



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30323

Report No.: 50-395/86-02

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

Docket No.: 50-395

License No.: NPF-12

Facility Name: V. C. Summer

Inspection Conducted: January 1-31, 1986

Inspectors:	<u>Hugh C. Dance / Sr</u>	<u>2/5/86</u>
	Richard L. Prevatte	Date Signed
	<u>Hugh C. Dance / Sr</u>	<u>2/5/86</u>
	Perry G. Hopkins	Date Signed
Approved by:	<u>Hugh C. Dance</u>	<u>2/5/86</u>
	Hugh C. Dance, Section Chief	Date Signed
	Division of Reactor Projects	

SUMMARY

Scope: This routine, announced inspection involved 263 resident inspector-hours on site in the areas of followup on nonroutine events and reports, surveillance observations of safety related systems, observation of maintenance activities, followup of operational events, ESF System walkdown, operational safety verifications, plant physical protection and information meeting with local officials.

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

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

O. Dixon, Vice President, Nuclear Operations
O. Bradham, Director, Nuclear Plant Operations
B. Croley, Deputy Director, Operations and Maintenance
K. Woodward, Manager, Operations
J. Skolds, Group Manager, Technical and Support Services
M. Quinton, Manager, Maintenance Services
M. Browne, Manager, Technical Support
G. Putt, Manager, Scheduling and Materials Management
M. Williams, Manager, Nuclear Education and Training
L. Blue, Manager, Support Services
S. Hunt, Manager, Quality Control
A. Koon, Associate Manager, Regulatory Compliance
J. Sefick, Manager, Nuclear Security
B. Williams, Supervisor, Operations

Other licensee employees contacted included engineers, technicians, operators, mechanics, security force members, and office personnel.

2. Exit Interview (30703)

The inspection scope and findings were summarized on January 31, 1986, with those persons indicated in paragraph 1 above. The inspector described the areas inspected and discussed the inspection findings. The licensee did not identify as proprietary any of the materials provided to or reviewed by the inspectors during the inspection.

3. Onsite Followup of Events and Subsequent Written Reports of Nonroutine Events at Power Reactor Facilities (92700)

For nonroutine events selected for onsite followup, the inspectors determined that the licensee had taken corrective action(s) as stated in written reports of the events and that these responses to the events were adequate and met regulatory requirements, license conditions, and commitments. During the reporting period, nonroutine events were reported and the inspectors selected the following for onsite followup:

- a. (Open) Special Report (SPR 85-021). The reactor building containment tendon third period surveillance completed on December 18, 1985 identified several tendons where the lift off forces were less than required by Technical Specifications (TS) 4.6.1.6.1(b). Tendons found to be below the TS requirements were retensioned to within acceptable values. A long term evaluation is still in process with an anticipated complete date of late 1986. This item was reported to Region II on January 17, 1986. The item remains open.

- b. (Open) LER 85-034. On December 25, 1985, Pressurizer Spray Valve PCV444D, failed in the open position. This resulted in rapid system depressurization of the Reactor Coolant System (RCS) with a manual reactor trip and an automatic safety injection. This item was discussed in inspection report 85-46 and identified as an unresolved item (UNR 85-46-01). A report on this event was submitted to Region II on January 24, 1986. The inspector has reviewed the short term corrective action. The item remains open to review the long term corrective action.
- c. (Closed) Special Report (SPR 84-007). The inspector reviewed the documentation and corrective action taken by the licensee and they appear to be satisfactory. This item is closed.
- d. (Closed) Special Report (SPR 84-011). The inspector reviewed the licensees documentation and corrective action on this item. They appear to be adequate to preclude recurrence. This item is closed.

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

4. Monthly Surveillance Observation (61726)

The inspectors observed surveillance activities of safety-related systems and components to ascertain that these activities were conducted in accordance with procedure and license requirements. The inspectors observed portions of selected surveillance tests including all aspects of one major surveillance test involving safety-related systems. The inspectors also verified that the required administrative approvals were obtained prior to initiating the test, that the testing was accomplished by qualified personnel, that required test instrumentation was properly calibrated, that data met TS requirements, that test discrepancies were properly rectified, and independently verified that the systems were properly returned to service. The following specific surveillance activities were observed:

STP 145.003	Gaseous Radwaste Treatment and Ventilation Exhaust Treatment System Operability Test
STP 125.002	Diesel Generator Operability Test
STP 133.001	Axial Flux Difference Calculation
STP 134.001	Shutdown Margin

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

5. Monthly Maintenance Observation (62703)

The inspectors observed maintenance activities of safety-related systems and components to ascertain that these activities were conducted in accordance with approved procedures, TS and appropriate industry codes and standards. The inspectors also determined that the procedures used were

adequate to control the activity, that replacement parts and materials used were properly certified, and that these activities were accomplished by qualified personnel. The inspectors independently verified that equipment was properly tested before being returned to service. Additionally, the inspectors reviewed several outstanding job orders to determine that the licensee was giving priority to safety-related maintenance and a backlog which might affect its performance was not developing on a given system. The following specific maintenance activities were observed:

MMP 451-001 & MWR 8563043	Maintenance and repair of waste gas compressor
MWR 86M0018 & MWR 86M0019	Diesel Generator "B" Lube oil strainer replacement
MMP 180-008	Diesel Generator "B" Lube oil system
MMP 180-006	Diesel Generator Fuel oil system
MWR 86M0025 MWR 85M0635 MMP 180.030	Diesel Generator "B" valve, injector pump racks and fuel control system inspection and maintenance
MMP 180.033	Diesel Generator "B" crankshaft and bearing inspection and maintenance
EMP 445.001 PMST P0065440 PMST P0069357 PMST P066919 MWR 85E0319	Inspection and maintenance on Limitorque operator for component cooling water system valve operator (XVB09526A-0-CC)

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

6. Onsite Followup of Events at Operating Reactors (93702)

The inspector reviewed the action taken by the licensee in response to IE Information Notice No. 85-94, Potential for Loss of Minimum Flow Paths Leading to ECCS Pump Damage During a LOCA. A review of the applicable systems at Summer by the licensee and the resident inspector determined that this notice could be applicable to the Charging and Volume Control System (CVCS), Residual Heat Removal (RHR), and Emergency Feedwater (EFW) Systems. The CVCS system, which is also the high head safety injection system, has an individual motor operated valve for each pump and a motor operated valve in the common line that goes to the seal water heat exchanger and then to the Volume Control tank. These are normally open valves with main control board indication. To preclude operating the pumps with a valve/valves shut, instruction have been provided to the operators which require that they declare the pump inoperable if the valve/valves or shut for any reason. The

RHR pump mini flow valve is a motor operated valve with main control board indication, that is normally open. When the pump is started and flow through the heat exchanger exceeds 1000 gpm the valve will go shut. The above instruction to operators is also applicable to this system. The emergency feedwater system miniflow lines are controlled by manual valves. These valves are locked open and have administrative controls to insure that they remain open. The above instruction on closed valve/pump inoperability also applies to this system. The licensee's engineering review of this notice has not been completed. The interim steps taken by the licensee is considered acceptable. The inspector will review the licensee's final resolution and actions taken on this notice when it is completed.

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

7. ESF System Walkdown (71710)

The inspectors verified the operability of an engineered safety features system by performing a walkdown of the accessible portions of Diesel Generator "A" and "B". The inspectors confirmed that the licensee's system lineup procedures matched plant drawings and the as-built configuration. The inspectors looked for equipment conditions and items that might degrade performance (hangers and supports were operable, housekeeping, etc.) and inspected the interiors of electrical and instrumentation cabinets for debris, loose material, jumpers, evidence of rodents, etc. The inspectors verified that valves, including instrumentation isolation valves, were in proper position, power was available, and valves were locked as appropriate. The inspectors compared both local and remote position indications for status agreement.

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

8. Operational Safety Verification (71707)

The inspectors observed licensee activities to ascertain that the facility was being operated safely and in conformance with regulatory requirements, and that the licensee's management control system is effectively discharging its responsibilities for continued safe operation by direct observation of activities, tours of the facility, interviews and discussions with licensee personnel, independent verification of safety system status and limiting conditions for operation, and reviewing facility records. Verifications and observation of control room staffing and shift turnovers were adequate in operational areas. Observation of instrumentation and recorder traces control room annunciators, personnel performance, and review of control room logs confirmed that appropriate actions to return the situations to normal was adequate.

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

9. Plant Physical Protection (71707)

The inspectors verified the following by observation:

- a. Gates and doors in protected and vital area barriers were closed and locked when not attended.
- b. Isolation zones described in the physical security plan were not compromised or obstructed.
- c. Personnel were properly identified, searched, authorized, badged, and escorted as necessary for plant access control.

10. Information Meeting With Local Officials (94600)

Hugh C. Dance, Section Chief, Division of Reactor Projects, Region II and the Senior Resident Inspector met with the Fairfield County Administrator and the Director of Emergency Preparedness on January 28, 1986. This meeting was held to update these officials on the NRC mission and to introduce the recently assigned Senior Resident Inspector. In addition, an informal visit and review of the materials in the Public Document Room at the Fairfield County Library was conducted. The material was well maintained and readily available for public use.