

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9103060108 DOC.DATE: 91/02/27 NOTARIZED: NO DOCKET #  
 FACIL:50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315  
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 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 91-002-00:on 910128,emergency diesel generator removed  
 from svc & declared inoperable w/o meeting TS surveillance  
 requirements within 1 h.Caused by personnel error.Lessons  
 learned re event reviewed w/operators.W/910227 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 5  
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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	AEOD/DSP/TPAB	1 1	AEOD/ROAB/DSP	2 2
	NRR/DET/ECMB 9H	1 1	NRR/DET/EMEB 7E	1 1
	NRR/DLPQ/LHFB11	1 1	NRR/DLPQ/LPEB10	1 1
	NRR/DOEA/OEAB	1 1	NRR/DREP/PRPB11	2 2
	NRR/DST/SELB 8D	1 1	NRR/DST/SICB 7E	1 1
	NRR/DST/SPLB8D1	1 1	NRR/DST/SRXB 8E	1 1
	REG FILE 02	1 1	RES/DSIR/EIB	1 1
	RGN3 FILE 01	1 1		
EXTERNAL:	EG&G BRYCE,J.H	3 3	L ST LOBBY WARD	1 1
	NRC PDR	1 1	NSIC MAYS,G	1 1
	NSIC MURPHY,G.A	1 1	NUDOCS FULL TXT	1 1

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Indiana Michigan  
Power Company  
Cook Nuclear Plant  
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February 27, 1991

United States Nuclear Regulatory Commission  
Document Control Desk  
Rockville, Maryland 20852

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 Reporting System,  
the following report is being submitted:

91-002-00

Sincerely,

A.A. Blind  
Plant Manager

AAB:sb

Attachment

c: D.H. Williams, Jr.  
A.B. Davis, Region III  
M.P. Alexich  
P.A. Barrett  
J.E. Borggren  
R.F. Kroeger  
B. Walters - Ft. Wayne  
NRC Resident Inspector  
T. Colburn - NRC  
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B.A. Svensson

*Handwritten:* 4E22 1/

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

**ABSTRACT** (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

The lessons learned by the missed surveillance were thoroughly reviewed with the involved operators by their Shift Supervisor.

LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 600 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)  D. C. Cook Nuclear Plant - Unit 1	DOCKET NUMBER (2)  0   5   0   0   0   3   1   5	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9   1	-   0   0   2	-   0   0	0   2	OF	0   4

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Conditions Prior To Occurrence

Unit One (U-1) in Mode One at 34% power.

Unit Two (U-2) in Mode One at 100% power.

Description of Event

On 1-28-90 at 0408, the U-1 CD Emergency Diesel Generator (EDG) (EIIS/EK-ENG) was removed from service for maintenance and declared inoperable. With the U-1 CD EDG inoperable, Technical Specification (TS) 3.8.1.1 (Electrical Power Systems, A.C. Sources) required the operators to demonstrate the operability of the circuits between the offsite transmission network and the onsite Class 1E distribution system by performing TS surveillance 4.8.1.1.1.a within one hour and at least once per eight hours thereafter. TS 4.8.1.1.1.a requires the operator to determine the operability of the A.C. offsite sources by verifying correct breaker alignments and indicated power availability. The operators failed to verify the breaker alignments and indicated power availability by the completion of surveillance OHP 4030.STP.031 Data Sheet No. 1 (Breaker Alignment) within one hour to satisfy the TS surveillance requirement.

Preceding the time the U-1 CD EDG was declared inoperable, a power increase from 7% to 34% had occurred on U-1. To support the power increase, additional Operations personnel were available in the control room. Due to the level of activity in the control room associated with the power increase, the Unit Supervisor (US) delegated the tagging out of the U-1 CD EDG to an extra Senior Reactor Operator (SRO) in the control room. The US made a control room log book entry that the U-1 CD EDG was inoperable. Contrary to the normal operating practice of performing the breaker alignment prior to removing an EDG for planned maintenance, the extra SRO commenced the hanging of the clearances on the U-1 CD EDG.

Although the involved US and SRO were experienced and aware of the TS surveillance requirement to verify the correct breaker alignments and indicated power availability for an inoperable EDG, neither the US nor the SRO recalled the surveillance requirement at the time the EDG was declared inoperable. Therefore, an operator was not assigned to perform the surveillance at the time the U-1 CD EDG was declared inoperable.



LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 60.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

Description of Event (Continued)

At about 0530, the oncoming U-1 US noted that the breaker alignments and indicated power availability surveillance had not been completed when the U-1 CD EDG was declared inoperable. The finding was brought to the attention of the US. The US immediately assigned an operator to perform 1-OHP 4030.STP.031 Data Sheet No. 1 (Breaker Alignment).

The 1-OHP 4030.STP.031 Data Sheet No. 1 surveillance was completed at 0613. The surveillance verified that the TS surveillance breaker alignment and indicated power availability were met.

Cause of Event

The cause of this event was personnel error. The extra SRO assigned to supervise the removal of the U-1 CD EDG from service failed to recall the surveillance requirement for an inoperable EDG.

In addition, although the US delegated the responsibility for the U-1 CD EDG removal from service to the extra SRO, the US failed to follow-up with the work activity to ensure the surveillance requirements were met for the inoperable U-1 CD EDG.

Contributing to this event, the involved operators failed to review the Event Initiated Surveillance instruction for an inoperable Emergency Diesel Generator or offsite power source. Had the involved operators reviewed the instruction, the operators would have been prompted to complete 1-OHP 4030.STP.031 to meet the TS 3.8.1.1 action statement surveillance requirement.

Analysis of Event

Technical Specification (TS) 3.8.1.1 (Electrical Power Systems, A.C. Sources) required that the remaining A.C. offsite sources be demonstrated operable within one hour and at least once per eight hours thereafter by performing TS surveillance requirement 4.8.1.1.1.a. The TS surveillance requires a verification of the correct breaker alignments and indicated power availability. The failure to verify the correct breaker alignments and indicated power availability within one hour is a violation of Technical Specification 3.8.1.1 and reportable under 10 CFR 50.73 (a)(2)(i)(B).





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FACILITY NAME (1)

DOCKET NUMBER (2)

LER NUMBER (6)

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YEAR	SEQUENTIAL NUMBER	REVISION NUMBER
91	002	00

D. C. Cook Nuclear Plant - Unit 1

05000315

91-002-0004 OF 04

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Analysis of Event (Continued)

The U-1 CD EDG was declared inoperable at 0408. The surveillance to satisfy the TS 3.8.1.1 action statement was completed satisfactorily two hours and five minutes later at 0613. The one hour action statement time limit was exceeded by one hour and five minutes.

Considering that the 1-OHP 4030.STP.031 Data Sheet No. 1 (Breaker Alignment) surveillance complete at 0613 verified that the TS 3.8.1.1 surveillance 4.8.1.1.a requirements were met, it is concluded that the required TS action statement breaker alignments and indicated power availability requirements were satisfied between 0408 and 0613.

Based on the above analysis, the missed surveillance to verify the correct breaker alignments and indicated power availability is not considered to have created a significant safety concern, nor did the missed surveillance create a significant hazard to the health and safety of the general public.

Corrective Action

1. When the oncoming U-1 US noted that the TS surveillance had not been completed, the oncoming US reported the finding to the US. The US immediately assigned an operator to perform 1-OHP 4030.STP.031 Data Sheet No. 1 (Breaker Alignment). The completed surveillance verified that the TS surveillance requirements for correct breaker alignments and indicated power availability were met.
2. The lessons learned from this event were thoroughly reviewed with the involved operators by their Shift Supervisor.

Failure Component Identified

None

Previous Similar Events

A review of the License Event Reports from 1987 through the present did not identify a similar event where the surveillance requirements were not initiated upon the inoperability of a Emergency Diesel Generator.