

Mailing Address
Alabama Power Company
600 North 18th Street
Post Office Box 2641
Birmingham, Alabama 35291
Telephone 205 783-6081

F. L. Clayton, Jr.
Senior Vice President
Flintridge Building
NT-82-2364



Docket No. 50-348

July 20, 1982

Mr. J. P. O'Reilly
U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
101 Marietta Street, N. W.
Suite 3100
Atlanta, GA 30303

32 JUL 23 P 2: 20
REGION II
ATLANTA, GEORGIA

**J. M. Farley Nuclear Plant - Unit 1
Containment Post Tensioning System Testing and Inspection
Licensee Event Report No. LER 80-58/03L-1**

Dear Mr. O'Reilly:

Alabama Power Company herewith submits a description of actions taken subsequent to the Farley Nuclear Plant Unit 1 initial three year Containment Post Tensioning System testing and inspection.

The five year tendon surveillance was completed in April, 1982. All liftoff forces measured were within predicted limits specified in the Unit 1 Technical Specifications. Results of the visual inspections performed during the five year tendon surveillance were within the acceptance criteria of procedure FNP-1-STP-609.0 and were within the acceptance criteria of the Inland Ryerson Field Installation and Quality Control Manual used during initial installation of the tendons. These results have been documented in the Five Year Tendon Surveillance Report submitted to the NRC, Region II by our letter number NT-82-2353 of July 7, 1982.

Concurrent with the five year tendon surveillance, all tendons from the original three year tendon surveillance sample were visually inspected and had their liftoff forces re-checked. The visual inspection results showed no significant change from the conditions reported in the original Three Year Tendon Surveillance Report. All liftoff forces checked during the resurveillance were found to be within the predicted limits specified in the Unit 1 Technical Specifications. Furthermore, the liftoff forces measured during the resurveillance were higher than the lockoff forces calculated using the July 10, 1980 calibration equations as reported in the original Three Year Tendon Surveillance Report. This indicates the calibration methods and equations that were used to derive the three year lockoff and liftoff force values (based on the July 10, 1980 calibration) yielded lower liftoff force values than actually existed in the tendons.

J. M. Farley Nuclear Plant - Unit 1
Containment Post Tensioning System Testing and Inspection
License Event Report No. LER 80-58/03L-1
July 20, 1982
Page 2

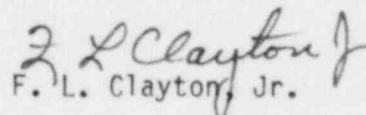
Therefore, it has been determined that the liftoff values reported in the original Three Year Tendon Surveillance Report are unrealistically low. These results have been documented in the Resurveillance Report on Three Year Surveillance Tendons submitted to the NRC, Region II by our letter number NT-82-2354 of July 7, 1982.

Calibrations of the rams used in both the three year tendon resurveillance and the five year tendon surveillance were conducted before, during (up to five times), and after completion of surveillance activities. Each ram calibration was performed in accordance with procedure FNP-1-STP-609.0, Appendix B, Stressing Ram Calibration Procedure. All ram calibrations utilized a single load cell. This load cell was calibrated (traceable to the National Bureau of Standards) before the start of the three year tendon resurveillance and after completion of the five year tendon surveillance. Load cell calibrations were performed in accordance with procedure FNP-1-STP-609.0, Appendix A, Load Cell Calibration Procedure. All ram and load cell calibration results were within the maximum deviations allowed by the procedures. These results are documented in Appendix 3 of the Resurveillance Report on Three Year Surveillance Tendons and Appendix 4 of the Five Year Tendon Surveillance Report.

Since no liftoff force anomalies were observed from the three year tendon resurveillance or from the five year tendon surveillance; since all liftoff forces measured were within the predicted limits specified in the Unit 1 Technical Specifications; since the results of the three year tendon resurveillance indicate that the liftoff values based on the July 10, 1980 calibration were unrealistically low; since the visual inspection data from the three year tendon resurveillance showed no significant changes from the results reported in the original Three Year Tendon Surveillance Report; and since the five year tendon surveillance visual inspection data was within the acceptance standards of procedure FNP-1-STP-609.0 and the original OC acceptance criteria, it is concluded that the FNP Unit 1 Containment Post Tensioning System is performing its design function with a margin of safety, and that no additional action, such as sample size expansion, is necessary.

The corrective actions taken and the favorable results found and documented during the surveillance fulfill all of the commitments stated in Licensee Event Report No. LER 80-58/03L-1 and Alabama Power Company considers this item complete.

Yours truly,


F. L. Clayton, Jr.

STB:bs

cc: Mr. R. A. Thomas
Mr. G. F. Trowbridge
Mr. S. A. Varga
Mr. E. A. Reeves
Mr. W. H. Bradford