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SUBJECT: Forwards calculation entitled, "Leak Rate of Rolled Orifice Plug," in support of 911121 request for confirmation of interpretation of TS 4.17.5.f for repair of SG explosive plugs.Calculation withheld.

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January 22, 1992

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

Subject: Oconee Nuclear Station, Units 1, 2, and 3
Docket Nos. 50-269, 50-270, 50-287
Additional information for repair of SG Explosive Plugs by use of Orifice Plugs; Interpretation of Technical Specification 4.17.5.f

Enclosed is the additional information that you requested in your letter of November 21, 1991. Please note that Attachment 1, BWNT Document 32-1174827-04, Leak Rate of Rolled Orifice Plug, is considered "Proprietary" by B&W and an affidavit supporting this will be forthcoming from B&W. The assumptions used in the calculation of the EAB thyroid dose and primary to secondary leakage rates verses number of tubes with orifice leakage is described in Attachment 2.

The information in Attachment 1 shows that for the most limiting case of .25 in. plug thickness and secondary pressure at 0 psig the leak rate would be 310.7 gpd (page 11 of 12) which corresponds to .2157 gpm. Attachment 2 shows that the total primary to secondary leakage is just a small fraction of that described in the FSAR Chapter 15.13 MSLB Accident for the 1 SG tube rupture case. This also conservatively assumes that all of the affected explosive plugs fail.

This additional information is provided at the request of the NRC in support of Duke Powers' request for confirmation of an interpretation of Technical Specification 4.17.5.f. If there are any questions or concerns regarding this information, please contact Mark E. Patrick at (803) 885-3292.

Very truly yours,

J. W. Hampton

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