



Northern States Power Company

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

July 24, 1992

10 CFR Part 50
Section 50.73

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

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Docket Nos. 50-282 License Nos. DPR-42
50-306 DPR-60

Inoperability of Thermo-Lag 330 Fire
Barriers on Cable Trays and Conduits

The Licensee Event Report for this occurrence is attached.

Please contact us if you require additional information related to this event.

Thomas M Parker
Manager
Nuclear Support Services

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

Attachment

9207300058 920724
PDR ADOCK 05000382
S PDR

JE22

LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 60.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (F-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20545, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)

Prairie Island Nuclear Generating Plant Unit 1

DOCKET NUMBER (2)

0 5 0 0 0 2 8 2 1 OF 0 3

PAGE (3)

TITLE (4)

Inoperability of Thermo-Lag 330 Fire Barriers
on Cable Trays and Conduits

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)
06	24	92	92	008	0007	24	92	2	Prairie Island Unit 2	050000306
										050000

OPERATING
MODE (9)

N

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)

20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
20.405(a)(1)(i)	50.36(a)(1)	50.73(a)(2)(v)	73.71(c)
20.405(a)(1)(ii)	50.36(a)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text NRC Form 366A)
20.405(a)(1)(iii)	XX 50.73(a)(2)(i)	50.73(a)(2)(vii)(A)	
20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(vii)(B)	
20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME

Arne A Hunstad

TELEPHONE NUMBER

AREA CODE

612 388-1121

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	XX NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

On June 24, 1992, the United States Nuclear Regulatory Commission (NRC) issued NRC Bulletin 92-01, Failure of Thermo-Lag 330 Fire Barrier System To Maintain Cabling in Wide Cable Trays and Small Conduits Free from Fire Damage. This bulletin referred to tests which demonstrate the failure of Thermo-Lag 330 fire barrier systems to maintain cabling in wide cable trays and small conduits free from fire damage. The Prairie Island Nuclear Generating Plant has used this material to protect cables in both cable trays and conduits. Six fire areas are affected. Prairie Island Nuclear Generating Plant has applied our Technical Specification for inoperable Penetration Fire Barriers (TS.3.14.G.2.) for the appropriate interim compensatory measures.

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)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Prairie Island Unit 1	0 5 0 0 0 2 8 2	9 2	0 0 8	0 0	0 2	OF	0 3

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

EVENT DESCRIPTION

On June 24, 1992, the United States Nuclear Regulatory Commission (NRC) issued NRC Bulletin 92-01, Failure of Thermo-Lag 330 Fire Barrier System To Maintain Cabling in Wide Cable Trays and Small Conduits Free from Fire Damage. This bulletin referred to tests which demonstrate the failure of Thermo-Lag 330 fire barrier systems to maintain cabling in wide cable trays and small conduits free from fire damage. The Prairie Island Nuclear Generating Plant has used this material to protect cables in both cable trays and conduits. Six fire areas are affected. Prairie Island Nuclear Generating Plant has applied our Technical Specification for Inoperable Penetration Fire Barriers (TS.3.14.G.2.) for the appropriate interim compensatory measures.

CAUSE OF THE EVENT

This event was caused by the failure of certain configurations of Thermo-Lag 330 Fire Barrier Systems to adequately maintain cabling in wide cable trays and small conduits from fire damage. This determination was made after review of fire endurance tests performed by Texas Utilities Electric.

ANALYSIS OF THE EVENT

This event is reportable pursuant to 10 CFR Part 50.73(a)(2)(i)(B) since inoperability of cable tray and conduit fire barriers is considered to be in violation of Technical Specification 3.14.G.2.

CORRECTIVE ACTION

Presently a Special Order has been implemented which directs the site's compensatory actions. These actions include a once per hour roving fire watch covering the six affected fire areas. The Special Order also directs that, in the event that the fire detection system in these areas is rendered or found inoperable, a continuous fire watch will be established in that area. These compensatory actions are consistent with the Prairie Island Nuclear Generating Plant Technical Specifications for Penetration Fire Barriers (TS.3.14.G.2.).

Appropriate actions to restore fire barrier operability are being developed through an industry program being coordinated by NUMARC. This program will include establishment of a test database, development of guidance for applicability of tests, development of generic installation guidance, and consideration and coordination of additional testing as appropriate. We will apply the results of these efforts, when completed, to Thermo-Lag installations within the scope of Bulletin 92-01.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 500 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)

DOCKET NUMBER (2)

LER NUMBER (6)

PAGE (3)

YEAR

SEQUENTIAL
NUMBERREVISION
NUMBER

Prairie Island Unit 1

0 5 0 0 0 2 8 2 9 2 - 0 0 8 - 0 0 0 3 OF 0 3

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

FAILED COMPONENT IDENTIFICATION

None.

PREVIOUS SIMILAR EVENTS

None.