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ACCESSION NBR:9007250093 DOC.DATE: 90/07/21 NOTARIZED: NO DOCKET #
 FACIL:50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
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 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 90-005-00:on 900621,missed ac electrical power source
 breaker alignment surveillance due to personnel error.
 W/9 ltr.

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EXTERNAL:	EG&G BRYCE,J.H	3 3	L ST LOBBY WARD	1 1
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July 18, 1990

United States Nuclear Regulatory Commission
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Rockville, Maryland 20852


Operating Licenses DPR-75
Docket No. 50-316

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:

90-005-00

Sincerely,


A.A. Blind
Plant Manager

AAB:clj

Attachment

cc: D.H. Williams, Jr.
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LICENSEE EVENT REPORT (LER)

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.

FACILITY NAME (1) **D. C. COOK NUCLEAR PLANT - UNIT 2** DOCKET NUMBER (2) **0 5 0 0 0 3 1 1 6 1** PAGE (3) **OF 0 4**

TITLE (4) **Missed A.C. Electrical Power Source Breaker Alignment Surveillance Due to 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 NAMES	DOCKET NUMBER(S)	
0	6	2	1	9	0	9	0	0	0	0	5
0	6	2	1	9	0	9	0	0	0	3	1
0	6	2	1	9	0	9	0	0	0	3	1
0	6	2	1	9	0	9	0	0	0	3	1

OPERATING MODE (9) **1** THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

POWER LEVEL (10)	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
0	20.406(a)(1)(i)	50.38(c)(1)	50.73(a)(2)(v)	73.71(c)
0	20.405(a)(1)(ii)	50.38(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
0	20.406(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
0	20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
0	20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
J. R. Sampson, Operations Department Superintendent	6 1 1 6 4 6 5 1 - 5 9 0 1

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)

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

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

On June 21, 1990, and June 28, 1990, a similar missed surveillance occurred on Unit 2 and Unit 1. On each date, a Technical Specification (TS) A.C. electrical power source was inoperable for clearance work. With the A.C. power source inoperable, the TS action statement required a breaker alignment and power available surveillance completed each eight hours. On each date, the TS surveillance was not completed within the required time limit. The cause for each missed surveillance was personnel error. The involved unit supervisors failed to manage the control room work activities and unit work assignments to ensure the surveillance completion within the TS surveillance time limit.

The missed surveillances were critiqued with the involved personnel to evaluate the events and collect specific lessons learned from the events. The lessons learned were distributed to Operations personnel. In addition, a letter was sent to each active senior reactor operator to reinforce their responsibility and authority to ensure the Plant is operated within the Plant license.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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.

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D. C. COOK NUCLEAR PLANT - UNIT 2

0 5 0 0 0 3 1 6

YEAR

SEQUENTIAL

NUMBER

REVISION

NUMBER

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0 2

OF

0 4

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

Condition Prior to Occurrence

June 21, 1990, Unit 1 in Mode 1 at 70% power and Unit 2 in Mode 1 at 90% power.

June 28, 1990, Unit 1 in Mode 1 at 70% power and Unit 2 in Mode 1 at 75% power.

Description of Event

On June 21, 1990, and June 28, 1990, an A.C. electrical power source required by Technical Specification (TS) 3.8.1 (A.C. Sources) was inoperable for clearance work. With the A.C. electrical source (EIIS/EB-JX) inoperable, the TS action statement required the operators to determine the operability of the circuits between the offsite transmission network and the onsite Class 1E distribution by verifying the correct breaker alignments and indicated power availability. On each of the above dates, the operators failed to verify the breaker alignment by the completion of surveillance OHP 4030.STP.031 DATA SHEET NO. 1 (STP.031 D/S No. 1 Breaker Alignment) to satisfy the eight-hour action statement surveillance requirement.

On June 21, 1990, the inoperable A.C. source was the Unit 2 (U-2) CD Emergency Diesel Generator (EDG) (EIIS/EK-ENG). The CD EDG was inoperable due to a clearance on the East Essential Service Water (ESW) system (EIIS/BI-P). The STP.031 D/S No. 1 Breaker Alignment was required to be completed prior to 1616. The Unit Supervisor (US) remembered the requirement to perform the surveillance at about 1630 and immediately assigned an operator to conduct the surveillance. The surveillance was completed at 1737. The completed surveillance showed that the TS action statement requirement for the correct breaker alignment and indicated power available was satisfied.

On June 28, 1990, the inoperable A.C. source was an offsite power source affecting U-1 and U-2. On U-1, the STP.031 D/S No.1 Breaker Alignment was required to be completed prior to 1252. The US remembered the requirement to perform the surveillance at about 1430 and immediately assigned an operator to conduct the surveillance. The surveillance was completed at 1515. The completed surveillance showed that the TS action statement requirement for the correct breaker alignment and indicated power available was satisfied. The U-2 TS action statement surveillance requirements were satisfied by the completion of the STP.031 D/S No. 1 Breaker Alignment within the required action statement time limit.

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

The cause of this event was personnel error. Both of the involved unit supervisors, responsible for ensuring the completion of the breaker alignment surveillance, failed to manage their control room work activities and unit work assignments to ensure that the surveillance would be completed within the required TS surveillance time.

1. The involved unit supervisors did not assign a specific operator the responsibility for the breaker alignment surveillance.
2. Although the other control room operators were not assigned the task of performing the breaker alignment, the involved control room operators had received a turnover from the previous shift that the breaker alignment surveillance would be due during their shift. The control room operators failed to support the US by pursuing the surveillance requirement.

The failure to determine operability of the circuits between the offsite transmission network and the onsite Class 1E distribution by verifying the correct breaker alignments and indicated power availability with an A.C. electrical power source inoperable was a violation of Technical Specification (TS) 3.8.1 (A.C.Sources) and is reportable under 10 CFR 50.73(a)(2)(i)(B).

The breaker alignment required to be performed for U-2 on June 21, 1990, exceeded the TS action statement surveillance time by one hour and 21 minutes.

The breaker alignment required to be performed for U-1 on June 28, 1990, exceeded the TS action statement surveillance time by two hours and 37 minutes.

The analysis for this event concludes that although the circuits between the offsite transmission network and the onsite Class 1E distribution were not verified by the correct breaker alignment and indicted power availability within the required surveillance frequency, the intent of the TS surveillance was satisfied. This conclusion is based on the results of

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TEXT CONTINUATION

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

the STP.031 D/S No. 1 Breaker Alignment surveillance completed after the missed surveillance was recognized. The satisfactory completion of the surveillance on June 21, 1990, and June 28, 1990, both showed that the requirements for correct breaker alignment and indicated power availability was met during the time the surveillance exceeded the TS time limit.

Based on the above analysis, the missed surveillances on June 21, 1990, and June 28, 1990, are not considered to have created a significant safety concern, nor did the missed surveillances create a significant hazard to the health and safety of the general public.

Corrective Action

1. On June 21, 1990, and June 28, 1990, when the surveillance requirement was remembered by the US, the US immediately assigned an operator to perform the STP.031 D/S No. 1 Breaker Alignment.
2. The Operations Department Superintendent held a critique for each of the missed surveillance events with the involved unit supervisors and shift supervisors. This critique evaluated the event and collected specific lessons learned from the event.
3. Based on the above critique, the Operations Department distributed to Operations Department personnel the lessons learned from the missed surveillance events.
4. The Operations Department Superintendent sent a letter to each active senior reactor operator to reinforce to each of the operators their responsibility and authority to ensure the Plant is operated within the commitments of the Plant license.

Failed Component Identification

None

Previous Similar Events

The License Event Reports from 1987 through the present were reviewed for similar events where a missed surveillance was caused by operator error. A similar event was not identified.