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 CUTTER, A. B. Carolina Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 DENTON, H. R. Office of Nuclear Reactor Regulation, Director (post 851125)

SUBJECT: Forwards Amend 26 to FSAR. Amend provides revs to reflect consistency within FSAR & Tech Specs, current design & revs to startup physics tests in Section 14.2.12 of FSAR.

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Carolina Power & Light Company

MAR 28 1986

SERIAL: NLS-86-063

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
United States Nuclear Regulatory Commission  
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT  
UNIT NO. 1 - DOCKET NO. 50-400  
FSAR AMENDMENT NO. 26

Dear Mr. Denton:

Carolina Power & Light Company (CP&L) hereby transmits Amendment No. 26 to the Shearon Harris Nuclear Power Plant Final Safety Analysis Report (FSAR). The attachment lists all changes to the FSAR by FSAR section. This amendment provides revisions (1) to reflect consistency within the FSAR and Technical Specifications, (2) to reflect current design, and (3) revisions to start-up physics tests in Section 14.2.12 of the FSAR. Changes to Section 14.2.12 included in this amendment package are as discussed in CP&L letter NLS-86-042 dated March 12, 1986.

Each revised page bears the amendment number and technical changes are indicated by vertical bars in the page margin. Instructions for entering the revised pages are included.

Should you have any questions regarding this amendment, please contact Mr. Jim Kloosterman of our Nuclear Licensing Section staff at (919) 836-8055.

Yours very truly,

A. B. Cutter - Vice President  
Nuclear Engineering & Licensing

ABC/CGL/ccc (3422NLU)  
Attachment

cc: Mr. B. C. Buckley (NRC)  
Mr. G. F. Maxwell (NRC-SHNPP)  
Dr. J. Nelson Grace (NRC-RII)  
Mr. Travis Payne (KUDZU)  
Mr. Daniel F. Read (CHANGE/ELP)  
Wake County Public Library

Mr. Wells Eddleman  
Mr. John D. Runkle  
Dr. Richard D. Wilson  
Mr. G. O. Bright (ASLB)  
Dr. J. H. Carpenter (ASLB)  
Mr. J. L. Kelley (ASLB)

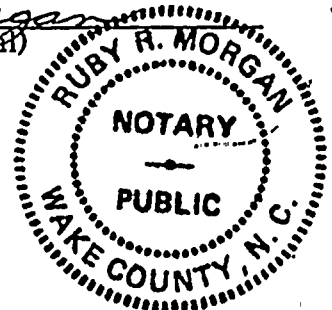
A. B. Cutter, having been first duly sworn, did depose and say that the information contained herein is true and correct to the best of his information, knowledge and belief; and the sources of his information are officers, employees, contractors, and agents of Carolina Power & Light Company.

Ruby R. Morgan  
Notary (Seal)

My commission expires: 11/27/89

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411 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602



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Carolina Power & Light Company

MAR 28 1986

SERIAL: NLS-86-063

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
United States Nuclear Regulatory Commission  
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT  
UNIT NO. 1 - DOCKET NO. 50-400  
FSAR AMENDMENT NO. 26

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Nuclear Engineering & Licensing

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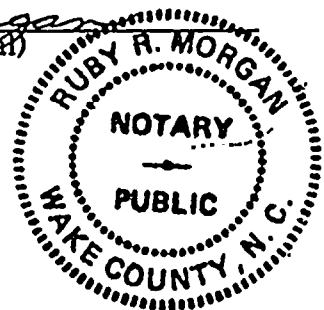
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A. B. Cutter, having been first duly sworn, did depose and say that the information contained herein is true and correct to the best of his information, knowledge and belief; and the sources of his information are officers, employees, contractors, and agents of Carolina Power & Light Company.

Notary (Seal)

My commission expires: 11/27/89



## JUSTIFICATION

### FSAR Section(s)

- 1.1, 1.3.2 Clarifications are made to provide consistency within the FSAR and with the Technical Specifications.
- 1.7 Revisions are made to reflect current design.
- 1.8 Clarifications and revisions are made to provide consistency within the FSAR and with the Technical Specifications, and to reflect current design and procedures.
- 2.4.1, 2.4.2,  
2.4.3, 2.4.4 Revisions are made to reflect current design.
- 2.4.7 Revisions are made to provide the most recent data and to reflect current design.
- 2.4.8, 2.4.10,  
2.4.11, 2.4.12,  
2.4.13 Revisions are made to reflect current design.
- 3.1 Clarifications are made to provide consistency within the FSAR and in compliance with commitments made in response to NRC Question 420.4.
- 3.2.1 Clarifications are made to provide consistency within the FSAR and reflect current design.
- 3.2.2 Revisions are made to reflect current design.
- 3.4.1 Clarifications are made to provide consistency within the FSAR and reflect current design.
- 3.9.3 Clarifications and revisions are made to provide consistency within the FSAR, reflect current design, and incorporate the remainder of our response to DSER Open Item 343.
- 3.9B Clarifications are made to provide consistency within the FSAR.
- 3.11B Revisions are made to reflect current design and incorporate current data.
- 5.2.5, 5.3.1 Revisions are made to reflect current design.
- 6.1.1, 6.2.1 Clarifications are made to provide consistency within the FSAR and with the Technical Specifications.

- 6.2.6 Clarifications and revisions are made to provide consistency within the FSAR and with the Technical Specifications, and to reflect current procedures.
- 6.3.1 Revisions are made to reflect current design.
- 6.3.2 Revisions are made to provide consistency within the FSAR and with the Technical Specifications, and to reflect current design.
- 6.3.3, 6.3.5 Clarifications are made to provide consistency within the FSAR.
- 6.5.1 Clarifications and revisions are made to provide consistency within the FSAR, reflect current design, and reflect changes in NRC guidance regarding the Fuel Handling Accident Analysis.
- 7.1.0 Revisions are made in compliance with commitments made in response to Question 420.4.
- 7.4.1, 7.5.1 Clarifications and revisions are made to provide consistency within the FSAR and reflect current design.
- 8.1.3, 8.1.4 Clarifications are made to provide consistency within the FSAR.
- 8.2.1 Clarifications and revisions are made to provide consistency within the FSAR and reflect current design.
- 8.3.1 Clarifications and revisions are made to provide consistency within the FSAR, reflect current design and data, and add the remainder of our original response to NRC Question 430.105.
- 8.3.2 Clarifications and revisions are made to provide consistency within the FSAR and reflect current design.
- 9.2.1 Revisions are made to reflect current design.
- 9.3.4 Clarifications are made to provide consistency within the FSAR.
- 9.5.3 Revisions are made to reflect current design.
- 10.1.0, 10.2.1 Clarifications are made to provide consistency within the FSAR.
- 10.2.2 Clarifications and revisions are made to provide consistency within the FSAR and reflect current design.

- 10.2.4, 10.3.4 Clarifications are made to provide consistency within the FSAR.
- 10.3.6, 10.4.1,  
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10.4.4, 10.4.5 Clarifications are made to provide consistency within the FSAR.
- 10.4.6, 10.4.7 Clarifications and revisions are made to provide consistency within the FSAR and reflect current design.
- 10.4.8 Clarifications are made to provide consistency within the FSAR.
- 10.4.9 Clarifications and revisions are made to provide consistency within the FSAR and reflect current design.
- 10.4.9A Clarifications and revisions are made to provide consistency within the FSAR and reflect current procedures.
- 10.4.9B Clarifications are made to provide consistency within the FSAR.
- 11.3.2 Clarifications and revisions are made to provide consistency within the FSAR and reflect current data.
- 11.3.3 Revisions are made to reflect current design.
- 11.4.1 Revisions are made to reflect current procedures.
- 11.4.2 Clarifications and revisions are made to provide consistency within the FSAR and reflect current design and procedures.
- 11.5.2 Revisions are made to reflect current design.
- 12.3.4 Clarifications and revisions are made to provide consistency within the FSAR and reflect current design.
- 13.2.1, 14.2.12 Clarifications and revisions are made to provide consistency within the FSAR and reflect current design and procedures.
- 14.2.3 Clarifications are made to provide consistency within the FSAR.
- 15.0.8 Revisions are made to reflect current design.
- 15.1.5 Clarifications are provided to provide consistency within the FSAR.



- 15.4.6 Clarifications are made to provide consistency within the FSAR and with the Standard Review Plan.
- 17.2.1 Revisions are made to reflect Corporate Organizational changes and current procedures.
- 17.2.16 Revisions are made to reflect current Organizational changes.

CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
DOCKET NO. 50-400  
FINAL SAFETY ANALYSIS REPORT - AMENDMENT NO. 26  
INSTRUCTION SHEET

---

This amendment contains additional or revised technical information and editorial changes in the form of replacement pages for the SHNPP FSAR. Each revised page bears the notation "Amendment No. 26" at the page bottom. Vertical bars with the number "26" beside them have been placed in the margins of revised pages to indicate the location of technical revisions on the page.

Since many SHNPP FSAR pages are printed double-sided, the replacement pages in this amendment may consist of original information on one side of the page and revised information on the other side. Reference to the amendment identification number in the lower right corner of the page will enable the user to determine the amendment status of the page (whether it is original or revised material). Unchanged material located on the reverse side of a revised page will not contain an amendment identification number or amendment bars.

The following page removals and insertions should be made to incorporate Amendment No. 26 into the FSAR:

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