

TELECOPY TO NRC  
May 18, 1983

U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW  
Suite 3100  
Atlanta, Georgia 30303

BFR0-50-259/83024

Reported under Technical Specification 6.7.2.a (9)

Telecopy : Date: 5/18/83 Time: 1300 hours

Telephone : Date: 5/18/83 Time: 1145 hours

Person Contacted: Ross Butcher

Date of Occurrence: 5/17/83 Time of Occurrence: 1400 Unit: Common

Technical Specification Involved: 3.9.B

Conditions Prior to Occurrence

Unit 1 - Refuel Outage  
Unit 2 - Steady state at 99% power  
Unit 3 - Steady state at 100% power

Identification and Description of Occurrence

A design review of the capabilities of the emergency diesel generator room ventilation system revealed that they may not prevent design temperature limits of some electrical components in the room from being exceeded for certain high electrical load and high outside ambient air temperature combinations. Initial indications were that design temperature limits of some electrical components may be exceeded with an outside ambient temperature of 87.3°F in the as designed ventilation configuration.

Apparent Cause of Occurrence

Apparent error in diesel-generator heat dissipation data that was originally used as the design basis for the diesel generator building ventilation system.

Other Related Events

None

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Corrective Action Taken or Planned

It was determined from test data and calculations that an outside air temperature of 98.7°F could be accommodated if a deflector was installed in the diesel room to direct generator ventilation exhaust air away from the electrical components of concern. After the potential problem was identified, deflectors were installed in all eight diesel-generator rooms before outside air temperatures exceeded 87.3°F. These deflectors will be replaced by a permanent ducting modification to route the generator ventilation exhaust air from the area of electrical components directly to the room exhaust fan suction.

*J. A. Coffey*  
for J.A. Coffey  
Acting Power Plant Superintendent  
Browns Ferry Nuclear Plant