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

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Report Nos. 50-269/79-39 and 50-270/79-36

Licensee: Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242

Facility Name: Oconee Nuclear Station

Docket Nos. 50-269 and 50-270

License Nos. DPR-38 and DPR-47

Inspection at Oconee Nuclear Station near Seneca, South Carolina

Inspector: W. P. Ang

12-14-79

Date Signed

Approved by: A. R. Herdt, Section Chief, RCES Branch

12/19/79

Date Signed

SUMMARY

Inspection on December 3-5, 1979

Areas Inspected

This routine, unannounced inspection involved 21 inspector-hours on-site in the areas of pipe support baseplate designs using concrete expansion anchor bolts work activities and records; seismic analysis for as-built safety-related piping systems work activities and records; site security search procedure activities.

Results

Of the five areas inspected, two items of noncompliance were found in five areas.

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DETAILS

1. Persons Contacted

Licensee Employees

- *G. Vaughn, Assistant Site Manager
- *J. Brackett, Senior QA Engineer
- *J. McIntosh, Superintendent of Administrative Services
- *W. Foster, Site Coordinator for IEB 79-02 and 79-14
- *G. Rothenberg, Mechanical Engineer
- *J. J. McCool, QA Engineer
- *T. Matthews, Licensing Technical Specialist
- *J. Bender, Contract Services Coordinator

NRC Resident Inspector

F. Jape

*Attended exit interview.

2. Exit Interview

The inspection scope and findings were summarized on December 5, 1979 with those persons indicated in Paragraph 1 above. (Infraction 79-39-01, 79-36-01-Failure to follow hanger inspection procedures (paragraph 5) and infraction 79-39-02, 79-36-02-Failure to follow site security search procedure (paragraph 7) were discussed with the licensee. No dissenting opinions or comments were expressed by the licensee at the exit interview.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Pipe Support Baseplate Designs Using Concrete Expansion Anchor Bolts-Work Activities and Records (Units 1 and 2)

In response to IE Bulletin 79-02, the licensee has initiated a surveillance, inspection and test program to verify the adequacy of piping supports and restraints. An inspection of licensee records and work activities was conducted to verify compliance with licensee commitments and IE Bulletin 79-02 requirements. Surveillance records for the completed inspection of portions of the High Pressure Injection System in the Unit 1 Auxiliary Building and Containment Building were reviewed. Test records for package 11 of the Unit 1 High Pressure Injection System were reviewed. Inspection and testing of hanger baseplates using concrete expansion

anchors in the Unit 2 Auxiliary Building was observed. Inspection and test of support 2-53B-2-0-436E-R3 was observed. Surveillance of the support had previously been completed. A support for a tray of copper tubing was attached to support 2-53B-2-0-436E-R3. The surveillance as-built drawing for support 2-53B-2-0-436E-R3 did not report the above noted attachment. Duke Power Company (DPC) procedure MP/0/A/3019/01, paragraph 11.3, note 3 requires that, "Any attachment (extra pipes, cable trays, extra steel, etc.) must be shown on the support/restraint design drawing". This appears to be in noncompliance of 10 CFR 50, Appendix "B", Criterion V, as implemented by DPC Topical Report 1A, section 17.2.5, and Oconee Technical Specification Section 6.4.1. This shall be identified as an example for Infraction 79-39-01 and 79-36-01-Failure to follow hanger inspection procedures.

Support 1-07A-400B-DE014, Plate "A", had been inspected and tested by the licensee. The support was reported to contain wedge type concrete expansion anchors. A reinspection of the support was performed to verify compliance with licensee commitment and NRC IEB 79-02 requirements. During the reinspection, the inspector requested a torque check of the wedge type concrete expansion anchors. Three of the four concrete expansion anchors for plate "A" of support 1-07A-400B-DE014 moved prior to reaching the test torque valve. DPC specification number OS-0020.00-00-003, paragraph 4.4.2 requires that wedge anchors shall have the proper test torque applied to ensure expansion of the anchor. This appears to be in noncompliance with 10 CFR 50, Appendix "B", Criterion V, as implemented by DPC Topical Report 1A, Section 17.2.5, and Oconee Technical Specification section 6.4.1. This shall be identified as another example of Infraction 79-39-01 and 79-36-01-Failure to follow hanger inspection procedures.

6. Seismic Analysis for As-Built Safety-Related Piping Systems-Work Activities and Records (Units 1 and 2)

In response to IEB 79-14, the licensee has initiated a surveillance program to verify that "as-built" safety-related piping systems are installed as seismically analyzed. An inspection of licensee records and work activities was conducted to verify compliance with licensee commitments and IE Bulletin 79-14 requirements. Unit 1 surveillance records for portions of system 51A and B in the Auxiliary Building and Containment Building were reviewed. Unit 2 surveillance records for portions of system 53B in the Auxiliary Building were reviewed. A portion of the Unit 1 system 51A piping inside the containment (shown on DPC drawing 0-492B-4) was reinspected. It was noted that hanger numbers 51A-0-479A-H21C and 51A-0-479A-H18C had attachments for supporting other piping. These attachments were not noted on the surveillance as-built design drawings. It was also noted that a plate was in contact with the system 51A piping below the EL797'6" deck grating. The plate appeared to restrict the movement of the pipe in the horizontal direction. The plate was not noted on the surveillance as-built design drawings. DPC procedure MP/0/A/3019/01, paragraph 11.3, note 3, requires that, "Any attachment (extra pipes, cable trays, extra steel, etc.) must be shown on the support/restraint design drawing".

Furthermore, DPC procedure MP/0/A/3019/01, paragraph 11.1.2 requires, "All locations where visual evidence of binding with an interference exists shall be reported on Attachment #2". The above noted conditions of failing to follow procedure appear to be in noncompliance with 10 CFR 50, Appendix "B", Criterion V, as implemented by DPC Topical Report 1A, section 17.2.5 and Oconee Technical Specification section 6.4.1. This shall be identified as additional examples for Infraction 79-39-01 and 79-36-01-Failure to follow hanger inspection procedures.