



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

Report No.: 50-261/91-11

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: March 31 - May 10, 1991

Lead Inspector: *L. W. Garner*
L. W. Garner, Senior Resident Inspector

5-16-91
Date Signed

Other Inspector: K. R. Jury, Resident Inspector

Approved by: *H. O. Christensen*
H. O. Christensen, Section Chief
Reactor Projects Branch 1
Division of Reactor Projects

5/17/91
Date Signed

SUMMARY

Scope:

This routine, announced inspection was conducted in the areas of operational safety verification, surveillance observation, and maintenance observation. Meeting with local officials were also conducted.

Results:

A personnel error during performance of surveillance testing resulted in an Emergency Operations Facility diesel generator trip (paragraph 2).

REPORT DETAILS

1. Persons Contacted

- *R. Barnett, Manager, Outages and Modifications
- C. Baucom, Senior Specialist, Regulatory Compliance
- D. Bauer, Regulatory Compliance Coordinator, Regulatory Compliance
- C. Bethea, Manager, Training
- *W. Biggs, Manager, Nuclear Engineering Department Site Unit
- S. Billings, Technical Aide, Regulatory Compliance
- *R. Chambers, Managers, Operations
- T. Cleary, Manager - Balance of Plant Systems and Reactor Engineering, Technical Support
- D. Crook, Senior Specialist, Regulatory Compliance
- *C. Dietz, Manager, Robinson Nuclear Project
- D. Dixon, Manager, Control and Administration
- *W. Dorman, Acting Manager, Nuclear Assessment Department
- J. Eaddy, Manager, Environmental and Radiation Support
- R. Femal, Shift Supervisor, Operations
- *J. Kloosterman, Manager, Regulatory Compliance
- D. Knight, Shift Supervisor, Operations
- *L. Lynch, Supervisor, Quality Control
- A. McCauley, Manager - Electrical Systems, Technical Support
- R. Moore, Shift Supervisor, Operations
- *A. Padgett, Manager, Environmental and Radiation Control
- *M. Page, Manager, Technical Support
- D. Seagle, Shift Supervisor, Operations
- J. Sheppard, Plant General Manager, H. B. Robinson Steam Electric Plant
- *R. Smith, Manager, Maintenance
- *D. Stadler, Onsite Licensing Engineer, Nuclear Licensing
- W. Stover, Shift Supervisor, Operations
- *K. Williams, Senior Engineer, Technical Support
- D. Winters, Shift Supervisor, Operations
- H. Young, Manager, Quality Control

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

*Attended exit interview on May 9, 1991.

*H. Christensen, Section Chief, Division of Reactor Projects was on site May 9 and 10, 1991, to meet with the resident inspectors and plant management.

Acronyms and initialisms used throughout this report are listed in the last paragraph.

2. Operational Safety Verification (71707)

The inspectors evaluated licensee activities to confirm that the facility was being operated safely and in conformance with regulatory requirements. These activities were confirmed by direct observation, facility tours, interviews and discussions with licensee personnel and management, verification of safety system status, and review of facility records.

To verify equipment operability and compliance with TS, the inspectors reviewed shift logs, Operation's records, data sheets, instrument traces, and records of equipment malfunctions. Through work observations and discussions with Operations Staff members, the inspectors verified the staff was knowledgeable of plant conditions, responded properly to alarms, adhered to procedures and applicable administrative controls, cognizant of in-progress surveillance and maintenance activities, and aware of inoperable equipment status. The inspectors performed channel verifications and reviewed component status and safety-related parameters to verify conformance with TS. Shift changes were routinely observed, verifying that system status continuity was maintained and that proper control room staffing existed. Access to the control room was controlled and operations personnel carried out their assigned duties in an effective manner. Control room demeanor and communications continued to be effective.

Plant tours and perimeter walkdowns were conducted to verify equipment operability, assess the general condition of plant equipment, and to verify that radiological controls, fire protection controls, physical protection controls, and equipment tagging procedures were properly implemented.

Facility Tours

During a routine system walkdown on April 3, 1991, the inspectors observed that there was not SW flow through the A SI pump bearing oil cooler. The deficiency was reported to Operations who immediately took action to correct the condition. The SW supply valve to the bearing cooler, SW-513, was found throttled open at least one half turn as required by operating procedure, OP-903, Service Water System. The valve was cycled open to flush the line and valve seat. The valve was subsequently rethrottled to establish adequate flow through the bearing cooler. Evidently, some debris had plugged the line and/or valve. Subsequent inspections have not revealed a similar occurrence on either operable SI pump.

On April 15, 1991, the inspectors observed that V2-6A, feedwater isolation valve to A S/G, had a galled stem. The licensee indicated that this condition had previously been identified and evaluated as being acceptable. However, leaving the stem in the observed condition for an indefinite

period is not prudent. The inspectors were unable to locate an initiated work request to correct the condition. At the end of the report period, the licensee was reviewing this situation.

On May 1, 1991, the inspectors accompanied licensee personnel during a routine monthly at power CV entry. Conditions were not observed which would render safety-related equipment inoperable. However, safety-related instrumentation, LT-920, LT-930, FT-416, FT-424, FT-425, and FT-426 (SI accumulator level and RCS loop flow instruments) were observed to have boric acid build up on tubing connections. The licensee initiated work requests to correct these conditions.

Inadvertent TSC/EOF/PAP Diesel Generator Trip

On April 13, 1991, during performance of OST-405, TSC/EOR/PAP Diesel Generator (semi-annual), the TSC/EOF/PAP diesel generator was tripped when an operator inadvertently opened the excitor breaker while attempting to silence an AC-DC alarm. The diesel generator was promptly returned to service. The licensee initiated ACR 91-134 to determine the root cause(s) of the personnel error. The inspectors will review the ACR upon completion.

No violations or deviations were identified.

3. Monthly Surveillance Observation (61726)

The inspectors observed certain safety-related surveillance activities on systems and components to ascertain that these activities were conducted in accordance with license requirements. For the surveillance test procedures listed below, the inspectors determined that precautions and LCOs were adhered to, the required administrative approvals and tagouts were obtained prior to test initiation, testing was accomplished by qualified personnel in accordance with an approved test procedure, test instrumentation was properly calibrated, the tests were completed at the required frequency, and that the tests conformed to TS requirements. Upon test completion, the inspectors verified the recorded test data was complete, accurate, and met TS requirements; test discrepancies were properly documented and rectified; and that the systems were properly returned to service. Specifically, the inspectors witnessed/reviewed portions of the following test activities:

OST-401 (revision 25) Emergency Diesels

No violations or deviations were identified.

4. Monthly Maintenance Observation (62703)

The inspectors observed safety-related maintenance activities on systems and components to ascertain that these activities were conducted in accordance with TS, approved procedures, and appropriate industry codes and standards. The inspectors determined that these activities did not violate LCOs and that required redundant components were operable. The inspectors verified that required administrative, material, testing, radiological, and fire prevention controls were adhered to. In particular, the inspectors observed/reviewed the following maintenance activities:

WR/JO 91-AGCF1	A AFW Pump Motor Alignment
WR/JO 91-BXU171	PI-942 Calibration

No violations or deviations were identified.

5. Meeting With Local Officials (94600)

On May 9, 1991, the resident inspectors and the regional Section Chief responsible for the site met with the following Darlington County officials: County Administrator, Emergency Preparedness Director, General Services Director, Fire District Coordinator, Public Information Officer/911 Project Coordinator, and Emergency Medical Services Operations Manager. During the meeting, the resident inspectors were introduced, the mission and role of the NRC as it pertains to the site were discussed, and an opportunity was provided for discussion of community concerns related to the operation of the facility. On May 10, 1991, the Section Chief and Senior Resident Inspector participated in a similar meeting with the Mayor and City Manager of Hartsville, S.C. The local officials in both meetings stated that their constituents had not expressed any concerns involving the safe operation of the facility.

6. Exit Interview (30703)

The inspection scope and findings were summarized on May 9, 1991, with those persons indicated in paragraph 1. The inspectors described the areas inspected and discussed in detail the inspection finding listed in the summary. Dissenting comments were not received from the licensee. The licensee did not identify as proprietary any of the materials provided to or reviewed by the inspector during this inspection.

7. List of Acronyms and Initialisms

ACR	Adverse Condition Report
CV	Containment Vessel
EOF	Emergency Operations Facility

LCO	Limiting Condition for Operation
NRCB	Nuclear Regulatory Commission Bulletin
OP	Operations Procedure
OST	Operations Surveillance Test
p.m.	Post Meridian
PAP	Personnel Access Portal
S/G	Steam Generator
SI	Safety Injection
SW	Service Water
TS	Technical Specification
TSC	Technical Support Center
WR/JO	Work Request/Job Order