

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Millstone Point Unit 2 DOCKET NUMBER (2) 0 5 0 0 0 3 3 6 1 OF 0 2

TITLE (4) Radiation Monitors Out of Calibration

EVENT DATE (3)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)			
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)	
1	0	18	8	4	8	4	0	1	0	0	0	0
									NA		0	5
									NA		0	5

OPERATING MODE (9) THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

20.402(b)	20.408(a)	50.73(a)(2)(iv)	73.71(b)
20.408(a)(1)(i)	50.38(a)(1)	50.73(a)(2)(v)	73.71(a)
20.408(a)(1)(ii)	50.38(a)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 365A)
20.408(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(vii)(A)	
20.408(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(vii)(B)	
20.408(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(viii)	

LICENSEE CONTACT FOR THIS LER (12)

NAME: Ralph W. Bates Unit 2 Senior Engineer

TELEPHONE NUMBER: 2 0 3 4 4 7 - 1 7 9 1

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS
X	I	L D I E T	R 1 2 0	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

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

During steady state power operation routine surveillance performed on the four channels of the spent fuel storage pool area radiation monitors showed calibration problems existed. On four separate occasions defective photomultiplier tubes were discovered that resulted in replacement and/or recalibration. Despite the calibration problems there were never less than three operable area radiation monitors at any time and thus the requirement to have two operable radiation monitors was always satisfied and the unit continued to operate in accordance with Technical Specifications sections 3.3.3.1 and 3.9.1.3.

This report is being submitted in accordance with 10CFR50.73.a.2.v, for the potential for the radiation monitors to fail to fulfill the safety function needed to mitigate the consequences of an accident. Since all irradiated fuel assemblies have been stored for more than one year all radioactive iodine isotopes have completely decayed reducing the potential consequences to zero.

A rescheduling of the calibration surveillances for these radiation monitors have been performed to prevent a recurrence. By staggering the due dates for the calibration checks over the refueling period (18 months) the calibrations will never all come due in the same monthly period.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Millstone Point Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 3 3 6 8 4	LER NUMBER (8)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 4	- 0 1 0	- 0 0	0 2	OF 0 2

TEXT (If more space is required, use additional NRC Form 388A's) (17)

The following table shows the effect of the low values on the radiation monitors with as found data.

<u>RM</u>	<u>Indication</u>	<u>Tech. Spec. Setpoint</u>
8157	failed	100 mr/hr
8139	110 mr/hr	100 mr/hr
8142	160 mr/hr	100 mr/hr
8156	110 mr/hr	100 mr/hr

During 100% steady state power operation a routine refueling surveillance was performed on the four channels of the spent fuel storage pool area radiation monitors. On October 18, 1984 the calibration check performed on the radiation monitor RM 8157 showed the monitor was inoperable with a defective photomultiplier tube. The tube was replaced, and the monitor was restored to service. The same calibration check was performed on radiation monitor RM 8139 on October 23, 1984 and its detector photomultiplier tube was found to be reading low and was replaced. The unit was then recalibrated and returned to service. On October 24, 1984 radiation monitor RM 8142 was checked in the same manner and was also found with low readings from its photomultiplier tube which was replaced. The radiation monitor was recalibrated and restored to service. On October 26, 1984 radiation monitor RM 8156 was checked using the standard calibration procedure and was found to be out of calibration. It was subsequently recalibrated and returned to service.

Records show that there were never less than three operable spent fuel storage pool areas radiation monitors at any time. Since two monitors are required to be operable to mitigate the consequences of a fuel handling accident whenever irradiated fuel assemblies are in the storage pool, the unit operated in accordance with Technical Specifications, sections 3.3.3.1 and 3.9.1.3.

This report is being submitted in accordance with 10CFR50.73.a.2.v, since the potential could have existed for these radiation monitors to fail to fulfill the safety function needed to mitigate the consequences of an accident. Further review shows that the mitigating action taken by the radiation monitors in a design basis fuel handling accident is to realign the ventilation exhaust to the Enclosure Building Filtration System (EBFS) charcoal filters to remove radioactive iodines prior to release through the unit 1 stack. Since all irradiated fuel assemblies have been stored for more than one year, all radioactive iodine isotopes have completely disappeared by the natural decay process, making the potential consequences negligible.

To prevent a recurrence of this type the scheduling of the refueling calibration surveillance has been altered by staggering the next due dates for these calibration checks. As a result the rescheduling will not allow the calibration checks of these four radiation monitors to all fail due in the same monthly period.

NORTHEAST UTILITIES



THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HOLYOKE WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

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MP-6444

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

Reference: Facility Operating License No. DPR-65
Docket No. 50-336
Reportable Occurrence RO 50-336/84-010

Gentlemen:

This letter forwards the Licensee Event Report 84-010 required to be submitted within thirty days pursuant to 10CFR 50.73.a.2.v, the potential for a failure to fulfill the safety function needed to mitigate the consequences of an accident.

Very truly,

NORTHEAST NUCLEAR ENERGY COMPANY

FOR: Edward J. Mrocza
Station Superintendent
Millstone Nuclear Power Station

A handwritten signature in cursive script, appearing to read 'Wayne D. Romberg'.

BY: Wayne D. Romberg
Unit 1 Superintendent
Millstone Nuclear Power Station

EJM/RWB:ejl

Attachment: LER RO 50-336/84-010

cc: Dr. T. E. Murley, Region I

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