

CATEGORY 1

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ACCESSION NBR: 9809040160 DOC.DATE: 98/08/31 NOTARIZED: NO DOCKET #
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315
 AUTH.NAME AUTHOR AFFILIATION
 SCHOEPP, R. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
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 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 98-018-02: on 980505, use of RCP seals as alternate Boron injection flow path resulted in unanalyzed condition. Caused by maintaining temp above recommended max temp. Westinghouse has provided technical input on issue. W/980831. ltr.

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 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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Indiana Michigan
Power Company
Cook Nuclear Plant
One Cook Plant
Bridgman, MI 49106
616 465 5901



August 31, 1998

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

Operating License 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:

98-018-02

Sincerely,

A handwritten signature in cursive script that reads "John R. Sampson".

J. R. Sampson
Site Vice President

/mbd

Attachment

c: J. L. Caldwell (Acting), Region III
R. P. Powers
P. A. Barrett
J. B. Kingseed
R. Whale
D. Hahn
Records Center, INPO
NRC Resident Inspector

9809040160 980831
PDR ADDCK 05000315
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EXPIRES 04/30/98

LICENSEE EVENT REPORT (LER)

(See reverse for required number of
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ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS MANDATORY INFORMATION COLLECTION REQUEST: 50.0 HRS. REPORTED LESSONS LEARNED ARE INCORPORATED INTO THE LICENSING PROCESS AND FED BACK TO INDUSTRY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), 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) Cook Nuclear Plant Unit 1										DOCKET NUMBER (2) 50-315		PAGE (3) 1 of 1	
TITLE (4) Use of Reactor Coolant Pump Seals as Alternate Boron Injection Flow Path Potentially Results in Unanalyzed Condition													
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		
05	05	98	98	-- 018 --	02	08	31	98	Cook Unit 2		50-316		
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)										
5			20.2201 (b)				20.2203(a)(2)(v)			50.73(a)(2)(i)		50.73(a)(2)(viii)	
POWER LEVEL (10)			20.2203(a)(1)				20.2203(a)(3)(i)			X 50.73(a)(2)(ii)		50.73(a)(2)(x)	
00			20.2203(a)(2)(i)				20.2203(a)(3)(ii)			50.73(a)(2)(iii)		73.71	
			20.2203(a)(2)(ii)				20.2203(a)(4)			50.73(a)(2)(iv)		OTHER	
			20.2203(a)(2)(iii)				50.36(c)(1)			50.73(a)(2)(v)		Specify in Abstract below or in NRC Form 366A	
			20.2203(a)(2)(iv)				50.36(c)(2)			50.73(a)(2)(vii)			
			LICENSEE CONTACT FOR THIS LER (12)										
NAME Mr. Paul Schoepf, Safety Related Mechanical Engineering Superintendent										TELEPHONE NUMBER (Include Area Code) 616/465-5901, x2408			
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)								EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR	
X	YES (If Yes, complete EXPECTED SUBMISSION DATE).						NO			10	31	98	
Abstract (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)													
<p>In March, 1998, while investigating a different issue, Engineering noted a potential problem involving the use of the Reactor Coolant Pump (RCP) seals as an alternate emergency boration flow path, which utilizes the Boric Acid Storage Tank (BAST) as the injection source. The BAST is maintained at a temperature above the vendor's recommended maximum RCP seal water injection temperature, and the extended use of this flow path could result in the seal water injection temperature exceeding the recommended maximum. After evaluation of the potential impact of this condition, it was determined that this represented an unanalyzed condition, reportable under 10CFR50.72(b)(2)(i), and an ENS notification was made on April 1, 1998. This interim LER is therefore submitted under 10CFR50.72(a)(2)(ii).</p> <p>Operation of the alternate emergency boration flow path utilizing boric acid from the BAST at the high end of its possible temperature range could result in damage to the RCP seals, which in turn, could result in seal leak-off flow rates beyond the seal injection capabilities. Westinghouse has provided technical input on this issue, which clarified the plant design capability with respect to emergency boration. Evaluation of the Westinghouse input is continuing, as is evaluation of the safety significance of this condition.</p> <p>Due to the complexity of the issue, It is expected that an update to this LER will be issued by October 31, 1998.</p>													

