



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA ST., N.W., SUITE 3100  
ATLANTA, GEORGIA 30303

Report No. 50-261/80-22

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

Facility Name: H. B. Robinson

Docket No. 50-261

License No. DPR-23

Inspection at H. B. Robinson site near Hartsville, South Carolina

Inspector: E. H. Brooks 9-10-80  
E. H. Brooks Date Signed

Approved by: D. R. Quick 9-11-80  
D. R. Quick, Section Chief, RONS Branch Date Signed

SUMMARY

Inspection on August 5-14, 1980

Areas Inspected

This routine, announced inspection involved 92 (resident) inspector-hours on site in the areas of witnessing general plant operations, followup inspection of outstanding items, inspection of hydraulic supports and restraints, and witnessing portions of the safety injection tests.

Results

Of the 4 areas inspected, no items of noncompliance or deviations were identified.

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## DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*R. B. Starkey, Jr., General Manager
- \*G. W. Crawford, Manager, O & M
- \*H. S. Zimmerman, Manager, T & A
- \*J. M. Curley, Engineering Supervisor
- \*R. T. Connolly, Director, Nuclear Safety & QA
- \*F. L. Lowery, Operating Supervisor - Unit 2
- R. Dayton, Engineer
- D. Baur, QA
- W. Garrison, QA
- M. Watford, Eng. Tech.
- R. Chambers, Maintenance Supervisor

Other licensee employees contacted included shift supervisors, reactor operators and health physics personnel.

#### NRC Resident Inspector

- \*E. H. Brooks, Acting Resident Inspector

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on August 14, 1980 with those persons indicated in Paragraph 1 above. The inspection activities presented in these details were discussed.

### 3. Licensee Action on Previous Inspection Findings

Not Inspected.

### 4. Unresolved Items

Unresolved items are matters about which more information is required to determine whether they are acceptable or may involve noncompliance or deviations. New unresolved items identified during this inspection are discussed in paragraph 7.

### 5. Areas Inspected

In the period August 5 to August 14, 1980, the inspector acted in the capacity of NRC Resident Inspector. Areas inspected are discussed in the following paragraphs.

6. General Operations

The inspector witnessed plant operations prior to and during plant shutdown for refueling. The plant was brought to zero percent power on August 8, 1980.

The type of activities performed included:

- a. Observation of control room activities and discussion with operating personnel.
- b. Review of shift supervisor logs and equipment-out-of service logs.
- c. Daily tour of auxiliary building during normal and backshift periods.

Inspection activities in this area included observations of instrumentation operation and calibration, adherence to radiation controls, housekeeping, maintenance activities and security.

No problems were identified within these areas.

7. Review of Outstanding Open Items

The inspector reviewed outstanding open items with licensee personnel. The following were reviewed:

- a. 79-24-02 Evaluate audibility of evacuation alarms in high noise areas. Corrective action and testing performed and documented by licensee. This item was closed.
- b. 79-19-04 Establish a cleanliness control program by 8-1-80. The licensee advised NRC by telephone on 8-25-80 that the cleanliness control program was established on 8-18-80. This item will remain open subject to inspector followup.
- c. 79-19-06 Establish a program of trend evaluation by 8-1-80. The licensee advised NRC by telephone on 8-25-80 that the trend evaluation program was established on 8-18-80. This item will remain open subject to inspector followup.
- d. 79-30-01 Evaluation of torque switch settings (auxiliary feedwater motor operated valves LER 32, 33, 34) Evaluation not completed. This item remains open.
- e. 79-19-13 Drawing control program. The licensee's Quality Assurance representatives consider this item to be closed. However, the licensee was advised at the exit interview that conversations with licensee personnel indicate that outdated drawings may still be in circulation within the plant and

that the drawing control program is not effectively administered. The licensee agreed to investigate and advise the NRC accordingly by Nov. 1, 1980. This item is considered to be unresolved. (80-22-01)

8. Safety Injection Tests

The inspector witnessed safety injection testing with diesel generator startup on August 11, 1980. Details of these tests are covered in inspection report 50-261/80-19.

9. Inspection of Pipe Support and Restraint Systems

The inspector reviewed the licensee's surveillance activity for safety-related piping supports and restraints. This included a review of procedures for technical adequacy; examination of various installed dynamic and fixed supports and restraints; and review of recent surveillance records.

Following is a tabulation of the 29 safety-related hydraulic snubbers installed in the H. B. Robinson plant:

- 12 - Anker Holth (Steam Generators)
- 11 - Grinnell
- 5 - Blaw Knox or Power Piping
- 2 - Basic Engineers

The inspector reviewed the latest Periodic Test Procedure CPL-PT-31.0, Revision 9, dated and approved on 1-16-80, entitled Inspection of Hydraulic Shock Suppressors Refueling Interval and as Required by Technical Specifications.

The status of the licensee's program for inspection and testing of hydraulic snubbers as required by Technical Specifications is as follows:

- a. Inaccessible Snubbers  
Inspected 7-11-79 (none inoperable)  
Next Inspection due - 18 months
- b. Accessible Snubbers  
Inspected May, 1979 (none inoperable)  
Next Inspection due 12 months
- c. Functional Testing  
Completed May, 1979 (one snubber failed test)

During functional testing snubber number 30 experienced a broken shaft during the compression test. This snubber was replaced with a spare and 3 additional snubbers were tested as required by the technical specifications. The additional snubbers were successfully tested.

It was decided by the licensee to visually inspect all snubbers during the current outage even though inspection of the inaccessible snubbers was not due. Two snubbers were found to be empty of fluid during this inspection and were declared inoperable. Accordingly, the licensee stated that a 30 day report would be submitted to the NRC and the next snubber inspection will be changed in accordance with the schedule dictated by the technical specifications.

The inspector accompanied by licensee personnel performed an inspection of the safety related snubbers installed inside the reactor containment, and on feedwater and steam supply lines outside containment. Following are the results of this inspection:

- a. Snubber number 38, installed on the pressurizer relief line was found to have a loose lock nut and could possibly permit the snubber to become detached from its support bracket. The licensee was advised that a positive locking device is required for all snubbers similarly affected.
- b. Snubber number 39, installed on the pressurizer relief line could not be checked for lockup since the snubber alignment was such that there was no end play and the snubber cylinder could not be rotated. The licensee was advised that realignment of the snubber appeared to be necessary to assure snubber operability.
- c. Five safety-related Blaw Knox snubbers installed in the H. B. Robinson plant are equipped with control valve adjustable "handwheels". These "handwheels" are easily rotated and can conceivably cause a change in the lockup and bleed settings of the control valves due to such causes as vibration, maintenance activities, and transporting during installation or functional testing. The licensee was advised that this condition is unacceptable and that corrective action is required to assure that the control valve settings cannot be disturbed subsequent to snubber functional testing.

The licensee agreed to provide corrective action for the three conditions stated above prior to plant startup. These items were identified as open pending licensee corrective action and inspector followup (80-22-02).