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ACCESSION NBR: 9004160214 DOC. DATE: 90/04/02 NOTARIZED: NO DOCKET #
 FACIL: 50-336 Millstone Nuclear Power Station, Unit 2, Northeast Nu 05000336
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 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 89-009-01: on 891025, Radiation Monitor RM 8262 inlet valve (2-AC-82) found closed.

W/9 ltr.

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 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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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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April 2, 1990
MP-90-322

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

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 89-009-01

Gentlemen:

This letter forwards Licensee Event Report 89-009-01 required to be submitted pursuant to paragraph 50.73(a)(2)(i). This update report is submitted to reflect a change in the description and analysis of event.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY


Stephen E. Scace
Director, Millstone Station

SES/KDD:ljs

Attachment: LER 89-009-01

cc: T. T. Martin, Region I Administrator
W. J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1, 2 and 3
G. S. Vissing, NRC Project Manager, Millstone Unit No. 2

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LICENSEE EVENT REPORT (LER)

Estimated burden per response to comply with this information collection request: 50.0 hrs. Forward comments regarding burden estimate to the Records and Reports Management Branch (p-530), U.S. Nuclear Regulatory Commission, Washington, DC 20555, and to the Paperwork Reduction Project (3150-0104), Office of Management and Budget, Washington, DC 20503.

FACILITY NAME (1) Millstone Nuclear Power Station Unit 2		DOCKET NUMBER (2) 0 5 0 0 0 3 3 6	PAGE (3) 1 OF 0 3
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TITLE (4)
Radiation Monitor RM 8262 Inlet Valve (2-AC-82) Found Closed

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)														
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES														
1	0	2	5	8	9	8	9	-	0	0	9	-	0	1	0	4	0	2	9	0	0 5 0 0 0 0		
												0 5 0 0 0 0											

OPERATING MODE (9) 5	THIS REPORT IS BEING SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)										
POWER LEVEL (10) 0 0 0	20.402(b)	20.402(c)	50.73(a)(2)(iv)	73.71(b)							
	20.405(a)(1)(I)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)							
	20.405(a)(1)(II)	50.36(c)(2)	50.73.(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)							
	20.405(a)(1)(III)	X 50.73(a)(2)(I)	50.73(a)(2)(viii)(A)								
	20.405(a)(1)(IV)	50.73(a)(2)(II)	50.73(a)(2)(viii)(B)								
20.405(a)(1)(IV)	50.73(a)(2)(III)	50.73(a)(2)(x)									

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME Keith D. Deslandes, Engineer, Ext. 4421	AREA CODE 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	

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

On October 25, 1989, at 1849 hours with the plant in cold shutdown mode 5, 0% power, it was determined that Containment Purge was in operation without an operable radiation monitor capable of isolating the purge on a high radiation signal. The sample inlet isolation valve (2-AC-82) for the Facility 2 radiation monitor RM8262 was found closed.

At the time of occurrence the Facility 1 emergency power source (diesel generator) was taken out of service on October 23, 1989, at 1428 hours. This rendered the Facility 1 radiation monitor RM8123 inoperable, because it was without an emergency power source for its roots blower. Although, emergency power was not available, the radiation monitor remained in service. Radiation monitor RM8123 was taken out of service October 23, 1989, at 2109 hours for maintenance and returned to service October 24, 1989, at 0137 hours. The radiation monitor was taken out of service again for maintenance on October 24, 1989, at 1310 hours and returned to service October 25, 1989, at 1800 hours. During both maintenance activities the Containment Purge was isolated.

Subsequent review showed radiation monitor RM8262 was taken out of service on October 21, 1989, for calibration under procedure SP 2404AL. Restoration from the procedure failed to open sample inlet isolation valve 2-AC-82.

Therefore, no operable Containment Atmosphere - Particle/Gaseous radiation monitor was available for 52 hours. During this period of time, Containment Purge was in service for 19 hours and isolated for 33 hours.

Technical Specification Limiting Condition for Operation 3.3.3.1 titled "Radiation Monitoring," and 3.3.2.1 titled "Engineered Safety Feature Actuation System Instrumentation" were not entered. Limiting condition for Operation 3.3.3.1 requires a grab sample at least once per 24 hours or the use of a constant air monitor. Limiting Condition for Operation 3.3.2.1 requires the Containment Purge Valves to be maintained in the closed position.

It should be noted that Health Physics conducted routine outage grab samples of Containment atmosphere with no unusual results during the time the sample inlet isolation valve 2-AC-82 was closed. Also an area radiation monitor is located in Containment on the refuel bridge which continuously monitors the Containment area.

The sample inlet isolation valve 2-AC-82 was opened and radiation monitor RM8262 was declared operable.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

Estimated burden per response to comply with this information collection request: 50.0 hrs. Forward comments regarding burden estimate to the Records and Reports Management Branch (p-530), U.S. Nuclear Regulatory Commission, Washington, DC 20555, and to the Paperwork Reduction Project (3150-0104), Office of Management and Budget, Washington, DC 20503.

FACILITY NAME (1) Millstone Nuclear Power Station Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 3 3 6	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 9	0 0 9	0 1	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 366A's) (17)

I. Description of Event

On October 25, 1989, at 1849 hours with the plant in cold shutdown mode 5, 0% power, it was determined that Containment Purge was in operation without an operable radiation monitor capable of isolating the purge on a high radiation signal. The sample inlet isolation valve (2-AC-82) for the Facility 2 radiation monitor RM8262 was found closed.

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Subsequent review showed radiation monitor RM8262 was taken out of service on October 21, 1989, for calibration under procedure SP 2404AL. Restoration from the procedure failed to open sample inlet isolation valve 2-AC-82.

Therefore no operable Containment Atmosphere - Particle/Gaseous radiation monitor was available for 52 hours. During this period of time, Containment Purge was in service for 19 hours and isolated for 33 hours.

Below is the sequence of events, starting at the date Radiation Monitor RM8262 was calibrated, to the date the isolation valves were found closed.

10/21/89 time unknown	RM8262 calibration, isolation valves closed
10/23/89 at 1428 hours	"A" Diesel secured, RM8123 inoperative.
10/23/89 at 2109 hours	Secured Containment Purge
10/24/89 at 0137 hours	Started Containment Purge
10/24/89 at 1310 hours	Secured Containment Purge
10/25/89 at 1800 hours	Started Containment Purge
10/25/89 at 1849 hours	RM8262 isolation valves found closed

Technical Specification Limiting Condition for Operation 3.3.3.1 titled "Radiation Monitoring," and 3.3.2.1 titled "Engineered Safety Feature Actuation System Instrumentation" were not entered. Limiting condition for Operation 3.3.3.1 requires a grab sample at least once per 24 hours or the use of a constant air monitor. Limiting Condition for Operation 3.3.2.1 requires the Containment Purge Valves to be maintained in the closed position.

It should be noted that Health Physics conducted routine outage grab samples of Containment atmosphere with no unusual results during the time the sample inlet isolation valve 2-AC-82 was closed. Also an area radiation monitor is located in Containment on the refuel bridge which continuously monitors the Containment area.

The sample inlet isolation valve 2-AC-82 was opened and radiation monitor RM8262 was declared operable.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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FACILITY NAME (1) Millstone Nuclear Power Station Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 3 3 6	LER NUMBER (6)			PAGE (3)		
		YEAR 8 9	SEQUENTIAL NUMBER 0 0 9	REVISION NUMBER 0 1			

TEXT (If more space is required, use additional NRC Form 366A's) (17)

II. Cause of Event

During the performance of the calibration procedure SP 2404AL, valve 2-AC-82 was closed. During the performance of the rest of the procedure, it was determined by the person performing the calibration that a change to the way the radiation monitor was isolated was appropriate. The new isolation method provided in change 1 to procedure SP 2404AL called for the closure of the radiation monitor inlet valve, 2-AC-70, and radiation monitor outlet valve, 2-AC-74, by Operations. This change moved the isolation boundary from the inside the recirculation line on the skid to outside the recirculation line.

When the change was implemented and the isolation boundary moved, 2-AC-82 was not reopened. The calibration activity was then completed by different personnel. They performed the procedure guidance provided by the change to have operations re-open valve 2-AC-70 and 2-AC-74. This completed the activities required by the procedure but left the radiation monitor isolated by the closure of valve 2-AC-82.

The root cause of this event is personnel error. Prior to making a procedure change, valve 2-AC-82 should have been opened, which would have restored the radiation monitor RM8262 valve lineup to normal operation. Once restored and the procedure change approved, the surveillance could have been completed using the new isolation boundary.

III. Analysis of Event

This event is being reported pursuant to the requirements of paragraph 50.73(a)(2)(i) which requires reporting of any operation prohibited by the plant's Technical Specifications. During the time radiation monitor RM8262 was isolated, radiation monitor RM8123 was in service without its emergency power source and would have performed its safety function, which is to isolate Containment Purge on a high radiation signal. During the time radiation monitor RM8123 was secured for maintenance, the Containment Purge was isolated.

Health Physics personnel conducted routine outage grab samples of Containment atmosphere during this period with no unusual results. Also, an area radiation monitor is located in Containment on the Refuel Bridge which continuously monitors the Containment area. Although, the Limiting Condition for Operation, LCO, (3.3.3.1) was not entered, the actions required by the LCO were being performed.

Therefore, there are no safety consequences as a result of this occurrence.

IV. Corrective Action

Immediate action taken was to open isolation valve 2-AC-82, restoring sample flow, which restored radiation monitor RM8262 to operable status. The error of making changes to procedures prior to restoring the system to original conditions has been discussed with the personnel involved, and as a topic for the entire Instrument and Control department.

Also steps have been added to the restoration section of calibration procedure SP 2404AL and SP 2404AM which will verify positive sample flow indication at the radiation monitor skid and verify no low flow or high flow alarms exist.

V. Additional Information

No similar events.

EHS Codes ()
IL - Radiation Monitoring System