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J. D. Woodard
Vice President-Nuclear
Farley Project

April 26, 1991



10 CFR 50,
Appendix A,
Criterion 4

Docket Nos. 50-348
50-364

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

Pressurizer Surge Line
Leak-Before-Break (LBB) Analysis
Joseph D. Woodard, Farley Nuclear Plant - Units 1 and 2

Gentlemen:

In our letter of January 31, 1991, responding to NRC Bulletin No. 88-11, Alabama Power Company indicated that a leak-before-break (LBB) analysis would be performed on Unit 1 and Unit 2 to allow the removal of the pipe whip restraints.

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 for NRC review and approval a detailed LBB analysis. It is Alabama Power Company's intent to use this NRC approved LBB analysis to eliminate the dynamic effects of pipe rupture in the pressurizer surge lines from the design basis of Farley Nuclear Plant Units 1 and 2. Alabama Power Company currently plans on removing the pipe whip restraints on both units within two refueling outages following NRC approval of the LBB analysis. Until the modifications to the restraints are performed, Alabama Power Company has made procedural changes on Unit 2 to limit the delta T in the surge line to less than 310°F which will keep the pipe stress within code allowable as described in Alabama Power Company's response to NRC Bulletin No. 88-11.

The attachment contains:

1. WCAP-12835 - Technical justification for eliminating pressurizer surge line rupture from the structural design basis for Farley Units 1 and 2 (Proprietary).
2. WCAP-12834 - Technical justification for eliminating pressurizer surge line rupture from the structural design basis for Farley Units 1 and 2 (Non-Proprietary).

Also enclosed are a Westinghouse authorization letter, CAW-91-152, accompanying affidavit, Proprietary Information Notice, and Copyright Notice.

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P PDR

IE30 1/1 Prop 1/1 Non Prop
Change: NRC LAR NSIC
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1 INP

As WCAP-12835 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-91-152 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 analysis 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


J. D. Woodard

JDW/JGS:cjr2320

Attachment

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