



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

Report No.: 50-395/78-14

Docket No.: 50-395

Licensee No.: CPPR-94

Categories: A3/B1

Licensee: South Carolina Electric and Gas Company
P. O. Box 764
Columbia, South Carolina 29202

Facility Name: Virgil C. Summer Nuclear Station, Unit No. 1

Inspection at: Fairfield County, South Carolina

Inspection conducted: July 31 - August 2, 1978

Inspector: E. O. Porter
M. Thomas (In Training)

Reviewed by:

A. R. Herdt
A. R. Herdt, Chief

Projects Section

Reactor Construction and Engineering Support Branch

9/12/78
Date

Inspection Summary

Inspection on July 31 - August 2, 1978 (Report No. 50-395/78-14)

Areas Inspected: Licensee actions on previous inspection findings, IE Bulletins and circulars, and 10 CFR 50.55(e) items; construction activities and housekeeping; reactor coolant pressure boundary safety related piping welding; SCE&G QA activities. The inspection involved 22 inspector hours on site by one inspector.

Results: No items of noncompliance or deviations were identified.

LPDR

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DETAILS I

Prepared by: AR Herdt
 E. O. Porter, Principal Inspector
 Projects Section
 Reactor Construction and Engineering
 Support Branch

9/11/78
 Date

Dates of Inspection: July 31 - August 2, 1978

Reviewed by: AR Herdt
 A. R. Herdt, Chief
 Projects Section
 Reactor Construction and Engineering
 Support Branch

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 Date

1. Persons Contacted

a. South Carolina Electric and Gas Company (SCE&G)

- J. F. Algar, Site Manager
- *H. I. Donnelly, Jr., Site QA Coordinator
- M. Q. Eddings
- *M. B. Jones, Construction Manager
- *K. W. Nettles, Q.C. Manager
- J. B. Bocock, Mechanical QA Supervisor
- J. Witherspoon, QC Engineer
- *G. Curtis, Mechanical QC Supervisor
- *R. P. Williams, Regional Manager
- *W. H. West, Project QA Manager
- C. E. Hackney, QA Engineer

The inspector also held discussions with craftsman, QC inspectors and QA engineers.

*Denotes those present at the exit interview.

2. Licensee Action on Previous Inspection Findings

- a. (Open) Unresolved Item 78-04-02, Weld to be Radiographed. The licensee has reradiographed one of the welds in question (FW-14) and found it to be acceptable. The film was also reviewed by RII and found to be acceptable. The other weld (FW-3) is still inaccessible but will be reradiographed when staging is put back in place to complete work in the area. This item remains open.
- b. (Open) Unresolved Item 78-10-01, Welding Equipment Grounding Practice. The licensee response to this item was not completed as of this date.

- c. (Closed) Unresolved Item 78-11-01, Weld Inspection Verification Signoff. The licensee has reviewed this problem; the procedure has been revised to clarify the requirements and inspectors have been informed of the change. This item is closed.
- d. (Open) Deviation 77-11-02, Implementation of Erosion Control Program. The licensee submitted an interim report concerning this item on July 17, 1978. Actions have not been completed to date. This item remains open pending completion of actions and review by RII.
- e. (Closed) Deficiency 78-05-02, Failure to Provide Required Protection for Reactor Vessel Internals. The licensee submitted their response to this item in their letter of July 10, 1978 to RII. Actions taken have been reviewed by RII and appear to be satisfactory. This item is closed.
- f. (Closed) Infraction Item 78-08-01, Storage of Safety Related Material. The licensee submitted their response to this item in their letter of July 10, 1978 to RII. The items have been properly stored, the area has been cleaned and responsibilities for checking and proper maintenance of the areas have been assigned. This item is closed.
- g. (Open) Infraction Item 78-10-02, Weld Preheat Control. The licensee's response to this item was not completed as of this date.
- h. (Open) Deficiency Item 78-12-01, Lack of Required Documentation-Hanger Plug Welds. The licensee's response to this item was not completed as of this date.
- i. (Open) Infraction Item 78-12-02, Welding Environment Cleanliness. The licensee's response to this item was not completed as of this date.
- j. (Open) Infraction Item 78-12-03, Piping Openings Not Covered. The licensee's response to this item was not completed as of this date.

3. Unresolved Items

There were no new unresolved items identified during this inspection.

4. Independent Inspection Effort

The inspector conduct a walk-thru inspection of the containment, intermediate building, and fuel building and observed construction

progress and practices. The inspector also reviewed personnel additions in the SCE&G site QA organization and examined DCC QA personnel certifications. In addition licensee QA Type I Surveillance Reports for the Mechanical and Electrical areas made during the month of July, 1978 and one Type II Surveillance Report (#228E2 dated August 25, 1978) were examined.

5. Licensee Identified Items (50.55(e))

Prior to this inspection, the licensee had identified several items which were reportable under 10 CFR 50.55(e). The items reported and their status are as follows:

- a. (Open) Item 78-05-01, Rockwell Valve Operator Qualifications. This item was initially reported by telecon to RII on May 18, 1978. An interim report was submitted to RII by the licensee in their letter of June 16, 1978. The licensee submitted a supplemental report to RII in his letter June 16, 1978 describing the investigation underway to assure reliability of the valves in question. The licensee expects to submit a final report by October 1, 1978.
- b. (Open) Item 78-14-01, Pipe Whip Rupture Restraints. On July 18, 1978 the licensee informed RII by telecon of a problem with fabricated "H" frames sections procured from their vendor, the Applied Engineering Company. During a visual inspection of the components on site it was noted that double bevel, welds did not meet the full penetration requirements specified. Subsequent inspection showed the over 100 components were deficient in this area. The licensee has returned the components to the vendor and is conducting surveillance over vendor repair work. The licensee expects to submit a final report by August 17, 1978.
- c. (Open) Item 78-14-02 (Potential 50.55(e) Item) Diesel Generator Fuel Lines. On June 28, 1978 the licensee notified RII by telecon of a potential problem with their diesel generators. Their vendor, Colt Industries, informed them that they may have used the wrong size flaring tool for the diesel generator fuel lines, and the fuel lines could be defective. The licensee informed RII that the vendor was expected to be on site during the week of August 7, 1978 to inspect the fuel lines and determine whether there was a problem. After the inspection, the licensee will inform RII of its reportability.

6. Status of IE Bulletins

- a. (Closed) 77-BU-04 Calculational Error Affecting the Design Performance of a System for Controlling PH of Containment Sump

Water Following a LOCA. The licensee response to this Bulletin was contained in his letter of December 16, 1977. The licensee states that their review shows that the calculational error described was not made in the design of the V.C. Summer Nuclear Station. RII has no further questions concerning this item.

- b. (Open) 78-BU-04 Stem Mounted Limit Switch. The licensees AE (Gilbert Associates) has identified all subject limit switches and solenoid valves and have also contacted various vendors to determine availability of qualified switches and solenoid valves. Action on this item has not been completed. The licensee responded to the above bulletin in his letter of April 18, 1978 to RII, in which he presented an interim report. This item remains open pending receipt of the licensees final report.
- c. (Closed) 78-BU-05 Malufanctioning of Circuit Breaker Auxiliary Contact Mechanism - General Electric Model CR105X. The licensee response to this Bulletin is contained in his letter of June 12, 1978 to RII. They state that none of the equipment of concern is used in any of the equipment supplied for V.C. Summer Nuclear Station. This item is closed.
- d. (Closed) 78-BU-06 Defective Cutler-Hammer Type M Relays with DC Coils. The licensees response to this Bulletin is contained in his letter of July 20, 1978 to RII. They found one defective relay in the HVAC control board and have replaced it. This item is closed.
- e. (Closed) 78-BU-10 Bergen-Paterson Hydraulic Shock Suppressor Accumulator Spring Coils. The licensee's response to this Bulletin is contained in his letter of July 7, 1978 to RII. They state that they do not use the Bergen-Patterson hydraulic shock suppressors. This item is closed.

7. Status of IE Circulars

The licensee has received, reviewed, evaluated and is taking necessary actions on information contained in the following circulars:

- a. 78-CI-02; Proper Lubricating Oils for Terry Turbines - Not Applicable.
- b. 78-CI-03; Packaging Greater Than Type A Quantities of Low Specific Activity Radioactive Material for Transport.
- c. 78-CI-04; Installation Errors That Could Prevent Closing of Fire Doors.

- d. 78-CI-05; Inadvertant Safety Injection During Cooldown.
- e. 78-CI-06; Potential Common Mode Flooding of ECCS Equipment Rooms of BWR Facilities - Not Applicable.
- f. 78-CI-07; Damaged Components of a Bergen-Patterson Series 25000 Hydraulic Test Stand - Not Applicable.
- g. 78-CI-08; Environmental Qualification of Safety-Related Electrical Equipment at Nuclear Power Plants.
- h. 78-CI-09; Arcing of G.E. Company NEMA Size 2 Contactors.

The inspector discussed the above circulars with the licensee and noted that IE:II would review actions taken for Item 7, (78-CI-08) in greater detail during a future inspection.

8. Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on August 2, 1978. The inspectors summarized the purpose and scope of the inspection and the review of previous inspection findings. There were no questions or dissenting comments.