

Sequoyah Nuclear Plant

LER SUPPLEMENTAL INFORMATION

SQRO-50-327/82128

Technical Specification Involved: 3.7.7

Reported Under Technical Specification: 6.9.1.12.b

Date of Occurrence: 11/09/82

Time of Occurrence: 0800 CST

Identification and Description of Occurrence:

During a walkdown of the control building emergency ventilation system, maintenance was being performed on the control room normal pressurization fan A-A, which had been removed from the duct. Prior to work, the power fuses had been pulled to close the dampers in the suction side of the fan. On 11/09/82, it was discovered that the dampers had not closed. This allowed a direct flow path to the outside environment. In the event of control room isolation, this could have prevented the control room emergency ventilation system from maintaining a positive pressure in the control room of greater than or equal to 1/8" water gauge relative to the outside atmosphere, and/or from maintaining the required 200 cfm unfiltered air intake into the control room. This event required entry into the action statements of LCO 3.7.7 and 3.0.3.

Conditions Prior to Occurrence:

Unit 1 in mode 6 (refueling) and unit 2 in mode 1 (97% power).

Apparent Cause of Occurrence:

The suction damper FCO-31A-14 failed to close upon removal of its power source due to a faulty air operated solenoid valve. The solenoid was sticking and did not allow the air to bleed off which prevented the damper from closing.

Analysis of Occurrence:

Special tests were conducted with both unit 1 and 2 in mode 5 to determine if the control room emergency ventilation system could have maintained technical specification requirements during a control room isolation with the pressurization fan removed and its suction damper closed. The test proved proper operation could be maintained. Therefore had the suction damper closed, this event would not have been reportable since the fan was removed for planned maintenance. This has been determined to be a component failure of the suction damper solenoid.

Corrective Action:

The control room normal pressurization fan A-A was replaced at the time of discovery and the emergency ventilation system was declared operable at 1000 CST on 11/09/82. The suction damper FCO-31A-14 was repaired and operation verified on 11/19/82.

Cautionary signs have been placed on critical control building ventilation fan, ducts, and dampers necessary to maintain integrity of the control room pressure boundary to ensure proper coordination when doing maintenance work.

Failure Data:

None.