

CATEGORY 1

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9807220222 DOC. DATE: 98/07/17 NOTARIZED: NO DOCKET #
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315
 AUTH. NAME AUTHOR AFFILIATION
 CARRUTH, R. American Electric Power Co., Inc.
 SAMPSON, J. R. American Electric Power Co., Inc.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 98-016-01: on 980323, non-safety related cables routed to safety related equipment, was determined. GL 91-18 operability review was performed & EDGs declared operable.

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



July 17, 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:

98-016-01

Sincerely,

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

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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: 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)

Interim LER - Non-Safety Related Cables Routed to Safety Related Equipment

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	
03	23	98	98	016	01	07	17	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)	
			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. R. Carruth, Electrical/I&C Design Manager	616/697-5146

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 (If Yes, complete EXPECTED SUBMISSION DATE).	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
			09	15	98

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

On March 23, 1998, with Unit 1 and Unit 2 in Cold Shutdown, it was determined that non-safety related cables were routed to safety related devices in the Emergency Diesel Generator (EDG) load shed circuitry in that balance of plant (BOP) cables were not adequately designed to meet physical separation single failure criteria. This event was reported via ENS in accordance with 10CFR50.72(b)(2)(i), as an unanalyzed condition that could significantly compromise plant safety. This interim LER is therefore submitted in accordance with 10 CFR 50.73(a)(2)(ii).

A Generic Letter 91-18 operability review was performed and the EDGs for both units were declared operable on May 12, 1998. Licensing basis standards IEEE 279-68 (draft) and IEEE 308-70 (Proposed) have been reviewed, and a study on the effect of cable failures on EDG reliability using PRA techniques is being performed. A physical cable routing study on about 700 load shed cables is in the report preparation stage.

The licensing basis standards review showed that methods other than physical separation are acceptable for single failure design criteria. The cable separation study and cable testing program, still in progress, are supporting the EDG reliability analysis that provides a conservative assessment of the EDG reliability impact. The study and testing program are also showing that the absence of physical separation of the load shed cables should not significantly degrade the EDGs.

An update to this interim LER will be provided by September 15, 1998, when all studies and analyses are expected to be complete.

