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W. G. Hairston, III
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Nuclear Operations



Alabama Power
the southern electric system

January 28, 1991

10CFR50,
Appendix A,
Criterion 4

Docket Nos. 50-348
50-364

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

Gentlemen:

Leak-Before-Break (LBB) Analysis
Joseph M. Farley Nuclear Plant - Units 1 and 2

By letters dated November 18, 1990 and January 14, 1991, Alabama Power Company submitted a bounding assessment of the inherent integrity of the reactor coolant system piping using the LBB methodology in support of the 15% steam generator tube plugging licensing amendment. Alabama Power committed to submit the completed LBB analysis by January 31, 1991.

General Design Criterion 4 allows plants to eliminate the dynamic effects of the rupture of high energy lines from the plant design basis when analyses reviewed and approved by the Commission demonstrate that the probability of fluid system piping rupture is extremely low. Alabama Power Company herewith submits a detailed LBB analysis for the purpose of eliminating the dynamic effects of pipe rupture in the reactor coolant loops of Farley Nuclear Plant Units 1 and 2.

The attachment contains.

1. WCAP-12825 - Technical justification for eliminating large primary loop pipe rupture as the structural design basis for the Joseph M. Farley Units 1 and 2 Nuclear Power Plants (Proprietary).
2. WCAP-12826 - Technical justification for eliminating large primary loop pipe rupture as the structural design basis for the Joseph M. Farley Units 1 and 2 Nuclear Power Plants (Non-Proprietary).

Also enclosed are a Westinghouse authorization letter, CAW-91-119, accompanying affidavit, Proprietary Information Notice, and Copyright Notice.

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(Change: NRC PAR 1 1 (wCAP 12826 NP) Att Encl

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Apo
1 Prop WCAP 12825
1 NP WCAP 12826

As WCAP-12825 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 copyright or proprietary aspects of the items listed above or the supporting Westinghouse affidavit should reference CAW-91-119 and should be addressed to Mr. R. P. DiPiazza, Manager, Operating Plant Licensing Support, Westinghouse Electric Corporation, P. O. Box 355, Pittsburgh, Pennsylvania 15230-0355.

In accordance with the requirements of General Design Criterion 4, it is requested that the attached LBB analyses be reviewed and approved for Joseph M. Farley Nuclear Plant, Units 1 and 2.

If there are any questions, please advise.

Respectfully submitted,

ALABAMA POWER COMPANY

W. G. Hairston, III
W. G. Hairston, III

WGH,III/REM:sh 29.10

Attachment

cc: Mr. S. D. Ebnetter
Mr. S. T. Hoffman
Mr. G. F. Maxwell

SWORN TO AND SUBSCRIBED BEFORE ME

THIS 28th DAY OF January, 1991

John B. Burnett
Notary Public

My Commission Expires: 9/19/94