



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

NOV - 8 1979

Report Nos. 50-413/79-19 and 50-414/79-19

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

Facility Name: Catawba Nuclear Station

Docket Nos. 50-413 and 50-414

License Nos. CPPR-116 and CPPR-117

Inspection at Catawba site, near Rock Hill, South Carolina

Inspector: *D. K. Walters* 11-8-79
D. K. Walters Date Signed

Approved by *T. E. Conlon* 11-8-79
T. E. Conlon, Section Chief, RC&ES Branch Date Signed

SUMMARY

Inspection on October 9-12, 1979

Areas Inspected

This routine unannounced inspection involved 29 inspector-hours onsite in the areas of safety-related 4160 volt switchgear, 600 volt load center and 600 motor control center installation and quality records; follow-up inspection of inspector follow-up item 413/79-16-01 and unresolved item 413/79-16-02.

Results

Of the areas inspected, no apparent items of noncompliance or deviations were identified.

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DETAILS

1. Persons Contacted

Licensee Employees

- *S. W. Dressler, Senior Construction Engineer
- *L. R. Davison, Senior QC Engineer
- *J. W. Rowell, Electrical Construction Engineer
- *H. D. Mason, QA Engineer
- *R. A. Morgan, Senior QA Engineer
- *J. W. Cox, Licensing and Projects Engineer, Steam
- M. R. Bove, Assistant QA Engineer
- J. M. Surratt, Assistant, Design Engineer
- L. A. Lecares, Assistant Design Engineer
- T. Moleff, Assistant Design Engineer

Other licensee employees contacted included 2 construction craftsmen and 2 QC inspectors.

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on October 12, 1979, with those persons indicated in Paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

(Open) Unresolved item 413/79-16-02, Cable tray hangers not installed per drawings. The licensee has issued Nonconforming Item Reports (NIR) 6358, 6370, 6371 and 6396 concerning this item. The scope of each of the NIR's is as follows:

- a. NIR 6358 documents the installation of a 3/8" x 6" x 10" steel plate on hanger 1 HA5C in lieu of a 3/8" x 7" x 10" plate as required by drawing CN-1903-04, R7. Evaluation/ disposition of the NIR has not been completed.
- b. NIR 6370 documents three longitudinal brace connections on hanger 1 HA6C as not being per the requirements of detail "B", HS-58 of drawing CN-1903-05, R3. This item was identified by the licensee during subsequent inspection of the hanger 1 HA6C installation. The incorrect installation has been attributed to a dimensional error in the location of the unistrut fittings connecting the rungs to the hanger legs on HS-57 of the design drawings which prevented installation per detail "B" HS-58. Variation Notice (VN) 7225 has been issued to correct the drawings and allow longitudinal brace installation per detail "B", HS-58. NIR corrective action requires hanger rework per VN 7225 and reinspection. The licensee's corrective action has not been completed for NIR 6370.

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- c. NIR 6371 documents conflicting measurement requirements between drawings CN-1903-05, R3 and CN-1893-05, R7. Drawing CN-1903-05 requires lengths L2, L3 and L4, of hanger 1 HA6C to be 5'-6", and drawing CN-1893-05 requires L2, L3 and L4 to be 5'-8". Additionally, drawing CN-1893-05 requires L1 to be 3'-6" whereas the installed L1 is 3'-8". L1 exceeds the plus or minus 1" tolerance specified by note 18 of CN-1903-01, R13. Licensee evaluation/disposition of NIR 6371 has not been completed.
- d. NIR 6396 documents installation of hangers 1 HA5C and 1 HA6C as not being per design drawing requirements although QC inspections per procedure CP-301 had been completed. Although not completed, NIR 6396 corrective actions are as follows.
 - (1) Revise QA procedure M-41B, serial number 2, to document individual hanger inspections.
 - (2) Revise procedure CP-301 to control work on inspected hangers including modification of inspected hangers after acceptance by QC.
 - (3) Initiate QA surveillance program to ensure hanger inspections are being performed per procedure requirements.
 - (4) Train QC and craft personnel on revised procedural requirements.

It was determined by the licensee that the two anchor bolts for the hanger 1 HA5C mounting plate did have sufficient engagement, and the licensee removed the excess washers from the bolt installations. Although the licensee had completed weld and bolt torque inspections per DPC procedure CP-301, complete hanger installation inspections per the requirements of M-41B, serial number 27 had not been performed. This item will remain open pending completion of licensee evaluation and implementation of corrective action.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Inspector Follow-up Items

(Open) Item 413/79-16-01, Pull box installation not covered by procedure. The licensee has not completed evaluation and corrective action of this item. Planned licensee corrective actions include the following.

- a. Revise Installation Specification Number CNS-1390.01-00-0048 to authorize the use of seismically qualified installations which are detailed by design drawings.

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- b. Re-install pull boxes per a seismically qualified design drawing detail. Disposition of this action will be per NCI 6339.

This item will remain open pending licensee completion of corrective action.

6. Independent Inspection Effort

The inspector toured the unit 2 facility to determine the status of construction. Safety-related 4160 volt switchgear is currently being placed into the unit 2 auxiliary building and has not yet been installed.

Within the areas inspected, no items of noncompliance or deviations were identified.

7. Electrical (Components and Systems I) - Observation of Work and Work Activities and Review of Quality Records

The inspector selected 4160 volt switchgear panel number 1ETA, 600 volt load center 1EXLA, and 600 volt motor control centers 1EMXA, 1EMXC, 1EMXE and 1EMXG for inspection of panel, breaker and bus installation and quality records. Installation of 1ETA, 1EXLA, 1EMXC, 1EMXE and 1EMXG were in accordance with the drawings referenced on the installation inspection records. Inspection of the installation of the panels had been documented on form M-471A in accordance with DPC procedure M-41, "Electrical Equipment Installation Inspection". Periodic storage and maintenance inspections for 1ETA (discontinued after energization) and 1EXLA had been documented on DPC form P-3A in accordance with DPC procedure P-3, "Storage Inspection". Receiving inspections had been documented on DPC form P-1A which had been completed per procedure P-1, "Receiving Inspection". Completed vendor certification forms (DPC form 930.1C) and vendor certification tests were reviewed for compliance with DPC specification CNS-1312.02-1, CNS-1314.01-1 and CNS-1314.01-1. The inspector reviewed the two most recent QA audits (serial number E-1-7-79 and E-1-8-79) of the electrical equipment installation/inspection program. The audits had been documented on DPC form QA-300A, "Surveillance Checklist".

Within the areas inspected, no items of noncompliance or deviations were identified.

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