

CATEGORY 1

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9711280030 DOC.DATE: 97/11/24 NOTARIZED: NO DOCKET #
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315
 AUTH.NAME AUTHOR AFFILIATION
 MALIN, D: Indiana Michigan Power Co.
 BLIND, A.A. Indiana Michigan Power Co.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 97-027-00: on 971028, W fuel rods contained IFBA. Caused by event found during shutdown that potentially resulted in degraded principle safety barrier & an ENS notification was made at 1830 hrs on 971028. Analysis performed. W/971124 ltr.

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Indiana Michigan
Power Company
Cock Nuclear Plant
One Cock Place
Bloomington, IN 47404



November 24, 1997

United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

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 Report System, the following report is being submitted:

97-027-00

Sincerely,

A handwritten signature in cursive script that reads 'A. A. Blind'.

A. A. Blind
Site Vice President

/mbd

Attachment

c: A. B. Beach, Region III
E. E. Fitzpatrick
P. A. Barrett
S. J. Brewer
J. R. Padgett
D. Hahn
Records Center, INPO
NRC Resident Inspector



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PDR ADOCK 05000315
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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 INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)
Donald C. Cook Nuclear Plant - Unit 1DOCKET NUMBER (2)
50-315

Page 1 of 1

TITLE (4)

Interim LER - Westinghouse Integral Fuel Burnable Absorber (IFBA) Fuel Rods

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 NAME	DOCKET NUMBER
10	28	97	97	-- 027 --	00	11	24	97	Cook Unit 2	50-316
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 50.73(a)(2)(i)-(vii)(B) (Check one or more) (11)							
5			20.2201(b) 20.2203(a)(3)(i) 50.73(a)(2)(i)-(vii)(B) 73.71(b)							
POWER LEVEL (10)			20.2203(a)(1) 20.2203(a)(3)(ii) 50.73(a)(2)(iv) 73.71(c)							
0			20.2203(a)(2)(I) 20.2203(a)(4) 50.73(a)(2)(v) OTHER							
			20.2203(a)(2)(ii) 50.36(c)(1) 50.73(a)(2)(vii) (Specify in Abstract below and in Text, NRC Form 366A)							
			20.2203(a)(2)(iii) 50.36(c)(2) 50.73(a)(2)(vii)(A)							
			20.2203(a)(2)(iv) 50.73(a)(2)(I) 50.73(a)(2)(vii)(B)							
			20.2203(a)(2)(v) X 50.73(a)(2)(ii) 50.73(a)(2)(x)							

LICENSEE CONTACT FOR THIS LER (12)

NAME
Mr. Doug Malin, Nuclear Fuels ManagerTELEPHONE NUMBER (Include Area Code)
616/697-5065

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)

X YES

NO

EXPECTED
SUBMISSION
DATE (15)MONTH DAY YEAR
01 16 98

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On October 28, 1997, with Unit 1 in Mode 5 and Unit 2 in Mode 6, it was determined that both units had the potential to be outside of their design basis and possibly in non-compliance with 10 CFR 50.46(b)(2). This is a generic issue applicable to Westinghouse fuel rods containing integral fuel burnable absorber (IFBA). It was determined that this was reportable under 10CFR50.72(b)(2)(i) as an event found during shutdown that potentially resulted in a degraded principle safety barrier and an ENS notification was made at 1830 hours on October 28, 1997. This interim LER is being submitted under 10CFR50.73(a)(2)(ii)(B) as a condition potentially outside of the design basis of the plant.

We were informed by Westinghouse, on October 28, 1997, that in the process of developing new fuel rod cladding corrosion and rod internal pressure models it was determined that these new models showed a decrease in rod internal pressure margin. This decrease in margin has the potential to place plants in a condition that is outside of their design basis with respect to pellet-to-clad gap re-opening. Additionally, should pellet-to-clad gap re-opening occur there is a potential for certain plants to possibly be in non-compliance with the 17 percent oxidation criteria of 10CFR50.46.

Since that time, and based on the LOCA analysis that have been performed to date by Westinghouse, an initial 12 percent oxidation has been established as a screening criteria to permit assessment of plants regarding compliance with the 17 percent maximum oxidation criteria of 10CFR50.46. Calculations have shown compliance with 10CFR50.46 for Unit 1 Cycle 16 and Unit 2 Cycle 12. Additional calculations show that Unit 1 will be within its design basis with respect to pellet-to-clad gap re-opening throughout Cycle 16 and Unit 2 will be within its design basis for a minimum of 10,680 MWD/MTU (approximately 257 EFPD) for Cycle 12. Further evaluation of this situation is ongoing and will be completed and an update to this LER will be issued by January 16, 1998.