



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

Report Nos.: 50-566/78-8 and 50-567/78-8

Docket Nos.: 50-566 and 50-567

License Nos.: LWA-1 and LWA-2

Category: A1 and A1

Licensee: Tennessee Valley Authority
830 Power Building
Chattanooga, Tennessee 37401

Facility Name: Yellow Creek Nuclear Plant, Units 1 and 2

Inspection at: Yellow Creek Site, Tishomingo County, Mississippi

Inspection Conducted: October 17-20, 1978

Inspector: M. J. Gouge

Reviewed by:

A. R. Herdt
A. R. Herdt, Chief

Projects Section

Reactor Construction and Engineering Support Branch

11/13/78
Date

Inspection Summary

Inspection on October 17-20, 1978 (Report Nos. 50-566/78-8 and 50-567/78-8)

Areas Inspected: Routine unannounced inspection of construction status, LWA activities, QA audits, drawing control, QA/QC records, site handling of IE bulletins/circulars, and warehouse storage of construction materials. The inspection involved 22 inspector-hours on site by one NRC inspector.

Results: Of the seven areas inspected, no apparent items of noncompliance or deviations were identified in six areas, one apparent item of deviation (QA site audits, Details I, paragraph 4b) was identified in one area.

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DETAILS I

Prepared by:

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Projects Section
Reactor Construction and Engineering
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11/9/78
Date

Dates of Inspection: October 17-20, 1978

Reviewed by:

A. R. Herdt
A. R. Herdt, Chief
Projects Section
Reactor Construction and Engineering
Support Branch

11/13/78
Date

1. Persons Contacted

Tennessee Valley Authority

M. M. Price, Project Manager
*L. S. Cox, Construction Engineer
S. G. Carr, Assistant Construction Engineer (PE)
*C. G. Wages, Assistant Construction Engineer (QC)
*R. Delay, Supervisor, Civil and Materials QC Unit
*R. D. Briggs, Supervisor, Mechanical QC Unit
*J. B. Nelson, Lead Auditor, Project QA Unit
*S. E. Alge, Supervisor, Document Control Unit
T. E. Brown, Supervisor, Warehouse Services
*J. R. Daniel, Materials QC Unit
*S. Watson, Document Control Unit
K. Durrant, Project QA Unit
R. Newby, Project QA Unit
L. Parker, Project QA Unit

*Denotes those present at the exit interview.

2. Licensee Actions on Previous Inspection Findings

This area was not inspected.

3. Unresolved Items

No new unresolved items were identified during the inspection.

4. Independent Inspection Effort

a. Construction Status/LWA Activities

The inspector conducted a visual inspection of the site to determine current construction status and to ascertain that the licensee was continuing to work within the scope of activities authorized by 10 CFR Sections 50.10(e)(1) (LWA-1) and 50.10(e)(3) (LWA-2) as granted by NRR's letter dated February 9, 1978. All activities observed were within the scope of the Limited Work Authorization (LWA). Blasting of bedrock for Units 1 and 2 reactor buildings has progressed to approximate elevation 440 feet. Blasting operations are close to complete, however, much loose bedrock has to be removed from the excavation site. Work continues on foundations in the turbine building area and fabrication of Condenser Circulating Water (CCW) system piping. Upgrading of onsite roads, construction of drainage and sewage facilities, and fabrication of warehouse, office, shop, and storage buildings are continuing operations. The central-mix batch concrete plant requires calibration. Two key construction staff positions still require manning: Supervisor, Materials QC Unit and Supervisor, Welding Unit.

b. Quality Assurance (QA) Audit Review

The TVA Topical Report TR 75-1-A Section 17.1A.18.3 titled "Construction Audits" specifies that the Supervisor, Site QA Unit, is responsible to perform planned and periodic audits of all construction activities. The audit results are to be documented and reviewed by management. The following DEC QA audits were examined by the RII inspector for deficiencies found, corrective action specified, completeness and the implementation in accordance with the licensee's procedures CEP 18.01 and QAP 18.01.

<u>Audit No.</u>	<u>Subject</u>
YC-L-78-01	Receiving Inspection
YC-L-78-02	Storage, Preservation and Maintenance of Safety-Related Items

YC-G-78-01	Document Control
YC-G-78-02	Procurement Document Control
YC-G-78-03	Control of Quality Control Investigation Reports and Nonconformances
YC-G-78-04	Quality Assurance Records
YC-G-78-05	Storage, Preservation and Control of Materials

Item 2 of the audit summary section of YC-G-78-04 and item 1 of the audit summary section of YC-G-78-05 identified areas that were not in compliance with the applicable TVA procedures and instructions. No deficiencies were written in these areas and there was not, therefore, a formal and documented method to ensure corrective action was taken or in progress. Criterion XVIII of Appendix B to 10 CFR 50 states in part: "Followup action, including reaudit of deficient areas, shall be taken where indicated." TVA Construction QAP 18.01 section 6.5.5 states: "Deficiencies encountered during the audit shall be recorded and shall be supported by sufficient data and specific examples to adequately substantiate the evaluation." QAP 18.01 section 6.6.1 states in part: "Sufficient data shall be recorded on the deficiency sheet to substantiate the encountered deficiencies."

The practice explained above of identifying audited items not in compliance with applicable TVA procedures but not documenting these nonconforming items on a deficiency sheet to ensure corrective action and/or reaudit is not in accordance with TVA Construction QAP 18.01 and is identified as deviation item Nos. 566-567/78-08-01.

c. Drawing Control

The master drawing file, superceded master drawing file, and drawing control ledger system were inspected for conformance to Yellow Creek Nuclear Plant Standard Operating Procedure (SOP)-7 "Drawing Control." Adequate procedures exist and have been implemented for control of construction drawings.

No deviations or items of noncompliance were identified in the above area inspected.

d. QA/QC Record Review

- (1) The master Quality Control Investigation Report (QCIR) log maintained by the Document Control Unit was reviewed for content and accuracy in accordance with CEP 15.01. Completed (cleared) QCIR's were reviewed and the local QCIR log maintained by the Materials and Civil QC Unit Supervisor was inspected. The QCIR system was found to be implemented and functioning in accordance with CEP 15.01.
- (2) Qualification records of the Materials and Civil QC Unit personnel were inspected for accuracy and to determine the training these personnel had received to date. The records were properly maintained and the training received by Materials and Civil QC personnel was adequate for current construction status.
- (3) The construction site audit file maintained by the Document Control Unit was reviewed. It was found that two audit reports were missing from the file and a third report had not been updated to reflect correction of deficiencies. These areas were corrected during the course of the inspection. The master audit file maintained by the Project QA unit was accurate and complete.

No deviations or items of noncompliance were identified in the above areas inspected.

e. Site Review of IE Bulletins and Circulars

The inspector reviewed the file of IE Bulletins and Circulars maintained by the Document Control Unit. The site is receiving IE Bulletins and Circulars in a timely manner. The project manager and construction engineer review all received Bulletins and Circulars for applicability to the project and determine what corrective action, if any, is required.

No deviations or items of noncompliance were identified within the above areas inspected.

f. Warehouse Storage of Construction Material

The inspector conducted a walk-thru of all site warehouse areas to determine if safety-related items were being stored in proper areas and in accordance with the applicable Receiving Inspection,

Storage and Preventive Maintenance Manual (RIS-PM) procedures. All safety-related items observed were stored in the designated areas in accordance with applicable RIS-PM procedures.

No deviations or items of noncompliance were identified within the above area inspected.

5. Exit Interview

The inspector met with licensee representatives listed in paragraph 1 at the conclusion of the inspection on October 20, 1978. The inspector summarized the scope of the inspection as follows: construction status, LWA activities, QA audit review, drawing control and QA/QC records review, site handling of IE Bulletins and Circulars, and warehouse storage inspection. The Region II inspector identified one deviation with 10 CFR 50 Appendix B and TVA Construction QAP 18.01 which has been designated deviation item Nos. 566-567/78-08-01.