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ACCESSION NBR:8712080068	DOC.DATE: 87/12/03	NOTARIZED: NO	DOCKET #
FACIL:50-261	H.B. Robinson Plant, Unit 2,	Carolina Power & Light C	05000261
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MORGAN,R.E.	Carolina Power & Light Co.		
RECIP.NAME	RECIPIENT AFFILIATION		

SUBJECT: LER 87-027-00: on 871104, inoperability of redundant equipment  
due to inadvertent loss of motor control ctr MCC-6.  
W/8 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4  
TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

**NOTES:**

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REG FILE 02	1 1	RES DEPY GI	1 1
RES TELFORD, J	1 1	RES/DE/EIB	1 1
RGN2 FILE 01	1 1		
EXTERNAL: EG&G GROH, M	5 5	FORD BLDG HOY, A	1 1
H ST LOBBY WARD	1 1	LPDR	1 1
NRC PDR	1 1	NSIC HARRIS, J	1 1
NSIC MAYS, G	1 1		

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TOTAL NUMBER OF COPIES REQUIRED: LTTR 46 ENCL 45

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2	DOCKET NUMBER (2) 0 5 0 0 0 2 6 1	PAGE (3) 1 OF 0 3
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TITLE (4)

INOPERABILITY OF REDUNDANT EQUIPMENT DUE TO INADVERTENT LOSS OF MOTOR CONTROL CENTER MCC-6

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)				
1	1	0	4	8	7	8	7	0	2	7	0	5	0	0	0
1	1	0	4	8	7	8	7	0	2	7	0	5	0	0	0

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)										
POWER LEVEL (10) 1 0 0		20.402(b)			20.406(c)			50.73(a)(2)(iv)			73.71(b)	
		20.406(a)(1)(i)			50.38(c)(1)			50.73(a)(2)(v)			73.71(c)	
		20.406(a)(1)(ii)			50.38(c)(2)			X 50.73(a)(2)(vii)				
		20.406(a)(1)(iii)			50.73(a)(2)(i)			50.73(a)(2)(viii)(A)				
		20.406(a)(1)(iv)			50.73(a)(2)(ii)			50.73(a)(2)(viii)(B)				
		20.406(a)(1)(v)			50.73(a)(2)(iii)			50.73(a)(2)(ix)				

LICENSEE CONTACT FOR THIS LER (12)

NAME David Crook, Specialist - Regulatory Compliance	TELEPHONE NUMBER AREA CODE 8 10 13 3 18 13 1-1 1 1 7 19
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUF. TURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUF. TURER	REPORTABLE TO NPROS

SUPPLEMENTAL REPORT EXPECTED (14)

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

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

## ABSTRACT

On November 4, 1987, at 1133 hours, Unit No. 2 experienced a momentary loss of power to Motor Control Center MCC-6 and consequently Instrument Buss 4. This event placed the operation of the Plant in a condition contrary to the requirements of Technical Specification 3.7.2.d due to the loss of MCC-6 and associated safeguards equipment while Emergency Diesel Generator "A" was out of service for maintenance. Plant Operations personnel were removing a protective cover from over the "OPEN/CLOSE" pushbutton on the front door of the breaker cubicle for the MCC-6 breaker. The cover contacted the pushbutton, opening the breaker, and caused the loss of power. The breaker was then closed within approximately ten seconds. The loss of MCC-6 and Instrument Buss 4 caused a turbine "runback" and the Plant was stabilized at about 60 percent power. The Unit was returned to 100 percent power at 2040 hours. This event is reportable pursuant to 10CFR50.73(a)(2)(vii). There were no failed components during the event. The cause of the event is attributed to the design of the pushbutton protective cover and inadequate care being exercised in its removal.

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PDR ADOCK 05000261  
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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/88

FACILITY NAME (1)  H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2	DOCKET NUMBER (2)  0 5 0 0 0 2 6 1	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 7	0 2 7	0 0	0 2	OF	0 3

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

I. DESCRIPTION OF EVENT

On Wednesday, November 4, 1987, at 1133 hours, Unit No. 2 experienced a momentary loss of power to Motor Control Center MCC-6<sup>1</sup> and consequently Instrument Buss 4<sup>2</sup>. The loss of power was due to the design of the pushbutton protective cover and inadequate care being exercised in its removal. Operations personnel were removing protective covers over the "OPEN/CLOSE" pushbutton on the front door of the E-1 and E-2 breaker cubicles. While removing the cover for the MCC-6 power supply breaker on the E2 Switchgear, the cover contacted the pushbutton. This caused the breaker to open and power to be lost to MCC-6 which provides power to Instrument Buss 4. Loss of this buss created a turbine "runback".

A member of the Operations staff, who is a utility licensed operator, immediately closed the breaker, restoring power to the equipment, and informed the Shift Foreman of the cause of the event. The loss of power existed for approximately ten seconds.

The loss of power resulted in a turbine "runback" due to a false rod drop indication generated by loss of power to one power range channel.

The Plant was stabilized at about 60 percent power. The Unit was returned to 100 percent power using normal operating procedures on November 4, 1987, at 2040 hours.

This event was determined to be reportable pursuant to 10CFR50.73(a)(2)(vii). Subsequent evaluation of the event has determined that a four-hour non-emergency notification to the NRC should have been made by the Licensee in accordance with 10CFR50.72(b)(2)(iii). The inadvertent loss of MCC-6 for approximately ten seconds jeopardized compliance with the definition of "operability" as worded in Plant Technical Specification 1.3 since Diesel Generator "A" emergency power for the bus redundant to MCC-6, was out of service for unrelated reasons at the time. This configuration resulted in the Plant not meeting the redundancy required by the Technical Specification definition of operability. The event was reported by the Licensee via the Emergency Notification System (ENS) on November 25, 1987.

II. CAUSE OF EVENT

The protective cover design and mounting configuration contributed to the inadvertent contact with the MCC-6 breaker pushbutton and subsequent opening of the breaker. In addition, it is believed the event could have been avoided if additional care was exercised regarding the close proximity of the cover to the MCC-6 breaker pushbutton.

<sup>1</sup>EIIS Codes: System - ED; Component - MCC Manufacturer - W120.

<sup>2</sup>EIIS Codes: System - ED; Component - BU; Manufacturer - W120.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/98

FACILITY NAME (1)

H. B. ROBINSON STEAM ELECTRIC PLANT,  
UNIT NO. 2

DOCKET NUMBER (2)

0 5 0 0 0 2 6 1

LER NUMBER (6)

YEAR SEQUENTIAL REVISION

NUMBER NUMBER NUMBER

8 7 - 0 2 7 - 0 0

PAGE (3)

0 3 OF 0 3

TEXT (If more space is required, use additional NRC Form 365A's) (17)

III. ANALYSIS OF EVENT

The protective cover over the Motor Control Center (MCC-6) pushbutton had been installed several years ago to preclude inadvertent actuation of the breaker. However, during the 1987 NRC conducted Safety System Functional Inspection, a human factors concern was identified regarding the labeling of the MCC breakers. The concern had been resolved and, for this reason, the existing covers were being removed.

The design of the protective cover was inadequate in that the size, shape, and attaching mechanism created the potential for the bottom edge of the cover to bump the button when it was removed. Although care was being exercised removing the cover, the Operations staff individual who removed the cover was unaware that the cover movement could actuate the breaker pushbutton to the open position. Knowledge of this and additional care could have avoided the event.

The resulting turbine runback is not a reactor protection or safeguards feature of the Plant, but an operator aid or anticipatory feature.

IV. CORRECTIVE ACTIONS

The Motor Control Center (MCC-6) protective cover will be replaced with a permanent cover designed and installed to prevent inadvertent contact with the pushbutton. In the interim, caution labels have been affixed to the MCC-5 and MCC-6 cabinets to ensure personnel are aware of the potential that exists.

Personnel responsible for this event have participated in formulation of the corrective actions and recognize the impact of this event on overall Plant operations.

V. ADDITIONAL INFORMATION

## A. Failed Component Identification

There were no failed components associated with this event.

## B. Previous Similar Events

There are no known prior LERs of similar events associated with inadvertent loss trips of MCC-6.



Carolina Power & Light Company

ROBINSON NUCLEAR PROJECT DEPARTMENT  
POST OFFICE BOX 790  
HARTSVILLE, SOUTH CAROLINA 29550  
DEC. 03 1987

Robinson File No: 13510C

Serial: RNP/87-5684  
(10 CFR 50.73)

United States Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D. C. 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET NO. 50-261  
LICENSE NO. DPR-23  
LICENSEE EVENT REPORT 87-027-00

Gentlemen:

The enclosed Licensee Event Report (LER) is submitted in accordance with the Licensee Event Report System of 10 CFR 50.73 and the recommendations of NUREG-1022 and Supplement Nos. 1 and 2.

Very truly yours,

R. E. Morgan  
General Manager  
H. B. Robinson S. E. Plant

RDC:lko

Enclosure

cc: Dr. J. N. Grace  
Mr. R. Latta  
INPO

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