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SURRY POWER STATION, UNIT 1
DOCKET NO: 50-280
REPORT NO: 79-034/01T-0
EVENT DATE: 12/7/79
TITLE OF EVENT: Discrepancy in Air Ejector Trip Valve Operation (TV-SV-102)

1. DESCRIPTION OF EVENT:

During a recent analysis, a non-conservative feature was found that is contrary to an FSAR commitment. The unreviewed safety question concerned a discrepancy in the operation of a Containment Isolation valve. This event is reportable in accordance with Technical Specification 6.6.2.a.9.

2. PROBABLE CONSEQUENCES/STATUS OF REDUNDANT SYSTEMS:

The analysis revealed that when a radiation alarm setpoint is reached in the discharge line of the air ejectors of Units 1 and 2, trip valves divert air to the containment. A CLS Hi signal will close the containment valve. If the CLS Hi signal is reset and a radiation alarm is still present, the valve will reopen without the operator taking manual action. However, the CLS Hi signal is not reset until the containment is sub-atmospheric. Therefore, if a radiation alarm is present, a release into containment will not affect the health and safety of the public.

3. CAUSE:

The non-conservative feature of the trip valve control system was caused by a design that was not in accordance with the FSAR.

4. IMMEDIATE CORRECTIVE ACTIONS:

Upon the discovery of the discrepancy in the trip valve operation, administrative guidelines were initiated to insure that prior to the resetting of the CLS Hi signal, the air supply to TV-SV-102 would be isolated to prevent the valve from reopening without operator action. Appropriate action will be taken on TV-SV-202 prior to unit startup.

5. SCHEDULED CORRECTIVE ACTION:

A detailed analysis has been initiated to provide for the conservative operation of TV-SV-102, 202 following the resetting of the CLS Hi signal.

6. ACTION TAKEN TO PREVENT RECURRENCE:

Administrative action was taken to prevent the opening of the valve following the removal of the CLS Hi signal to conform to the FSAR commitment. An analysis has been initiated to insure that the valve functions in a conservative manner.

7. GENERIC IMPLICATIONS:

This event was identified at North Anna and found to be applicable at Surry.