



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

Report No.: 50-261/85-31

Licensee: Carolina Power and Light Company
 P. O. Box 1551
 Raleigh, NC 27602

Docket No.: 50-261

License No.: DPR-23

Facility Name: H. B. Robinson

Inspection Conducted: October 11 - November 10, 1985

Inspectors:	<u><i>H. E. P. Krug</i></u>	<u>15 NOV 85</u>
	H. E. P. Krug, Senior Resident Inspector	Date Signed
	<u><i>H. G. Whitcomb, III</i></u>	<u>15 NOV 85</u>
	H. G. Whitcomb, III, Resident Inspector	Date Signed
Approved by:	<u><i>P. E. Fredrickson</i></u>	<u>11/15/85</u>
	P. E. Fredrickson, Section Chief	Date Signed
	Division of Reactor Projects	

SUMMARY

Scope: This routine, announced inspection involved 239 resident inspector-hours on site in the areas of Technical Specification (TS) compliance, plant tour, operations performance, reportable occurrences, housekeeping, site security, surveillance activities, maintenance activities, quality assurance practices, radiation control activities, outstanding items review, IE Bulletin and IE Notice followup, organization and administration, independent inspection and enforcement action followup.

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

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REPORT DETAILS

1. Licensee Employees Contacted

R. Barnett, Maintenance Supervisor, Electrical
G. Beatty, Manager, Robinson Nuclear Project Department
J. Benjamin, Principal Engineer, Operations
R. Chambers, Engineering Supervisor, Performance
C. Crawford, Manager, Maintenance
D. Crocker, Principal Health Physics Specialist
J. Curley, Director, Regulatory Compliance
R. Denney, Radiation Control Supervisor
J. Eaddy, E&C Supervisor
W. Flanagan, Manager, Design Engineering
W. Gainey, Maintenance Supervisor, Mechanical
G. Honma, Senior Specialist, Regulatory Compliance
F. Lowery, Manager, Operations
A. McCauley, Director (Acting), Onsite Nuclear Safety
W. MacCready, Project Specialist, Radiation Control
R. Morgan, Plant General Manager
D. Nelson, Operating Supervisor
M. Page, Engineering Supervisor, Plant Systems
R. Powell, Principal Specialist, Maintenance
B. Rieck, Manager, Control and Administration
R. Smith, Manager, Environmental and Radiation Control
J. Sturdavant, Technician, Regulatory Compliance
R. Wallace, Manager, Technical Support
C. Wright, Senior Specialist, Regulatory Compliance
H. Young, Director, QA/QC

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

2. Exit Interview (30702,30703)

The inspection scope and findings were summarized on November 8, 1985, with the Plant General Manager and the Director of Regulatory Compliance. The licensee acknowledged the findings without exception. The licensee did not identify as proprietary any of the materials provided to or reviewed by the inspectors during this inspection.

3. Licensee Action on Previous Enforcement Matters (92702)

This area was not addressed in this inspection.

4. Plant Tour (71707, 62703, 71710)

The inspectors conducted plant tours periodically during the inspection interval to verify that monitoring equipment was recording as required, equipment was properly tagged, operations personnel were aware of plant conditions and maintenance activities, and plant housekeeping efforts were adequate. The inspectors determined that appropriate radiation controls were properly established, excess equipment or material was stored properly, and combustible material was disposed of expeditiously. During tours the inspectors looked for the existence of unusual fluid leaks, piping vibrations, pipe hanger and seismic restraint abnormal settings, various valve and breaker positions, equipment clearance tags and component status, adequacy of fire fighting equipment, and instrument calibration dates. Some tours were conducted on backshifts. Plant housekeeping was observed to be excellent.

The inspectors performed valve lineup verifications and system status checks on the following systems:

- a. Safety Injection System
- b. Containment Spray System
- c. Residual Heat Removal System
- d. Boron Injection System
- e. Reactor coolant pump seal system
- f. Service water booster pumps
- g. Station vital batteries
- h. Emergency diesel generators

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

5. TS Compliance (71707, 62703, 61726)

During this reporting interval, the inspectors verified compliance with selected limiting conditions for operation and reviewed results of certain surveillance and maintenance activities. These verifications were accomplished by direct observation of monitoring instrumentation, valve positions, switch positions, and review of completed logs and records.

Periodically during the inspection interval, the inspectors reviewed shift logs and operations records, including data sheets, instrument traces, and records of equipment malfunctions. This review included control room logs, maintenance work requests, auxiliary logs, operating orders, standing orders, jumper logs, and equipment tagout records. The inspectors routinely observed operator alertness and demeanor during plant tours. The inspectors conducted random off-hours inspections during the reporting interval to assure that operations and security remained at an acceptable level.

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

6. Plant Operations Review (71707, 62703, 61726, 61707, 61711)

Periodically during the inspection interval, the inspectors reviewed shift logs and operations records, including data sheets, instrument traces, and records of equipment malfunctions. This review included control room logs, maintenance work requests, auxiliary logs, operating orders, standing orders, jumper logs, and equipment tagout records. The inspectors routinely observed operator alertness and demeanor during plant tours. The inspectors conducted random off-hours inspections during the reporting interval to assure that operations and security remained at an acceptable level.

The inspectors periodically verified the reactor shutdown margin. The inspectors also periodically observed the reactor axial flux difference and compared the observed values with those required by the TS.

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

7. Physical Protection (71707)

During the reporting interval the inspectors verified by observation, perimeter walkdowns and interviews during the reporting interval that measures taken to assure the physical protection of the facility met current requirements. Areas inspected included the organization of the security force, the establishment and maintenance of gates, doors and isolation zones in the proper condition, that access control and badging was proper, that search practices were appropriate, and that escorting and communications procedures were followed.

During the inspection period, the inspectors continued to monitor the progress and activities of the Security Task Force with respect to the HBR Security System Upgrade Project. The inspectors attended the Security Task Force meeting held on October 16, 1985. Modifications schedules were discussed in detail and the establishment of required action to accomplish the scheduled deadlines was defined by the licensee.

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 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 management and personnel, independent verification of safety system status and limiting conditions for operation, and reviewing facility records.

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

9. ESF System Walkdown and Monthly Surveillance Observation (71710, 61726, 56700)

On Sunday October 20, 1985, the inspectors verified the operability of the engineered safety features system by performing a walkdown of the accessible portions of the safety injection, residual heat removal and containment spray systems as prescribed by Operations Surveillance Test Procedures OST-158 (Revision 2) titled "Safety Injection and Containment Spray Systems Flowpath Verification Monthly Interval (At Power)." The inspectors confirmed that the licensee's system lineup procedures matched plant drawings and the as-built configuration. The inspectors looked for equipment conditions, maintenance status and items that might degrade performance (that hangers and supports were operable, acceptable housekeeping, 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.

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

10. Onsite Followup of Events and Subsequent Written Reports of Nonroutine Events at Power Reactor Facilities (92700, 90714, 93702)

For onsite followup of nonroutine events, 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 appropriate and met regulatory requirements, license conditions, and commitments. During this reporting period, the inspectors reviewed the following LER to verify that the report details met license requirements, identified the cause of the event, described appropriate corrective actions, adequately assessed the event, and addressed any generic implications.

<u>LER</u>	<u>EVENT</u>
85-22	Error in Large Break LOCA Analysis

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

11. Organization and Administration (36700)

The inspectors reviewed the on-site licensee organization to ascertain whether changes made to the licensee's onsite organization are in conformance with the requirements of the TS by verifying that (1) the established organization is functioning as described in the TS, (2) personnel qualification levels are in conformance with applicable codes and standards, and (3) the lines of authority and responsibility are in conformance with TS and applicable codes and standards. The inspectors

also reviewed appropriate licensee records to ascertain whether the licensee's use of overtime is in conformance with regulatory requirements and that any deviations from maximum overtime limits were authorized in accordance with TS and/or plant administrative procedures.

Comprehensive discussions of current safety-related activities were conducted with plant management and technical personnel during this reporting period including, and in particular, Environmental and Radiation Controls, Quality Assurance, Regulatory Compliance and Onsite Nuclear Safety organizations. Topics discussed included licensee activities associated with plant operations activities; plant modifications, including the security system upgrade; the fire protection system; ongoing construction activities; and communications interfaces.

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

12. Onsite Review Committee (40700)

The inspectors reviewed certain activities of the plant nuclear safety committee (PNSC) to ascertain whether the onsite review functions were conducted in accordance with TS and other regulatory requirements. The inspectors (1) attended PNSC meetings held on October 15, 1985 and October 18, 1985, as nonparticipants and observed the conduct of the meeting, (2) ascertained that provisions of the TS dealing with membership, review process, frequency, qualifications, etc., were satisfied, and (3) reviewed meeting minutes to confirm that decisions and recommendations were accurately reflected in the minutes, and (4) followed up on previously identified PNSC activities to independently confirm that corrective actions were progressing satisfactorily. The inspection emphasized the performance history associated with recent radiation program modifications, the status of licensing issues, and planned refueling outage modifications.

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

13. Plant Procedures (42700)

The inspectors reviewed portions of the established procedure program to ascertain whether overall plant procedures were in accordance with regulatory requirements, temporary procedures and procedure changes were made in accordance with TS requirements, and the technical adequacy of the reviewed procedures was consistent with desired actions and modes of operation. Procedures examined included general plant operating procedures, startup, operation and shutdown of safety-related system procedures, abnormal condition procedures, procedures for emergency and other significant events, maintenance procedures and administrative procedures.

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

14. Surveillance Procedures and Records (61700)

The inspectors reviewed sections of the established licensee surveillance program. Inspection criteria included whether the surveillance of safety-related systems and components is being conducted in accordance with approved procedures as required by the TS, inservice inspection (ISI) and inservice testing programs for pumps and valves, and NRR-approved fire protection/prevention program. The inspectors also examined the technical content of selected procedures to verify that testing of related systems or components ensures compliance with the requirements specified in the TS or ISI program, and is consistent with the appropriate sections of the Updated Final Safety Analysis Report.

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