

CATEGORY 1

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 AUTH. NAME: AUTHOR AFFILIATION
 FARLOW, S. American Electric Power Co., Inc.
 SAMPSON, J.R. American Electric Power Co., Inc.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 98-002-00: on 980108, degraded SSPS master relays were noted outside design basis. Caused by past practices of removing SSPS master relay covers to perform time response testing. All unacceptable master relays replaced. W980209 ltr.

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



February 9, 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:

98-002-00

Sincerely,

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

John R. Sampson
Site Vice President

/tlm

Attachment

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

200070

IE221,

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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)
50-315PAGE (3)
1 OF 1

TITLE (4) Degraded Solid State Protection System Master Relays Result in Condition Outside the Design Basis

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
01	08	98	98	002	00	02	09	98	Donald C. Cook Nuclear Plant	50-316
									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)(3)(i)		50.73(a)(2)(ii)		73.71(b)	
POWER LEVEL (10)	0	20.2203(a)(1)		20.2203(a)(3)(ii)		50.73(a)(2)(iv)		73.71e	
		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)(viii)(A)			
		20.2203(a)(2)(iv)		50.73(a)(2)(i)		50.73(a)(2)(viii)(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. Stan Farlow - Instrumentation and Controls Engineering ManagerTELEPHONE NUMBER (Include Area Code)
616/465-5901
Extension 2858

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs

SUPPLEMENTAL REPORT EXPECTED (14)

X	YES (If yes, complete EXPECTED SUBMISSION DATE).	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
				02	25	98

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

This is an Interim Licensee Event Report (LER). This interim report is being submitted under 10 CFR 50.73(a)(2)(ii) as a condition outside the design basis. The report identifies that both Unit 1 and Unit 2 Solid State Protection System (SSPS) master relays were found in a degraded state outside their design requirements.

On January 8, 1998, while performing SSPS testing it was identified that the Unit 1 Train B SSPS master relay covers were degraded and could impact seismic qualification. The relay cover retaining catches located on the base of the relay were damaged. On January 11, 1998 testing of the relay covers to determine if the covers were secured was performed. The results were used to determine the acceptability of the as-found condition in both unit's SSPS trains. The following results were obtained from the test: 6 of 23 Unit 1 Train A master relays were found unacceptable; 9 of 23 Unit 1 Train B master relays were found unacceptable; 18 of 23 Unit 2 Train A master relays were found unacceptable; and 5 of 23 Unit 2 Train B master relays were found unacceptable.

The subject relays have always passed their technical specification required monthly and refueling outage surveillance tests; however, this testing does not provide seismic qualification information. The preliminary root cause for this event has been attributed to the past practice of removing the SSPS master relay covers to perform time response testing. All unacceptable SSPS master relays have been replaced. Investigation and evaluation of this event is ongoing. An update to this interim LER will be issued by February 25, 1998.

