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Georgia Power

the southern electric system

D. O. Foster
Vice President and General Manager
Vogtle Project

May 17, 1984

Director of Nuclear Reactor Regulation
Attention: Ms. Elinor G. Adensam, Chief
Licensing Branch #4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

File: X7N0.06
Log: GN-359

REFERENCE (a): GPC Letter, dated 10/25/83, Foster to Denton
(b): NRC letter to GPC dated 3/19/84, Adensam to Foster

NRC DOCKET NUMBERS 50-424 AND 50-425
CONSTRUCTION PERMIT NUMBERS CPPR-108 AND CPPR-109
VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 AND 2
ALTERNATE PIPE BREAK DESIGN CONSIDERATIONS

Dear Mr. Denton:

The Reference (a) letter informed the NRC that Georgia Power Company was evaluating the technical feasibility and potential benefits of eliminating postulated pipe breaks in the RCS primary loop from the structural design basis of the Vogtle Units 1 and 2. As part of that letter, Westinghouse reports MT-SME-3082, "Technical Bases for Eliminating Large Primary Loop Pipe Ruptures as the Structural Design Basis for Vogtle Units 1 and 2," November 1983, Westinghouse Proprietary, were enclosed. These reports provided the type of information requested by the Staff for NRC review of the technical bases for elimination of RCS primary loop breaks.

The Reference (b) NRC letter indicated that the NRC Staff had reviewed, (1) the leak-before-break analysis provided by the Reference (a) letter, and (2) the generic Westinghouse report WCAP-10456 dealing with fracture toughness of piping materials under thermal aging conditions. As a result of that review, the Materials Engineering Branch requested additional information to complete their evaluation on the subject matter.

At a meeting held March 22, 1984, with representatives of the NRC Staff/Texas Utilities/Westinghouse, the responses to the Staff requests for additional information were discussed. At that meeting, the Staff outlined the type of additional information required by the NRC. The technical information requested is enclosed as follows:

1. Twenty-five (25) copies of Westinghouse Report WCAP-10551, "Technical Bases for Eliminating Large Primary Loop Pipe Rupture as the Structural Design Basis for Alvin W. Vogtle Units 1 and 2," April 1984, Westinghouse Proprietary.

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2. Twenty-five (25) copies of Westinghouse Report WCAP-10552, "Technical Bases for Eliminating Large Primary Loop Pipe Rupture as the Structural Design Bases for Alvin W. Vogtle Units 1 and 2," April 1984, Non-Proprietary.

Also enclosed is one (1) Application for Withholding, CAW-84-43.

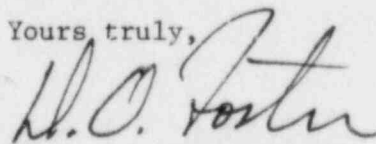
WCAP-10551 is a new report (Proprietary and Non-Proprietary versions as appropriate) prepared specifically for the Vogtle Units 1 and 2. This new report incorporates the previous material in Westinghouse report MT-SME-3082 along with the additional information addressing MEB Items 123.8, 123.9, 123.10, and 123.11. For Item 123.12, an assessment of margins considering the loads, flaw size, and material toughness for the Vogtle Units 1 and 2 RCS piping material is also included. Results covering the elastic-plastic fracture mechanics analysis of the 4-inch thermally aged pipe in WCAP-10456 is expected to be completed in June 1984 and will be transmitted at that time.

As Enclosure 1 contains information proprietary to Westinghouse Electric Corporation, it is supported by an 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 affidavits should reference CAW-84-43, and should be addressed to R. A. Wiesemann, Manager, Regulatory and Legislative Affairs, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, Pennsylvania 15230.

If you have any questions concerning the enclosed information, do not hesitate to contact us.

Yours truly,



D. O. Foster

DOF/KWK/sw

Enclosure

xc: M. A. Miller
R. A. Thomas
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