

**Mailing Address**

Alabama Power Company  
600 North 18th Street  
Post Office Box 2641  
Birmingham, Alabama 35291  
Telephone 205 783-6090

**R. P. McDonald**  
Senior Vice President  
Flintridge Building



Alabama Power

THE SOUTHERN ELECTRIC SYSTEM

March 27, 1986

Docket No. 50-364

Director, Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attention: Mr. L. S. Rubenstein

Gentlemen:

Joseph M. Farley Nuclear Plant - Unit 2  
RCS Heatup and Cooldown Curves  
Proposed Technical Specification Change

By letter dated September 30, 1985, Alabama Power Company requested changes to Technical Specification Figures 3.4-2 and 3.4-3 (reactor coolant system heatup and cooldown curves) and Bases 3/4.4.10. These curves were developed based on an analysis of the Unit 2 reactor vessel materials and their neutron embrittlement histories as documented in WCAP 10910. The analysis methodology utilized in WCAP 10910 included the recommendations contained in Regulatory Guide 1.99, Revision 2.

As a result of discussions held with the NRC Staff concerning the September 30, 1985 submittal, it was determined that a timely review and approval by the staff would require utilization of an analysis methodology which included the recommendations of Regulatory Guide 1.99, Revision 1. In accordance with these discussions, new heatup and cooldown curves which are applicable for a total of 8 EFPY have been developed based on the guidance provided in Regulatory Guide 1.99, Revision 1. The details of this new analysis, including the analysis methodology and resulting revised heatup and cooldown curves, are provided in WCAP 10910, Revision 1.

This submittal serves as a supplement to the September 30, 1985 request by providing revised Technical Specification reactor coolant system heatup and cooldown curves (Figures 3.4-2 and 3.4-3) and the associated Bases (3/4.4.10). Attachment 1 lists the changed Technical Specification pages and includes the proposed pages for Unit 2. The topical report WCAP 10910, Revision 1 is provided as Attachment 2.

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It is therefore proposed that the Farley Nuclear Plant - Unit 2 heatup and cooldown curves be revised to extend their applicability from the existing 5 EFPY to a new limit of 8 EFPY. The current heatup and cooldown curves are due to expire during the core life of Unit 2 Cycle 5 which is scheduled to begin in May 1986. Therefore, it is requested that NRC approval be provided by May 1, 1986. The proposed changes will permit continued operation of Unit 2 beyond Cycle 5 consistent with the limitations of 10CFR50, Appendix G.

This supplemental submittal does not alter the conclusions of the significant hazards evaluation previously performed on the September 30, 1985 Technical Specification change request. That request referenced Revision 2 of Regulatory Guide 1.99 whereas this supplemental submittal references Revision 1 of the same Regulatory Guide. Therefore, Alabama Power Company reaffirms that the Technical Specification changes proposed in this request do not involve a significant hazards consideration.

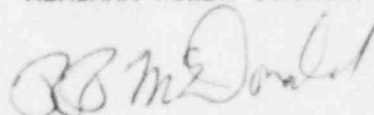
The Plant Operations Review Committee has reviewed this change and the Nuclear Operations Review Board will review this proposed change at a future meeting.

Pursuant to 10CFR170.21, the required License Amendment Application fee of \$150.00 was enclosed with Alabama Power Company's September 30, 1985 submittal. In accordance with 10CFR50.90, three (3) signed originals and 40 copies of this request are enclosed. A copy of this change has been sent to Mr. Dan Turner, the Alabama State Designee, in accordance with 10CFR50.91(b)(1).

If there are any questions, please advise.

Respectfully submitted,

ALABAMA POWER COMPANY



R. P. McDonald

RPM/JAR:ddb-D49

Attachments

cc: Mr. L. B. Long  
Dr. J. N. Grace  
Mr. E. A. Reeves  
Mr. W. H. Bradford  
Mr. Dan Turner

SWORN TO AND SUBSCRIBED BEFORE ME

THIS 27<sup>th</sup> DAY OF MARCH, 1986

  
Notary Public

My Commission Expires: 10/27/89