



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

Report Nos. 50-325/79-43 and 50-324/79-39

Licensee: Carolina Power and Light Company
 411 Fayetteville Street
 Raleigh, North Carolina 276

Facility: Brunswick Unit 1 and 2

Docket Nos. 50-325 and 50-324

License Nos. DPR-71 and DPR-62

Inspection at Brunswick site near Southport, North Carolina

Inspector: J. E. ~~Quinn~~ *[Signature]* 12/19/79
 Date Signed

Approved by: P. J. ~~Keijong~~ *[Signature]* 12/19/79
 Branch Acting Section Chief, RONS
 Date Signed

SUMMARY

Inspection on October 27 through November 30, 1979

Areas Inspected

This routine, announced inspection involved 74 inspector-hours onsite in the areas of plant operations, plant tours, radiation protection, physical protection, quality assurance, organization and administration and followup and coverage of Unit No. 1 trips.

Unit 1 Areas Inspected

This routine and reactive inspection by the resident inspector involved 59 manhours of inspection time onsite in the areas identified above.

Unit 1 Findings

Of the seven areas inspected no apparent items of noncompliance or deviations were identified.

Unit 2 Areas Inspected

This routine inspection by the resident inspector involved 15 manhours of inspection time onsite in the first six areas identified above.

Unit 2 Findings

Of the six areas inspected no apparent items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

Licensee Employees

- *A. C. Tollison, Plant General Manager
- *J. M. Brown, Operations Manager
- *C. R. Gibson, Acting Technical and Administrative Superintendent
- *G. T. Milligan, Maintenance Manager

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

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on November 2, 9, 21, & 26, 1979 with those persons indicated in Paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Plant Operations

The inspector reviewed plant operations and status for:

- a. Correct log maintenance and entries.
- b. Tracking of limiting conditions for operation in effect.
- c. Status of safety systems and tag out of components.
- d. Cause of out of normal annunciators.
- e. Shift turnover and manning.

6. Plant Tours.

The inspector conducted tours of vital plant areas to check the status of safety systems and equipment and to ensure that proper housekeeping and cleanliness were being maintained and that unauthorized combustible materials did not exist in vital areas.

7. Radiation Protection

Toured plant areas to ensure that radiological contract requirements were being followed in the areas of handling and control of radioactive waste, performing radiation surveys and posting of radiation signs and barriers.

8. Physical Protection

Toured the plant physical protection boundaries to ensure they were secured and compensatory measures were taken where required. Witnessed security checks and badging at entrances to controlled areas and inspected entrances to vital areas to ensure they were locked or under surveillance.

9. Quality Assurance.

The quality assurance program was reviewed with licensee management to verify that any changes to the program were in accordance with his established program and applicable codes, standards and regulatory guides.

10. Organization and Administration.

The inspector discussed organizational and management changes with licensee management to verify any changes were in accordance with technical specifications, and conformed to applicable codes and standards and had been reported to the Nuclear Regulatory Commission. The following organizational and management changes were made during this period:

a. The plant manager position filled by A. C. Tollison was retitled General Manager.

b. The following new manager positions were created:

-Manager, Operations - Filled by J. M. Brown, formally Operating and Maintenance Superintendent.

-Manager-Technical and Administrative - Filled by W. M. Tucker, formally Superintendent Technical and Administrative.

-Manager-Maintenance - Filled by G. T. Milligan, formally Engineering Supervisor.

c. The following new director position was created:

-Director-Nuclear Safety and Quality Assurance. Filled by J. A. Nadgett, formally Supervisor Environmental and Radiation Control.

d. Five Shift Operating Supervisor positions were created and filled as follows:

- S. E. Thorndyke-formerly Operating Supervisor.
 - G. R. Peeler-Formerly Shift Specialist.
 - C. F. Blackman-Formerly Shift Specialist.
 - P. T. McNeill-Formerly Shift Specialist.
 - K. L. McLauchlin-Formerly Shift Specialist.
 - e. The position of Maintenance Supervisor-Mechanical was filled by J. P. Demmette, formerly Senior Engineer (Mechanical).
 - f. The position of Environmental and Radiation Control Supervisor was filled by L. Tripp, formerly Senior Specialist-E&RC.
 - g. The position of Engineering Supervisor was filled by L. V. Wagoner, formerly Maintenance Supervisor-(Mechanical).
 - h. The position of Training Supervisor was filled by M. A. Jones formerly Project Engineer (Reactor).
11. Unit No. 1 Reactor Trip Coverage
- a. Unit No. 1 reactor tripped on low-low vessel level at 0733 a.m. on November 5, 1979 when the operator was transferring the vessel level control system from three-element control to single-element control. The feedwater control system was checked out and no failed or malfunctioning equipment was found. Changes to the operating procedures were made that do not allow the transfer of the feedwater control system from one mode to the other at the power level at which the low-low level and reactor trip occurred.
 - b. Unit No. 1 reactor trip at 1335 p.m. on November 20, 1979, as a result of an electrical system instability, transfer of generator excitation to manual control, and loss of the uninterruptable power supply, due to loss of emergency busses, and failures in the inverters and static transfer switch. The sequence of events leading up to this trip and following the trip and the licensee's corrective action prior to restarting Unit No. 1 are covered in Inspection Report 50-325/79-42.

12. Acceptance Criteria

The inspector used one or more of the following sources of Acceptance Criteria for evaluating the above areas inspected:

- a. 10 CFR 50, Appendix B
- b. 10 CFR 20

- c. Technical Specifications
- d. ANSI N45.2.3 (1971)
- e. ANSI N18.7 (1972)
- f. Regulatory Guides
- g. Site Security Plans
- h. Quality Assurance Program

13. Results of Inspection

During the inspection of the above areas no items of noncompliance or deviations were identified.