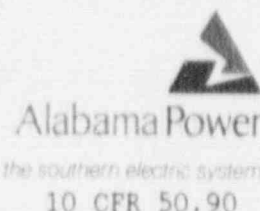


Alabama Power Company
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Birmingham, Alabama 35201
Telephone 205 868-5581

W. G. Hairston, III
Senior Vice President
Nuclear Operations

February 26, 1991



Docket Nos: 50-348
50-364

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

Gentlemen:

Joseph M. Farley Nuclear Plant - Units 1 and 2
Steam Generator (SG) Tube Support Plate (TSP)
Alternate Plugging Criteria (APC)

In order to preclude unnecessarily removing significant numbers of SG tubes from service, Alabama Power Company has evaluated the possibility of utilizing a revised plugging criteria for SG tube cracks which are contained within the boundaries of the TSP. This evaluation has resulted in the development of the TSP APC.

The need for an APC became evident during a recent Unit 2 outage. The program of eddy current inspections performed at Farley Unit 2 during the seventh refueling outage included full length bobbin coil probing of the available tubes. With no application of a voltage amplitude criterion, numerous tubes found to exhibit degradation suggestive of outer diameter stress corrosion cracking (ODSCC) were plugged. This resulted in plugging 243 tubes, 30 in SG A, 64 in SG B, and 149 in SG C due to TSP degradation.

The scope of application of the TSP APC will be limited to those cracks contained within the TSP boundaries which are the result of ODSCC. All other portions of the tube will be covered by the current Technical Specifications. The APC utilizes the eddy current bobbin voltage and phase angle indicated depth as an indication of crack severity within the TSP. Tubes with an indicated depth greater than or equal to 50% will be plugged if eddy current bobbin voltage exceeds 3 volts. Tubes with an indicated depth less than 50% will be plugged if eddy current bobbin voltage exceeds 8 volts. The APC was developed to ensure margins against tube burst per Regulatory Guide 1.121 and to minimize leakage at normal operating conditions. The criteria was also developed to ensure that radiological results of a steam line break accident do not exceed a small fraction of the 10CFR100 limits. Details of the development of the APC are contained in WCAP-12871, "J. M. Farley Units 1 and 2 SG Tube Plugging Criteria for ODSCC at Tube Support Plates."

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PDR

APOL
1 Prop
1 Non Prop
Change WRC POC
Mr Ench
1 INP
APOL

The proposed changed pages to Unit 1 and 2 Technical Specifications are provided in Attachment 1. Alabama Power Company has determined the proposed changes do not involve a significant hazards consideration. In accordance with 10CFR50.92, a significant hazards consideration evaluation is provided in Attachment 2. The technical justification supporting the proposed changes is provided in Attachment 3 as:

1. WCAP-12871-J. M. Farley Units 1 and 2 SG Tube Plugging Criteria for ODSCC at Tube Support Plates (Proprietary).
2. WCAP-12872-J. M. Farley Units 1 and 2 SG Tube Plugging Criteria for ODSCC at Tube Support Plates (Non-Proprietary).

Also enclosed are a Westinghouse authorization letter, CAW-91-130, accompanying affidavit, Proprietary Information Notice, and Copyright Notice.

As WCAP-12871 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-91-130 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.

Alabama Power Company requests the NRC review and approve this proposed change by April 25, 1991.

Alabama Power Company's Plant Operations Review Committee has reviewed the proposed changes and the Nuclear Operation Review Board will review the changes at a future meeting. A copy of this proposed change is being sent to Dr. C. E. Fox, the Alabama State Designee, in accordance with 10CFR50.91(B)(1)

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk

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If there are any questions, please advise.

Respectfully submitted,

ALABAMA POWER COMPANY

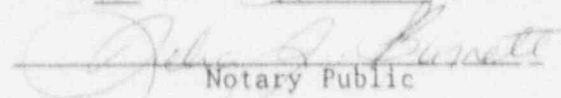

W. G. Hairston, III

WGH,III/REM:maf2239
Attachments

cc: Mr. S. D. Ebner
Mr. S. T. Hoffman
Mr. G. F. Maxwell
Dr. C. E. Fox

SWORN TO AND SUBSCRIBED BEFORE ME

THIS 26th DAY OF February, 1991


Notary Public

My Commission Expires: 9-14-94