notifications were performed in accordance with $10CFR50.72(b)(2)$ (iii).											
	The objective of the surveillance test is to functionally test and calibrate the steam tunnel ventilation radiation monitors' indication and alarm setpoints. The surveillance ensures proper operation of the monitor's photomultiplier tube and electronics by directly inputting an artificial light source of variable intensity into the photomultiplier tube of the scintillation detector and verifying proper response of the meter and high level trip circuit. The monitor under test is bypassed such that the simulated trip does not result in an actual trip signal.											
	In the event of a steam tunnel leak, a tri will isolate Reactor Building and Steam system to prevent an uncontrolled relea comprised of two identical Nuclear Mea monitors. A high radiation trip from eith ventilation isolation and initiate the SBG in the system being inoperable.	p from either of the Tunnel ventilation use of radioactive g surements Corpo her monitor or dow T system. A failur	e two ste and initi- gases to ration mo- nscale tr re of one	arn tu ate th the e odel (rips fr moni	innel ventilat e Standby G nvironment GA-2TO gar om both will tor to trip, th	tion radiat las Treatm The syste nma scint initiate the erefore, w	ion ma ient (S illation e auto ill not	onitors BGT) matic result				

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FACILITY	Y NAME (1)	DOCKET NUMBER (2)		LER NUMBER (6		PAGE (3)					
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	Millstone Nuclear Power Station Unit 1	05000245	93	- 003 -	00	03 C	F 03					
TEXT	(If more space is required, use additional copies of NRC Form SB6A) (17)	The structure star	14. CT/04									
	of the surveillance and existed for a brief bypassed and surveilled immediately foll radiation trip setpoint, it is unknown if the the channel 'B' monitor.	period of time. N lowing three succ fault existed in th	loreover, bec essful checks he channel 'A	ause RIS-1 of the RIS- monitor du	1705-39B 1705-39J ing the br	was A high ief testin	g of					
IV.	Corrective Action											
	I&C personnel performed the troublesho meter response to the artificial light source trip portion of the monitor and replaced to replacement, the monitor passed three of declared the monitor available but not op On January 4, 1994, the monitor was che Channel 'A' was returned to service and surveillance monitoring program was un shutdown on January 15, 1994. No failu	oting of RIS – 170 ce, the technician he integrated circ onsecutive survei perable pending fi ecked satisfactoril declared operable dertaken to ensur res were encount	5-39A on Ja s concluded t uit high level llances and w urther evaluat y and declare e. An increas e equipment ered during th	nuary 3, 199 the fault was trip amplifier vas returned ion of the re ed operable ed frequenc operability u his period.	 Based in the high Followin to service pair. at 0817 ho y (every of ntil the sch 	on prope n radiatic g the chi Operat ours. ther day) neduled	ar in p ions					
	Both RIS-1705-39A and RIS-1705-39B had been previously scheduled for end of qualified life											
	replacement during the current refueling outage, which commenced on January 15, 1994. This replacement will be completed prior to startup.											
V.	Additional Information											
	None.											