



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

Report No.: 50-339/79-2

Licensee: Virginia Electric and Power Company
Post Office Box 26666
Richmond, Virginia 23261

Facility Name: North Anna Power Station Unit 2

Docket No.: 50-339

License No.: CPPR-78

Inspection at North Anna Site, Louisa County, Virginia

Inspectors:

T. D. Gibbons
T. D. Gibbons

1/30/79
Date Signed

A. B. Ruff
A. B. Ruff

1-30-79
Date Signed

Approved by:

J. C. Bryant
J. C. Bryant, Section Chief, RCES Branch

1-31-79
Date Signed

SUMMARY

Inspection on January 9-12, 1979

Areas Inspected

This routine, unannounced inspection involved 37 inspector-hours onsite in the area of Instrumentation (components and systems, cables and terminations) work, work activities, and QC records; Electrical (components and systems) work, work activities and QC records.

Results

There were no items of noncompliance or deviations identified.

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DETAILS

1. Persons Contacted

Licensee Employees

- *P. G. Perry, Senior Resident Engineer
- *P. A. Slater, Resident Quality Assurance Engineer
- E. W. Johnson, Quality Assurance Engineer

Stone and Webster Corporation (S&W)

- *K. C. Murray, Senior Construction Inspector
- *C. S. Majumdar, Senior Field Quality Control Engineer
- P. Tacy, Quality Control Representative
- J. Arnold, Quality Control Engineer

*Attended exit interview.

2. Licensee Action on Previous Inspection Findings

The licensee actions on previous inspection findings were not reviewed during this inspection.

3. Unresolved Items

There were no new unresolved items identified during this inspection.

4. Exit Interview

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

5. Independent Inspection Efforts

The inspectors observed the protection of installed electrical equipment to verify compliance with Quality Control Procedure 17.1, "Storage of Material and Equipment". Electrical penetration assembly numbers II-IC-6, II-IB-7, II-IIC-1, 2, 3 II-IID-1, 2, and 3 were checked to verify that the units were pressurized and ten fire extinguishers were examined to verify periodic inspections.

Within the areas examined there were no items of noncompliance identified.

6. Instrumentation (Components and Systems II) - Observation of Work and Work Activities

The inspectors selected the instruments/components as indicated below for examination.

<u>Instruments/Component Number</u>		<u>Description</u>
FC-2480A	S/N 9212	Flow Control Indicator
FC-2481A	S/N 9216	Flow Control Indicator
LT-2460	S/N 103	Pressurizer Level Transmitter
LT-2461	S/N 105	Pressurizer Level Transmitter
LT-2920	S/N 1343	Accumulator Tnk 1A Level Transmitter
LT-2928	S/N 1347	Accumulator Tnk 1C Level Transmitter
LT-2457	S/N 312	Pressurizer Pressure Transmitter
LT-2456	S/N 313	Pressurizer Pressure Transmitter
RM-SW-224	S/N 0041	Radiation Monitor
RM-SW-225	S/N 0042	Radiation Monitor
SOV-IA-700		Inst. Air Control Solenoid

The instruments/components and their records were inspected for identification, location, protection, calibration and conformance with installation procedures. Procedures used in this examination were QC-12.1, "Electric Equipment Installation"; QC-12.3, "Instrumentation Installation QC Program"; QC-17.1, "Storage of Material and Equipment"; QC-15.1, "Construction Acceptance Testing and Turnover of Installed Systems"; and QC-9.1, "Quality Control Receiving Inspection".

Within the areas examined there were no items of noncompliance identified.

7. Instrumentation (Components and Systems II) - Review of Quality Records

The inspectors selected the instruments identified in paragraph 6 for a review of quality records in the areas of receipt inspection, material certification, storage, handling and identification, installation inspection and calibration. The review indicated that records were in accordance with the requirements of the procedures identified in paragraph 6.

Nonconforming and Disposition (N&D) Reports, number 3358, 3627, 3616, 3594, 3469, 3634, 3501 and 3430 were examined for current status, legibility, completeness, QC review and retrievability in accordance with requirements of QC-6.1, "Nonconformity and Disposition Reports".

The qualification records of two QA and three QC personnel were examined to assure that personnel were qualified for assigned duties and responsibilities and that these records were complete and up-to-date.

Within the areas examined there were no items of noncompliance identified.

8. Instrument (Cables and Termination I) - Review of Quality Records

The inspectors selected fifteen cables for an examination of quality records to assure SAR and QA Manual requirements were followed. The cable records were reviewed for the following cables: 2RPS4YX001, 2RPS1RX001, 2RPS3BX002, 2NMP3BX001, 2AMSAYX032, 2DGSDYX001, 2CVSCBX001, 2MSS3BX003, 2LMSARX003, 2FWS1RX003, 2QSSDYX003, 2SWSDYX005, 2TMAIRX001, 2HTS1RX444, and 2HTS1RX161. The records were reviewed to assure that requirements were met for receiving inspection, vendor material certification, installation records including size, type of cable, location, routing, identification, protection of wireways and terminations. Meggering of the cables was conducted by established procedure. Nonconformity and Disposition (N&D) Reports 3504, 3478, 3433, 3426, and 3387 were selected to assure that the current status is identified, that they are legible, complete, retrievable and that the corrective action has been identified. Two QA audits, numbers 680 and 633, were reviewed to insure that the required audits were performed and timely corrective actions, including actions to prevent repetition, were being completed.

Within the areas examined there were no items of noncompliance identified.

9. Instrumentation (Cables and Terminations II) - Review of Quality Records

The inspectors selected twelve cables for an examination of quality records to assure SAR and QA manual commitments and requirements were followed. The cable records were reviewed for the following cables: 2HTS1BX461, 2RS1BBX002, 2RCS1RX022, 2CVSDYX002, 2KSSBWX004, 2RCS2WX018, 2MSS3BX007, 2CS1ARX006, 2KMRCBX002, 2RMRCBX001, 2DBSARX003, and 2RMRCRX001. The records were reviewed to assure that requirements for receiving inspection, vendor material certification, installation records including size, type of cable, location, routing, identification, protection of wireway and terminations were completed by procedure. Meggering of the cables was conducted by established procedure. Nonconformity and Disposition (N&D) Reports 3325, 3303, 3279, 3261, 3259, 3356, 3251, 3248, 3239, and 3268, were examined to assure that current status is identified, that they are legible, complete, retrievable, and that the corrective action has been identified. The qualification records of two QA and three QC personnel were reviewed to assure that personnel were qualified for assigned duties and responsibilities and that these records were complete and up-to-date.

Within the areas examined there were no items of noncompliance identified.

10. Electrical (Components and Systems II) - Review of Quality Records

The inspectors selected the 125 Volt Battery 2BY-B-02A/B for a records review to assure that the FSAR and QA Manual commitments and requirements were met in the areas of receiving inspection, vendor test reports, source inspection, shipping release, storage, storage inspection, handling, cleanliness, installation, inspections and post installation protection.

The inspectors reviewed N&D reports 3613, 3601, 3600, 3589, 3585, 3574, 3572, 3571, 3564, 3538, and 3529 to assure that the current status was identified, that they are complete, reviewed as required, and that the resolution status was identified.

Reviewed relay calibration and setting records for 25H1 Buss. The relay setting was completed by the Control Operations group using procedures SEMP-P-RT-3, 4, and 5. The records were readily retrievable.

Within the areas examined there were no items of noncompliance identified.

11. Instrumentation (Cable and Terminations I) - Observation of Work and Work Activities

The inspectors selected ten cables as follows for examination:

2RPS4YX001	2DGS DYX001
2RPS1RX001	2CVSCBX001
2RPS3BX002	2MSS3BX003
2NMP3BX001	2LMSARX003
2AMSAYX032	2FWS1RX003

The cables were examined to assure that FSAR and QAM commitments and requirements were completed within the areas of storage, handling, nonconformance control, issue of specified material, identification, inspection, installation, installation inspection and use of specified components. Also verified were location, routing, protection, separation, grounding, cable and wireway identification, physical loading of wireways, terminations, continuity and megger testing. The reel numbers on the cable cards are traceable to the vendor records.

Within the areas examined there were no items of noncompliance identified.