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SUBJECT: Provides addl info requested in 851122 telcon re inoperability of Keowee Hydro Unit 2 due to burned out laminated copper connection between two coils. Corrective actions will be completed by 851130.

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November 25, 1985

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. J. F. Stolz, Chief
Operating Reactors Branch No. 4

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

Dear Sir:

By letter dated November 22, 1985, Duke Power Company (Duke) had advised the NRC of the inoperability of Keowee Hydro Unit 2 due to a burned out laminated copper connection between two coils. The November 22, 1985 letter also documented a November 20, 1985 conference call with members of the NRC Staff during which the NRC verbally agreed to approve Duke's request pursuant to Technical Specification (T.S.) 3.7.4 to allow for the continued operation of all three Oconee units. In a subsequent November 22, 1985 conference call, the NRC Staff requested additional information regarding the inoperability of Keowee Hydro Unit 2. The following paragraphs provide the requested additional information.

The auxiliaries of two units in hot shutdown (6.0 MVA each) plus the auxiliaries activated by Engineered Safeguards (ESG) signal in the third unit (4.8 MVA) require a total AC power capacity of 16.8 MVA. With Keowee Hydro Unit 2 inoperable, the AC power capacity available from Keowee Hydro Unit 1 is 20 MVA if furnished by the underground circuit through CT-4, or 30 MVA if furnished through the 230 Kv Switchyard Station and the startup transformers (CT-1, 2 and/or 3). In addition, redundant AC capacity of 20 MVA available from the Lee Station gas turbine generators through CT-5. In summary, the above information shows that there is sufficient emergency AC power to shutdown and maintain all three units in a safe shutdown condition. Further details of the capabilities of Oconee's onsite AC power systems is provided in the Oconee Nuclear Station Final Safety Analysis Report Section 8.3.1.

While operating in this degraded mode (one Keowee unit inoperable for more than 72 hours) Oconee T.S. require that: 1) the 4160 volt standby buses be energized by Lee through CT-5; 2) the remaining

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Keowee unit be connected to the underground feeder circuit and that this path is verified operable weekly; and 3) that the remaining hydro unit not to be utilized for Duke system generation.

In addition to the above, another completely independent means of shutting down and maintaining all three Oconee units in a hot shutdown condition is available. The Standby Shutdown Facility (SSF) is a bunkered facility which houses systems and components necessary to provide an alternate and independent means of achieving and maintaining hot shutdown for one or more of the three Oconee units. The SSF has the capability of maintaining hot shutdown conditions in all three Oconee units for approximately three days following a loss of normal AC power. Additional details of the SSF can be found in a NRC Safety Evaluation Report which was transmitted to Duke by a NRC letter dated April 28, 1983.

The Keowee Hydro Unit 2 outage was extended beyond 72 hours due to the following problems:

- (1) Limited access and tight wedges, which hold the field coils to the rotor, necessitated removal of the rotor from the generator to facilitate removal of the wedges.
- (2) Additional inspection of the remaining field coils revealed loose coils which is believed to have contributed to the failure of the connecting strap. Additional time is required to tighten the field coils utilizing epoxy soaked felt.

Work concerning the original field coils and connecting strap is complete with the exception of the brazing.

Remaining work includes:

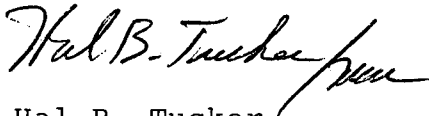
- (1) Braze connector.
- (2) Tighten field coils.
- (3) Reassemble generator.
- (4) Testing.

To date the above work is expected to be complete and the unit returned to service on November 30, 1985. Work is continuing 24 hours per day. Any required resources are made available, and parts delivery is expedited to the extent possible. The NRC will be advised through the project manager of any changes to this proposed schedule.

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An evaluation of an inspection and schedule for Keowee Hydro Unit 1 relating to the problems described above is underway. Duke anticipates being able to advise the NRC the results of the evaluation by December 13, 1985.

Very truly yours,



Hal B. Tucker

PFG:slb

cc: Dr. J. Nelson Grace, Regional Administrator
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Oconee Nuclear Station