

U. S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT  
REGION IV

Report No. 50-313/80-25  
50-368/80-25

License No. DPR-51  
NPF-6

Licensee: Arkansas Power and Light Company  
P. O. Box 551  
Little Rock, Arkansas 72203

Facility Name: Arkansas Nuclear One (ANO), Units 1 and 2

Inspection at: ANO Site, Russellville, Arkansas

Inspection Conducted: December 15-18, 1980

Inspector: [Signature]  
M. I. Aneshansley, Reactor Inspector

1/16/81  
Date

for [Signature]  
G. L. Constable, Reactor Inspector

1/16/81  
Date

[Signature]  
S. Dean, Reactor Inspector

1/16/81  
Date

Reviewed: [Signature]  
E. Gagliardo, Chief, Nuclear Support Section

1/16/81  
Date

Approved: [Signature]  
D. M. Hunnicutt, Chief, Projects Section No. 2

1/16/81  
Date

Inspection Summary

Inspection conducted during period of December 15-18, 1980 (Report No. 50-313/80-25; 50-368/80-25)

Areas Inspected: Routine, unannounced inspection including quality assurance program, procedures, and control rod worth measurement (ANO Unit 2). The inspection involved 80 inspector-hours on-site by 3 NRC inspectors.

Results: Within the three (3) areas inspected, no violations or deviations were identified.

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DETAILS1. Persons Contacted

- A. Halverson, Document Control Supervisor
- \*L. Humphrey, Plant Administrative Manager
- \*J. O'Hanlon, ANO General Manager
- \*G. Miller, Manager, Engineering Technical Support
- \*E. Sanders, Maintenance Manager
- \*L. Schempp, Manager of Nuclear QC

\*Denotes those attending exit interview.

The inspectors also talked with and interviewed other licensee employees during the inspection. These employees included licensed and unlicensed operators, craftsman, engineers and office personnel.

2. Quality Assurance Program

The inspector reviewed the licensee's procedures to ensure that implementing procedures were in conformance with the NRR docketed Quality Assurance Program. Following is a list of those procedures reviewed:

<u>Title</u>	<u>Effective Date</u>
Quality Assurance Manual, Rev. 5	October 10, 1980
Quality Control Program, No. 1004.01, Rev. 0	June 20, 1980
Quality Assurance Program No. 1000.23 Rev. 0	June 17, 1980
Procedure Review Approval and Revision Control, No. 1000.06, Rev. 1	May 7, 1980

The inspector discussed with licensee personnel the development, revision and changes which had been made to the Quality Assurance Program. The licensee was progressing in a training program developed to familiarize station personnel with the revised program.

No violations or deviations were identified.

3. Procedures

The purpose of the inspection was to determine that plant procedures were in accordance with regulatory requirements. The inspector audited the review and approval methods for several categories of plant procedures. Included in this audit were methods used to approve revisions, permanent

changes and temporary changes to procedures. The inspector reviewed, in detail, thirty-five plant procedures from six categories. The following errors were found during the inspection.

- a. Temporary Change No. 1 to Procedure 2104.33, Revision 3, was superceded by Permanent Change 1. No record of Permanent Change 1 could be found in the procedure master file.
- b. The record of change and revision page for Procedure 2104.39 indicated that page 8 should have been Revision 1, Permanent Change 5. The actual page in the procedure was Revision 1.
- c. The record of change and revision page for Procedure 1202.09 indicated that all pages in the procedure were Revision 3, Permanent Change 1; however, the pages were marked as Revision 3.
- d. The review sheet (form 1000.06c) for Procedure 1304.05, Revision 3, Permanent Change 1, had not been signed by the general manager; however, the general manager had approved the procedure cover page.
- e. The record of changes and revisions for Procedure 2202.14, Revision 1, indicated all pages should be Revision 1; however, the pages of the procedure were marked Revision 0.

The inspector determined that all of the above errors were "paper" problems and that in all cases, the correct technical information was contained in all procedures. Further, all errors were corrected before the inspector left the site.

No violations or deviations were identified.

#### 4. Control Rod Worth Measurements (ANO Unit No. 2)

The worth of Unit 2 control rods was measured as a part of the low power physics test program in accordance with Procedure 2.750.01, Revision 2, dated September 26, 1978. Portions of this test were witnessed by NRC Inspectors during the low power physics testing phase. The purpose of this inspection effort was to review those portions of the completed test procedure involving control rod worth measurement to verify that the procedure provided an adequate basis for concluding that the measured values were consistent with predicted physics data.

In addition to reviewing the completed procedure the inspector observed a boron sample analysis being conducted by a plant chemist. Techniques used to verify that the accuracy of that boron samples can be traced to a National Bureau of Standards reference were discussed.

The inspector also reviewed a comparison of reactor physics data supplied by Middle South Services and Combustion Engineering.

No violations or deviations were identified.

5. Exit Interview

An exit interview was conducted on December 18, 1980, with those AP&L personnel denoted in paragraph 1 of this report to summarize the scope of the inspection and the findings.