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ATTACHMENT 1
SURRY POWER STATION, UNIT NO. 2
DOCKET NO: 50-281
REPORT NO: 82-064/03L-0
EVENT DATE: 10-10-82

TITLE OF THE EVENT: TV-CC-209B FAILED TO CLOSE

1. Description of the Event:

On October 10, 1982, trip valve, TV-CC-209B, failed to close upon receipt of a safety injection signal. This event is contrary to Technical Specification 3.8.A.1 and is reportable pursuant to Technical Specification 6.6.2.b.(2).

2. Probable Consequences and Status of Redundant Equipment:

The Design Basis for the containment isolation system is that during accident conditions, at least two barriers exist between the atmosphere outside the containment structure and:

- (a) the atmosphere inside the containment structure.
- (b) the reactor coolant and connecting systems.

Failure of one valve or barrier will not prevent isolation of the containment.

Component cooling water piping is separated from the reactor coolant system and connecting systems, and the atmosphere by a membrane barrier.

Since the integrity of the membrane barrier, the component cooling water piping, was maintained, an isolation barrier between the inside of the containment structure and environment was maintained during this event. Therefore, the health and safety of the public were not affected.

3. Cause of the Event:

The cause of this event was determined to be a faulty pilot valve which controls air flow to the diaphragm actuator of the component cooling trip valve.

4. Immediate Corrective Actions:

An attempt was made to manually cycle the valve. When the valve failed to respond, an operator was dispatched to assume administrative control of the manual isolation valve.

5. Subsequent Corrective Actions:

The pilot valve was replaced and the trip valve was tested satisfactorily.

6. Actions Taken to Prevent Recurrence:

Necessary actions to prevent recurrence were determined by Engineering Study 82-48. A design change to implement the recommended actions is awaiting review and approval.

7. Generic Implications:

The problems and solutions are common to Surry Units 1 and 2.