

ALABAMA POWER COMPANY

BIRMINGHAM, ALABAMA 35202

October 29, 1971

S. R. HART, JR.
VICE PRESIDENT
ENGINEERING

Dr. Peter A. Morris, Director
Division of Reactor Licensing
U. S. Atomic Energy Commission
Washington, D.C. 20545

Dear Dr. Morris:

Subject: Joseph M. Farley Nuclear Plant
Units 1 and 2
AEC Docket Nos. 50-348 and
50-364

Enclosed is one (1) copy of Alabama Power Company's Supplement to its Environmental Report as required by Section D of the revised 10 CFR Part 50, Appendix D. Under separate cover we are sending you two-hundred ninety-nine (299) additional copies. The original Environmental Report for the Joseph M. Farley Nuclear Plant was submitted on September 11, 1970 and was circulated for comments to interested federal, state and local agencies at that time.

Also, enclosed is a certificate showing service of this supplement on the Honorable R. J. Stenbridge, Chairman of the Board of Revenue and Control of Houston County, Alabama.

Any questions concerning this supplement should be addressed to:

Mr. Alan R. Barton
Senior Vice President
Alabama Power Company
Birmingham, Alabama 35202

Yours very truly,

S. R. Hart, Jr.
S. R. Hart, Jr.

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ALABAMA POWER COMPANY'S
ENVIRONMENTAL REPORT--
CONSTRUCTION PERMIT STAGE

FOR THE
JOSEPH M. FARLEY
NUCLEAR PLANT



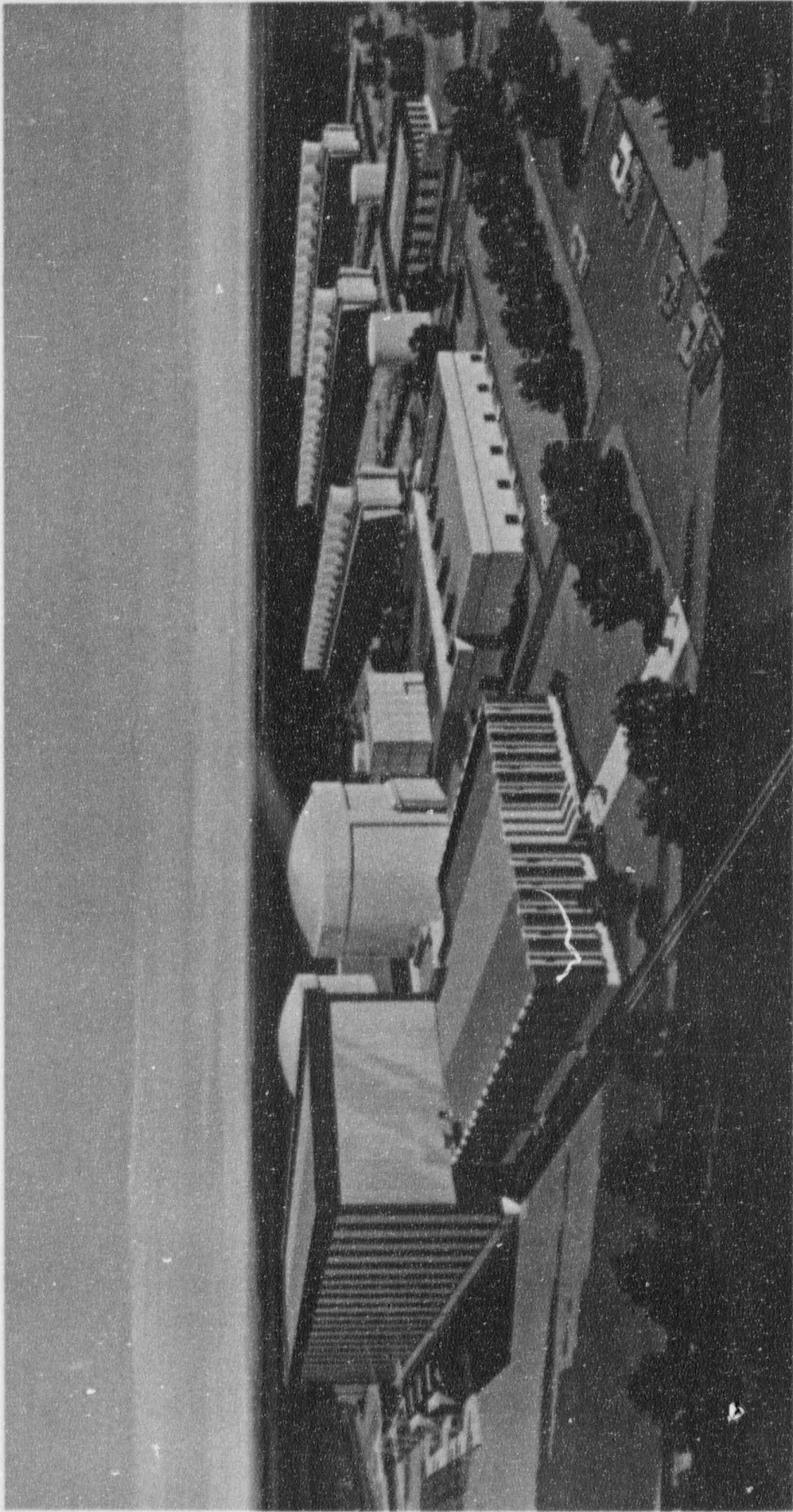
Foreword

This Supplement to the Environmental Report for the Joseph M. Farley Nuclear Plant is submitted in response to the Atomic Energy Commission's (AEC) revised Appendix D to 10 C.F.R., Part 50, issued on September 9, 1971. It has been prepared in substantial conformance to the Draft Guide for Environmental Reports for Nuclear Power Plants issued by the AEC in February, 1971, and supplemented by Notice dated September 1, 1971, to include additional matters.

The application for the license to construct the Joseph M. Farley Nuclear Plant Unit No. 1 was filed with the AEC on October 15, 1969, two and one-half months prior to the date on which the National Environmental Protection Act became law on January 1, 1970. Since it was necessary at that time to file a Preliminary Safety Analysis Report (PSAR) containing a rather detailed description of the design of the plant, a number of significant design decisions were necessary prior to the effective date of the National Environmental Protection Act. It is the objective in this report to review these and subsequent decisions and to compare the environmental impact of such decisions with that of acceptable and reasonable alternatives. When it has been practical to do so, these impacts have been quantified.

The Environmental Report for the Joseph M. Farley Nuclear Plant was submitted to the AEC by Alabama Power Company on September 11, 1970, and was subsequently reviewed by interested federal, state and local agencies. A number of the reviewing agencies made comments and raised questions concerning the plant design, which were forwarded to Alabama Power Company by the AEC. Information responsive to these comments and questions is contained in this Supplemental Report.

This report is submitted as a Supplement to the Environmental Report previously submitted, but this Supplement is complete in itself. This approach was used for the convenience of the reviewing agencies, and the material included in the original report has been updated and duplicated in this Supplemental Report in order to present a complete picture.



JOSEPH M. FARLEY NUCLEAR PLANT UNITS 1 & 2
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ALABAMA POWER COMPANY