

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

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LER SUPPLEMENTAL INFORMATION

SQRO-50-327/83038

Technical Specification Involved: 3.8.1.1

Reported Under Technical Specification: 6.9.1.12.i

Date of Occurrence: 03/25/83

Time of Occurrence: 0915 CST

Identification and Description of Occurrence:

Unit 1 was in mode 1 and 97% power and steady-state operation, and unit 2 was in mode 1 and 98% power and steady-state operation. The TVA Engineering Design Division revised Nonconformance Report (NCR) SQNNEB8212 to indicate that when the outside temperature to the diesel generator (D/G) rooms is above 88 degrees F, the cabinets that housed the D/G controls would overheat. This would cause the D/Gs to become erratic and therefore inoperable. The second factor for inoperability is the generator. If the generator inlet temperature limit is exceeded, it will start to short out internally and the generator differential relay will shut the system down.

Conditions Prior to Occurrence:

Same as identified above.

Apparent Cause of Occurrence:

The D/G room ventilation was not designed with enough capacity for the present heat load.

Analysis of Occurrence:

NCR SQNNEB8212 identified a heat load problem in the D/G rooms. A special test was run on March 9, 1983, to verify the NCR assumptions. The test provided data indicating that for outside temperature above 88 degrees F, the D/G controls possibly would fail due to elevated temperatures. These elevated temperatures are attributed to the increased heat load of the D/Gs above the original design assumption. It can be also noted that the elevated temperatures could possibly cause a generator failure due to the air inlet temperature limit being exceeded.

Corrective Action:

Presently procedures are being written to incorporate portable fans, security, and a firewatch to be available should the temperature demand it. The final fix will be a modification to the ventilation system to eliminate hot spots in the D/G rooms.

Failure Data:

None.