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Senior Vice President



November 12, 1980

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Docket No. 50-364

Director, Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Phillips Building, Room 116  
7920 Norfolk Avenue  
Bethesda, Maryland 20014

Attention: Mr. A. Schwencer

JOSEPH M. FARLEY NUCLEAR PLANT - UNIT 2  
CORE SUBCOOLING MONITOR UPGRADE INFORMATION

Gentlemen:

During a November 6, 1980, telephone conversation, the NRC Staff requested additional information concerning the Farley Nuclear Plant - Unit 2 core subcooling monitor upgrade. Alabama Power Company hereby submits the following information in response to the Staff's request.

1. The readout of the core subcooling monitor will be changed from "PSI SUBCOOLED" to "OF SUBCOOLED". This modification will include a new meter scale and microprocessor programming changes.
2. The front panel function switches of the subcooling monitor will be redesignated to delete "TIME TO SATURATION" and incorporate "OF MARGIN" and "PSI MARGIN". This modification will include necessary hardware and required microprocessor programming changes.
3. The subcooling monitor programming will be modified such that the meter readout will indicate "INVALID" during processor failure rather than maintaining the last valid readout.
4. The subcooling monitor hardware and programming will be modified to allow for changing caution and alarm setpoints from power operation set to shutdown set.
5. The internal test routine of the monitor will be reprogrammed to automatically reactuate alarms at the end of test and to permit the verification of the accuracy of the analog meter.

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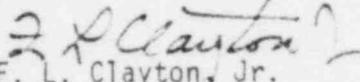
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6. The subcooling monitor programming will be modified such that negative  $\Delta T$  values will be displayed with a "-" sign if  $T_H$  or  $T_C$  is greater than the average T/C temperature.

The software and hardware necessary to complete the modifications to the subcooling monitor are anticipated to be completed and installed by April 30, 1981.

If you have any further questions, please advise.

Yours very truly,

  
F. L. Clayton, Jr.

RWS:rt

cc: Mr. R. A. Thomas  
Mr. G. F. Trowbridge  
Mr. L. L. Kintner  
Mr. W. H. Bradford