

Surry Power Station, Unit 1
Docket No: 50-280
Report No: 78-031/03X-1
Event Date: 11-11-78

Title of Report: Drift in Pressurizer Level Channel

1. Description of Event:

During normal operation, Channel I of the Pressurizer Level (Protection) instrumentation, L-1-459, drifted high. This resulted in the inability of this channel to supply a reliable signal of low pressurizer level to the Safety Injection logics. The required degree of redundancy was not maintained and this is contrary to Technical Specifications 3.7.B and is reportable per Technical Specification 6.6.2.b.(1).

2. Probable Consequences and Status of Redundant Systems:

Channel I Pressurizer level was put in the trip mode. All other pressurizer level instrumentation remained operable. Because the required immediate corrective action was taken and the degree of redundancy regained, the health and safety of the general public were not affected.

3. Cause:

The event was caused by drift of the electronic zero adjustment in conjunction with leakage through the transmitter's bypass/equalizing valve.

4. Immediate Corrective Action:

Immediate corrective action taken was to place Channel I Pressurizer Level into the trip mode. This provided the required degree of redundancy in the pressurizer level instrumentation.

5. Subsequent Corrective Action:

Subsequently, the zero adjust input voltage was checked and found to be high. Further inspection revealed a leak in the bypass equalizing valve. The valve was tightened and the transmitter was rezeroed. The channel was monitored to verify that the transmitter was not drifting. The channel was then returned to service.

6. Actions Taken to Prevent Recurrence:

No further corrective action will be required. This event is considered a random event.

7. Generic Implications:

None. It is considered a random event.