LICENSEE EVENT REPORT (LER)											U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES 8/31/85											
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On January 26, 1985, Unit No. 1 was operating at 100% power with Channel 2 of Overpower-Overtemperature ΔT in a tripped condition. At 0930, Unit No. 1 experienced an Overpower ΔT (OP ΔT) reactor trip. Plant parameters did not indicate a valid OP ΔT condition at the time of the reactor trip. The reactor trip was due to a voltage transient induced on Vital Bus I when a momentary overload condition existed that caused circuit breaker No. 13 to trip open. Electrical checks were made in an attempt to determine the reason for the tripping of the circuit breaker. The cause for the overload condition could not be identified. Channel 2 Overpower and Overtemperature was modified and removed from a tripped condition.

19-831 LICENSEE EVENT	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION									
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1. Description of the Event

On January 26, 1985, Unit No. 1 was operating at 100% power with channel 2 of Overpower and Overtemperature ΔT in a tripped condition. Channel 2 was in a tripped condition because of a failed temperature sensor. At 0930, an Overpower ΔT reactor trip was experienced.

POW 28-06-01

Following the reactor trip, operators noted that control and protection systems functioned properly except for: (1) Steam Generator blowdown trip valve TV-BD-100C indicated in an intermediate position, (2) a 15 amp circuit breaker (No. 13) on Vital Instrument Bus I (reactor protection channel 1) in a tripped condition.

Operators followed appropriate plant procedures and quickly stabilized the plant following the reactor trip.

2. Probable Consequences

Plant parameters did not indicate a valid OPAT condition at the time of the reactor trip. The redundant steam generator blowdown trip valve did indicate closed and blowdown flow was verified to be secured. The components powered by the tripped circuit breaker are containment isolation valves for non-essential systems. A loss of power will cause the valves to close thereby performing their safety function, i.e. containment isolation. The closure of these valves did not have an affect on the stabilization of the plant following the reactor trip.

Since plant parameters remained within their normal limits and safety system functions remained intact, an unreviewed safety question was not created and the health and safety of the public were unaffected.

3. Cause

The reactor trip was due to a voltage transient induced on Vital Bus I when a momentary overload condition existed that caused circuit breaker No. 13 to trip open. The cause for the overload condition could not be identified.

The voltage transient caused a channel 1 OPAT reactor trip signal and with channel 2 OPAT already in a tripped condition, a 2 out of 3 OPAT reactor trip occurred. The failure of TV-BD-100C to indicate fully closed was due to a faulty valve position limit switch.

4. Immediate Corrective Action

Operators performed appropriate Emergency Procedures and Function Restoration Procedures to ensure the plant was returned to a stable condition.

Also, the STA performed the status tree reviews to ensure specific plant parameters were noted and the appropriate procedures were used to maintain those parameters within safe bounds.

NRC Form 366A (9.83) LICENSEE EVENT REPORT (LER) TEXT CONTIN								NU	US NUCLEAR REGULAT UATION APPROVED OMB N EXPIRES: 8/31/85									
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5. Additional Corrective Actions

Electrical checks (continuity, insulation resistance), were made in an attempt to determine the reason for tripping the circuit breaker. The static and dynamic load currents were measured with 2 amps being the maximum current drawn by the affected circuit.

6. Action Taken to Prevent Recurrence

REACTOR TRIP

The ΔT protection circuit was connected to another temperature sensor (Channel 2 ΔT control) and the OPAT and OTAT were removed from a tripped condition. The ΔT protection temperature sensor will be replaced during a forthcoming outage and the ΔT control circuit returned to its original configuration.

BLOWDOWN TRIP VALVE

The limit switch will be replaced during an upcoming maintenance outage.

7. Generic Implications

None.