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June 9, 1988

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Subject: Oconee Nuclear Station  
Docket Nos. 50-269, -270, -287  
Non-Vital Power Supply Used in Valve  
Interlock Logic

Dear Sir:

The purpose of this letter is to respond to the NRC letter dated March 21, 1988 which transmitted information concerning potential problems involving the capability to establish post-LOCA recirculation flow due to failure of the non-vital power supply used in valve interlock logic at an operating Westinghouse plant. The NRC staff requested Duke Power Company (DUKE) to review the information and determine the possible applicability of the concern to Oconee Nuclear Station.

The potential problem identified and the NRC concern involve the capability to open valves in the crossover piping between low pressure injection (LPI) pump discharge and high pressure injection (HPI) pump suction to establish post-LOCA recirculation. The valves at the Westinghouse plant are interlocked with pressure transmitters to prevent possible overpressurization of HPI suction piping. The transmitters are supplied with non-vital power and would block the valves from opening if non-vital power failed.

The equivalent valves at Oconee are LP-15 and LP-16 on all three units. These valves provide the type of flow path described in the Westinghouse bulletin. However, the HPI inlet pressure at Oconee is protected by relief valves. Therefore, these discharge valves are not interlocked with pressure transmitters. The motor operators on the valves are fed by a power source that is backed up by standby power in case of loss of offsite power.

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In conclusion, Duke has determined that the subject concern does not apply to Oconee Nuclear Station.

Very truly yours,

*J. W. Hampton for*  
Hal B. Tucker

MAH/16/bhp

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