



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

Report Nos.: 50-566/78-05 and 50-567/78-05

Docket Nos.: 50-566 and 50-567

License Nos.: LWA

Categories: A1, A1

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

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

Inspection at: Iuka, Mississippi

Inspection Conducted: July 24-26, 1978

Inspector: J. R. Harris

Reviewed by: R. M. Condon for  
J. C. Bryant, Chief  
Engineering Support Section No. 1  
Reactor Construction and Engineering  
Support Branch

8/22/78  
Date

Inspection Summary

Inspection on July 24-26, 1978 (Report Nos. 50-566/78-05  
and 50-567/78-05)

Areas Inspected: Construction status; meeting on rock blasting;  
QA/QC implementing procedures; drawings and specifications for  
site preparation, structural concrete and spray ponds; work per-  
formance on site preparation. The inspection involved 20 inspector-  
hours on site by one NRC inspector.

Results: No deviations or items of noncompliance were identified.

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DETAILS I

Prepared by:

R. M. Compton for  
J. R. Harris, Civil Engineer/Geologist  
Engineering Support Section No. 1  
Reactor Construction and Engineering  
Support Branch

8/22/78  
Date

Dates of Inspection: July 24-26, 1978

Reviewed by:

R. M. Compton for  
J. C. Bryant, Chief  
Engineering Support Section No. 1  
Reactor Construction and Engineering  
Support Branch

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1. Parsons Contacted

a. Tennessee Valley Authority (TVA)

\*M. M. Price, Project Manager  
\*L. Cox, Construction Engineer  
\*C. Hale, Supervisor, Civil Project Engineering Unit  
S. Carr, Assistant Construction Engineer  
R. Delay, Supervisor, Materials and Civil QC Unit  
\*J. Holladay, Supervisor, Project QA Unit  
\*S. Alge, Supervisor, Document Control Unit  
\*C. Burshears, Project Geologist  
R. Brady, Drill Foreman  
R. Alexander, Soil Boring Inspector  
M. Arnold, Environmental Engineer, Water Quality  
Branch, Muscle Shoals  
R. Lane, Chief, SMEL, Knoxville

b. Contractor Organizations

L. L. Oriard, Blasting Consultant

\*Denotes those present at the exit interview  
conducted on July 26, 1978.

2. Licensee Action on Previous Inspection Findings

This area was not inspected.

3. Unresolved Items

No unresolved items were disclosed.

4. Independent Inspection

The inspector made a visual inspection of construction activities underway and attended a coordination meeting on excavation of rock by blasting.

The licensee's present operations are controlled by the terms of an LWA-1 and LWA-2 issued February 3, 1978, and commitments in the PSAR. During the inspection, no noncompliances or deviations were disclosed within the areas inspected.

5. Site Preparation - Review of Quality Assurance Implementing Procedures, Units 1 and 2

The inspector performed a follow-up examination of procedures, specifications and drawings concerning control of site preparation. Acceptance criteria examined by the inspector are in Sections 2.4 and 2.5 of the PSAR and TVA Topical Report TR 75-1A, R1. Controlling procedures, specifications and drawings examined by the inspector are:

- a. QCI-C-101, 102, 108, 109 and 110
- b. N8C-882, RO, Earth and Rock Foundations and Fills
- c. G-9, TVA Specification, Rolled Earthfill for Dams and Power Plants
- d. G-26, Pressure Grouting of Rock Foundations
- e. Drawings 8YEO 236-Y1-01 through -03
- f. SOP No. 4, Release for Blasting After Placement of Concrete
- g. SOP No. 5, Control of Blasting Materials
- h. WMGT-SP 13.01, Aquisition and Distribution of Geological, Geohydrological, Geophysical and Seismological Data Relative to Nuclear Plant Construction

No deviations or items of noncompliance were disclosed within the areas examined.

6. Containment (Structural Concrete) - Review of Quality Assurance Implementing Procedures, Units 1 and 2

The inspector performed a follow-on examination of procedures concerning control of structural concrete. Acceptance criteria examined by the inspector are in Section 3.8 of the PSAR and TVA Topical Reports TR75-1A, R1. Controlling procedures and specifications examined by the inspector are:

- a. G-2, TVA Specification, Plain and Reinforced Concrete
- b. QCI-C-201 through QCI-C-214, QCI-C-401 and 402
- c. QCEP 7.02, 9.01, 12.01, 15.01 and 17.01
- d. Quality Assurance Records Index

No deviations or items of noncompliance were disclosed within the areas examined.

7. Lakes, Dams and Canals, Review of Quality Assurance Implementing Procedures, Units 1 and 2

The inspector performed a follow-on examination of quality assurance controls for Units 1 and 2 spray ponds. Acceptance criteria examined by the inspector are in Sections 2.5.4 and 3.8.4 of the PSAR and TVA Topical Report TR75-1A, R1.

In addition to the controlling procedures, drawings and specifications listed in paragraphs 5 and 6, the inspector examined certification records of soils and concrete inspectors and drawing number 8Y0252-Y1-01, Excavation and Backfill Below Elevation 520 for Spray Ponds.

No deviations or items of noncompliance were disclosed within the areas examined.

8. Site Preparation - Observation of Work and Work Activities, Units 1 and 2

The inspector compared the site topography with that presented in the SAR and observed work activities and results of work activities for excavation of Units 1 and 2 powerhouse blocks. Acceptance criteria examined by the inspector are listed in paragraph 5.



Observations included examination of sideslopes and current excavation grade at top of rock for deviations or unusual problems, drilling of holes for blasting and soil sampling, preliminary mapping and photographic records of excavations. Dewatering is being controlled by ditches and sumps. The piezometric surface and chemical characteristics of the groundwater are observed through a network of 10 observation wells examined by the inspector. Discussions with responsible TVA personnel indicated groundwater samples are collected by Data Services Branch, analyzed by the Water Quality and Ecology Branch and the results and use of the data coordinated by the Geological Service Branch.

No deviations of items of noncompliance were disclosed within the areas examined.

9. Exit Interview

The inspector met with the licensee representatives listed in paragraph 1 at the conclusion of the inspection on July 26, 1978. The licensee was apprised of the scope of the findings of the inspection which included construction status; coordination of blasting; QA/QC controls for site preparation, spray ponds and structural concrete; and work performance on site preparation. No deviations or items of noncompliance were disclosed.