



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

Report No. 50-395/80-24

Licensee: South Carolina Electric & Gas Company  
Columbia, SC 29218

Facility Name: Virgil C. Summer

Docket No. 50-395

License No. CPPR-94

Inspection at Virgil C. Summer site near Jenkinsville, SC

Inspector: E. J. Ford 19 Sep 80  
E. J. Ford Date Signed

Accompanying Personnel: E. B. Allen

Approved by: D. R. Quick 9/22/80  
D. R. Quick, Section Chief, RONS Branch Date Signed

SUMMARY

Inspection on August 25 - 29, 1980.

Areas Inspected

This routine, unannounced inspection involved 34 inspector-hours on site in the areas of Preoperational Test Procedure Verification, Thermal Expansion Test Witnessing, and Procedure Results Review.

Results

Of the 2 areas inspected, no items of noncompliance or deviations were identified.

## DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*O. S. Bradham, Station Manager
- \*J. G. Connelly, Startup Supervisor
- \*B. G. Croley, Technical Support Supervisor
- \*A. R. Koon, Technical Services Coordinator
- \*A. A. Smith, QA Supervisor
- \*S. J. Smith, Maintenance Supervisor
- \*L. F. Storz, Operations Supervisor

Other licensee employees contacted included electricians, operators, security force members, and records office personnel.

#### Other Organizations

- \*H. Bamburger, Gilbert Associates, Resident Engineer
- C. W. Bowman, Westinghouse, Startup Group Supervisor
- \*D. A. Boward, Gilbert Associates, Lead Startup Engineer
- \*H. Whitener, NRC
- \*E. B. Allen, NRC

#### NRC Resident Inspector

- \*J. Skolds

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on August 29, 1980, 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. Accompanying Personnel

The inspector was accompanied during his inspection by an NRC Co-operative training program student. The student was instructed in the mechanics of

verifying that peroperation test procedures were sufficient and adequate to meet licensee commitments and and assisted the inspector in this area. He also accompanied the inspector into containment during thermal expansion testing and was able to observe measurements in progress.

6. Inspection of Previously Identified Items

(Closed) Item (395/80-23-01); Fan Vibration. The inspector held discussions with station electricians and testing personnel regarding the question of how vendor manual ("Axivane Fan Series 66") test data which was expressed in units of displacement, i. e., inches, would convert to units of velocity, i. e., inches per second, which are being used by station personnel as acceptance criteria. The inspector noted that "IRD Mechanalysis Training Manual" designated "VCS-94B-56" contained a 3 axis co-ordinate system chart which provided for this correlation and that procedural acceptance criteria was within vendor acceptance criteria. This item is closed.

7. Preoperational Test Procedure Verification

Using the FSAR tables in Chapter 14.0, "Initial Tests and Operation", Regulatory Guide 1.68, "Preoperational and Initial Startup Test Programs for Water-Cooled Reactors", of November, 1973; the station Test Index report; and preoperational test procedures; the inspector examined the scope of the phase 2 test program to ensure that adequate testing is planned and that it is consistent with regulatory guidance and station commitments.

The inspector reviewed test procedures to insure that a preoperational test procedure has been written, reviewed, and approved in each of the required areas. This verification process is approximately 85% complete.

8. Thermal Expansion

In the area of Thermal Expansion testing, the inspector accompanied H. Whitener and GAI personnel into containment to witness piping movement measurements at rated and near-rated plant temperature. The inspectors hand checked the freedom of movement of snubbers at various locations throughout containment including the vicinity of the accumulators, the steam generators, and several levels around the pressurizer.

Discussions were held with GAI personnel regarding methods of data collection, and a review was conducted of collected data to date. In addition, discussions were held with the GAI piping stress analysis engineer concerning how the computer program calculates expected values of stress.

This area is covered in greater detail by H. Whitener in inspection report number 50-395/80-32.