



ARKANSAS POWER & LIGHT COMPANY

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March 27, 1989

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ATTN: Mr. Jose A. Calvo, Director
Project Director, Region IV
Division of Reactor Projects
III, IV, V and Special Projects

SUBJECT: Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51
Ten Year Inservice Inspection Program Report
For The Eighth Refueling Outage (1R8)

Dear Mr. Calvo:

Inservice Inspection (ISI) program examinations of Arkansas Nuclear One, Unit 1 (ANO-1) were conducted during the eighth refueling outage (1R8) to fulfill the requirements of the 1980 Edition of Section XI, including Addenda through the Winter of 1981, of the ASME Boiler and Pressure Vessel Code. Selection of components to be inspected was in accordance with the 1974 Edition of Section XI including Addenda through the Summer of 1975.

There were five types of examinations performed: Ultrasonic (UT), Liquid Penetrant, Magnetic Particle, Visual and Radiography. These examinations were conducted by qualified personnel from Babcock & Wilcox (B&W) and Duke Power Company. Written procedures were developed by B&W and Duke Power Company, and approved by Arkansas Power & Light Company (AP&L) and incorporated into AP&L procedures as attachments. These procedures were received and approved by Hartford Steam Boiler Inspection and Insurance Company. Overall supervisory control of the program was performed by AP&L personnel with a Task Leader supplied by B&W to oversee the NDE personnel and to review and approve all examination data requests.

During the course of all Section XI required examinations, twelve UT indications were found in vessel welds of which six were evaluated as being acceptable due to geometry and six evaluated as being acceptable by fracture

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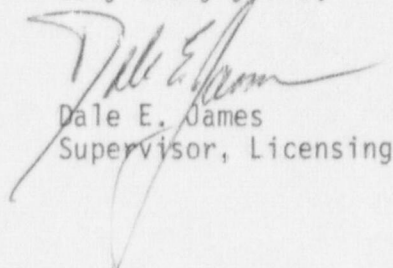
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March 27, 1989

mechanics. Sixty-nine recordable conditions involving component supports were repaired or adjusted, reexamined and found acceptable. One UT indication was found in the "B" reactor coolant pump (RCP) upper scroll weld which was evaluated as being acceptable by fracture mechanics. A detailed discussion of our evaluation of the "B" RCP weld indication was provided in our letter of October 27, 1988 (1CAN108805).

Pursuant to the ASME Code requirements for filing ISI Reports, a copy of the 1R8 outage ISI Report (Volume 9) and a copy of the associated ISI Examination Data (Volumes 10A through 10D) are submitted as enclosures to this letter.

Very truly yours,



Dale E. James
Supervisor, Licensing

DEJ:RP:de

Enclosures