



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

JUL 27 1981

Report Nos. 50-491/81-02, 50-492/81-02, 50-493, 81-02

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

Facility Name: Cherokee Nuclear Station

Docket Nos. 50-491, 50-492, 50-493

License Nos. CPPR-167, CPPR-168, CPPR-169

Inspection at Cherokee site near Gaffney, South Carolina

Inspector: T. E. Conlon for 7-20-81  
 J. R. Harris Date Signed

Approved by: T. E. Conlon 7-20-81  
 T. E. Conlon, Section Chief Date Signed  
 Engineering Inspection Branch  
 Engineering and Technical Inspection Division

SUMMARY

Inspection on July 7-10, 1981

Areas Inspected

This routine, unannounced inspection involved 31 inspector-hours onsite in the areas of nuclear service water dam, construction status and storage controls.

Results

Of the 3 areas inspected, no violations or deviations were identified.

## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*K. Patterson, Resident Cashier (Acting Project Manager)
- \*K. Schmidt, QA Engineer
- \*W. Lindsay, Geotechnical Engineer
- D. Mason, Supervising Technician, Civil
- \*D. Whipp, Construction Technician
- T. Murray, Mechanical Inspector, QC
- L. Camp, QA Technician
- D. Hensley, QA Technician
- D. Bullins, QC Inspector, Civil
- \*S. Teague, Employment Supervisor

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on July 10, 1981 with those persons indicated in paragraph 1 above.

### 3. Licensee Action on Previous Inspection Findings

Not inspected.

### 4. Unresolved Items

Unresolved items were not identified during this inspection.

### 5. Independent Inspection

The inspector examined storage controls and completed concrete work in the power block. Cherokee site is in an extended construction delay status. Ongoing nuclear safety related work consists of receiving inspection, storage, and preventative maintenance for nuclear safety related materials and completion of the Nuclear Service Water (NSW) dam. Work remaining to be completed on the NSW dam is placement of slope protection and installation of dam instrumentation. Instrumentation will not be initiated until resumption of construction activities.

Storage and maintenance controls examined by the NRC inspector were on the following equipment:

- a. Miscellaneous Liquid Waste Concentrators  
M-059 and M-060

- b. Control Element Drive Mechanism Motor Generators  
M-109, M-110 and M-111
- c. Main Fire Pump Motors  
E001, E002, E003 and E004
- d. Gas Decay Tanks  
M-031, M-032 and M-033
- e. Boric Acid Makeup Water Pump  
M-034
- f. Gas Accumulator Tank  
M-030

No violations or deviations were identified.

- 6. Lakes, Dams and Canals - Observation of Work and Work Activities, Units 1,2, and 3

The inspector examined completed work and ongoing placement of slope protection consisting of crusher run bedding material and rip rap. Acceptance criteria examined by the inspector appear in the following documents:

- a. Specification CKS 114.00-00-001, General Grading Work
- b. Procedure M-1, Inspection of Compacted Earth Fills
- c. Drawing Numbers CK-0025-01, CK-0025-02 and CK-0026-04

Observations showed that completed work, material and rip rap were placed in accordance with acceptance criteria. No violations or deviations were identified.

- 7. Lakes, Dams and Canals, Review of Quality Records, Units 1,2, and 3

The inspector examined quality records for the select fill, impervious core, and slope protection materials in the embankment. The dam is completed except for completion of placement of slope protection material and installation of instrumentation. Acceptance criteria examined by the inspector appears in the documents listed in paragraph 6.

Records examined included, daily inspection records, test data and associated nonconformance reports on the embankment fill and impervious core placed between February and May 1981.

No violations or deviations were identified.