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ACCESSION NBR:9807270337 DOC.DATE: 98/07/21 NOTARIZED: NO DOCKET #
FACIL:50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315
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BOSTON,D. American Electric Power Co., Inc.
SAMPSON,J.A. American Electric Power Co., Inc.
RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 98-034-00:on 980623,flow rates to containment spray headers potentially lower than design basis values, predicted.Containment spray sys declared inoperable.

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American Electric P
Cook Nuclear Plant
One Cook Place
Bridgman, MI 49106
616 465 5901

AEP
AMERICAN ELECTRIC POWER

July 21, 1998

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:

98-034-00

Sincerely,

John K. Sampson

J. R. Sampson
Site Vice President

/mbd

Attachment

c: C. J. Paperiello (Acting), Region III
J. R. Sampson
P. A. Barrett
S. J. Brewer
R. Whale
D. Hahn
Records Center, INPO
NRC Resident Inspector

NRC Form 366 (4-95) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104

EXPIRES 04/30/98

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

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Cook Nuclear Plant Unit 1	50-315	1 of 1

TITLE (4)

Interim LER -- Flow Rates to Containment Spray Headers Are Potentially Lower Than Design Basis Values

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
										Cook - Unit 2	50-316
06	23	98	98	--	034	-- 00	07	21	98	FACILITY NAME	DOCKET NUMBER

OPERATING MODE (9)	5	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)			
		20.2201 (b)	20.2203(a)(2)(v)	50.73(a)(2)(i)	50.73(a)(2)(viii)
POWER LEVEL (10)	0	20.2203(a)(1)	20.2203(a)(3)(i)	X 50.73(a)(2)(ii)	50.73(a)(2)(x)
		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	TELEPHONE NUMBER (Include Area Code)
Mr. Dan Boston -- Manager, Safety Related Mechanical Systems	616 / 465-5901, x1863

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	15	98

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

On June 23, 1998, with both units in Mode 5, a computerized re-analysis of Containment Spray System (CTS) performance yielded results predicting that the system may not be capable of delivering design basis flows to the upper and lower containment spray headers. The Updated Final Safety Analysis Report (UFSAR) listed design basis flow values for upper and lower Containment sprays of 2,000 g.p.m. and 1,200 g.p.m., respectively. The existing calculation used to support the Unit 1 30% Steam Generator Tube Plugging Analysis showed Containment Spray flow rates of 2,136 g.p.m. for the upper and 1,230 g.p.m. for the lower spray header, which met the design basis values.

The re-analysis is based on a detailed computer model of the CTS system using vendor software and as-built system piping parameters. The re-analysis results predict that actual CTS upper and lower spray header flow rates will be less than the design basis values. An ENS notification was made at 1530 in accordance with 10CFR50.72(b)(2)(i) for an unanalyzed condition, and this interim LER is therefore submitted in accordance with 10CFR50.73(a)(2)(ii) for an unanalyzed condition. At the time of this report, the computer model of the system is in the process of formal verification.

The CTS system has been declared inoperable due to other issues, and is not required to be operable in this plant mode. The verification of the system model continues. Corrective actions which may be forthcoming as a result of this event have been identified as restart constraints. An update to this interim LER will be submitted by October 15, 1998 by which time it is expected that model and analysis results will be finalized, and safety significance and corrective actions determined.