



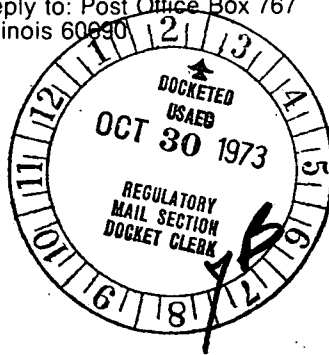
Commonwealth Edison
 One First National Plaza, Chicago, Illinois
 Address Reply to: Post Office Box 767
 Chicago, Illinois 60690

Regulatory

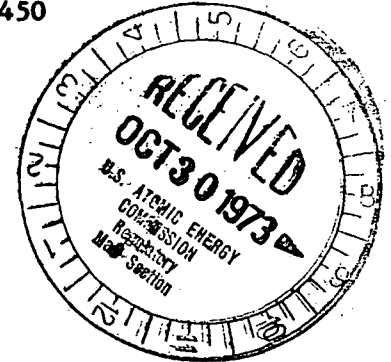
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WPW Ltr.#803-73



Dresden Nuclear Power Station
 R. R. #1
 Morris, Illinois 60450
 October 26, 1973



Mr. A. Giambusso
 Deputy Director for Reactor Projects
 Directorate of Licensing
 U. S. Atomic Energy Commission
 Washington, D. C. 20545

**SUBJECT: LICENSE DPR-19, DRESDEN NUCLEAR POWER STATION, UNIT #2,
SECTION 6.6.B.2 OF THE TECHNICAL SPECIFICATIONS.
ISOLATION CONDENSER VALVE TRIP.**

- References: 1) Dresden Station Drawings P&ID M-28
- 2) Notification of Region III of AEC Regulatory Operations
 Telephone: Mr. Dance, 1820 hours on October 19, 1973
 Telegram: Mr. Keppler, 1930 hours on October 19, 1973

Dear Mr. Giambusso:

This letter is to report a condition relating to the operation of the unit at about 1630 hours on October 19, 1973. At this time, Isolation Condenser valve MO-2-1301-1 tripped during its operation. This malfunction is contrary to section 3.5.B.1 of the Technical Specifications which requires that the Isolation Condenser be operable when reactor pressure is greater than 90 psig and irradiated fuel is in the core.

PROBLEM

Following a reactor scram due to inboard MSIV closure, the Isolation Condenser system was placed in service to control pressure. A flow surge was then experienced which caused the isolation of the Isolation Condenser system. Following the isolation, the system was reset, and all valves started to open. During the process of opening, the Isolation Condenser valve MO-2-1301-1 tripped in mid position.

At the time of the occurrence, the reactor was in the "Refuel" mode and reactor pressure was 1005 psig. During the failure, all control rods were inserted due to the scram experienced earlier.

To immediately correct the condition, an operator was sent to inspect the breaker. Finding it in the trip position, he reset it. Following the breaker reset, correct operation of the valve was possible.

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INVESTIGATION

An investigation into the problem revealed that the breaker for the MO-2-1301-1 valve was faulty.

The breaker for the MO-2-1301-1 valve had an adjustable magnetic trip setting between 65 and 165 amps. At the time of the failure, the indicated setting on the breaker was 105 amps. This setting was satisfactory since the starting current for the valve motor was 80 amps. However, when the breaker was tested, it was found to trip at 75 amps. With a setting of 75 amps, the breaker would trip any time this value was exceeded.

Further investigation into the reason for the apparent drift in amp setting is being conducted at this time by our station electrical engineering department.

Prior to this time, the company's operational analysis department performed simulated trips on two breakers from the station to determine whether they were tripping at their indicated amp settings. These breakers did perform as designed. This new failure is the first known failure of its kind to occur at the station, thus it should hopefully give the station some insight into the mode of failure.

The cause of the spurious high flow isolation is under investigation. The results of the investigation will be reported before November 26, 1973.

CORRECTIVE ACTION

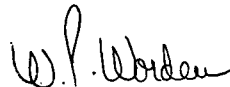
The immediate corrective action taken was to reset the breaker trip. Following the trip reset, the valve operated normally. In addition, the faulty breaker was replaced and the valve tested satisfactorily.

EVALUATION

During the failure of the MO-2-1301-1 valve, the safety of the plant and public was not in jeopardy. When the breaker trip occurred, the valve was in the mid position and control of pressure was possible. Also, if pressure control was not possible the auto blowdown system and the HPCI system were operational.

As a result of the satisfactory tests performed on the breaker replacement and the valve, the startup of the unit was considered safe.

Sincerely,



W. P. Worden
Superintendent

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