

PRIORITY ATTENTION REQUIRED MORNING REPORT - REGION V DECEMBER 1, 1993

Licensee/Facility:

Southern California Edison & San Diego Gas & Electric Co.
San Onofre 2 3

Notification:

MR Number: 5-93-0088
Date: 12/01/93
TELEPHONE CALL FROM RI

Camp Pendleton, California
Dockets: 50-361,50-362
PWR/CE, PWR/CE

Subject: DIESEL GENERATOR ROTO SWITCH BOLT FAILURE

Reportable Event Number: N/A

Discussion:

While performing Unit 3 integrated Engineered Safety Features testing on November 28, 1993, the output breaker for diesel generator (DG) 3G003 tripped while the DG was attempting to pick up load. The trip was caused by a protective differential current relay.

The differential current relay "sensed" a differential current condition when a roto test switch failed and caused an open circuit on one of the phases into the differential current relay. The roto test switch was manufactured by the Meter Devices Company and is used to isolate the differential current relay from the diesel protection circuit during periodic testing. The failure of the roto test switch was attributed to a bolt head that sheared off of one of the switch connections. Following a 1988 Unit 3 outage, the licensee observed a similar bolt failure in the same roto switch while inspecting the DG switchgear prior to plant

startup. There are 14 roto switches per DG and two DGs per Unit.

The licensee replaced the failed roto switch, tested the remaining switches on the 3G003 DG, and is currently in the process of testing the switches on the other Unit 3 DG. The licensee will also perform a root cause of failure analysis of the failed bolt. The licensee also plans to test the switches on the Unit 2 DGs during the next scheduled monthly testing (starting: 12/7/93).

San Onofre Unit 2 is operating at 98 percent power. San Onofre Unit 3 is currently in Mode 5 during a refueling outage.

Regional Action:

The resident inspectors will continue to follow the licensee's corrective actions.

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