

November 10, 1992

Docket No. 50-400

Mr. R. A. Watson  
Senior Vice President  
Nuclear Generation  
Carolina Power & Light Company  
Post Office Box 1551  
Raleigh, North Carolina 27602

Dear Mr. Watson:

SUBJECT: ISSUANCE OF AMENDMENT NO. 33 TO FACILITY OPERATING LICENSE NO. NPF-63 REGARDING HIGH HEAD SAFETY INJECTION TECHNICAL SPECIFICATION FLOW REQUIREMENT CHANGE - SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1 (TAC NO. M84499)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 33 to Facility Operating License No. NPF-63 for the Shearon Harris Nuclear Power Plant, Unit 1. This amendment consists of changes to the Technical Specifications (TS) in response to your request dated September 8, 1992.

The amendment changes the sum of the minimum surveillance flow requirement, with a single Charging/Safety Injection pump running for the high head safety injection system, as described in TS Surveillance Requirement 4.5.2.h.1.a from "greater than or equal to 379 gpm" to "greater than or equal to 348 gpm."

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:

Ngoc B. Le, Project Manager  
Project Directorate II-1  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 33 to NPF-63
2. Safety Evaluation

cc w/enclosures:  
See next page

OFC	LA:PD21:DRPE	PM:PD21:DRPE	D:SP21:DRPE	OGC:W/Amendment	
NAME	Henry for PAnders	NBLe:tms	For EAdensam	W/Amendment	
DATE	10/23/92	10/23/92	11/10/92	11/4/92	

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Mr. R. A. Watson  
Carolina Power & Light Company

Shearon Harris Nuclear Power Plant,  
Unit 1

cc:

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Manager - Legal Department  
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Public Service Commission  
State of South Carolina  
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Columbia, South Carolina 29211

AMENDMENT NO. 33 TO FACILITY OPERATING LICENSE NO. NPF-63 - HARRIS, UNIT 1

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cc: Harris Service List



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

CAROLINA POWER & LIGHT COMPANY, et al.

DOCKET NO. 50-400

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 33  
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 September 8, 1992, 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:

(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. 33, 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

*Stephen J. Hoffman*  
*for*

Elinor G. Adensam, 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: November 10, 1992

ATTACHMENT TO LICENSE AMENDMENT NO. 33

FACILITY OPERATING LICENSE NO. NPF-63

DOCKET NO. 50-400

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

Remove Page

3/4 5-6

Insert Page

3/4 5-6

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

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<u>EBASCO Valve No.</u>	<u>CP&amp;L Valve No.</u>
2SI-V440SA-1	1SI-5
2SI-V439SB-1	1SI-6
2SI-V438SA-1	1SI-7
2SI-V437SA-1	1SI-69
2SI-V436SB-1	1SI-70
2SI-V435SA-1	1SI-71
2SI-V434SA-1	1SI-101
2SI-V433SB-1	1SI-102
2SI-V432SA-1	1SI-103
2SI-V431SA-1	1SI-124
2SI-V430SB-1	1SI-125
2SI-V429SA-1	1SI-126

- h. By performing a flow balance test, during shutdown, following completion of modifications to the ECCS subsystems that alter the subsystem flow characteristics and verifying that:
1. For Charging/safety injection pump lines, with a single pump running:
    - a) The sum of the injection line flow rates, excluding the highest flow rate, is greater than or equal to 348 gpm, and
    - b) The total pump flow rate is less than or equal to 685 gpm.
  2. For RHR pump lines, with a single pump running, the sum of the injection line flow rates is greater than or equal to 3663 gpm.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 33 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 letter dated September 8, 1992, the Carolina Power & Light Company (the licensee) submitted a request for changes to the Shearon Harris Nuclear Power Plant (SHNPP), Unit 1, Technical Specifications (TS). The requested change would decrease the sum of the minimum surveillance flow requirement, with a single Charging/Safety Injection pump running for the high head safety injection system (HHSI), as described in TS Surveillance Requirement 4.5.2.h.1.a from "greater than or equal to 379 gpm" to "greater than or equal to 348 gpm."

2.0 EVALUATION

The licensee's submittal provided an assessment of the impact of this change on licensing basis events. In its assessment, the licensee identified that the most limiting event in determining the HHSI minimum flow surveillance requirement is a small break loss-of-coolant accident (SBLOCA). To justify the proposed value (348 gpm), the licensee stated that this value is consistent with the HHSI injection flow input to the current SHNPP small break analyses, and therefore, would not impact SBLOCA calculated results, and that for all other events, LOCA and non-LOCA, the change has no impact. In addition, the licensee also stated that the proposed change is accommodated by the current ECCS-LOCA analysis without altering its analyzed consequences, i.e., there are no changes in the limiting case LOCA consequences for minimum HHSI flow and the existing margins to the 10 CFR 50.46 acceptance limits for the core cooling are preserved.

The staff has reviewed the licensee's analysis and finds the results acceptable. Therefore, the proposed change is 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

The amendment changes surveillance requirements. 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 (57 FR 45078). 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.

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

Principal Contributor: F. Orr

Date: November 10, 1992