

50-400-403

FILE NUMBER

## NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO: Mr B C Rusche		FROM: Carolina Pwr & Light Co Raleigh, NC M A McDuffie		DATE OF DOCUMENT 2-18-77
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<input checked="" type="checkbox"/> LETTER	<input checked="" type="checkbox"/> NOTORIZED	PROP	INPUT FORM	NUMBER OF COPIES RECEIVED
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## DESCRIPTION

Ltr notarized 2-18-77....w/attach certificate  
of service....trans the following:

3p

PLANT NAME: Shaaron Harris 1-4

## ENCLOSURE

Amdt #51 to the PSAR: Consisting of revised  
& addl pgs, tables, figs & info to the PSAR  
.....w/instructions for incorporation....

(60 cys encl rec'd)

1 1/2 inch

**DO NOT REMOVE  
ACKNOWLEDGED**

Revised 3/1/77 ejn

SAFETY		FOR ACTION/INFORMATION		ENVIRO	2-23-77	ehf
ASSIGNED AD:	Vassallo (Ltr)	ASSIGNED AD:				
BRANCH CHIEF:	Parr	BRANCH CHIEF:				
PROJECT MANAGER:	Miner	PROJECT MANAGER:	Echols			
LIC. ASST.:	Rushbrook	LIC. ASST.:				

## INTERNAL DISTRIBUTION

INTERNAL DISTRIBUTION	
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NRC PDR	HEINEMAN
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GOSSICK & STAFF	ENGINEERING
MIPC	MACARRY
CASE Ltr	BOSNAK
HANAUER	SIHWEIL
HARLESS	PAWLICKI
PROJECT MANAGEMENT	REACTOR SAFETY
BOYD	ROSS Ltr
P. COLLINS	NOVAK
HOUSTON	ROSZTOCZY
PETERSON	CHECK
MELTZ	
HELTEMES	AT & I
SKOVHOLT	SALTZMAN
	RUTBERG

## EXTERNAL DISTRIBUTION

LPDR: Raleigh, NC	NAT. LAB:	BROOKHAVEN NAT. LAB.
TIC:	REG V. IE	ULRIKSON (ORNL)
NSIC:	LA PDR	
ASLB:	CONSULTANTS:	
ACRS / 6 CYS HOLDING/SENT	AS CAT B	

## CONTROL NUMBER

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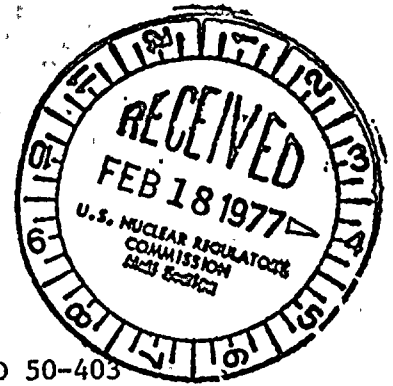
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CP&L

Carolina Power & Light Company  
February 18, 1977

*Regulatory Docket File*

Mr. Benard C. Rusche, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555



RE: DOCKET NOS. 50-400, 50-401, 50-402, AND 50-403  
AMENDMENT NO. 51

Dear Mr. Rusche:

The Company herewith transmits three (3) originals and sixty (60) copies of Amendment No. 51 to its License Application for the proposed Shearon Harris Nuclear Power Plant Units 1, 2, 3, and 4. This Amendment is submitted to incorporate new or revised technical information. The responses and revisions are submitted in the form of revised pages to the PSAR. Instructions for entering the revised pages in the PSAR are included in this Amendment. Each page which has been revised bears the amendment number and vertical bars in the margin to indicate the locations of the revision.

Copies of this Amendment have been served on Mr. Vassar P. Shearon, Chairman, Board of County Commissioners of Wake County, North Carolina, and Mr. Ben Wimberly, Chairman, Board of County Commissioners of Chatham County, North Carolina, and parties to the proceeding. The original and thirty (30) copies of the Certificate of Service are enclosed.

As required by Commission Regulations, this Amendment is signed under oath by a duly authorized officer of the Company.

Yours very truly,

*M A McDuffie*

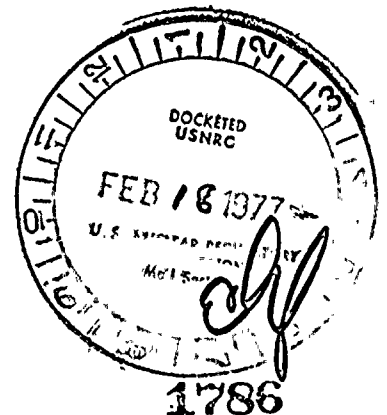
M. A. McDuffie  
Senior Vice President  
Engineering & Construction

MAM/mjc  
Enclosures

ATTEST:

*Robert M. Williams*

Robert M. Williams  
Assistant Secretary

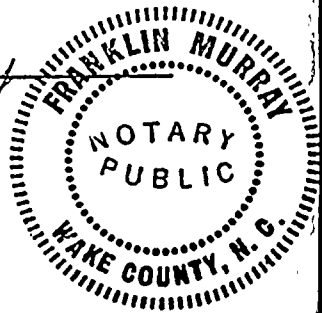


Sworn to and subscribed before me this 18th day of February, 1977.

*Franklin Murray*  
Notary Public

My Commission Expires October 4, 1981

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





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UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

In the Matter of	)	
	)	
CAROLINA POWER & LIGHT COMPANY	)	Docket Nos. 50-400
	)	50-401
(Shearon Harris Nuclear Power Plant	)	50-402
	)	50-403
Units 1, 2, 3, and 4)	)	

CERTIFICATE OF SERVICE

This is to certify that a copy of Amendment No. 51 to the License Application of Carolina Power & Light Company for construction permits for its Shearon Harris Nuclear Power Plant Units 1, 2, 3, and 4 has this 18th day of February, 1977, been served upon the Chief Executive Officers of Wake and Chatham Counties, North Carolina, by deposit of the same in the United States mail addressed as follows:

Mr. Vassar P. Shearon, Chairman  
Board of County Commissioners of Wake County  
Post Office Box 550  
Raleigh, North Carolina 27602

Mr. Ben Wimberly, Chairman  
Board of County Commissioners of Chatham County  
Post Office Box 111  
Pittsboro, North Carolina 27312

A copy of Amendment No. 51 has also been served this day upon each member of the Atomic Safety and Licensing Board, other appropriate NRC personnel, and additional parties to the proceeding by deposit of the same in the United States mail addressed as follows:

Ivan W. Smith, Esq.  
Atomic Safety and Licensing Board Panel  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. Glenn O. Bright  
Atomic Safety and Licensing Board Panel  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dr. J. V. Leeds, Jr.  
10807 Atwell  
Houston, Texas 77096

Mr. Nathaniel H. Goodrich, Chairman  
Atomic Safety and Licensing Board Panel  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Secretary  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555  
Attention: Chief, Public Proceeding Staff

Mr. Thomas S. Erwin  
Post Office Box 928  
115 West Morgan Street  
Raleigh, North Carolina 27602

Mr. C. A. Barth  
Regulatory Staff Counsel  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Jesse C. Brake, Esq.  
Department of Justice  
Post Office Box 629  
Raleigh, North Carolina 27602

Office of Intergovernmental Relations  
116 West Jones Street  
Raleigh, North Carolina 27603

Mr. Dave Hopkins  
Environmental Protection Agency  
1421 Peachtree Street, N.E.  
Atlanta, Georgia 30309

  
Richard E. Jones

Associate General Counsel  
Carolina Power & Light Company

Business Address: 336 Fayetteville Street  
Raleigh, N. C. 27602

Business Telephone: Area Code 919  
836-6517

Dated: February 18, 1977

Revised 3/1/77 J.D.

CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT - UNITS 1, 2, 3, AND 4  
DOCKET NOS. 50-400, 50-401, 50-402 AND 50-403

AMENDMENT NO. 51  
INSTRUCTION SHEET

This amendment contains additional or revised information. The revisions are submitted in the form of revised pages. Each revised page bears the notation "Amendment No. 51" at the bottom of the page. Vertical bars with the number "51", representing Amendment No. 51, have been used in the margins of the revised pages to indicate the location of the revision on the page. Remove old page vi of AMENDMENTS TABLE OF CONTENTS and insert new page vi of AMENDMENTS TABLE OF CONTENTS in the AMENDMENTS TABLE OF CONTENTS. Insert pages XXVII, XXVIII, XXIX, XXX following page XXVI of the Composite Response Location Listing. Insert TAB 51 followed by the Amendment 51 Certification Sheet, Instruction Sheets, Mr. O.D. Parr's letter of December 27, 1976, Mr. O.D. Parr's letter of January 14, 1977 and Mr. O.D. Parr's letter of January 26, 1977.

The following page removals and insertions should be made to incorporate Amendment No. 51 into the PSAR.

REMOVE  
(EXISTING PAGES)

Chapter 1

1.4-2 ✓  
1.4-3 ✓  
1.4-3a ✓  
1.4-3b ✓  
1.4-4 ✓  
1.4-4a ✓  
1.4-4b ✓  
- ✓  
- ✓  
1.4-34 ✓  
1.8-1 ✓  
1.8-1c ✓  
1.8-1c-1 ✓  
1.8-1i ✓  
1.8-1j ✓  
1.8-1L ✓  
1.8-1m ✓  
1.8-1n ✓  
1.8-3 ✓  
1.8-4 ✓  
1.8-4a ✓  
1.8-21 ✓  
1.8-23d ✓

INSERT  
(AMENDMENT NO. 51 PAGES)

Chapter 1

1.4-2 ✓  
1.4-3 ✓  
1.4-3a ✓  
1.4-3b ✓  
1.4-4 ✓  
1.4-4a ✓  
1.4-4b ✓  
1.4-4c ✓  
1.4-4d ✓  
1.4-34 ✓  
1.8-1 ✓  
1.8-1c ✓  
1.8-1c-1 ✓  
1.8-1i ✓  
1.8-1j ✓  
1.8-1L ✓  
1.8-1m ✓  
1.8-1n ✓  
1.8-3 ✓  
1.8-4 ✓  
1.8-4a ✓  
1.8-21 ✓  
1.8-23a ✓

[The body of the document contains several paragraphs of text that are extremely faint and illegible due to the quality of the scan. The text appears to be organized into multiple sections, possibly separated by headings or subheadings, but the specific content cannot be discerned.]



REMOVE  
(EXISTING PAGES)

Chapter 1 (cont'd)

~~1.8-23k~~

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~~1.8-36~~

~~1.8-42~~

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Figure 1.8-1

Appendix 1A

1A-2

Appendix 1B

1B-1

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1B-2

1B-3

1B-4

1B-5

1B-6

1B-7

1B-8

1B-9

1B-10

1B-10a

1B-10b

1B-11

1B-12

1B-13

1B-13a

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1B-14

1B-15

1B-15a

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1B-26

1B-27

1B-28

1B-28a

1B-29

1B-30b

1B-51

INSERT  
(AMENDMENT NO. 51 PAGES)

Chapter 1 (cont'd)

~~1.8-23k~~

~~1.8-23L~~

~~1.8-36~~

1.8-42

Figure 1.4-3

Figure 1.8-1

Appendix 1A

1A-2

Appendix 1B

1B-1

1B-1a

1B-2

1B-3

1B-4

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1B-11

1B-12

1B-13

1B-13a

1B-13b

1B-14

1B-15

1B-15a

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1B-15d

1B-26

1B-27

1B-28

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1B-29

1B-30b

1B-51

REMOVE  
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Chapter 2

2.2-3b

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2.3-3aa

2.6-25a

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Figure 2.2-9

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Appendix 3A

3A-4

Appendix 3B

3B-1

-  
-  
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3B-21

Chapter 5

5.1-1

5.1-5

5.1-6

5.1-16

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5.1-19a

5.1-19b

INSERT  
(AMENDMENT NO. 51 PAGES)

Chapter 2

2.2-3b

2.2-3ba

2.2-3bb

2.2-3bc

2.2-3bd

2.2-3be

2.2-3bf

2.2-3bg

2.2-3bh

2.2-3bi

2.2-3bj

2.2-4a

2.2-16

2.2-17

2.2-18

2.3-3aa

2.6-25a

2.6-26

Figure 2.2-9

Figure 2.2-10

Figure 2.2-11

Figure 2.2-12

Figure 2.2-13

Appendix 3A

3A-4

Appendix 3B

3B-1

3B-20a

3B-20b

3B-20c

3B-21

Chapter 5

5.1-1

5.1-5

5.1-6

5.1-16

5.1-16a

5.1-19a

5.1-19b



REMOVE  
(EXISTING PAGES)

Chapter 5 (cont'd)

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5.5-9  
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Chapter 6

6.2-1  
6.2-16  
6.4-2  
-  
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Chapter 7

7.5-12  
-

Chapter 9

9.5-1  
9.5-2  
9.5-3  
9.5-3a  
9.5-4  
9.5-5  
9.5-5a  
9.5-6  
9.5-6a  
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9.5-13  
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INSERT  
(AMENDMENT NO. 51 PAGES)

Chapter 5 (cont'd)

5.1-19c  
5.1-19ca  
5.1-19cb  
5.1-19d  
5.1-36  
5.1-37  
5.1-38  
5.5-9  
5.5-9a  
Figure 5.1-20a  
Figure 5.1-20b  
Figure 5.1-20c  
Figure 5.1-21ap  
Figure 5.1-21aq

Chapter 6

6.2-1  
6.2-16  
6.4-2  
6.4-11  
Figure 6.4-2

Chapter 7

7.5-12  
7.5-12a

Chapter 9

9.5-1  
9.5-2  
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9.5-14

