



Commonwealth Edison
One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

BBS Ltr. #562-75

Dresden Nuclear Power Station
R. R. #1
Morris, Illinois 60450
August 29, 1975

Mr. James G. Keppler, Regional Director
Directorate of Regulatory Operation-Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137



SUBJECT: REPORT OF ABNORMAL OCCURRENCE PER SECTION 6.6.A OF THE TECHNICAL
SPECIFICATIONS
FAILURE OF CIRCUIT BREAKER 152-3403

- References: 1) Regulatory Guide 1.16 Rev. 1 Appendix A
- 2) Notification of Region III of U. S. Nuclear Regulatory Commission
Telephone: H. Kister, 1430 hours on August 21, 1975
Telegram: J. Keppler, 1510 hours on August 21, 1975
- 3) Drawing Number 12E-3344

Report Number: 50-249/75-35

Report Date: August 29, 1975

Occurrence Date: August 21, 1975

Facility: Dresden Nuclear Power Station, Morris, Illinois

IDENTIFICATION OF OCCURRENCE

Circuit breaker 152-3403 failed to trip (open) during a breaker trip test.
Circuit breaker 152-3403 isolates bus 34 in the event of loss of off-site power.

CONDITIONS PRIOR TO OCCURRENCE

Unit-3 was in the shutdown mode. The Emergency Core Cooling System (ECCS) functional test was in progress.

DESCRIPTION OF OCCURRENCE

At 0200 hours on August 21, 1975, bus 34 was de-energized for the ECCS test. The Operational Analysis Department conducted the breaker trip test on the breakers of bus 34 while the bus was de-energized. As the trip coil of breaker 152-3430 was energized, the coil burned out before tripping the breaker.

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August 29, 1975

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE (Component Failure)

The failure of the trip coil caused the breaker to remain closed. Examination showed the trip latching mechanism and other breaker components to be completely serviceable. The coil failure prevented the trip latch from releasing the spring-loaded breaker.

ANALYSIS OF OCCURRENCE

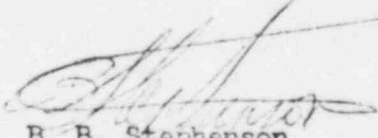
Circuit breaker 152-3403 is located in series with breaker 152-3432 on bus 34-1. Had it become necessary to isolate bus 34-1 from bus 34 because of emergency conditions, both breakers would have received tripping signals. Since the redundant breaker on bus 34-1 was always operable, there was no threat of inadvertently overloading the diesel generator. Consequently, plant personnel and the public were not jeopardized by this occurrence.

CORRECTIVE ACTION

To return normal feed to bus 34-1, breaker 152-3403 was replaced with an identical breaker used in the circulating water pump 3C compartment. The trip coil of breaker 152-3403 was replaced, and the breaker was successfully tripped several times.

FAILURE DATA

No previously reported coil failure in this type of breaker has occurred at Dresden. The air circuit breaker is a General Electric Magne Blast breaker, type AMH 4.76-250, rated at 4KV and 1200 amps.



B. B. Stephenson
Superintendent

BBS:ELS:smp

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