



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

Report No. 50-395/82-23

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

Facility Name: V. C. Summer

Docket No. 50-395

License No. CPPR-94

Inspection at V. C. Summer site near Winnsboro, SC

Inspectors:

fa Frank Jape
M. D. Hunt

4/2/82
Date Signed

fa Frank Jape
M. Thomas

4/2/82
Date Signed

Approved by:

Frank Jape
F. Jape, Section Chief
Engineering Inspection Branch
Division of Engineering and Technical Programs

4/2/82
Date Signed

SUMMARY

Inspection on March 16-19, 1982

Areas Inspected

This routine, unannounced inspection involved 52 inspector-hours on site in the areas of preoperational test results review and inspector follow items.

Results

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

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *O. S. Bradham, Station Manager
- *J. G. Connelly, Deputy Plant Manager
- *H. C. Fields, Technical Services Engineer
- *D. A. Lavigne, Director, Surveillance Systems
- *K. W. Nettles, Engineering
- *P. V. Fant, Director, Station QC
- *S. S. Howze, Nuclear Licensing Engineer
- *H. I. Donnelly, ISEG Engineer

Other Organizations

- *H. A. Bamberger, Gilbert Associates, Inc. (GAI), Resident Engineer
- D. Cunningham, GAI, Field Engineer
- *L. M. Klingman, GAI, Resident Engineer
- *D. A. Yoder, GAI, Design Group Supervisor
- *C. W. Bowman, Westinghouse Electric Corporation (W), Startup Engineer

NRC Resident Inspector

- *J. L. Skolds

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on March 19, 1982, with those persons indicated in paragraph 1 above. The licensee committed to the retest of the containment spray pumps as discussed in paragraph 7.d. Other inspection findings were acknowledged without significant comments by the licensee.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Integrated Hot Functional Test (HFT) Results Evaluation

The inspectors reviewed the evaluation of the thermal expansion measurements taken during the HFT. The data were collected in accordance with TE 001, Rev. 2, System Thermal Expansion During HFT. The results had been evaluated

and in a few cases, additional clarification was required to justify the readings. In other instances, additional measurements will be required during the next system heatup. Additionally, piping systems such as feed-water pressurizer spray, emergency feedwater did not attain full operating temperature due to the operating conditions. The supports for these systems will be monitored during the next system heatup. All the areas requiring additional rework or monitoring have been identified in the discrepancy list for this procedure and identified as TCR #9. The inspectors will continue to follow the completion of the system thermal expansion tests. The completion of the items identified under TCR #9 will be identified as an inspector followup item 50-395/82-23-01, Complete Discrepancy Items noted in TE-1, Rev. 2.

6. Inspector Followup Items (IFI)

(Closed) IFI 395/80-26-01, Review final test results and AE evaluation of TE data. See paragraph 5 for discussion.

(Closed) IFI 395/80-22-02, Reinspect supports and restraints that are adjusted during or after HFT on next system heatup. The licensee has performed two system HFT, the latter being to reevaluate hangers. This evaluation is discussed in paragraph 5.

(Closed) IFI 395/80-22-03, Compare RCS thermal growth with predicted values - reanalyze as necessary. See the discussion in paragraph 5.

7. Preoperational Test Results Review - Engineered Safety Features

The following preoperational tests were reviewed to verify that the tests adequately address NRC requirements and licensee commitments relating to Engineered Safety Features (ESF).

- a. CS-002 Charging Pump Flow Test
- b. RH-001 RHR Flow Test
- c. SI-003 Accumulator Blowdown Test
- d. SP-002 Reactor Building Spray Pump Flow Test

The inspectors reviewed results of the above tests to verify the following:

- a. Individual test steps and data sheets were properly initialed and dated.
- b. Data sheets were completed.
- c. Changes to the procedure were made in accordance with pertinent requirements.
- d. Test changes did not change the basic objective of the test.

During review of the test results for the reactor building spray pump flow test, the inspector found that it was not clear what the pump flow rates were (full-flow condition), nor was it clear under what conditions the flows were obtained. The inspectors discussed this with the licensee representative who acknowledged that the results were not very clear. The licensee representative stated that in order to verify the flow rates for the reactor building spray pumps and to clarify the test results, the pumps would be retested. Preoperational test procedure SP-007 is being written to accomplish this. Followup during conduct of SP-007 and review of the test results will be done by the Senior Resident Inspector.