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ACCESSION NBR: 8712150437 DOC. DATE: 87/12/11 NOTARIZED: NO DOCKET #
 FACIL: 50-263 Monticello Nuclear Generating Plant, Northern States 05000263
 AUTH. NAME AUTHOR AFFILIATION
 YURCZYK, P.A. Northern States Power Co.
 MUSOLF, D. Northern States Power Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-018-00: on 871111, ESF actuations due to inadvertent trip of spent fuel pool monitor.

W/8 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

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	NRR/DRIS/SIB	1 1	NRR/PMAS/ILRB	1 1	
	<u>REG FILE</u> 02	1 1	RES DEPY GI	1 1	
	RES TELFORD, J	1 1	RES/DE/EIB	1 1	
	RGN3 FILE 01	1 1			
EXTERNAL:	EG&G GROH, M	5 5	FORD BLDG HOY, A	1 1	R
	H ST LOBBY WARD	1 1	LPDR	1 1	I
	NRC PDR	1 1	NSIC HARRIS, J	1 1	D
	NSIC MAYS, G	1 1			S

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) | DOCKET NUMBER (2) | PAGE (3)
Monticello Nuclear Generating Plant | 051010102631 | OF 03

TITLE (4)
Engineered Safety Feature Actuations Due To Inadvertent Trip Of Spent Fuel Pool Monitor
EVENT DATE (5) | LER NUMBER (6) | REPORT DATE (7) | OTHER FACILITIES INVOLVED (8)
MONTH | DAY | YEAR | YEAR | SEQUENTIAL | REVISION | MONTH | DAY | YEAR | FACILITY NAMES | DOCKET NUMBERS
1 | 1 | 11 | 8 | 7 | 8 | 7 | - | 0 | 1 | 8 | - | 0 | 0 | 1 | 2 | 11 | 8 | 7 | 0510101011

OPERATING MODE (9) | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following)(11)
POWER | 20.402(b) | 20.405(c) | X | 50.73(a)(2)(iv) | 73.71(b)
LEVEL | 20.405(a)(1)(i) | 50.38(c)(1) | 50.73(a)(2)(v) | 73.71(c)
(10) | 0 | 0 | 0 | 20.405(a)(1)(ii) | 50.36(c)(2) | 50.73(a)(2)(vii) | OTHER
20.405(a)(1)(iii) | 50.73(a)(2)(i) | 50.73(a)(2)(viii)(A) (Specify in
20.405(a)(1)(iv) | 50.73(a)(2)(ii) | 50.73(a)(2)(viii)(B) Abstract
20.405(a)(1)(v) | 50.73(a)(2)(iii) | 50.73(a)(2)(x) below and
in Text, NRC Form 366A)

LICENSEE CONTACT FOR THIS LER (12)
NAME | TELEPHONE NUMBER
Patrick A. Yurczyk, Radiation Protection Supervisor | 6122951511
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFAC Turer	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFAC Turer	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14) | EXPECTED SUBMISSION DATE (15) | MONTH | DAY | YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE) | X | NO | DATE (15)

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

During a routine Monthly Area Radiation Monitor Functional Check, a Primary Containment Group II Isolation, a Secondary Containment Isolation, and a Standby Gas Treatment System Initiation occurred due to a high level trip of Spent Fuel Pool Monitor Channel A.

The trip occurred when the Radiation Protection Specialist (R.P.S.) conducting the test exposed the Spent Fuel Pool Monitor to the radiation check source. But he incorrectly thought he was exposing an area radiation monitor.

The R.P.S. realized his mistake immediately and the situation was later discussed with his supervisor. He was counseled to exercise more caution in the future. The Area Radiation Monitor Test Procedure is being revised to better identify location of monitors along with words of caution not to expose a wrong monitor. The two Spent Fuel Pool Monitors have since been marked to identify them as different from from the Area Radiation Monitors.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Monticello	051000263	87	018	-	02 OF 03

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

Description

On November 11, 1987, at 0240 hours Central Standard Time, during a routine Monthly Area Radiation Monitor Functional Check (Test #1025A), a partial Primary Containment Group II Isolation (System JM), a Secondary Containment Isolation, and a Standby Gas Treatment (BH) Initiation occurred when Spent Fuel Pool Monitor (S.F.P.M.) was exposed to the radiation check source, by the Radiation Protection Specialist (R.P.S.) who was conducting the test. The Reactor was in the REFUEL Mode and was shutdown at the time of the event, and all systems involved were considered operable.

The Engineered Safety Features (E.S.F.) Actuations occurred when the S.F.P.M. reached its upscale trip setpoint. Annunciators in the Control Room indicated the E.S.F. Actuations. Licensed Operators investigated and determined the cause through communication by phone with the R.P.S., who realized he had exposed the wrong monitor. By 0245, all systems were reset to their normal configuration. The R.P.S. and Licensed Operator then completed the test without further complications.

Cause

The root cause of this event was personnel error. The Radiation Protection Specialist (R.P.S.) looked at Spent Fuel Pool Monitor Channel "A" which is hand labeled as such and thought he read "A-1" on the detector. This was a cognitive error in the fact that the R.P.S. failed to recognize the monitor as Spent Fuel Pool Channel "A".

The procedure was deficient in that it did not specify exact location of the monitors on the Reactor Refuel Floor (1027' level). Another characteristic that contributed to the error is that the Area Radiation Monitor and Spent Fuel Pool Monitor Detectors are identical in appearance.

Analysis

This event had no effect on Public Health or safety since it was an inadvertent actuation and the Safety function of the affected systems initiated and functioned properly. This event could not have more severe consequences regardless of initial conditions.

Corrective Action

On 12-4-87, the two Spent Fuel Pool Monitors were each painted with a red dot on the front of each detector to distinguish them from the all yellow Area Radiation Monitor Detectors. The area Radiation Monitor Functional Check Procedure is at this time being revised to caution Radiation Protection Specialists as to not inadvertently

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Corrective Action (Continued)

or otherwise expose the Spent Fuel Pool Monitors which are labeled with the red dot and the wording "Spent Fuel Pool Monitor Channel A and B". A floor plan map of the 1027' Reactor Building indicating the exact location of the three Area Radiation Monitors and the two Spent Fuel Pool Monitors will be added to the Area Radiation Monitor Functional Check Procedure as a reference for the Radiation Protection Specialists performing future tests. The situation was discussed with the R.P.S. who made the mistake and he made a commitment to be more careful in the future. This situation along with changes to the procedure will be discussed with entire work group responsible for conducting future tests.

Previous Similar Events

Similar events occurred on 1-19-84 (ref. LER 84-006) and 5-2-83 (Ref. M-SOE-83-11) but the cause was due to the two monitors involved being mounted too close to one another. A similar event also occurred on 10-19-82 (Ref. M-SOE-82-22) but the cause was due to poor communication between the Radiation Protection Specialist and the Control Room Operator.



Northern States Power Company

414 Nicollet Mall
Minneapolis, Minnesota 55401
Telephone (612) 330-5500

December 11, 1987

Report Required by:
10 CFR Part 50
Section 50.73

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

MONTICELLO NUCLEAR GENERATING PLANT
Docket No. 50-263 License No. DPR-22

Engineered Safety Feature Actuations Due to
Inadvertent Trip of Sepent Fuel Pool Monitor

The Licensee Event Report for this occurrence is attached.

This event was reported via the Emergency Notification System in accordance with 10 CFR Part 50, Section 50.72, on November 11, 1987.

David Musolf
Manager - Nuclear Support Services

c: Regional Administrator - III, NRC
Resident Inspector, NRC
NRR Project Manager, NRC
MPCA
Attn: Dr J W Ferman

Attachment

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