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Alabama Power

*the southern electric system*

F. L. CLAYTON, JR.  
Senior Vice President

December 21, 1978

Docket No. 50-348

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

Attn: Mr. Albert Schwencer

Dear Mr. Schwencer:

Re: Changes to Operating License  
No. NPF-2 Technical Specifications

Alabama Power Company proposed changes to the Joseph M. Farley Nuclear Plant Operating License No. NPF-2 Technical Specification 4.2.2.2.e.2 involving Fxy limits. Enclosed is the response to an NRC question asked during review of the subject changes.

If you have questions, please advise.

Yours very truly,

*F. L. Clayton, Jr.*  
F. L. Clayton, Jr.

FLCjr/TNE:bhj

cc: Mr. R. A. Thomas  
Mr. G. F. Trowbridge

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ENCLOSURE  
FARLEY UNIT 1  
Fxy CHANGE

NRC QUESTION:

The bases for the proposed Fxy change state that bounding values of the power factor  $F_Q(Z)X$  (Relative Power) were calculated as a function of elevation by assuming various load follow transients on the reactor through insertion and removal of control rod banks C and D. Describe the calculations that were performed and discuss the load follow transients that were assumed.

RESPONSE:

The methods of WCAP-8385, (Topical Report: Power Distribution Control and Load Following Procedures) were employed utilizing the PEAKING FACTOR subcase analysis. The analysis was justified in the letter NS-CE-1749 of April 6, 1978 from C. E. Eicheltinger of Westinghouse to J. F. Stoltz, LWR Branch Chief of the NRC Division of Project Management.