

Mr. James Scarola, V President  
 Shearon Harris Nuclear Power Plant  
 Carolina Power & Light Company  
 Post Office Box 165, Mail Code: Zone 1  
 New Hill, North Carolina 27562-0165

October 7, 1998

SUBJECT: ISSUANCE OF AMENDMENT NO. 83 TO FACILITY OPERATING LICENSE NO. NPF-63 REGARDING TECHNICAL SPECIFICATION CHANGE TO THE OPERATIONS ORGANIZATION DESCRIPTION - SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1 (TAC NO. M99188)

Dear Mr. Scarola:

The Nuclear Regulatory Commission has issued Amendment No. 83 to Facility Operating License No. NPF-63 for the Shearon Harris Nuclear Power Plant, Unit No. 1, in response to your request dated June 12, 1997, as supplemented by letter dated August 27, 1998. Specifically, this amendment revises Technical Specification (TS) 6.2.2.e by designating an off-shift Operations superintendent with an senior reactor operating (SRO) license as the supervisor of shift work and licensing activities when the Manager - Operations does not hold an SRO license. Previously, TS 6.2.2.e required the Operations Supervisor to hold an SRO license if the Manager - Operations did not hold an SRO license. This amendment also revises other sections of TS 6.0, "Administrative Controls," to reflect recent title changes.

A copy of the related Safety Evaluation is enclosed. Notice of Issuance will be included in the Commission's regular bi-weekly Federal Register notice.

Sincerely,

Original signed by:

Scott C. Flanders, Project Manager  
 Project Directorate II-1  
 Division of Reactor Projects - I/II  
 Office of Nuclear Reactor Regulation

Docket No. 50-400

Enclosures:

1. Amendment No. 83 to NPF-63
2. Safety Evaluation

cc w/enclosures:

See next page

\*See previous concurrence

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Distribution: See next page

OFFICE	PM:PDII	LA:PDII-1	BC:HHFB*	OGC	D:PDII
NAME	SFlanders	EDunnington <i>ED</i>	BGallo	<i>JB</i>	PKuo <i>PKC</i>
DATE	9/16/98	9/10/98	9/9/98	9/3/98	10/16/98
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CP-1

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 Shearon Harris Nuclear Power Plant  
 Carolina Power & Light Company  
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 Original signed by:  
 Scott C. Flanders, Project Manager  
 Project Directorate II-1  
 Division of Reactor Projects - I/II  
 Office of Nuclear Reactor Regulation

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DATE	9/1/98	9/1/98	9/9/98	9/3/98	10/6/98
COPY	Yes/No	Yes/No	Yes/No	Yes/No	

OFFICIAL RECORD



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

October 7, 1998

Mr. James Scarola, Vice President  
Shearon Harris Nuclear Power Plant  
Carolina Power & Light Company  
Post Office Box 165, Mail Code: Zone 1  
New Hill, North Carolina 27562-0165

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Sincerely,

A handwritten signature in black ink, appearing to read "Scott C. Flanders".

Scott C. Flanders, Project Manager  
Project Directorate II-1  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket No. 50-400

Enclosures:

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2. Safety Evaluation

cc w/enclosures:

See next page

AMENDMENT NO. 83 TO FACILITY OPERATING LICENSE NO. NPF-63 - HARRIS, UNIT 1

Docket File

PUBLIC

PDII-1 Reading

J. Zwolinski

OGC

G. Hill (2)

B. Gallo

M. Ashley

ACRS

L. Plisco, RII

cc: Harris Service List

AMENDMENT NO. 83 TO FACILITY OPERATING LICENSE NO. NPF-63 - HARRIS, UNIT 1

[REDACTED]

PUBLIC

PDII-1 Reading

J. Zwolinski

OGC

G. Hill (2)

B. Gallo

M. Ashley

ACRS

L. Plisco, RII

cc: Harris Service List

Mr. James Scarola  
Carolina Power & Light Company

Shearon Harris Nuclear Power Plant  
Unit 1

cc:

Mr. William D. Johnson  
Vice President and Senior Counsel  
Carolina Power & Light Company  
Post Office Box 1551  
Raleigh, North Carolina 27602

Mr. J. W. Donahue  
Director of Site Operations  
Carolina Power & Light Company  
Shearon Harris Nuclear Power Plant  
Post Office Box 165, MC: Zone 1  
New Hill, North Carolina 27562-0165

Resident Inspector/Harris NPS  
c/o U.S. Nuclear Regulatory Commission  
5421 Shearon Harris Road  
New Hill, North Carolina 27562-9998

Mr. Robert P. Gruber  
Executive Director  
Public Staff NCUC  
Post Office Box 29520  
Raleigh, North Carolina 27626

Ms. Karen E. Long  
Assistant Attorney General  
State of North Carolina  
Post Office Box 629  
Raleigh, North Carolina 27602

Chairman of the North Carolina  
Utilities Commission  
Post Office Box 29510  
Raleigh, North Carolina 27626-0510

Public Service Commission  
State of South Carolina  
Post Office Drawer  
Columbia, South Carolina 29211

Chief, Reactor Projects Branch 4  
U.S Nuclear Regulatory Comm.  
Atlanta Federal Center  
61 Forsyth Street, SW, Suite 23185  
Atlanta, Georgia 30303

Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission  
Atlanta Federal Center  
61 Forsyth Street, SW, Suite 23T85  
Atlanta, Georgia 30303

Mr. Stewart Adcock, Chairman  
Board of County Commissioners  
of Wake County  
P. O. Box 550  
Raleigh, North Carolina 27602

Mr. Mel Fry, Director  
Division of Radiation Protection  
N.C. Department of Environment  
and Natural Resources  
3825 Barrett Dr.  
Raleigh, North Carolina 27609-7721

Margaret Bryant Pollard, Chairman  
Board of County Commissioners  
of Chatham County  
P. O. Box 87  
Pittsboro, North Carolina 27312

Ms. D. B. Alexander  
Manager  
Performance Evaluation and  
Regulatory Affairs CPB 9  
Carolina Power & Light Company  
Post Office Box 1551  
Raleigh, North Carolina 27602-1551

Mr. Chris A. VanDenburgh, Manager  
Regulatory Affairs  
Carolina Power & Light Company  
Shearon Harris Nuclear Power Plant  
P.O. Box 165, Mail Zone 1  
New Hill, NC 27562-0165

Mr. Bo Clark  
Plant General Manager - Harris Plant  
Carolina Power & Light Company  
Shearon Harris Nuclear Power Plant  
P.O. Box 165  
New Hill, North Carolina 27562-0165

Mr. Johnny H. Eads, Supervisor  
Licensing/Regulatory Programs  
Carolina Power & Light Company  
Shearon Harris Nuclear Power Plant  
P. O. Box 165, Mail Zone 1  
New Hill, NC 27562-0165



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

CAROLINA POWER & LIGHT COMPANY, et al.

DOCKET NO. 50-400

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 83  
License No. NPF-63

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Carolina Power & Light Company, (the licensee), dated June 12, 1997, as supplemented by letter dated August 27, 1998, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications, as indicated in the attachment to this license amendment; and paragraph 2.C.(2) of Facility Operating License No. NPF-63 is hereby amended to read as follows:

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(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, as revised through Amendment No. 83, are hereby incorporated into this license. Carolina Power & Light Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of the date of its issuance and shall be implemented within 60 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Pao-Tsin Kuo, Acting Director  
Project Directorate II-1  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 7, 1998

ATTACHMENT TO LICENSE AMENDMENT NO. 83

FACILITY OPERATING LICENSE NO. NPF-63

DOCKET NO. 50-400

Replace the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised areas are indicated by marginal lines.

Remove Pages

6-1  
6-1a  
6-5  
6-6  
6-26  
6-27

Insert Pages

6-1  
6-1a  
6-5  
6-6  
6-26  
6-27

## 6.0 ADMINISTRATIVE CONTROLS

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### 6.1 RESPONSIBILITY

6.1.1 The Plant General Manager shall be responsible for overall unit operation and shall delegate in writing the succession to this responsibility during his absence.

6.1.2 The Superintendent-Shift Operations (or, during his absence from the control room, a designated individual) shall be responsible for the control room command function. A management directive to this effect, signed by the Vice President-Harris Nuclear Plant shall be reissued to all station personnel on an annual basis.

### 6.2 ORGANIZATION

#### 6.2.1 Onsite and Offsite Organization

An onsite and an offsite organization shall be established for unit operation and corporate management. The onsite and offsite organization shall include the positions for activities affecting the safety of the nuclear power plant.

- a. Lines of authority, responsibility and communication shall be established and defined from the highest management levels through intermediate levels to and including all operating organization positions. Those relationships shall be documented and updated, as appropriate, in the form of organizational charts. These organizational charts will be documented in the FSAR and updated in accordance with 10 CFR 50.71(e).
- b. There shall be an individual executive position (corporate officer) in the offsite organization having corporate responsibility for overall plant nuclear safety. This individual shall take any measures needed to ensure acceptable performance of the staff in operating, maintaining, and providing technical support in the plant so that continued nuclear safety is assured.
- c. There shall be an individual management position in the onsite organization having responsibility for overall unit safe operation and shall have control over those onsite resources necessary for safe operation and maintenance of the plant.
- d. Although the individuals who train the operating staff and those who carry out the quality assurance functions may report to the appropriate manager onsite, they shall have sufficient organizational freedom to be independent from operating pressures.
- e. Although health physics individuals may report to any appropriate manager onsite, for matters relating to radiological health and safety of employees and the public, the health physics manager shall have direct access to that onsite individual having responsibility for overall unit management. Health physics personnel shall have the authority to cease any work activity when worker safety is jeopardized or in the event of unnecessary personnel radiation exposures.

## ADMINISTRATIVE CONTROLS

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### UNIT STAFF

6.2.2 The unit organization shall be subject to the following:

- a. Each on-duty shift shall be composed of at least the minimum shift crew composition shown in Table 6.2-1;
- b. At least one licensed Operator shall be in the control room when fuel is in the reactor. In addition, while the unit is in MODE 1, 2, 3, or 4, at least one licensed Senior Operator shall be in the control room;
- c. An individual qualified as a Radiation Control Technician\* shall be on site when fuel is in the reactor;
- d. All CORE ALTERATIONS shall be observed and directly supervised by either a licensed Senior Operator or licensed Senior Operator Limited to Fuel Handling who has no other concurrent responsibilities during this operation;
- e. The Manager-Operations shall either hold a Senior Reactor Operator License or have at one time held a Senior Reactor Operator License for a similar unit. If the Manager-Operations does not hold a Senior Reactor Operator License, an off-shift Operations superintendent who reports directly to the Manager-Operations and holds a Senior Reactor Operator License shall be designated to supervise shift work and licensed activities.

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\* The Radiation Control Technician composition may be less than the minimum requirements for a period of time not to exceed 2 hours, in order to accommodate unexpected absence, provided immediate action is taken to fill the required positions.

TABLE 6.2-1

MAXIMUM SHIFT CREW COMPOSITION

POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION	
	MODE 1, 2, 3, or 4	MODE 5 or 6
S-SO	1	1
SRO	1	None
RO	2	1
AO	2	1
STA	1*	None

- S-SO - Superintendent-Shift Operations with a Senior Operator license on Unit 1
- SRO - Individual with a Senior Operator license on Unit 1
- RO - Individual with an Operator license on Unit 1
- AO - Auxiliary Operator - license not required
- STA - Shift Technical Advisor

The shift crew composition may be one less than the minimum requirements of Table 6.2-1 for a period of time not to exceed 2 hours, in order to accommodate unexpected absence of on-duty shift crew members, provided immediate action is taken to restore the shift crew composition to within the minimum requirements of Table 6.2-1. This provision does not permit any shift crew position to be unmanned upon shift change due to an incoming shift crewman being late or absent.

During any absence of the Superintendent-Shift Operations from the control room while the unit is in MODE 1, 2, 3, or 4, an individual (other than the Shift Technical Advisor) with a valid Senior Operator license shall be designated to assume the control room command function. During any absence of the Superintendent-Shift Operations from the control room while the unit is in MODE 5 or 6, an individual with a valid Senior Operator license or Operator license shall be designated to assume the control room command function.

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\* The STA position shall be manned in MODES 1, 2, 3, and 4 unless the Superintendent-Shift Operations or the individual with a Senior Operator license meets the qualifications for the STA as required by the NRC.

## ADMINISTRATIVE CONTROLS

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### 6.2.3 DELETED

### 6.2.4 SHIFT TECHNICAL ADVISOR

6.2.4.1 The Shift Technical Advisor shall provide advisory technical support to the Superintendent-Shift Operations in the areas of thermal hydraulics, reactor engineering, and plant analysis with regard to the safe operation of the unit. The Shift Technical Advisor shall have a baccalaureate degree or equivalent in a scientific or engineering discipline and shall have received specific training in the response and analysis of the unit for transients and accidents, and in unit design and layout, including the capabilities of instrumentation and controls in the control room.

6.3 Deleted

## ADMINISTRATIVE CONTROLS

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### RECORD RETENTION (Continued)

effective at specified times and QA records showing that these procedures were followed;

- o. Records of facility radiation and contamination surveys;
- p. Records of independent reviews; and
- q. Records of reviews performed for changes made to the OFFSITE DOSE CALCULATION MANUAL and the PROCESS CONTROL PROGRAM.

### 6.11 RADIATION PROTECTION PROGRAM

6.11.1 Procedures for personnel radiation protection shall be prepared consistent with the requirements of 10 CFR Part 20 and shall be approved, maintained, and adhered to for all operations involving personnel radiation exposure.

### 6.12 HIGH RADIATION AREA

6.12.1 Pursuant to Paragraph 20.203(c)(5) of 10 CFR Part 20, in lieu of the "control device" or "alarm signal" required by Paragraph 20.203(c), each high radiation area, as defined in 10 CFR Part 20, in which the intensity of radiation is equal to or less than 1000 mR/h at 45 cm (18 in.) from the radiation source or from any surface which the radiation penetrates shall be barricaded and conspicuously posted as a high radiation area and entrance thereto shall be controlled by requiring issuance of a Radiation Work Permit (RWP). Individuals qualified in radiation protection procedures (e.g., Health Physics Technicians) or personnel continuously escorted by such individuals may be exempt from the RWP issuance requirement during the performance of their assigned duties in high radiation areas with exposure rates equal to or less than 1000 mR/h, provided they are otherwise following plant radiation protection procedures for entry into such high radiation areas. Any individual or group of individuals permitted to enter such areas shall be provided with or accompanied by one or more of the following:

- a. A radiation monitoring device that continuously indicates the radiation dose rate in the area; or
- b. A radiation monitoring device that continuously integrates the radiation dose rate in the area and alarms when a preset integrated dose is received. Entry into such areas with this monitoring device may be made after the dose rate levels in the area have been established and personnel have been made knowledgeable of them; or
- c. An individual qualified in radiation protection procedures, with a radiation dose rate monitoring device, who is responsible for providing positive control over the activities within the area and who shall perform periodic radiation surveillance at the frequency specified by the Radiation Control Supervisor in the RWP.

6.12.2 In addition to the requirements of Specification 6.12.1, accessible areas with radiation levels greater than 1000 mR/h at 45 cm (18 in.) from the radiation source or from any surface which the radiation penetrates, shall be provided with locked doors to prevent unauthorized entry, and the keys shall be maintained under the administrative control of the Superintendent-Shift Operations on duty and/or health physics supervision. Doors shall remain

## ADMINISTRATIVE CONTROLS

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### HIGH RADIATION AREA (Continued)

locked except during periods of access by personnel under an approved RWP which shall specify the dose rate levels in the immediate work areas and the maximum allowable stay time for individuals in that area. In lieu of the stay time specification of the RWP, direct or remote (such as closed circuit TV cameras) continuous surveillance may be made by personnel qualified in radiation protection procedures to provide positive exposure control over the activities being performed within the area. During emergency situations that involve personal injury or actions taken to prevent major equipment damage, continuous surveillance and radiation monitoring of the work area by a qualified individual may be substituted for the routine RWP procedure.

For accessible individual high radiation areas, with radiation levels of greater than 1000 mR/h, that are located within large areas, such as PWR containment, where no enclosure exists for purposes of locking and where no enclosure can be reasonably constructed around the individual area, that individual area shall be barricaded and conspicuously posted, and a flashing light shall be activated as a warning device.

### 6.13 PROCESS CONTROL PROGRAM (PCP)

Changes to the PCP:

- a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.10.3p. This documentation shall contain:
  - 1) Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s) and
  - 2) A determination that the change will maintain the overall conformance of the solidified waste product to existing requirements of Federal, State, or other applicable regulations.
- b. Shall become effective after review and acceptance by the PNSC and the approval of the Plant General Manager.

### 6.14 OFFSITE DOSE CALCULATION MANUAL (ODCM)

Changes to the ODCM:

- a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.10.3p. This documentation shall contain:
  - 1) Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s) and



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

CAROLINA POWER & LIGHT COMPANY

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1

DOCKET NO. 50-400

1.0 INTRODUCTION

By letter dated June 12, 1997, as supplemented by letter dated August 27, 1998, Carolina Power and Light Company (CP&L, the licensee) submitted to the NRC a proposed revision to the Harris Nuclear Plant (HNP) Technical Specification (TS) 6.0, "Administrative Controls." Specifically, this amendment revises TS 6.2.2.e by designating an off-shift Operations superintendent with a senior reactor operating (SRO) license as the supervisor of shift work and licensing activities when the Manager - Operations does not hold an SRO license. Previously, TS 6.2.2.e required the Operations Supervisor to hold an SRO license if the Manager - Operations did not hold an SRO license. This amendment also revises other sections of TS 6.0, "Administrative Controls," to reflect recent title changes. The August 27, 1998, supplemental letter provided clarifying information only, and did not change the initial no significant hazards consideration determination.

2.0 EVALUATION

The staff evaluated the licensee's submittal of June 12, 1997, as supplemented by letter dated August 27, 1998, against the relevant criteria in NUREG-0800, "Standard Review Plan" Section 13.1.1, "Management and Technical Support Organization," and Section 13.1.2-13.1.3, "Operating Organization," and the applicable American National Standards Institute (ANSI)/ANS standards.

The licensee proposed to revise their commitment to the ANSI requirements contained in TS 6.4 and section 1.8 of the Final Safety Analysis Report (FSAR) by revising its exception for the position of Manager - Operations. CP&L's commitment to ANSI 3.1 (September 1979 draft) requires the Operations Manager (fulfilled by the position of Manager - Operations at HNP) to hold an SRO license at the time of appointment to the active position. Amendment 9 to the HNP operating license, dated March 2, 1989, granted an exception for the position of Manager - Operations. The exception allows the Manager - Operations to either (1) hold an SRO license or (2) have held an SRO license provided the Operations Supervisor (an Operations middle manager) holds an SRO license. As result of organizational changes, the Operations Supervisor position no longer exists. Therefore, CP&L proposes to revise its exception to better reflect the HNP's Operations organizational structure. The revised exception would allow the Manager - Operations, in lieu of meeting the ANSI 3.1 (September 1979 draft) requirement of holding an SRO license, to (1) hold an SRO license at the time of appointment, or (2) have held an SRO license provided an off-shift Operations superintendent who reports directly to the Manager - Operations holds an SRO license. The off-shift Operations superintendent would then supervise shift work and licensed activities. This approach is supported by ANSI/ANS

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3.1-1987 and 3.1-1993, "American National Standard for Selection, Qualification, and Training of Personnel for Nuclear Power Plants," which allow individuals to be appointed to the position of Operations Manager based on the options proposed by HNP.

The licensee proposed change to TS 6.2.2.e ensures that the position responsible for supervising shift work and licensed activities is in the direct chain-of-command of the Operations organization. The licensee has described the position as off-shift and requiring an SRO license. The Operations superintendent reports directly to the Manager - Operations and will have the on-shift supervisors as direct reports.

10 CFR Part 50.54(l) requires that the individuals designated by a licensee to direct the licensed activities of licensed operators shall be licensed as a senior operator. Based on a review of the licensee's submittal, the proposed change continues to meet this requirement by ensuring the Operations management personnel directing the activities of licensed operators maintain the appropriate qualification.

The staff concludes that specification 6.2.2.e, requiring that either the Manager - Operations or an off-shift Operations superintendent hold an SRO license is consistent with the requirements of 10 CFR 50.54(l) and ensures that a licensed off-shift senior operator will direct the licensed activities of the licensed operators. Further, the requirement that an Operations Middle Manager (Operations superintendent) hold an SRO license when the Manager - Operations does not hold an SRO license is consistent with the requirements of ANSI 3.1- (September 1979 draft) and ensures there is site-specific detailed relevant technical and systems knowledge in a senior operations management position.

The licensee's submittal also proposed to revise TS section 6.0 to reflect title changes. Specifically, CP&L proposed to change (1) the title "Shift Foreman" to "shift-superintendent operations (S-SO)," and (2) the title "Vice President - Harris Nuclear Project" to "Vice President - Harris Nuclear Plant." These changes are administrative, in that the positions maintain the same responsibilities.

The staff concludes that the proposed modifications to the HNP Technical Specifications described above are consistent with and meet the intent of the relevant review criteria and are, therefore, acceptable.

### **3.0 STATE CONSULTATION**

In accordance with the Commission's regulations, the State of North Carolina official was notified of the proposed issuance of the amendment. The State official had no comments.

### **4.0 ENVIRONMENTAL CONSIDERATION**

This amendment relates to changes in recordkeeping, reporting, or administrative procedures or requirements. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

## 5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: S. Flanders

Date: October 7, 1998