



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

APR 03 1991

Report No.: 50-261/91-07

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 18 - 22, 1991

Inspector: F. N. Wright

3/2/91
 Date Signed

Approved by: J. P. Potter
 J. P. Potter, Chief
 Facilities Radiation Protection Section
 Radiological Protection and Emergency
 Preparedness Branch
 Division of Radiation Safety and Safeguards

4/2/91
 Date Signed

SUMMARY

Scope:

This routine, unannounced inspection was conducted in the area of radiation protection and included: organization and management controls; solid radioactive waste processing; and transportation of radioactive material.

Results:

The licensee's radiation protection program continues to be effective in protecting the safety and health of station employees. No violations or deviations were identified.

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *C. Bethca, Manager Training
- *S. Billings, Technical Aid, Regulatory Compliance
- *W. Brand, Foreman, Environmental and Radiological Control (E&RC)
- *M. Burch, Director of Investigations
- M. Crabtree, Radioactive Waste Foreman, E&RC
- *A. Faddy, Support Supervisor, (E&RC)
- *D. Gainey, Nuclear Assessment Department (NAD)
- *F. Gardner, Specialist, E&RC
- R. Geiger, Lead Technician, E&RC
- *J. Kloosterman, Manager, Regulatory Compliance
- *D. LaBelle, NAD
- *A. Padgett, Manager, E&RC
- B. Pritchard, Specialist, Technical Training
- W. Ritchie, Senior Specialist, E&RC
- *J. Sheppard, Plant General Manager
- *L. Smith, Manager, Technical Training
- *H. Young, Manager, Quality Control

Other licensee employees contacted included technicians and office personnel.

Nuclear Regulatory Commission

- L. Garner, Senior Resident Inspector
- K. Jury, Resident Inspector

*Attended exit interview

2. Organization and Management Controls

The inspector reviewed changes made to the licensee's organization, staffing levels, and lines of authority as they related to radiation protection. In March 1991, the former Manager of E&RC accepted a position with the Corporate Office. The inspector determined that the new Manager of E&RC had prior experience in a similar position and was adequately qualified to meet the requirements of Technical Specification (TS) 6.3.2, and Regulatory Guide 1.8, September 1975. Additionally, the licensee had recently promoted an E&RC Specialist to an E&RC Foreman position. The inspector determined that the employee met the qualification requirements specified in TS 6.3.1, and ANSI N18.1-1971.

No violations or deviations were identified.

3. Audits and Appraisals (86750)

The inspector reviewed the licensee's quality control (QC)/surveillance and quality assurance (QA) activities relative to solid radioactive waste processing activities and transportation of radioactive waste. The last audit of solid radioactive waste activities was made in February 1991. However, the audit report had not been issued prior to the inspection. The inspector reviewed the previous audit made in February 1990, the last QA/QC surveillance report 90-091 dated December 27, 1990, and an Observation Report dated March 7, 1991. The reports documented personnel safety issues and areas for improvement, however, there were no significant findings concerning radioactive waste handling and shipping.

No violations or deviations were identified.

4. Training and Qualification of Personnel (86750)

The inspector determined that the licensee provided training and periodic retraining programs to those employees managing, processing and shipping solid radioactive waste. Classroom instruction included training on the applicable radioactive waste shipping regulations and CPL radioactive waste shipment procedures. Training also included on-the-job training within an approved training/qualification program. The qualification program for radioactive waste shipment personnel addressed: collecting representative samples for classification of radioactive waste; surveys of radioactive packages and transportation vehicles; labeling packages and placarding transportation vehicles; documentation of radiological survey and preparation of shipping manifests; shipment loading; selecting appropriate containers and packages; classification; and applicable computer programs used by the staff. The inspector verified that radioactive waste personnel had or were in the process of completing the radioactive waste shipment training objectives and were qualified for their duties.

No violations or deviations were identified.

5. Shipping of Low-Level Waste for Disposal and Transportation (86750)

10 CFR 71.5 requires that licensees who transport licensed material outside the confines of its plant or other place of use, or who deliver licensed material to a carrier for transport, shall comply with the applicable requirements of the regulations appropriate to the mode of transport of the Department of Transportation in 49 CFR Parts 170 through 189.

The inspector reviewed selected records of radioactive waste shipments performed during 1990 and 1991. The shipping manifests examined were prepared consistent with 49 CFR requirements. The radiation and contamination survey results were within the limits specified for the mode of transport and shipment classification. The inspector selectively performed independent calculations using licensee's records of material

radioactive nuclide composition and verified that the shipments reviewed had been properly classified.

No violations or deviations were identified.

6. Control of Contamination (83750)

The inspector reviewed the licensee's controls for a temporary radiation control area (RCA) established in the Turbine Building during the last refueling outage. During the outage, licensee personnel removed the tubes from a component cooling water (CCW) heat exchanger (Hx) for maintenance. The available clearance on either end of the CCW Hx would not permit full tube withdrawal. On the end closest to the Turbine Building was a concrete block wall that had replaced a roll up door several years ago. The licensee decided to remove the block wall and move the RCA out into the Turbine Building about 20 feet. The licensee constructed a U shaped wire mesh control wall around the RCA in the Turbine Building. The walls were lined with heavy plastic. Following completion of the maintenance, the RCA was cleaned and removed and the shield wall was reconstructed. The inspector determined through interviews with licensee personnel and reviews of radiological surveys that the licensee had not spread any radioactive contamination in the Turbine Building while the temporary RCA was there.

The inspector surveyed the area after the outage when the shield wall was back in place. The inspector detected 30 cpm with a thin window GM and 16 uR/hr with another portable survey instrument. These are typical background radiation levels and close to what was reported. Licensee personnel reported that there had not been any radiological events or personnel contaminations resulting from the RCA extension.

No violations or deviations were identified.

7. Exit Interview

The inspection scope and results were summarized in March 22, 1991, with those persons indicated in Paragraph 1. Dissenting comments were not received from the licensee. Proprietary information is not contained in this report. No new issues were identified during the inspection.