

# CATEGORY 1

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9602220195      DOC. DATE: 96/02/13      NOTARIZED: NO      DOCKET #  
 FACIL: 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana M 05000316  
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 BLIND, A.A.      Indiana Michigan Power Co. (formerly Indiana & Michigan Ele  
 RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: LER 96-001-00: on 960114, EDG declared inoperable. Caused by  
 personnel error. Engineering personnel involved w/ event  
 counseled on need to literally comply w/ TS & ref documents.  
 W/ 960213 ltr.

DISTRIBUTION CODE: IE22T      COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4  
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Indiana Michigan  
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Bridgman, MI 49106  
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February 13, 1996

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

Operating Licenses DPR-74  
Docket No. 50-316

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:

96-001-00

Sincerely,

A. A. Blind  
Site Vice President

/clc

Attachment

c: H. J. Miller, Region III  
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P. A. Barrett  
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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 (MNB 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 2

DOCKET NUMBER (2)  
05000 316

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**TITLE (4)**

### **Emergency Diesel Generator Declared Inoperable Due to a Missed Surveillance as a Result of Personnel Error**

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 None	DOCKET NUMBER	
01	14	96	96	-- 001 --	00	02	13	96	FACILITY NAME	DOCKET NUMBER	
OPERATING MODE (9)		1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)								
POWER LEVEL (10)		100	20.2201(b)			20.2203(a)(3)(i)			50.73(a)(2)(iii)		73.71(b)
			20.2203(a)(1)			20.2203(a)(3)(ii)			50.73(a)(2)(iv)		73.71(c)
			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)		X	50.73(a)(2)(i)			50.73(a)(2)(viii)(B)		
			20.2203(a)(2)(v)			50.73(a)(2)(ii)			50.73(a)(2)(x)		

**LICENSEE CONTACT FOR THIS LER (12)**

NAME \_\_\_\_\_

**Paul Schoepf, Plant Engineering Superintendent**

TELEPHONE NUMBER (Include Area Code)

616/465-5901, x2408

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
A	EK	DG	W315	N

**SUPPLEMENTAL REPORT EXPECTED (14)**

YES	X	NO	SUBMITTER'S SUBMISSION DATE (15)			
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**ABSTRACT** (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On January 14, 1996 at 1748 hours with Unit 2 in Mode 1 at 100 percent Rated Thermal Power, the CD Diesel Generator (CD DG) became inoperable as a result of a failure to complete required Technical Specification surveillance testing. An incomplete start of the CD DG on December 29, 1995 was not correctly classified as a failure due to the application of the incorrect Regulatory Guide (RegGuide). The December 29, 1995 event was the second failure of the CD DG in the last twenty starts, which should have resulted in the CD DG being placed in an increased surveillance test frequency of once per seven days.

On January 15, 1996, the incomplete start was correctly reclassified as a failure. The CD DG was declared inoperable at 1430 hours and the increased test frequency was established. Following completion of the required surveillance tests, the CD DG was declared operable at 1648 hours on January 15, 1996.

The cause of this event is personnel error. Engineering personnel applied RegGuide 1.9 to the December 29, 1995 event, rather than RegGuide 1.108, which is specified by the Technical Specifications.

The CD DG was capable of performing its safety function at all times. The missed surveillance test did not affect the CD DG functionally based on numerous successful starts of the CD DG in the interval between the December 29, 1995 start failure and January 15, 1996 when the increased surveillance frequency was applied. This event did not have any impact on the health and safety of the public.



## LICENSEE EVENT CONTINUATION

APPROVED BY OMB NO. 3150-0104

EXPIRES 5/31/95

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 (MHB 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)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
Cook Nuclear Plant - Unit 2	0500 315	YEAR	SEQUENTIAL	REVISION	2 OF 3
		96	-- 001 --	00	

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

Conditions Prior to Occurrence

Unit Two was in Mode 1, Power Operation, at 100 percent Rated Thermal Power.

Description of Event

On December 29, 1995 at 1702 hours, the Train A Diesel Generator, CD-DG, (EIS:EK/DG) experienced an incomplete start. The CD DG start was being performed as a Post Maintenance Test (PMT) activity after the replacement of a check valve in the starting air system. Only the CD-1 Starting Air Train was in service during the incomplete start. Following the incomplete start, the CD DG Starting Air System was returned to the normal standby configuration by placing both starting air trains in service. The CD DG was then successfully started, the post maintenance testing completed and the CD DG was declared operable.

The event was initially classified as a failure, as required by Technical Specifications and per the guidance of Regulatory Guide (RegGuide), "Periodic Testing of Diesel Generator Units Used As Onsite Electric Power Systems At Nuclear Power Plants". The incomplete start was the second failure in the last twenty valid tests of the CD DG. Per Technical Specifications and RegGuide 1.108 the CD DG was to be placed on an increased test frequency of once per seven days. Actions were initiated to increase the test frequency of the CD-DG.

On January 2, 1996, an additional review of the guidance of RegGuide 1.108 disclosed a statement on the cover page that the RegGuide had been withdrawn and the contents had been updated and incorporated into Regulatory Guide 1.9, "Selection, Design, and Qualification of Diesel-Generator Units Used As Onsite Electric Power Systems At Nuclear Power Plants". RegGuide 1.9 provides an exception that a failure to start with a portion of the starting air system disabled would not constitute a failure as long as the starting air system was returned to its normal lineup and a successful start was performed. Based on this information in RegGuide 1.9, on January 4, 1996, the December 29, 1995 event was reclassified as not being a failure and the accelerated testing was canceled.

On January 15, 1996 an evaluation of the December 29, 1995 incomplete start and subsequent actions concluded that the guidance of RegGuide 1.9 was not applicable to the Cook Plant. Technical Specifications reference RegGuide 1.108, Revision 1, August 1977. The CD DG became inoperable on January 14, 1996 at 1748 hours as a result of not performing the required surveillance testing of once per seven days. Immediate actions were taken to remove the CD DG from service and initiate increased frequency surveillance testing.

Cause of Event

The cause of this event is personnel error. Engineering personnel applied RegGuide 1.9 to the December 29, 1995 event, rather than RegGuide 1.108, which is specified by the Technical Specifications.





## LICENSEE EVENT CONTINUATION

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

### Analysis of Event

This event is reportable in accordance with 10CFR50.73(a)(2)(i)(B) as an operation prohibited by Plant Technical Specifications. The requirement to perform increased surveillance testing of the Train A Diesel Generator, CD DG, was not performed as directed by Technical Specification Table 4.8-1 and RegGuide 1.108.

Technical Specification Table 4.8-1 requires that the CD DG be placed on an increased test frequency of once per seven days when there have been two failures within the previous twenty valid tests. The incomplete start of the CD DG on December 29, 1995 occurred while one train of the starting air system was isolated. The starting air system was returned to the normal valve lineup and the CD DG was successfully started. Subsequent starts of the CD DG on December 30 and 31, 1995 and on January 2, 5 and 11, 1996, provided evidence that the CD DG was capable of starting at all times. The January 5, 1996 test was the last test that fulfilled all of the Technical Specification surveillance test functions. The CD DG start performed on January 11, 1995 did not fulfill all of the Technical Specification surveillance requirements. Therefore, credit could not be taken for January 11, 1996 start as an operability test.

In conclusion, the CD DG was capable of performing its safety function at all times. The missed surveillance test, required by the Technical Specification Table 4.8-1, did not affect the CD DG functionality. This is based on the successful CD DG starts that were performed following the incomplete start on December 29, 1995. This event did not have any actual or potential adverse impact on the health and safety of the public.

### Corrective Action

The incomplete start of the CD DG was correctly identified as a failure on January 15, 1996 and the CD DG was removed from service at 1430 hours. The CD DG was returned to an operable status on January 15, 1996 at 1648 hours, following successful testing.

The engineering personnel involved with this event have been counseled on the need to literally comply with the Technical Specifications and referenced documents.

A Technical Specification change request is being processed for Technical Specification 3.8.1.1 to reference RegGuide 1.9 instead of 1.108. This amendment will be for both units.

### Failed Component Identification

Component Name: Unit 2 CD Emergency Diesel Generator  
Manufacturer: Worthington  
Model: SWB-12  
EIS Code: DG/EK

### Previous Similar Events

None