

CATEGORY 1

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ACCESSION NBR: 9812010208 DOC. DATE: 98/11/23 NOTARIZED: NO DOCKET #
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315
 AUTH. NAME AUTHOR AFFILIATION
 FINISSI, M. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 SAMPSON, J.R. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 98-045-00: on 981009, identified insufficient deliverable volume in CSS chemical additive tank. Cause indeterminate. Investigation into condition is continuing & updated LER will be submitted by 981215. With 981123 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



November 23, 1998

United States Nuclear Regulatory Commission
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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:

LER 98-045-00, "Interim LER – Insufficient Deliverable Volume in Containment Spray System Chemical Additive Tank"

Sincerely,

A handwritten signature in cursive script, appearing to read '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

9812010208 981123
PDR ADCK 05000315
S PDR

LICENSEE EVENT REPORT (LER)

(See reverse for required number of
digits/characters for each block)ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS MANDATORY
INFORMATION COLLECTION REQUEST: 30 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-4 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) 05000-315	PAGE (3) 1 of 1
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TITLE (4) Interim LER - Insufficient Deliverable Volume in Containment Spray System Chemical Additive Tank

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	09	98	98	-- 045	-- 00	11	23	98	DC Cook - Unit 2	05000-316
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)							
5			0.2201 (b)			0.2203(a)(2)(v)			0.73(a)(2)(i)	
POWER LEVEL (10)			0.2203(a)(1)			0.2203(a)(3)(i)			X 0.73(a)(2)(ii)	
0			0.2203(a)(2)(i)			0.2203(a)(3)(ii)			0.73(a)(2)(iii)	
			0.2203(a)(2)(ii)			0.2203(a)(4)			0.73(a)(2)(iv)	
			0.2203(a)(2)(iii)			0.36(c)(1)			0.73(a)(2)(v)	
			0.2203(a)(2)(iv)			0.36(c)(2)			0.73(a)(2)(vii)	
									THER	
									Specify in Abstract below or n NRC Form 366A	

LICENSEE CONTACT FOR THIS LER (12)									
NAME Mr. Michael Finissi, System Engineering Supervisor						TELEPHONE NUMBER (Include Area Code) 616/465-5901, x2830			

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX

SUPPLEMENTAL REPORT EXPECTED (14)				EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
X	YES	(If Yes, complete EXPECTED SUBMISSION DATE).			NO	12	15	98

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

On October 9, 1998, an issue was identified regarding the minimum deliverable volume from the Containment Spray System Spray Additive Tank, as to whether sufficient sodium hydroxide would be available for the duration of the injection phase following a Main Steam Line Break (MSLB) inside containment. Lack of sufficient sodium hydroxide to last through the injection phase results in Containment Spray System pH outside of the range used for environmental equipment qualification. On October 23, 1998, it was determined that this condition represented a condition outside the design bases, reportable under 10 CFR 50.73 (a)(2)(ii)(B).

The Containment Spray System operates in response to a Loss of Coolant Accident (LOCA) or MSLB inside containment. Sodium Hydroxide from the spray additive tank is added to the spray using an eductor, and ensures that the pH of the spray and sump are maintained within the established limits. The Residual Heat Removal and Safety Injection pump flow rates from the Refueling Water Storage Tank (RWST) are less following a MSLB, as opposed to post-LOCA, and the RWST drains more slowly. As a result, the spray additive tank may empty prior to the end of the injection phase. This results in borated water from the RWST, with a pH of 4.5, being sprayed on components inside containment until the injection phase is complete. The equipment in containment is qualified for a pH range of 6.8 to 12.9. Therefore, spraying RWST water without sodium hydroxide additive results in spray pH outside the range used for equipment qualification.

Investigation into this condition is continuing, and is expected to be complete by November 30th. An update to this interim LER will be submitted by December 15, 1998.