



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

Report No.: 50-261/78-17

Docket No.: 50-261

License No.: DPR-23

Licensee: Carolina Power and Light Company  
366 Fayetteville Street  
Raleigh, North Carolina 27602

Facility Name: H. B. Robinson 2

Inspection at: H. B. Robinson site, Hartsville, S.C.

Inspection conducted: August 1-4, 1978

Inspector: T. J. McHenry

Reviewed by:

*H C Dance*

H. C. Dance, Chief

Reactor Projects Section No. 1

Reactor Operations and Nuclear Support Branch

*9/7/78*  
(Date)

Inspection Summary

Inspection on August 1-4, 1978 (Report No. 50-261/78-17)

Areas Inspected: Routine, unannounced inspection of procedure administrative controls; followup on reportable occurrences; followup on IE Bulletins and Circulars; independent inspection effort and facility tours. The inspection involved 32 inspector-hours on site by one NRC inspector.

Results: Of the five areas inspected, no items of noncompliance or deviations were identified in four areas; one apparent item of noncompliance was identified in one area (Infraction: Failure to distribute and/or use current revisions of plant procedures (78-17-01)).

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DETAILS I

Prepared by: Thomas J. McHenry  
 T. J. McHenry, Reactor Inspector  
 Reactor Projects Section No. 1  
 Reactor Operations and Nuclear  
 Support Branch

9-7-78  
 Date

Dates of Inspection: August 1-4, 1978

Reviewed by: H. C. Dance  
 H. C. Dance, Chief  
 Reactor Projects Section No. 1  
 Reactor Operations and Nuclear  
 Support Branch

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1. Persons Contacted

- \*R. B. Starkey, Jr., Plant Manager
- \*R. E. Morgan, Operations Supervisor
- C. W. Crawford, Maintenance Supervisor
- H. S. Zimmerman, Engineering Supervisor
- \*B. W. Garrison, Quality Assurance Supervisor
- D. S. Crocker, Environmental and Radiation Control Supervisor
- C. Wright, Engineering Technician
- \*M. Page, Engineering Technician
- Several control room shift foreman and operators

\*Denotes those present at exit interview.

2. Licensee Action on Previous Inspection Findings

No previous items of noncompliance or deviations were reviewed during this inspection.

3. Unresolved Items

No new unresolved items were identified during this inspection.

4. Exit Interview

A meeting was held on August 4, 1978, with Mr. R. B. Starkey, Plant Manager, and staff members denoted in paragraph 1. Items covered by this inspection were discussed, including a new noncompliance concerning distribution and use of plant procedures.

5. Plant Procedures

The inspector reviewed selected copies of the licensee's procedures. Procedures were reviewed for compliance with Technical Specification

6.8 and Administrative Instruction, Section 5.0 (Operating Manual). Selected procedures included Operating, Abnormal, Emergency, Maintenance, Periodic Test and Administrative procedures.

During the review of plant administrative procedures for controlling issuance of revisions and changes to plant procedures, the inspector noted that no written administrative system existed for controlling the distribution and use of procedures contained in working files. Several working files containing selected procedures of the type that are written on such as periodic tests, check sheets, etc. are maintained in various plant locations.

The inspector reviewed selected copies of procedures in the control room file for revision status as compared with the current revision contained in the operating manual. The following discrepancies were identified in implementing the requirements of ANSI-N18.7 Section 5.1 as required by Technical Specification 6.8.1.

- a. PT-40.0 (Inservice Quarterly Valve Test) was revised to revision 1.1 on April 18, 1978. However, the control room working files contained only copies of the superceded revision zero. In addition this procedure had been performed on June 28, 1978, using the superceded revision zero.
- b. PT-2.7C (Safety Injection System Component Test) was revised to revision 1.4 on June 30, 1978. The control room file had only copies of the superceded revision 1.3. This procedure had not been performed using the superceded revision. This procedure had been revised to prevent inadvertant dilution of the Boron Injection Tank which had resulted in two previous reportable occurrences.

The above two items have been identified as an infraction in the Notice of Violation (78-17-01).

#### 6. Review of Licensee Event Reports (LER's)

The inspector reviewed two LER's for consistency with the requirements of Technical Specification Section 6.9. The inspector examined the licensee's analysis of the event, the corrective action taken, and discussed the LER's with licensee representatives. The following LER's were reviewed.

- a. LER 78-15, Engine Driven Fire Pump Failure to Start

This LER closed without comment.

b. LER 78-03, Overpressurization During SI Periodic Test

The inspector reviewed this LER with the licensee and determined that plant design modification had been performed as specified as part of the LER corrective action. However, revision of PT-2.1 (Safety Injection Test-Refueling) had not been performed as specified as part of the LER corrective action. This LER will remain open pending revision of PT-2.1.

7. Review of IE Circulars and Bulletins

The inspector reviewed applicable IE Circulars with licensee personnel to ascertain that they have been received on site and reviewed by cognizant supervisory personnel. The licensee's actions on the following IE circulars were reviewed:

<u>Circular No.</u>	<u>Subject</u>
78-05	Inadvertent SI During Plant Cooldown
78-06	Common Mode Flooding of Equipment Rooms
78-07	Damaged Components of Bergen-Patterson Series 25000 Hydraulic Test Stand
78-09	Arcing of General Electric NEMA Size 2 Contactors

The inspector has no further questions on the above IE Circulars since they have been received and reviewed by cognizant supervisory personnel.

The inspector reviewed IE Bulletin 77-08 (Assurance of Safety and Safeguards During an Emergency-Locking Systems) to ascertain the status of design modifications specified in the licensee's response to this bulletin. The inspector reviewed this bulletin with plant personnel and determined that part of the required modification was in progress but entire modifications would not be completed until approximately April of 1979. This bulletin will remain open pending completion of design modifications.

8. Facility Tours

The inspector toured portions of the facility, including the auxiliary building, spent fuel pool and control room on both day and evening shifts to ascertain the general state of cleanliness and housekeeping. Control room operations and indicated parameters were observed and discussed with control room personnel to assure compliance with Technical Specifications. No problems were identified.

9. Plant Startup Following Reactor Trip

The reactor tripped at 3:06 PM on August 1, 1978, due to a main turbine trip caused by high steam generator level. The inspector observed control room operations following the reactor trip to assure compliance with applicable procedures and Technical Specification requirements. The cause of the reactor trip was attributed to a temporary erroneous low level in a steam generator (caused by a personnel door modification near the instrumentation cabinets) which caused excessive feeding of the affected steam generator resulting in a high level turbine trip-reactor trip. The plant was stabilized in hot shutdown. No problems were identified.

The inspector return to the site during evening shift to observe the plant startup to ascertain compliance with applicable procedures and Technical Specifications. The inspector observed performance of periodic surveillance testing required prior to startup, verification of various pre-startup checklists and procedure adherence during the reactor startup. No problems were identified.