



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

Report No.: 50-261/84-12

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

Docket No.: 50-261

License No.: DPR-23

Facility Name: H. B. Robinson Unit 2

Inspection at EBASCO Design Office at Norcross, Georgia

Inspector: W. P. Ang 4-25-84  
W. P. Ang Date Signed

Approved by: J. J. Blake 4/25/84  
J. J. Blake, Section Chief Date Signed  
Engineering Branch  
Division of Reactor Safety

SUMMARY

Inspection on April 12 - 13, 1984

Areas Inspected

This routine, announced inspection involved 14 inspector-hours on site in the areas of Pipe Support Baseplate Designs Using Concrete Expansion Anchors (IEB 79-02) and Seismic Analysis for As-Built Safety-Related Piping System (IEB 79-14).

Results

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

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## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

- #G. Beatty, Robinson Project Manager
- #M. Page, Engineering Supervisor
- #F. Gilman, Project Engineer, Regulatory Compliance
- \*C. Wright, Senior Specialist, Regulatory Compliance

#### Other Organization

##### EBASCO Services Incorporated

- \*R. Lehrer, Project Manager
- R. McCaffrey, Project Engineer
- \*H. Bourque, Assistant Project Engineer
- \*C. Seoane, Mechanical Engineering Manager
- \*D. Sykes, Civil Engineering Manager
- J. Lucena, Senior Supervising Engineer
- \*G. Sgier, Principal Engineer, Civil Engineering
- \*J. Hatcher, Lear Stress Analysis Engineer

- \*Attended exit interview
- #Participated in exit interview by telephone

### 2. Exit Interview

The inspection scope and findings were summarized on April 13, 1984, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings.

### 3. Licensee Action on Previous Enforcement Matters

The following previous enforcement matters were inspected, discussed with the licensee and left open pending completion of relevant committed IEB 79-02, 79-14 action. The items are also discussed in paragraph 5.

- (Open) Unresolved Item 79-25-01 - OBE/DBE Design Comparisons
- (Open) Violation 79-25-03 - Failure to Identify All Supports/Restraints
- (Open) Unresolved Item 80-24-03 - Cross Reference New Loads

### 4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Pipe Support Baseplate Designs Using Concrete Expansion Anchors (IEB 79-02) and Seismic Analysis for As-Built Safety-Related Piping Systems (IEB 79-14)

A follow-on inspection to the NRC/RII inspection documented on report number 50-261/84-07 was performed to verify licensee compliance with IEB 79-14 and 79-02 requirements and licensee commitments. On February 15, 1984, the licensee submitted a supplemental response to the bulletins to update their plans and schedule for completing all open items associated with the bulletin. The response was reviewed and discussed with the licensee. The action items reported that involved the A/E were inspected.

The licensee and the A/E selected 20 of the approximately 90 IEB 79-14 piping inspection packages for re-performance of walkdowns. All the packages will be reviewed for completeness and technical adequacy. A listing of all missing information will be generated based on the review and based on any generic findings during the sample re-performance of the walkdowns. All "U" bolt type restraints and all newly identified supports/restraints will be inspected. All restraint calculations, including concrete expansion anchors, will be reviewed for technical adequacy and completeness.

The licensee's piping analysis commitment contained in Section 3.7.3.2 of the updated FSAR was reviewed, discussed with the licensee, and inspected. The inspector had no further questions regarding the FSAR committed piping analysis. However, pending implementation of the committed IEB 79-14 walkdowns and calculation reviews, Unresolved item 79-25-01, was left open.

Two plant procedures and five A/E procedures were being developed for the licensee's re-performance of walkdowns, inspection, analysis, and calculation reviews. At the time of the RII inspection, one procedure, SP-521 - Visual Inspection of As-Built Piping System Configuration, had been issued. The procedure was reviewed and discussed with the licensee and its A/E. The procedure appeared to address the associated open IEB 79-14 items.

Piping stress analysis problems SI-16 and CH-5 were selected and reviewed for FSAR compliance. The stress problems had not yet been reviewed as part of the committed IEB 79-14 supplemental corrective action. The inspectors review identified an error in the seismic amplification factor, K, used for the problem. The licensee and the A/E demonstrated that this would be the type of errors that should be identified during its planned reviews. In addition, the licensee and the A/E performed an operability evaluation as a result of the error identified and confirmed that the error did not cause an operability problem.

Based on the licensee's committed program to resolve IEB 79-02, 79-14 open items, and discussions with the licensee and its A/E, the program appears to address the open issues and, if implemented, should resolve the open items. Pending licensee completion of IEB 79-02 and IEB 79-14, the bulletins were left open.

No violations or deviations were identified.