

DUKE POWER COMPANY

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January 16, 1986

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

ATTACHMENT CONTAINS  
PROPRIETARY MATERIAL

Attention: Ms. E.G. Adensam, Chief  
Licensing Branch No. 4

Subject: McGuire Nuclear Station  
Docket Nos. 50-369 and 50-370  
Pipe Break Criteria Relief for Reactor Coolant Loop

Dear Mr. Denton:

My letter of August 30, 1985 submitted a request for an exemption (pursuant to 10 CFR 50.12(a)) from General Design Criteria 4 to apply the "leak-before-break" concept to the McGuire Nuclear Station to eliminate postulated pipe breaks in the RCS Primary Loop from the plant structural design basis. Included in this submittal was the Westinghouse Technical Report (WCAP-10585) entitled "Technical Basis for Eliminating Large Primary Loop Pipe Rupture as the Structural Design Basis for McGuire Units 1 & 2" which provided technical justification for elimination of RCS Primary Loop breaks for McGuire. A non-proprietary version of the Specific Plant Applicability Report (WCAP-10584) was also provided.

Pursuant to NRC staff request, please find attached for NRC review supplementary information to WCAP-10585 pertaining to the Westinghouse fracture mechanics analysis used in the primary loop leak-before-break submittal. This supplementary information provides clarifications as to the determination of J<sub>applied</sub> and method of margin analysis. As this contains information proprietary (Westinghouse proprietary class 2) to Westinghouse Electric Corporation, also attached are a proprietary information notice, application for withholding (with accompanying Westinghouse authorization letter CAW-85-084, non-proprietary), and the supporting affidavit signed by Westinghouse, the owner of the information. The affidavit sets forth the basis on which the information may be withheld from public disclosure by the Commission and addresses with specificity the considerations listed in paragraph (b)(4) of Section 2.790 of the Commission's regulations. Accordingly, it is respectfully requested that the information which is proprietary to Westinghouse be withheld from public disclosure in accordance with 10 CFR Section 2.790 of the Commission's regulations. Correspondence with respect to the proprietary aspects of the Application for Withholding or the supporting Westinghouse affidavit should reference CAW-85-084 and should be addressed to R.A. Wiesemann, Manager, Regulatory & Legislative Affairs, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, Pennsylvania 15230. A non-proprietary (Westinghouse proprietary class 3) version of the supplementary information is also attached.

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H.R. Denton  
January 16, 1986  
Page 2

Should there be further questions concerning this exemption request, please advise.

Very truly yours,

*H.B. Tucker*

Hal B. Tucker

PBN/jgm

Attachments

xc: Dr. J. Nelson Grace, Regional Administrator  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

Mr. Darl Hood  
Division of Project Management  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Mr. W.T. Orders  
Senior Resident Inspector  
McGuire Nuclear Station

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