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Power
Company**

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General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

August 28, 1974

Directorate of Licensing
US Atomic Energy Commission
Washington, DC 20545

Re: Docket 50-255
License No DPR-20
Palisades Plant
AO-74-11 (Additional Info)

Gentlemen:

By letter dated June 20, 1974, we provided a preliminary report of an abnormal occurrence (No 74-11) at the Palisades Plant on June 9, 1974. This abnormal occurrence involved Control Breaker 72-203 on the 1D bus.

The investigation disclosed several other problems which have been corrected and are included as part of AO-74-11. We now consider this investigation to be complete, and the attached report is submitted.

Yours very truly,

Ralph B. Sewell (Signed)

DAB/mel

Ralph B. Sewell
Nuclear Licensing Administrator

CC: JGKeppler, USAEC



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ABNORMAL OCCURRENCE REPORT
Palisades Plant

1. Report Number: AO-74-11, Docket 50-255
2. a. Report Dates: June 19, 1974 and August 28, 1974
b. Occurrence Date: June 9, 1974
3. Facility: Palisades Plant
4. Identification of Occurrence: Loss of d-c control power to bus 1D feeder breaker - Breaker 72-203.
5. Condition of Occurrence: Plant in cold shutdown condition.
6. Description of Occurrence: On June 9, 1974, at approximately 1615 hours, the operator reported to the Shift Supervisor that the indicating lights for the circuit breakers on Bus 1D were out. The local lights at 1D bus were also out, and d-c Control Power Breaker 72-203 (100 amp) was tripped and attempts to reset failed. With the assistance of an electrician, the breaker was reset; however, no reason for the breaker trip could be determined at that time. Additional testing and visual inspection could determine no problem with the loading circuits. However, on at least one occasion, the breaker tripped while the circuit was being loaded (that incident could not be repeated).
7. Designation of Apparent Cause of Occurrence: Component failure. The most probable cause was a marginal reset latch in the breaker. Test on manual resetting of the breaker indicated that special breaker handle motion was required to assure consistent latching of the breaker. The investigation also revealed that the breaker had been operated earlier in the day, and it was concluded that when the breaker was reset, it probably did not close properly.

In addition to the marginal reset latch on the breaker, several other problems were found during the investigation. These were as follows:

- a. The d-c undervoltage alarm for Bus 1D was not connected (scheme A1006).
- b. The power feed to Bus 1D undervoltage and load shed (Scheme A1006) was not properly wired. The scheme was wired to Breaker 72-202 instead of Breaker 72-203 (per Bechtel drawings).

The investigation also determined that the incoming breaker's d-c control did not have an undervoltage alarm. This additional alarm system is considered desirable and a facility change to add alarms to both the 1C and 1D buses is being processed.

8. Analysis of Occurrence: The loss of d-c control power to the Bus 1D feeder breaker results in the breakers not being able to trip in case of equipment malfunction. With no alarm resulting from loss of control power, the operator would not be aware of the situation.
9. Corrective Action:
 - a. Replaced Breaker 72-203 with a new one.
 - b. Corrected power to Scheme A1006 so that it is fed from 72-203.
 - c. Completed wiring undervoltage alarm for 72-203 and verified operability.
 - d. Verified that the proper schemes are fed from the proper d-c breaker on 1D bus.
 - e. Verified the proper breaker feeds on 1C bus and the undervoltage alarm function.
 - f. Verified the proper breaker feeds on 1E bus and the control power light function.
10. Failure Data:
 - a. There are no records of a previous failure or malfunction of this type on this equipment.
 - b. Equipment Identification: Westinghouse Circuit Breaker, Model No FB21550ML, Type FB, 600 VAC - 250 VDC, 100 amp continuous current rating, Style No 4994D95G08.