

July 23, 2007

Robert J. Duncan II, 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

SUBJECT: SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1 - ISSUANCE OF
AMENDMENT ON REVISION TO TECHNICAL SPECIFICATION 6.12, HIGH
RADIATION AREA (TAC NO. MD3895)

Dear Mr. Duncan:

The Nuclear Regulatory Commission has issued Amendment No.125 to Facility Operating License No. NPF-63 for the Shearon Harris Nuclear Power Plant, Unit 1 (HNP). This amendment changes the technical specifications in response to your application dated December 20, 2006.

The amendment changes the administrative controls associated with worker access to high and very high radiation areas to be consistent with Section 20 of Title 10 to the *Code of Federal Regulations* and Regulatory Guide 8.38, Revision 1. The changes include differentiating dose rates associated with high and very high radiation areas, adding requirements for groups entering high radiation areas, and clarifying the communication requirements for workers in high radiation areas.

A copy of the related safety evaluation is enclosed. Notice of Issuance will be included in the Commission's regular biweekly *Federal Register* notice.

Sincerely,

/RA/

Lisa M. Regner, Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-400

Enclosures:

1. Amendment No.125 to NPF-63
2. Safety Evaluation

cc w/enclosures: See next page

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CAROLINA POWER & LIGHT COMPANY, et al.

DOCKET NO. 50-400

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 125
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 December 20, 2006, 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 Title 10 of the *Code of Federal Regulations* (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:
 - (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.125, 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

/RA Brenda Mozafari for Thomas Boyce/

Thomas H. Boyce, Chief
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Attachment:
Changes to Facility Operating
License No. NPF-63 and the
Technical Specifications

Date of Issuance: July 23, 2007

ATTACHMENT TO LICENSE AMENDMENT NO. 125

FACILITY OPERATING LICENSE NO. NPF-63

DOCKET NO. 50-400

Replace page 4 of Operating License No. NPF-63 with the attached page 4.

Replace the following pages of the Appendix A Technical Specifications with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove Pages

6-26

6-27

Insert Pages

6-26

6-26a

6-26b

6-27

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO.125 TO FACILITY OPERATING LICENSE NO. NPF-63
CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1
DOCKET NO. 50-400

1.0 INTRODUCTION

By application dated December 20, 2006, Carolina Power and Light Company (the licensee) requested a change to the technical specifications (TSs) for the Harris Nuclear Power Plant (HNP), Unit 1. The requested change would revise the administrative controls of TS 6.12, "High Radiation Area."

2.0 REGULATORY EVALUATION

Section 20.1601 of Title 10 to the *Code of Federal Regulations* (10 CFR) contains requirements for controlling access to high radiation areas. Paragraph (c) of 10 CFR 20.1601 allows licensees to apply for alternative methods for controlling access to high radiation areas. Guidance for acceptable alternate controls has been published in Regulatory Guide (RG) 8.38 (Revision 1), "Control of Access to High and Very High Radiation Areas in Nuclear Power Plants," and in NUREG-1431 (Revision 2), "Standard Technical Specifications, Westinghouse Plants." The licensee proposed to adopt the wording of the Standard Technical Specifications with some deviations that the Nuclear Regulatory Commission (NRC) staff found to be consistent with the guidance in RG 8.38 and, therefore, acceptable. These deviations are discussed in the technical evaluation below.

3.0 TECHNICAL EVALUATION

The licensee's amendment request proposed to adopt wording for TS 6.12, "High Radiation Area," which is consistent with NUREG-1431. The proposed change included capping the dose rates to differentiate a high radiation area from a very high radiation area, adding requirements for groups entering high radiation areas, and clarifying the requirements for communication with, and control of, workers in high radiation areas.

The only deviation from the intent of NUREG-1431 pertained to the requirements for individuals entering high radiation areas. Specifically, the existing sub-paragraphs d.4 of the Standard Technical Specifications 5.7.1 and 5.7.2 requires these individuals to possess self-reading dosimetry and to be under surveillance by a qualified radiation protection individual who is equipped with a radiation monitoring and indicating device. The revision lists an option of workers entering a high radiation area without a self-reading dosimeter, but under the surveillance of a radiation protection-qualified individual. This option is specified separately under TS 6.12.1.d and TS 6.12.2.d and is in accordance with guidance specified in RG 8.38. Several editorial changes were also made to revise the numbering of the control options and to improve the clarity of the requirements.

The NRC staff reviewed the proposed deviations and found that they are consistent with the guidance provided in RG 8.38, Section C, Regulatory Position 2.4; therefore, the NRC staff concludes that these proposed changes are acceptable.

Several additional editorial changes were proposed to match the terminology used at HNP. The NRC staff concludes that the modifications do not change the intent or understanding of TS 6.12 for high radiation areas and are therefore acceptable.

The alternate controls discussed above relate to the protection of plant personnel from radiation hazards during normal plant operations. As such, the proposed change has no impact on the protection of the public from the consequences of any design-basis accident or transient.

The NRC published 10 CFR 20.1601(c) to provide licensees a means for implementing alternative methods for controlling access to high radiation areas. Additionally, the NRC published the guidance contained in RG 8.38 to describe methods acceptable to the NRC staff for meeting the regulations. The licensee's submittal conformed to RG 8.38; therefore, the NRC staff finds the proposed changes acceptable.

4.0 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.

5.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (72 FR 8802).

Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

6.0 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 amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: Katherine Streit

Date: July 23, 2007.

Mr. R. J. Duncan II
Carolina Power & Light Company

**Shearon Harris Nuclear Power Plant,
Unit 1**

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