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 STOLZ, J. E. PWR Project Directorate 6

SUBJECT: Smits addl info to supplement 860428 ltr re turbine bldg flood mods re PRA seismic analysis. Human error probabilities would decrease & recovery credit would increase in reassessment.

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May 7, 1986

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

Attention: Mr. John F. Stolz, Project Director  
PWR Project Directorate No. 6

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

Dear Sir:

By letter dated April 28, 1986 Duke Power Company (Duke) provided a summary of the turbine building flood modifications undertaken at Oconee Nuclear Station (ONS). The information in that letter was intended to assist the NRC staff in their current cost/benefit analysis work in conjunction with evaluation of the ONS emergency feedwater system.

The following paragraphs present a qualitative assessment of the turbine building flood modifications as related to the ONS PRA seismic analysis. This additional information is intended to supplement Duke's letter dated April 28, 1986.

The Oconee PRA seismic analysis did not consider the plant changes discussed in the referenced letter. In light of the modifications, it would be reasonable to assume that the water could no longer flow from the Turbine Building basement to the Auxiliary Building basement with a probability of one. The new probability of Auxiliary Building flooding would be a function of the reliability of the watertight door seals. This new assumption would mean that the High Pressure Injection, Low Pressure Injection, and Reactor Building Spray pumps would not automatically be lost during seismic floods.

Increased training, improved procedures, and better and more convenient equipment have made the operators better able to find, isolate and mitigate Turbine Building flooding. Human error probabilities would decrease and recovery credit would increase in a reassessment.

As a result of these items, we would expect the overall core damage probability due to seismically-induced floods to decrease in a reassessment.

Very truly yours,



Hal B. Tucker

MAH:slb

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Mr. Harold R. Denton, Director

May 7, 1986

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