

POWER REACTOR

EVENT NUMBER: 34836

FACILITY: INDIAN POINT		REGION: 1		NOTIFICATION DATE: 09/25/98		
UNIT: [2] [ ] [ ]		STATE: NY		NOTIFICATION TIME: 16:19 [ET]		
RX TYPE: [2] W-4-LP, [3] W-4-LP				EVENT DATE: 09/25/98		
				EVENT TIME: 00:00 [EDT]		
NRC NOTIFIED BY: SANTINI				LAST UPDATE DATE: 09/25/98		
HQ OPS OFFICER: BOB STRANSKY						
EMERGENCY CLASS: NOT APPLICABLE				NOTIFICATIONS		
10 CFR SECTION:				MOHAMED SHANBAKY RDO		
CCCC 21.21 UNSPECIFIED PARAGRAPH				VERN HODGE (VIA FAX) NRR		
UNIT	SCRAM CODE	RX CRIT	INIT PWR	INIT RX MODE	CURR PWR	CURR RX MODE
2	N	Y	100	POWER OPERATION	100	POWER OPERATION

## EVENT TEXT

10 CFR PART 21 REPORT REGARDING WESTINGHOUSE DB-75 CIRCUIT BREAKERS

THE FOLLOWING IS TEXT OF A FACSIMILE SUBMITTED BY THE LICENSEE:

"ON 07/21/98, DURING THE PERFORMANCE OF THE EMERGENCY DIESEL GENERATOR (EDG) LOAD TEST, THE WESTINGHOUSE MODEL DB-75 OUTPUT BREAKER EDG-2053-005 (SERIAL #880.715-3), WHICH CONNECTS THE EDG TO ITS 480 VAC BUS, WOULD NOT CLOSE. A SECOND ATTEMPT WAS MADE TO CLOSE THE BREAKER, AND AGAIN THE BREAKER DID NOT CLOSE. THE BREAKER WAS REMOVED AND THEREAFTER EXAMINED USING HIGH-SPEED PHOTOGRAPHY. IT WAS OBSERVED THAT THE TRIP BAR OPERATION WAS HANGING UP. THE EXACT CAUSE OF THE TRIP BAR MALFUNCTION WAS NOT INITIALLY IDENTIFIED SO THE MECHANISM WAS REMOVED. DURING FURTHER INVESTIGATION, THE TRIP BAR LATCH AND TRIGGER WERE FOUND TO BIND ON OCCASION DUE TO ROUGH EDGES ON THE FACES. COMPARISONS WERE MADE TO OTHER BREAKER MECHANISMS, AND THESE MECHANISMS COULD NOT BE MADE TO HANG UP IN THIS AREA."

"DURING THE INSPECTIONS OF THE REMAINING DB-75 BREAKERS, ONE ADDITIONAL BREAKER WAS FOUND TO EXHIBIT THE SAME BINDING PROBLEM. THIS WAS EDG BREAKER 2053-006 (SERIAL #880.715-1). THIS BREAKER WAS OF THE SAME SERIES AS THE OTHER BREAKER, WHICH MAY INDICATE A MANUFACTURER'S DEFECT. ANOTHER BREAKER IN THE SAME SERIES WAS EXAMINED BUT DID NOT EXHIBIT THE SAME PROBLEM."

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# CRS - Condition Detail Report

Indian Point Unit II  
10CFR21 report 6,  
Westinghouse DB-75  
breaker.  
Contact: P. Savatini, 1147J45501  
Originator System E2MIS Number  
Jackson, Charles N/A

**Condition Number** 199808570  
**Occurrence Date** 9/24/98 4:50:09 PM  
**Operability Concern** Originator: Yes  
Watch: Pending  
**Location** 480V  
**Method** ST  
**Significance**  
**Reportable** No

## Condition Description:SAO-124 item 71 48 hour "hotline" report required - 10CFR21 Report:

On July 21, 1998, during the performance of the Emergency Diesel Generator (EDG) load test, the Westinghouse Model DB-75 output breaker EDG-2053-005 (serial no. 880.715-3), which connects the EDG to its 480 VAC bus, would not close. A second attempt was made to close the breaker and again the breaker did not close. The breaker was removed and thereafter examined using high-speed photography. It was observed that the trip bar operation was hanging up. The exact cause of the trip bar malfunction was not initially identified so the mechanism was removed. During further investigation the trip bar latch and trigger were found to bind on occasion due to rough edges on the faces. Comparisons were made to other breaker mechanisms and these mechanisms could not be made to hang up in this area.

During the inspections made of the remaining DB-75 breakers, one additional breaker was found to exhibit the same binding problem. This was EDG breaker 2053-006 (serial no. 880.715-1). This breaker was of the same series as the other breaker, which may indicate a manufacturer's defect. Another breaker in the same series was examined but did not exhibit the same problem.

**Immediate Action:**Reported Preliminary Evaluation to the VP Nuclear Power Engineering (accepted as REPORTABLE on 9/24/98 1650 hrs).

Informed operations and wrote this CRS event.

Assignor	Assignee	Status	Due Date	LastUpdated	Action
Jackson, Charles	Global Controller, CRS	New + Unread	9/26/98	9/25/98	Initial Screening

**Action Requested:** SAO-124 item 71 48 hour "hotline" report required - 10CFR21 Report:

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**Reponse:**

**Reviewer Notes:**