

DUKE POWER COMPANY  
OCONEE UNIT 3

Report No.: AO-287/74-10

Report Date: December 4, 1974

Occurrence Date: November 19, 1974

Facility: Oconee Unit 3, Seneca, South Carolina

Identification of Occurrence: AC vital instrumentation bus energized from improper source

Conditions Prior to Occurrence: Unit at 75 percent full power

Description of Occurrence:

On November 19, 1974, as a result of the incident reported in Abnormal Occurrence Report AO-270/74-18, an inspection of Oconee Unit 3 static inverters was conducted. The 3DID static inverter manual selector switch was discovered in the "Regulated AC" position rather than the normal "Inverter" position. Thus, one of the four AC vital panelboards was being energized from the regulated AC bus rather than through the battery, diode, static inverter string as intended in Technical Specification 3.7.1. The inverter selector switch was immediately returned to the "Inverter" position to supply the AC vital panelboard from the inverter..

Designation of Apparent Cause of Occurrence:

Operations personnel felt that it was not necessary that the inverter supply the vital panelboard because Technical Specification 3.7.1 does not specifically state that the inverters be operable and supplying the AC vital panelboards. All other components in the electrical string from the batteries to the AC vital panelboards are specifically identified in the Technical Specifications and the operating procedures.

Analysis of Occurrence:

The function of the 3DID inverter was replaced by use of the regulated AC source to supply the 3KVID AC vital panelboard. The regulated AC source is from a non-load shed circuit and the inverter loads would have been temporarily deenergized, until the emergency power source was energized, had a loss of all Unit 3 AC power occurred while the inverter was bypassed. In the event the bus had been deenergized, the RPS Channel D would have been deenergized and given a tripped indication. This would place the remaining RPS channels in a one-out-of-three logic state necessary for a trip. This is a more conservative mode of operation for the Reactor Protective System. It is concluded that the health and safety of the public was not affected.

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Corrective Action:

The interpretation of Technical Specification 3.7.1 has been reviewed with operating personnel. The Normal Power Lineup Electrical Checklist OP/1107/02 for each Oconee unit has been revised to specify that all four AC vital instrumentation panelboards be supplied from their respective inverters prior to exceeding 200<sup>o</sup>F. This procedure is followed at the beginning of each unit startup.