Mailing Address
Alabama Power Company
600 North 18th Street
Post Office Box 2641
Birmingham, Alabama 35291
Telephone 205 783-6081

F. L. Clayton, Jr.
Senior Vice President
Flintridge Building

Alabama Power
the southern electric system

July 16, 1982

Docket Nos. 50-348
50-364

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

Attention: Mr. S. A. Varga

Joseph M. Farley Nuclear Plant - Units 1 and 2
Seismic Qualification of Auxiliary Feedwater Systems

Dear Sir:

Due to an administrative error, Alabama Power Company did not receive your letter dated April 2, 1982 until July 12, 1982. The enclosure of your letter requested clarificaion of the extent of the Auxiliary Feedwater (AFW) System boundary considered in our letter of October 9, 1981 (written in response to NRC Generic Letter 81-14). Alabama Power Company has reviewed the enclosure and provides the attached response.

If you have any questions, please advise.

Yours very truly,

R B McDonald

for F. L. Clayton, Jr.

FLCJr/CLB:lsh-D19
Attachment
cc: Mr. R. A. Thomas
Mr. G. F. Trowbridge
Mr. J. P. O'Reilly
Mr. E. A. Reeves
Mr. W. H. Bradford
Licensing File No 219

A001

ATTACHMENT
Joseph M. Farley Nuclear Plant - Units 1 and 2

SEISMIC QUALIFICATION OF THE AUXILIARY FEEDWATER SYSTEM REQUEST FOR ADDITIONAL INFORMATION

NRC CONCERN

Queston 1: Enclosure 1 of Generic Letter 81-14 (GL 81-14) defines the auxiliary feedwater (AFW) system to be considered as:

(a) "The AFW system boundary from suction to discharge (including the water source and heat sink) shall include those portions of the system required to accomplish the AFW system function and connected branch piping up to an including the second valve which is normally closed or capable of automatic closure when the safety function is required."

(b) "The AFW system boundary shall also include any portion of branch piping that is structurally coupled to the AFW system boundary such that the seismic response of the branch piping transmits loads to the AFW system. As a minimum, this includes the branch lines outside the AFW system boundary to a point of three orthogonal restraints."

(c) "All mechanical and electrical equipment, piping (e.g., instrument air), conduits and cable trays, which are necessary or contain items which are necesary for the operation of the AFW system, shall be considered."

(d) "In addition, the structures housing these systems and components shall be included."

Clarify the extent to which your AFW system boundary, considered in your October 9, 1981 response letter, coincides with the boundary defined in GL 81-14, especially parts (a) and (b) above.

ALABAMA POWER RESPONSE

A. The system as addressed in the October 9, 1981 letter includes all portions required to accomplish the AFW system function and all branch piping up to and including the second valve which is normally closed with the following exception:

1. The underground portions of the pumps minimum flow recirculation lines downstream of the minimum flow orifices are not Seismic Category I. The system is designed to accomplish its function with the failure of these lines.

B. The system includes all portions of branch piping that is structurally coupled to the AFW system boundary to a point of three orthogonal restraints away from the AFW system.

C. The system includes all mechanical and electrical support equipment; e.g. instrument air, conduit, cable trays, which are required for the function of the AFW system.

D. The system includes all structures housing these systems and components.