

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8011030491 DOC.DATE: 80/10/24 NOTARIZED: NO
 FACIL:50-269 Oconee Nuclear Station, Unit 1, Duke Power Co.
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 Region 2, Atlanta, Office of the Director

DOCKET #
05000269

SUBJECT: LER 80-029/03L-0: on 800926, Unit 2 failed to come up to synchronous speed on normal start & was shut down by operation of volts-to-Hertz relay. Caused by bent clamp on governor distributing valve. Mod approved to replace clamp.

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 TITLE: Incident Reports

NOTES: M Cunningham: all amends to FSAR & changes to Tech Specs. 05000269
 AEOD, Ornstein: lcc.

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DUKE POWER COMPANY
OCONEE NUCLEAR STATION

Report Number: RO-269/80-29

Report Date: October 24, 1980

Occurrence Date: September 25, 1980

Facility: Oconee Nuclear Station, Seneca, South Carolina

Identification of Occurrence: Keowee Unit 2 Declared Inoperable

Conditions Prior to Occurrence: Oconee 1 - 100% FP
Oconee 2 - 100% FP
Oconee 3 - 100% FP

Description of Occurrence:

At 2004 hours on September 25, 1980, Keowee Unit 2 failed to come up to synchronous speed on normal start and was shutdown by the operation of a volts-per-Hertz relay (excitation voltage protection). This constitutes operation in a degraded mode per Technical Specification 3.7.2 and is thus reportable pursuant to Technical Specification 6.6.2.1.b(2).

Apparent Cause of Occurrence:

The cause of the failure of the unit to come up to speed was due to a governor distributing valve brushing retaining clamp, which was found to be slightly bent. This allowed the brushing to move slightly up and down with the valve, thus inhibiting the oil supply necessary to control the turbine wicket gates and therefore the speed of the unit.

Analysis of Occurrence:

The failure of the governor valve would probably have degraded the ability of the unit to operate at full speed. It is not possible to determine whether the unit would have been functional to supply emergency power under these conditions. However, Unit 1 was connected to the underground feeder and was available for emergency power to Oconee, thus meeting Oconee's requirement for emergency power. Thus, this incident was of no significance with respect to safe operation, and the health and safety of the public were not affected.

Corrective Action:

The brushing retaining the clamp was tightened and the distributing valve was reassembled. The manufacturer of the governor has recommended a modification which has been approved for implementation. This modification is to replace the clamp with a heavier version. This modification should prevent reoccurrence of this type of failure.

