

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9009060125 DOC.DATE: 90/08/31 NOTARIZED: NO DOCKET #
 FACIL:50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315
 AUTH.NAME AUTHOR AFFILIATION
 CARTEAUX,P.F. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 BLIND,A.A. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 90-007-01:on 900802,determined that condition exists
 in violation of App A of BTP 9.5-1 due to lack of
 fireproofing matl on exposed structural steel.Caused by
 inadequate work practices.Structure covered.W/900831 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 6
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

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AEOD/DSP/TPAB	1 1	AEOD/ROAB/DSP	2 2
NRR/DET/ECMB 9H	1 1	NRR/DET/EMEB9H3	1 1
NRR/DLPQ/LHFB11	1 1	NRR/DLPQ/LPEB10	1 1
NRR/DOEA/OEAB11	1 1	NRR/DREP/PRPB11	2 2
NRR/DST/SELB 8D	1 1	NRR/DST/SICB 7E	1 1
NRR/DST/SPLB8D1	1 1	NRR/DST/SRXB 8E	1 1
REG-FILE-02	1 1	RES/DSIR/EIB	1 1
RGN3 FILE 01	1 1		
EXTERNAL: EG&G BRYCE,J.H	3 3	L ST LOBBY WARD	1 1
NRC PDR	1 1	NSIC MAYS,G	1 1
NSIC MURPHY,G.A	1 1	NUDOCS FULL TXT	1 1

Indiana Michigan
Power Company
Duck Creek Plant
P.O. Box 458
Bridgman, MI 49106
616 465 5901



August 31, 1990

United States Nuclear Regulatory Commission
Document Control Desk
Rockville, Maryland 20852

Operating Licenses DPR-58
Docket No. 50-315

Document Control Manager:

In accordance with the criteria established by 10 CFR 50.73
entitled Licensee Event Reporting System, the following
report is being submitted:

90-007-00

Sincerely,

A.A. Blind
Plant Manager

AAB:clj

Attachment

cc: D.H. Williams, Jr.
A.B. Davis, Region III
M.P. Alexich
P.A. Barrett
J.E. Borggren
R.F. Kroeger
B. Walters - Ft. Wayne
NRC Resident Inspector
J.G. Gitter, NRC
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Dottie Sherman, ANI Library
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S.J. Brewer/B.P. Lauzau

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SEP 7 1990

LICENSEE EVENT REPORT (LER)

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) D.C. Cook Nuclear Plant, Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 3 1 5					PAGE (3) 1 OF 0 4	
TITLE (4) Violation of Design Bases Due to Failure to Install Fireproofing As a Result of Inadequate Controls																
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 8 2 2 9 0	9 0	0 0 7	0 0 0	8 3 1	9 0	D.C. Cook, Unit 2				0 5 0 0 0 3 1 5						
OPERATING MODE (9) 1			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			20.402(b)				20.406(c)				50.73(a)(2)(iv)				73.71(b)	
			20.406(a)(1)(i)				50.36(a)(1)				50.73(a)(2)(v)				73.71(c)	
			20.406(a)(1)(ii)				50.36(a)(2)				50.73(a)(2)(vii)				<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 366A)	
			20.406(a)(1)(iii)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(A)				Voluntary	
			20.406(a)(1)(iv)				50.73(a)(2)(iii)				50.73(a)(2)(viii)(B)					
			20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)					
LICENSEE CONTACT FOR THIS LER (12)																
NAME P.F. Carteaux - Safety and Assessment Superintendent										TELEPHONE NUMBER AREA CODE 6 1 6 4 6 5 - 5 9 0 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						
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO				

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

On August 2, 1990, it was determined that due to the lack of fireproofing material on exposed structural steel, within five lube oil storage rooms, a condition exists that is in violation of Appendix A of BTP 9.5-1.

Records indicate that fireproofing material was never applied during construction as required. The cause for not initially installing the fireproofing could not be decisively determined. Subsequent design change modifications and updating of the fire protection documents did not capture this deficiency. Current controls regarding the design change process and updating of the fire protection documents will prevent recurrence; therefore, no preventive action is planned. Corrective action involves the installation of the required fireproofing material and updating of drawings. Until the fireproofing material is installed, the plant will rely on the automatic fire detection and suppression systems found in the rooms, coupled with the response of the fire brigade, to preclude any jeopardy to the health and safety of the public.

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-630), 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) D.C. Cook Nuclear Plant, Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 3 1 5										PAGE (3) 1 OF 0 4	
TITLE (4) Failure to Install Fireproofing Per Appendix A to Branch Technical Position 9.5-1, as a result of Inadequate Controls. changed per Randy Placch-9/6/90																					
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 8 2	2 9 0	9 0	0 0 7	0 0 0	8 3 1	9 0	D.C. Cook, Unit 2					0 5 0 0 0 3 1 5									
OPERATING MODE (9) 1			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																		
POWER LEVEL (10) 1 0 0			20.402(b)			20.406(c)			60.73(a)(2)(iv)			73.71(b)									
			20.406(a)(1)(i)			60.36(a)(1)			60.73(a)(2)(v)			73.71(c)									
			20.406(a)(1)(ii)			60.36(a)(2)			60.73(a)(2)(vi)			<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 356A)									
			20.406(a)(1)(iii)			60.73(a)(2)(i)			60.73(a)(2)(viii)(A)			Voluntary									
			20.406(a)(1)(iv)			60.73(a)(2)(ii)			60.73(a)(2)(viii)(B)												
			20.406(a)(1)(v)			60.73(a)(2)(iii)			60.73(a)(2)(ix)												
LICENSEE CONTACT FOR THIS LER (12)																					
NAME P.F. Carteaux - Safety and Assessment Superintendent										TELEPHONE NUMBER AREA CODE 6 1 6 4 6 5 - 5 9 0 1											
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)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR							
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)										<input checked="" type="checkbox"/> NO											

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

On August 2, 1990, it was determined that due to the lack of fireproofing material on exposed structural steel, within five lube oil storage rooms, a condition exists that is in violation of Appendix A of BTP 9.5-1.

Records indicate that fireproofing material was never applied during construction as required. The cause for not initially installing the fireproofing could not be decisively determined. Subsequent design change modifications and updating of the fire protection documents did not capture this deficiency. Current controls regarding the design change process and updating of the fire protection documents will prevent recurrence; therefore, no preventive action is planned. Corrective action involves the installation of the required fireproofing material and updating of drawings. Until the fireproofing material is installed, the plant will rely on the automatic fire detection and suppression systems found in the rooms, coupled with the response of the fire brigade, to preclude any jeopardy to the health and safety of the public.

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) D.C. Cook Nuclear Plant, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 1 5	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9 0	0 0 7	0 0	0 2	OF	0 4

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

Condition Prior to Occurrence

Unit 1 in Mode 1 at 100 percent Rated Thermal Power (RTP).
Unit 2 in Mode 6 defueled.

Description of Event

During a surveillance inspection and field walkdown of existing fireproofing, it was discovered on June 15, 1990 that fireproofing material was not installed on exposed structural steel members of walls in the following rooms:

Unit 1 - Turbine lube oil room
Unit 1 - Turbine oil tank room

Unit 2 - Turbine lube oil room
Unit 2 - Turbine oil tank room
Unit 2 - Misc. oil storage room

In reviewing the drawings for the lube oil rooms, the fireproofing of "all exposed structural steel, steel roof deck etc." was originally required in February of 1972 under Revision 4 of the drawings. The protection was then changed one week later from a 4-hour rating to a 3-hour rating under Revision 5. The fireproofing was later changed back to a 4-hour rating in the Unit 1 and 2 lube oil rooms under Revision 8 of the associated drawings in October, 1979 and then voided (date unknown). The drawing associated with the Unit 1 and 2 turbine oil tank rooms omitted the requirement for the fireproofing under Revision 8 in June 1981.

The exposed structural steel of the miscellaneous oil storage room was originally required to be fireproofed in March of 1978 under Revision 3 to its drawing. The 4-hour fireproofing requirement was later omitted under Revision 6 in June of 1981.

All drawings still show fireproofing details and notes in the specific rooms identifying the previously required protection; however, the revision boxes of the drawings show omission of the fireproofing.

Subsequent review on August 2, 1990 identified that the lack of fireproofing on the exposed structural steel members of the walls was not in compliance with our January 31, 1977 commitment to the NRC to comply with Appendix A to Branch Technical Position (BTP) 9.5.1. The August 2, 1990 review confirmed that the required automatic detection and suppression systems, also committed

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
D.C. Cook Nuclear Plant, Unit 1	0 5 0 0 0 3 1 5	9 0	— 0 0 7	— 0 0	0 3	OF 0 4

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

Description of Event cont.

to the NRC to comply with Appendix A to BTP 9.5.1, were installed as required. The fire detection system(s) are wired into the control room alarm system which would alert and cause the dispatch of the fire brigade. In addition, the suppression system(s) are detector actuated CO2 dispensing type and are present in all the subject rooms.

Cause of Event

The cause of the event was determined to be inadequate work practices in that once the condition was identified personnel involved in drawing revisions eventually deleted the requirement for fireproofing in the revision box of the drawing to agree with the as built configuration. They did not however, perform a follow up investigation as to why the fireproofing was not installed or if it was required. This is a deficiency in the controls for the design change process as well as a deficiency in the updating of fire protection documents. The cause for not initially installing the fireproofing could not be decisively determined.

Analysis of Event

The lack of fireproofing on exposed structural steel making up the walls in the identified lube oil rooms are not in compliance with our January 31, 1977 commitment to the NRC to comply with Appendix A to BTP 9.5.-1.

The August 2, 1990 review of this condition determined that the detection and automatic suppression systems found in each of the rooms combined with the fire brigade response is adequate to control and contain a fire in each of the rooms; therefore, the lack of the fireproofing material on the structural steel does not jeopardize the health and safety of the public.

Corrective Action

The corrective action taken will be to cover the exposed structural steel in the indicated oil rooms, this action is scheduled to be completed by October 1, 1990, and to revise drawings associated with the fireproofing to reflect the correct configuration, this action is scheduled to be completed by December 31, 1990. No compensatory measures, such as fire watches, have been implemented because that would require deactivation of the automatic CO2 suppression system found in the rooms. Also, it is believed that current administrative controls regarding design changes and updating of fire protection documents will prevent recurrence of such an event.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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FACILITY NAME (1) D.C. Cook Nuclear Plant, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 1 5	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9 0	— 0 0 7	— 0 0	0 4	OF	0 4

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

Failed Component Identification

None.

Previous Similar Events

None