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NRC Participants:

Others:

BCC: Applicant & Service List

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

OCT 16 1980

Docket No. 50-364

MEMORANDUM FOR: A. Schwencer, Chief
Licensing Branch No. 2, DOL

FROM: L. Kintner, Project Manager
Licensing Branch No. 2, DOL

SUBJECT: FORTHCOMING MEETING WITH ALABAMA POWER COMPANY REGARDING REVIEW OF FARLEY 2 OPERATING LICENSE APPLICATION

DATE & TIME: October 22, 1980 11:30 a.m.

LOCATION: Joseph M. Farley Nuclear Plant
Dothan, Alabama

PURPOSE: To review the auxiliary feedwater system
(proposed agenda attached)

PARTICIPANTS: ALABAMA POWER COMPANY

Ron George, George Hairston

BECHTEL CORPORATION

Harold Bell

WESTINGHOUSE

Glen Lang

NRC STAFF

T. Dunning and C. E. Rossi

/s/ A. Schwencer for

Lester Kintner, Project Manager
Licensing Branch No. 2
Division of Licensing

cc: See next page

OCT 16 1980

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Houston County Commission
Dothan, Alabama 36301

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Mr. W. Bradford
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PROPOSED AGENDA FOR MEETING WITH
ALABAMA POWER COMPANY ON AUXILIARY
FEEDWATER SYSTEM ACTUATION LOGIC

1) Review auxiliary feedwater system actuation logic by going through automatic initiation, operation, and reset sequence assuming each possible system switch position at the start of the sequence. Perform this review for each automatic initiation signal.

2) Review power supply assignments for each train of the auxiliary feedwater system.

3) Review switch locations for each switch in the auxiliary feedwater system.

4) Review control system failures which can result in inadvertent auxiliary feedwater actuation during plant heatup, cooldown, or shutdown operations.

5) Discuss specific concerns on attached.

CONCERNS WITH ALABAMA POWER COMPANY AUXILIARY FEEDWATER SYSTEM ACTUATION LOGIC

1) The redundant solenoid valves in the control air lines to the auxiliary feedwater pump discharge valves are presently arranged to be "energize to close or modulate" the discharge valves and "de-energize to open" the discharge valves. When the auxiliary feedwater system is in use, the loss of a single power supply will, thus, open all of the auxiliary feedwater pump discharge valves and initiate full auxiliary feedwater flow to the steam generators. The following information is needed to evaluate this design:

   a) A conservative analysis of the primary system cooldown rate following the opening of the auxiliary feedwater pump discharge valves with the auxiliary feedwater pumps in operation during hot shutdown, system heat-up, or system cooldown. This should include both normal operation and automatic initiation of auxiliary feedwater for transients and accidents. The analysis should include primary system pressure response and indicate operator actions necessary to maintain cooldown rates within appropriate limits and to maintain required primary system pressure and temperature relations

   b) Steam generator levels versus time for the transients in a) above

   c) The safety related reasons (if any) for designing the system such that the solenoid valves "de-energize to open" the pump discharge valves

2) The motor driven pump discharge valves are apparently not automatically fully opened following a low low steam generator level signal if the valve switch is in the "mod" position even though low low steam generator level is the primary auxiliary feedwater system actuation signal for loss of feedwater accidents not involving initiation of safety injection. This appears to be a deficiency in the design.

3) The power source dependencies of other components in the auxiliary feedwater trains is also of concern, e.g., the normal loading stations which are used to throttle auxiliary feedwater flow.