



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

Report No.: 50-400/84-28

Licensee: Carolina Power and Light Company  
411 Fayetteville Street  
Raleigh, NC 27602

Docket No.: 50-400/84-28

License No.: CPPR-158

Facility Name: Harris 1

Inspection Conducted: August 13 - 17, 1984

Inspection at Harris site near Raleigh, North Carolina.

Inspectors: *P. A. Taylor*  
P. A. Taylor

8-29-84  
Date Signed

*G. A. Schnebli*  
G. A. Schnebli

8/30/84  
Date Signed

Approved by: *Frank Jape*  
F. Jape, Section Chief  
Engineering Program  
Division of Reactor Safety

8/30/84  
Date Signed

SUMMARY

Areas Inspected

This routine, announced inspection involved 62 inspector-hours on site in the areas of overall preoperational test program review, reactor coolant system hydrostatic test procedure review, and plant tour.

Results

No violations or deviations were identified.

## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*J. L. Willis, Plant General Manager
- \*R. Parsons, Project General Manager
- \*N. J. Chiangi, Manager QA/QC
- \*G. L. Forehand, Director QA/QC
- \*C. S. Bohanan, Director, Regulatory Compliance
- \*D. A. McGaw, Superintendent QA
- \*J. L. Dority, Supervisor Startup (Elect/Electronics)
- \*G. T. Lew, Supervisor Startup (NSSS)
- \*K. V. Hate, Principal QA Engineer
- \*D. Tibbitts, Senior Specialist, Regulatory Compliance

#### Other Organizations

- R. Heisey, Startup Engineer Westinghouse
- T. Rhodes, Authorized Nuclear Inspector Kemper Insurance

#### NRC Resident Inspectors

- \*G. F. Maxwell
- \*R. L. Prevatte

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on August 17, 1984, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings, without significant comment.

- a. Inspector Followup Item, 400/84-28-01, Fully identify all Joint Test Group members in the Startup Manual and provide guidance regarding the restart of a test following a test interruption. (paragraph 5)

### 3. Licensee Action on Previous Enforcement Matters

Not inspected.

### 4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Overall Preoperational Test Program Review (70301)

The inspectors initiated a review of the Harris Facility Startup Manual Volume I, Revision 16. This document identifies those administrative controls that will be used to conduct the preoperational and startup test programs. The inspectors reviewed the following Sections of the Harris Startup Manual:

- Section 1, General
- Section 2, Organizational Interface and Responsibilities
- Section 3, Startup Personnel Certification
- Section 4, Quality Assurance
- Section 5, Construction Activities
- Section 7, Procedure Review and Approval
- Section 11, Preoperational Test Program

The above portions of the Harris Startup Manual were reviewed to ascertain that the preoperational test program administrative controls have been developed in accordance with commitments and requirements specified in FSAR Chapter 14.2, Preoperational Test Program, Regulatory Guide 1.68, Revision 2, August 1978, Initial Test Program for Water Cooled Nuclear Power Plant and ANSI 18.7-1976, Administrative Controls and QA for Operational Phase of Nuclear Power Plants.

Within the areas inspected, no violation or deviations were identified. The inspectors identified two areas which appear to need additional clarification and/or development as follows:

- The Startup Manual, Volume I, Section 7 identifies four members of the plant staff as being authorized to review and approve preoperational test procedures. These staff members form the Joint Test Group and consist of: Director - QA/QC; Manager - Operations; Manager-Harris Project Engineering Section; Manager-Startup (JTG Chairman). The inspectors noted, in reviewing JTG meeting minutes dated January 24, 1984, that alternate JTG members in addition to those identified in the Startup Manual can review and approve preoperational test procedures. The inspector expressed a concern that JTG membership and activities are not fully described in the Startup Manual. The licensee indicated that action would be taken to resolve this concern.
- Section 11 of the startup manual discusses the conduct of preoperational testing and that testing is under the direction of the startup engineer. The inspector expressed a concern that no guidance is given as to what requirements must be met (e.g., re-establish prerequisites, plant conditions, valve lineups, electrical alignments, etc.) to resume

an interrupted test. The above areas will be examined during a subsequent inspection (IFI 400/84-28-01).

6. Reactor Coolant System Hydrostatic Test Procedure Review (70362)

The inspector reviewed a draft copy of the Reactor Coolant System Cold Hydrostatic Test procedure (SUM, Volume IV, No. 1-2005-C-01) to verify that the test procedure met the requirements and commitments specified in ASME Code, Section III, Division 1, Subsection NB, Section 6000; Regulatory Guide 1.68; Safety Evaluation Report; and the FSAR chapter 14.2.

The inspector verified that test procedure contained the required test temperatures, test pressures in relation to ASME Code requirements, test gage calibration requirements, inspection points and preparation for inspection, N-Stamp documentation, and QC verification of the test results. Additional reviews will be conducted upon issuance of the approved hydrostatic test procedure.

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

7. Plant Tour

The inspector toured the control room, reactor auxiliary building, containment, containment annulus and outside plant areas to observe work activities in progress, housekeeping, and tag controls on equipment.

Within the areas inspected no violation or deviations were identified.