

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9207300211 DOC. DATE: 92/07/24 NOTARIZED: NO DOCKET #
 FACIL: 50-263 Monticello Nuclear Generating Plant, Northern States 05000263
 AUTH. NAME AUTHOR AFFILIATION
 HIPPE, M. Northern States Power Co.
 PARKER, T.M. Northern States Power Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 92-008-00: on 920624, fire barrier declared inoperable & continuous fire watch patrol established, per NRC Bulletin 92-001. Caused by failure of Thermo-Lag 330 barrier during fire endurance testing. Remote alarm installed. W/920724 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 5
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: NRR/LONG, W. 05000263

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	AEOD/DSP/TPAB	1	1	AEOD/ROAB/DSP	2	2
	NRR/DET/EMEB 7E	1	1	NRR/DLPQ/LHFB10	1	1
	NRR/DLPQ/LPEB10	1	1	NRR/DOEA/OEAB	1	1
	NRR/DREP/PRPB11	2	2	NRR/DST/SELB 8D	1	1
	NRR/DST/SICB8H3	1	1	NRR/DST/SPLB8D1	1	1
	NRR/DST/SRXB 8E	1	1	<u>REG FILE</u> 02	1	1
	RES/DSIR/EIB	1	1	RGN3 FILE 01	1	1
EXTERNAL:	EG&G BRYCE, J.H	2	2	L ST LOBBY WARD	1	1
	NRC PDR	1	1	NSIC MURPHY, G.A	1	1
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NOTES:		1	1			

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AD



Northern States Power Company

414 Nicollet Mall
Minneapolis, Minnesota 55401-1927
Telephone (612) 330-5500

July 24, 1992

Report Required by
10 CFR Part 50, Section 50.73

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

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

Fire Barrier Declared Inoperable Due to Failure
of Similar Barriers to Pass Acceptance Tests

The Licensee Event Report for this occurrence is attached. Please contact us if you require further information.

Thomas M Parker
Manager
Nuclear Support Services

c: Regional Administrator - III NRC
Sr Resident Inspector, NRC
NRR Project Manager, NRC
State of Minnesota,
Attn: Kris Sanda

Attachment

290010
9207300211 920724
PDR ADDCK 05000263
S PDR

Handwritten initials/signature

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) Monticello Nuclear Generating Plant	DOCKET NUMBER (2) 0 5 0 0 0 2 6 3	PAGE (3) 1 OF 0 4
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TITLE (4) Fire Barrier Declared Inoperable Due to Failure of Similar Barriers to Pass Acceptance Tests

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		DOCKET NUMBER(S)							
0	6	2	9	2	0	0	8	0	0	0	7	2	4	9	2			0 5 0 0 0

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

LICENSEE CONTACT FOR THIS LER (12)

NAME Mike Hippe, System Engineer	TELEPHONE NUMBER
	AREA CODE: 6 1 2 2 9 5 - 1 3 7 1

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH DAY YEAR
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

Based on information received on June 24, 1992 concerning Thermo-Lag 330, one fire barrier was declared inoperable and a continuous fire patrol was established. The cause of the event was a failure of a similar barrier to pass testing at another facility. The barrier has been visually inspected. A remote alarming fire detection system has been installed and surveillance procedures are performed periodically to ensure operability. A one hour roving fire watch has been established. A Technical Specification special report and a response to NRC Bulletin No. 92-01 will be submitted to the NRC.

**LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION**

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FACILITY NAME (1) Monticello Nuclear Generating Plant	DOCKET NUMBER (2) 0 5 0 0 0 2 6 3	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		9 2	- 0 0 8	- 0 0	0 2	OF 0 4

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

DESCRIPTION

On June 24, 1992, with the plant operating at 100% power the plant received an advance copy of NRC Bulletin No. 92-01. The bulletin pertained to concerns about the Thermo-Lag 330 Fire Barrier System. In accordance with bulletin requirements, a continuous fire watch was stationed at 1105 on June 24, 1992 in the area containing barriers protected by Thermo-Lag per the plant Technical Specifications for an inoperable fire barrier.

The fire barrier had been installed July, 1986, and protects a one inch conduit which contains the electrical cable for the Division II 125 VDC Battery (EIIS System: EJ) Charger D20 (EIIS Comp: BYC). This conduit runs from the Division II battery room located in the Administration Building (EIIS System: MA) elevation 928 feet (Fire Zone/Area VII/7C) through a Division I Fire Area adjacent to the Division I 125 VDC Battery room, also located in the Administration Building at the same elevation. The conduit then exits the Administration Building and enters the Turbine Building (EIIS System: NM) at the same elevation. If a fire had occurred in the Division I Fire Area, it could also have affected the Division II electrical cabling in the conduit thereby affecting redundant trains of safe shutdown equipment.

Technical Specification 3.13.G.1 states, "All penetration fire barriers in fire area boundaries shall be operable whenever safe shutdown equipment in that fire area is required to be operable". The inoperable fire barrier is a condition prohibited by Technical Specifications and is reportable under 10 CFR 50.73(a)(2)(i).

CAUSE

The cause of this event is the failure during fire endurance testing of Thermo-Lag 330 fire barrier installations as presented in NRC Bulletin 92-01 dated June 24, 1992.

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		YEAR 9 2	SEQUENTIAL NUMBER 0 0 8	REVISION NUMBER 0 0		

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

ANALYSIS

The area in which the conduit is located is the main entry point to the Turbine and Reactor (EIIS System: NG) Buildings. It is occupied continuously for about 8.5 hours per day and is frequently traversed by plant personnel. A security area which is manned 24 hours per day is located adjacent to the area. This would insure early warning if a fire had occurred in the area of the conduit. If a fire occurred in one of the three adjacent battery rooms, it would have been alarmed in the control room from fire detection equipment located in each of the battery rooms. The fire brigade would respond and combat the fire with hose stations and portable fire extinguishers located within, or adjacent to, the area.

If a fire had occurred in the Division I Battery room, spread to the area containing the conduit, and damaged the cables in the conduit, it would have rendered the battery charger for the Division II battery inoperable. The division II battery would still have been able to perform its function for four hours even in the event of loss of offsite power. This would allow ample time to call in extra operations personnel to operate equipment needed for safe shutdown. Equipment operation would include manual operation of electrical breakers, manual start of Division I Emergency Diesel Generator (EIIS Comp:DG) and monitoring equipment with inoperable alarms and protective functions.

Based on the capability for early detection and fire brigade response, there were no consequences to the health and safety of the public.

CORRECTIVE ACTIONS

Actions which have been completed:

1. The fire barrier was declared inoperable and a continuous fire watch was posted.
2. A fire detection system with remote alarm system was installed in the area of the conduit and the continuous fire watch was replaced with a roving one hour fire patrol. Periodic surveillances are performed to ensure operability of the detection system.
3. A visual inspection was conducted to verify proper installation of the fire barrier.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
			0 0 8	0 0	0 4	OF	0 4

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

- A letter has been submitted to the NRC to respond to Bulletin 92-01 and to meet the requirements of Technical Specifications, outlining the plans and schedule for restoring the barrier to operable status.

ADDITIONAL INFORMATION

Failed Component Identification

none

Previous Similar Events

none