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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

DOCKET NOS.: 50-269/270/287

DATE: November 14, 1975

LICENSEE: Duke Power Company (DPC)

FACILITY: Oconee Units 1, 2, and 3

SUMMARY OF MEETING HELD ON NOVEMBER 3, 1975, TO DISCUSS A PROPOSED GAS  
TURBINE EMERGENCY POWER SOURCE FOR THE OCONEE NUCLEAR STATION

On November 3, 1975, representatives of Duke Power Company met with the NRC staff to discuss the licensee's preliminary plans to install two gas turbines as an emergency power source for us during prolonged outages of the Keowee hydroelectric plants.

A list of attendees is enclosed.

Significant points are discussed below.

The Oconee Nuclear Station has as its primary on-site source of emergency power the two Keowee hydroelectric units. When both of these are unavailable, Technical Specifications require that the 4160 volt standby buses be energized by one of the Lee Gas Turbines which are located approximately 23 miles from the Oconee Station. It was originally anticipated that the periods of unavailability, due to maintenance requirements, for the hydroelectric units would be about 1 day each year plus 4 days every 10 years. These brief outages were considered to be acceptable. The second outage interval, however, has been reevaluated to require approximately 2 months every 6 years. The licensee is therefore considering the installation of 2 gas turbines as a redundant on-site substitution for the Lee Gas Turbines, and which would be run continuously during the 2 month outage of the Keowee hydroelectric units, every 6 years, to provide the required source of emergency power. The licensee's position is that by eliminating the 23 miles of transmission lines required for the Lee Gas Turbines, a more reliable source of emergency power would be available and would be an acceptable substitution for the Keowee Units during the 2 month maintenance outages.

The licensee provided the history of operation of the proposed gas turbines. The ratings of each and the plans for overhaul, testing and installation. It was pointed out that the gas turbines would occasionally be used as peaking units as are the Lee Gas Turbines.

Upon consideration of the licensee's proposed plans, the staff indicated that the main concern was that a two month outage of the Keowee Units would be significantly longer than the interval approved in the current Technical Specifications and that an equivalent source of power would have to be provided. The proposed gas turbine installation would not provide this as it would be vulnerable to the same accidents as are the Lee Gas Turbines. The

licensee indicated that they did not propose to seismically qualify the proposed gas turbines and that other environmental considerations such as hurricanes, tornadoes and ice storms had not been considered in their plans to install the 2 gas turbines.

It was therefore recommended to the licensee that further review of their plans be made to determine whether the proposed installation could be qualified to the extent that it would be an equivalent substitution for the Keowee Units or whether they could propose limiting conditions under which the gas turbine installation would be used as a source of emergency power. It was recommended that the latter alternative take into consideration environmental influences such as hurricane warnings which would require either shutdown of the Oconee Units or the restoration of the Keowee Units as a normal source of emergency power.

The licensee agreed to conduct a review of their requirements and submit a proposal for the staff's review in the form of an amendment request to the Oconee Technical Specifications.



Gary G. Zech, Project Manager  
Operating Reactors Branch #1  
Division of Reactor Licensing

Enclosure:  
List of Attendees

cc: See next page

NRC STAFF MEETING WITH

DUKE POWER COMPANY

NOVEMBER 3, 1975

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T. A. Ippolito  
J. D. Smith  
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