

LICENSEE EVENT REPORT

- CINTULA -

CONTROL BLOCK: 036817 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

1 M D C C N 2 0 0 0 - 0 0 0 0 0 0 - 0 0 3 1 1 1 1 1 4 D 5

REPORT SOURCE L 6 0 5 0 0 0 3 1 1 8 7 0 4 0 2 8 1 1 8 0 5 0 1 1 8 1 1 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
During normal operation, at 1445, while attempting to parallel #12 Emergency Diesel Generator (EDG) to #21 4KV bus, the EDG output breaker failed to close (T.S. 3.8.1.1). This occurred again on 4-21-81 while troubleshooting the problem. During both instances, the 2 redundant EDG's and all other EDG output breakers remained operable. Similar event: LER 81-06.

SYSTEM CODE E E 11 CAUSE CODE E 12 CAUSE SUBCODE A 13 COMPONENT CODE C K T B R K 14 COMP. SUBCODE A 15 VALVE SUBCODE Z 16

LER/RO REPORT NUMBER 17 EVENT YEAR 8 1 1 21 22 SEQUENTIAL REPORT NO. 0 1 1 9 24 26 OCCURRENCE CODE 0 3 28 29 REPORT TYPE L 30 31 REVISION NO. 0 32

ACTION TAKEN A 18 33 FUTURE ACTION Z 19 34 EFFECT ON PLANT Z 20 35 SHUTDOWN METHOD Z 21 36 HOURS 0 0 0 22 37 40 ATTACHMENT SUBMITTED Y 23 41 NPRO-4 FORM SUB. Y 24 42 PRIME COMP. SUPPLIER A 25 43 COMPONENT MANUFACTURER G 0 8 0 26 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
Circuit Breaker 152-2106 was found to have intermittent operation of its Spring Charging Motor and Relay switches. Both switches, gang-mounted, were damaged. The actuator to switch shaft clearance was found to be too large. This was the probable cause of contact arcs which damaged the switches. Clearances are checked annually on this breaker.

FACILITY STATUS E 28 8 9 % POWER 1 0 0 0 29 10 12 OTHER STATUS NA 30 13 METHOD OF DISCOVERY A 31 44 DISCOVERY DESCRIPTION Operator Observation 32 45 46

ACTIVITY CONTENT Z 33 8 9 RELEASED OF RELEASE Z 34 10 11 AMOUNT OF ACTIVITY NA 35 44 LOCATION OF RELEASE NA 36 45 46

PERSONNEL EXPOSURES NUMBER 0 0 0 37 11 12 TYPE Z 38 13 DESCRIPTION NA 39 44

PERSONNEL INJURIES NUMBER 0 0 0 40 11 12 DESCRIPTION NA 41 44

LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 8 9 DESCRIPTION NA 43 10 11

PUBLICITY ISSUED N 44 8 9 DESCRIPTION NA 45 10 11

R. I. Wenderlich/P. G. Rizzo

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8211020330 810501 PDR ADOCK 05000318 S PDR

LER NO. 81-19/3L
DOCKET NO. 50-318
LICENSE NO. DPR-69
EVENT DATE 04-02-81
REPORT DATE 05-01-81
ATTACHMENT

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (CONT'D)

This event is considered to be a recurrence of a January 13, 1981 event (Ref. LER 81-06 Rev. 1). No failed component was found during the earlier troubleshooting of the General Electric Co. Magne-Blast Circuit Breaker (Type AMH-4.7C-250-1D) malfunction. On this second occasion, the circuit breaker closure spring charging motor and relay switches (G. E. Co. No. CR2940U310), which are mechanically ganged, were found to be malfunctioning. Either of them would prevent the motor from operating to charge the closure spring. The motor switch was sticking and the relay switch was electrically intermittent. The contacts in both switches were burned and the motor switch internals had been heated to the point that melting of the switch block contact guide allowed a contact set to be misaligned.

Mechanical alignment checks disclosed the clearance between the cam actuator for these switches and the switch operating shaft was one sixteenth of an inch, vice the one thirty-second inch specification provided in the manufacturer's technical manual. It is likely that the increased clearance caused the switches' contacts to arc initially, resulting in contact damage.

Clearances are checked annually under the existing preventive maintenance program for this and similar service breakers installed in the plant. Breaker No. 152-2106 had been last checked on September 23, 1980.

The existing preventive maintenance procedure is deemed adequate, and the selected frequency of performing the procedures is within the Manufacturer's recommendations. Because this is the first failure of this type known to have occurred at Calvert Cliffs no further preventive action is presently deemed necessary.