



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

Report Nos. 50-491/79-13, 50-492/79-13 and 50-493/79-13

Licensee: Duke Power Company
Post Office Box 422
Gaffney, South Carolina 29340

Facility Name: Cherokee 1, 2 and 3

License Nos. CPPR-167, CPPR-168 and CPPR-169

Inspection at Cherokee Plant near Gaffney, South Carolina

Inspector: J. K. Rausch 7-31-79
J. K. Rausch Date Signed

Approved by: J. C. Bryant 7/31/79
J. C. Bryant, Section Chief, RCES Branch Date Signed

SUMMARY

Inspection on July 16-18, 1979

Areas Inspected

This routine, unannounced inspection involved 16 inspector hours onsite in the area of Quality Assurance Program implementation as related to containment concrete, containment, steel liner welding; warehouse storage; personnel organization and housekeeping practices; IEB status and reporting of 50.55(e) items.

Results

No items of noncompliance or deviations were identified.

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DETAILS

1. Persons Contacted

Licensee Employees

J. T. Moore, Project Manager
*A. R. Hollins, Senior QC Engineer
*H. W. Willis, Senior QA Engineer
K. W. Schmidt, QA Engineer

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on July 18, 1979, with those persons indicated in Paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

- a. Closed Deficiency 491/492/493/78-08-03, Vault fire control. Duke Power Company has completed the installation of the Halon fire protection system in the QA records vault. The inspector examined the installation and has no further questions. This item is closed.
- b. Closed Inspector Follow-Up Item 491/492/493/79-03-01, Construction procedure for containment welding process control, CP-CKP-2 Revision 0 has been approved by Duke Power construction and quality assurance management for issue. This procedure was reviewed by an IE inspector on a previous inspection but held on an open basis pending approval by Duke. This is closed.
- c. Closed Infraction 491/492/493/79-03-04, Control of concrete cylinder curing room temperature. Duke Power Company response to this item was forwarded to the NRC March 28, 1979 with corrective action. The corrective action was reviewed and the IE inspector has no further questions.

This item is closed.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. QA Program

The inspector utilized the following procedures in checking the work and assuring that current procedures were in use. The procedures were also checked to assure that each had been approved by QA.

- a. CKD-13 Rev. No. 1, Required Inspection Hold Points for ASME Weldments - QA Approval 4-18-79.
- b. CKD-7 Rev. No. 4, Requirements for Nondestructive Testing for ASME Code Work Procedures and Techniques - QA Approval 5-11-79.
- c. M-1 Rev. No. 0, Process Control and Inspection of Containment System and Liner Plate - QA Approval 4-12-78.
- d. CKD-26 Rev. No. 2, Nondestructive Testing Requirements for Reactor Building Containment Plate (ASME Section III, Subsection NE) - QA Approval 3-6-79.

6. Independent Inspection

The inspector observed the pre-assembly operations and NDE Testing of containment plate pieces for Unit 1. These pieces were located in their fitup location on the pre-assembly platforms. These pie shaped sections had been cleaned, ground and tack welded in preparation for welding to Specification P81S-144.10-00-0001, "Specification for Field Welding and Erection of Containment Vessels".

No items of noncompliance or deviations were identified.

7. IE Bulletin Status

- a. Closed IEB 79-03, Longitudinal Weld Defects in ASME SA-312 Type 304 Stainless Steel. Duke Power replied on April 20, 1979 that piping of the type identified in IEB 79-03 was purchased from Youngstown Welding and Engineering Company and that the required NDE testing was performed. In addition Duke Power advised that they have inspected the Youngstown shops and have determined that the ASME Code is being met. The inspection has no further questions regarding this matter.
- b. Closed IEB 79-04, Incorrect weights for swing check valves manufactured by Velan Engineering Corporation. Duke Power replied to this bulletin on May 29, 1979 with a statement to the effect that Duke Power does not use Velan valves at the Cherokee Nuclear Station. The inspector has no further questions regarding this matter.
- c. Open IEB 79-07, Seismic Stress Analysis of Safety Related Piping. Duke Power responded to this bulletin on May 29, 1979 advising that in answer to items (1), (2) and (3) both EDS Nuclear, INC and Combustion Engineering have confirmed that their programs do not use algebraic summation methods for combining responses. In answer to item (3) of

this IEB, Duke identified the method by which verification of the computer program was done. This item is being reviewed by NRR.

- d. Open IEB 78-12, 12 A and 12 B, Atypical Weld Material in Reactor Pressure Vessel Welds. Duke Power Company replied on July 2, 1979 that they have reviewed the Combustion Engineering report which was submitted to the NRC on June 8, 1979. Duke Power advised IE that they are satisfied that the generic report adequately represents data for the reactor vessels of Cherokee 1 and 2. This item to be reviewed by NRR.

8. Personnel

The QA staff at Cherokee has been increased from seven to ten people in preparation for handling the additional work in all disciplines.

Duke Power Company provided a press release on June 18, 1979 announcing that Cherokee Units 1 and 2 were rescheduled from the 1985 and 1987 completion dates to 1987 and 1989 respectively. On this basis the programmatic staffing within the construction crafts will be reevaluated to determine whether the present labor force is adequate.

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