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Alabama Power
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June 18, 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
Verification of Reactor Vessel Head and
Internals Lifting Rigs Construction

Gentlemen:

On May 31, 1984 the NRC Staff requested clarification of Alabama Power Company's May 15, 1984 response to the NRC Staff request for information on the Control of Heavy Loads dated April 9, 1984.

Attached is the Alabama Power Company response to the NRC Staff request.

If there are any questions, please advise.

Yours very truly,

R. P. McDonald

RPM/JLO:ddr-D9
Attachment
cc: Mr. L. B. Long
Mr. J. P. O'Reilly
Mr. E. A. Reeves
Mr. W. H. Bradford

A001

Attachment

Response to NRC Staff Request of May 31, 1984 for Verification of Reactor Vessel Head and Internals Lifting Rig Construction

NRC Request

Provide verification of the workmanship of the Unit 1 and 2 lifting rigs by either load tests or a review of construction quality records including the non-destructive examinations (NDE) which were performed.

APCo Response

1) Unit 2 Lifting Rigs

A 125% design load test was performed under the direction of the lifting rigs supplier for the Unit 2 Reactor Vessel Head Lifting Rig and Internals Lifting Rig. The rigs were visually inspected after load testing and found free of developed faults and obvious distortion. In addition, weld areas were magnetic particle tested and determined to meet original drawing requirements. The Unit 2 lifting rigs are therefore verified fabricated as designed.

2) Unit 1 Lifting Rigs

The construction quality records were reviewed for the Unit 1 Reactor Vessel Head Lifting Rig and Internals Lifting Rig to ensure that the rigs were fabricated as required by the design specifications. In accordance with the supplier design specifications for the rigs, welds were made by an ASME Code Section IX qualified welder and were magnetic particle and dye penetrant inspected (as required) by personnel qualified to NDT-SNT-TC1A. Dimensional tolerances, materials, heat treatment records, radiography and ultrasonic testing results (as required) were reviewed and verified to comply with the design specifications. Multiple lifts of 100% of the design load have been performed by the Unit 1 lifting rigs. In addition, a lift of 112% of the design load has been performed by the Reactor Vessel Head Lifting Rig while a lift of 213% of the upper internals load has been performed by the Reactor Vessel Internals Lifting Rig. The upper internals are the only heavy load of safety significance for the Reactor Vessel Internals Lifting Rig. The Unit 1 lifting rigs are therefore verified fabricated as designed.