NOTICE OF VIOLATION

Carolina Power and Light Company
H. B. Robinson Steam Electric Plant
Unit 2

Docket No. 50-261
License No. DPR-23
EA 94-024

During an NRC inspection conducted on November 20-December 6, 1993, violations of NRC requirements were identified. In accordance with the "General Statement of Policy and Procedure for NRC Enforcement Actions," 10 CFR Part 2, Appendix C, the violations are listed below:

A. Unit 2 Technical Specifications, Section 6.5.1.1.1 requires that written procedures shall be established, implemented, and maintained consisting of, in part, procedures for refueling operations and the applicable procedures recommended in Appendix "A" of Regulatory Guide 1.33, Rev. 2, February 1978, including procedures for calibration of nuclear instrumentation and control of plant power changes.

EST-050, "Refueling Startup Procedure," was proposed to govern plant startup from a refueling outage. Prerequisite 3.10 of EST-050 required that intermediate range nuclear instrument adjustments specified by Procedure FMP-002, "Nuclear Instrumentation Post Refueling Adjustment Determination," be completed prior to criticality after modifications to the nuclear instrumentation. FMP-002 required that Power Range nuclear instrument currents be calibrated using the two closest fuel assemblies in conjunction with a third assembly diagonally behind these assemblies.

Step 7 of GP-005, "Power Operations," requires, in part, that the intermediate range reactor trip and intermediate range overpower rod stop function be blocked by depressing the two Logic Trip Defeat push-buttons when reactor power exceeds 10 percent power.

Contrary to the above, procedures were not adequately established and implemented as evidenced by the following examples:

1. Prior to the reactor being taken critical on November 12, 1993, the licensee did not implement Prerequisite 3.10 of EST-050, in that the intermediate range nuclear instruments were not recalibrated to meet the revised rod stop and high trip setpoints that resulted from modifications to the nuclear instrumentation.

2. While increasing reactor power on November 14, 1993, Procedure FMP-002 was inadequate in that the procedure required the utilization of the two fuel assemblies closest to the power range instruments in conjunction with a third assembly diagonally behind these assemblies for predicting Power Range nuclear instrument currents rather than the four assemblies in the outer diagonal row closest to the power range detector as specified by a March 16, 1988, letter to the licensee from the fuel vendor. This resulted in a

failure to properly calibrate the power range instruments which contributed to an approximate 10 percent reactor power increase within a 15-minute period in violation of technical specification requirements.

3. During a power ascension on November 14, 1993, the operating crew failed to implement Step 7 of GP-005 in that the intermediate range reactor trip and intermediate range overpower rod stop function were not blocked by depressing the two Logic Trip Defeat pushbuttons. This function was accomplished by placing the level trip switch on intermediate range instrument NI-36 in the "bypass" position to block the intermediate range high flux trip which defeated the automatic reset function in the event power was reduced below the setpoint. (01014)

This is a Severity Level IV violation. (Supplement I)

B. 10 CFR 50, Appendix B, Criterion VII, requires in part that measures shall be established to assure that purchased material, equipment and services, whether purchased directly or through contractors and subcontractors, conform to the procurement documents.

Contrary to the above, as of November 14, 1993, measures were not established to assure that fuel purchased directly from a fuel manufacturer conformed to the procurement documents. Specifically, there were no measures to assure that fuel purchased from Seimens Fuel Corporation for the cycle-16 fuel load conformed to procurement document, EMF-CS-486, Rev. 2, "HB Robinson - Characteristics of Reload ROB-13, Cycle 16." As a result, six fuel assemblies were installed in the core that did not have gadolinium rods located in the quadrants specified in the procurement document. (02014)

This is a Severity Level IV violation. (Supplement I)

Pursuant to the provisions of 10 CFR 2.201, Carolina Power and Light Company is hereby required to submit a written statement or explanation to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, D.C. 20555, with a copy to the Regional Administrator, Region II, and a copy to the NRC Resident Inspector at the facility that is the subject of this Notice, within 30 days of the date of the letter transmitting this Notice of Violation (Notice). This reply should be clearly marked as a "Reply to a Notice of Violation" and should include for each violation: (1) the reason for the violation, or, if contested, the basis for disputing the violation, (2) the corrective steps that have been taken and the results achieved, (3) the corrective steps that will be taken to avoid further violations, and (4) the date when full compliance will be achieved. If an adequate reply is not received within the time specified in this Notice, an order or Demand for

Information may be issued as to why the license should not be modified, suspended, or revoked, or why such other action as may be proper should not be taken. Where good cause is shown, consideration will be given to extending the response time.

Dated at Atlanta, Georgia
this 9 day of May 1994