

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



November 13, 1984

Docket Nos. 50-348
50-364

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

Attention: Mr. S. A. Varga

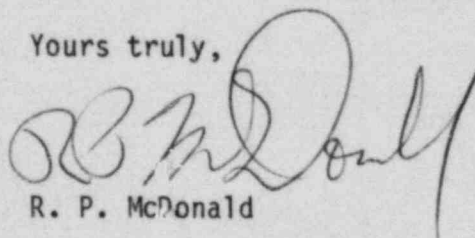
Joseph M. Farley Nuclear Plant - Units 1 and 2
SPDS Electrical Isolation Device Qualifications

Gentlemen:

On October 31, 1984, a telephone conversation was held between the NRC Staff and Alabama Power Company personnel regarding the SPDS electrical isolation device qualifications. During this conversation the NRC Staff requested that Alabama Power Company address the electrical isolation device compliance with the environmental and seismic qualifications which were the basis for the licensing of the Farley Nuclear Plant. The response to this request is attached.

If there are any questions, please advise.

Yours truly,



R. P. McDonald

RPM/JLG:bdh-D16

Attachment

cc: Mr. L. B. Long
Mr. J. P. O'Reilly
Mr. E. A. Reeves
Mr. W. H. Bradford

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Attachment

SPDS Isolation Device Qualification

NRC Request: Provide a commitment that the isolation devices comply with the environmental qualifications (10 CFR 50.49) and the seismic qualifications which were the basis for plant licensing.

APCo Response: All analog SPDS input signals originating from existing Class IE instrumentation loops are designed to be provided with Westinghouse 7300 system isolation devices located in the Westinghouse 7300 process control and instrumentation system cabinets. The Westinghouse 7300 cabinets are located in a mild environment and are excluded from the scope of 10CFR50.49. The Westinghouse seismic qualification of the 7300 cabinets is documented in WCAP-7817 Supplement 4 and complies with the requirements of IEEE 344-1971 which is the licensing basis for the Farley Nuclear Plant.

The existing core exit thermocouple (CET) analog signals are not designed and installed as Class IE instrumentation loops. To comply with the R.G. 1.97 Category 1 variable design criteria, the CET cabling and signal processing will be upgraded. The isolation and interface criteria for R.G. 1.97 Category 1 variables will be followed in designing the method of acquiring the SPDS CET input signals from the CET R.G. 1.97 instrumentation loops. This isolation and interface criteria is described in Alabama Power Company's R.G. 1.97 Compliance Reports dated June 29, 1984 for Unit 1 and March 30, 1984 for Unit 2.

The CET SPDS signal isolation devices will be qualified to the requirements of IEEE 344-1975 and will be located in a mild environment. Supporting seismic qualification documentation will be available after procurement of the upgraded inadequate core cooling monitoring system.