

August 23, 1988

Docket No. 50-400

DISTRIBUTION
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Mr. E. E. Utley
Senior Executive Vice President
Power Supply and Engineering & Construction
Carolina Power & Light Company
Post Office Box 1551
Raleigh, North Carolina 27602

Dear Mr. Utley:

SUBJECT: ISSUANCE OF AMENDMENT NO. 8 TO FACILITY OPERATING LICENSE
NO. NPF-63 - SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1,
REGARDING CHLORINE DETECTION SYSTEMS (TAC NO. 68105)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 8 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 in response to your request dated May 10, 1988.

The amendment revises the operability requirements of Technical Specification 3.3.3.7, Chlorine Detection Systems. The current specification requires two independent chlorine detector trains to be operable in all modes with each train consisting of a detector at each control room ventilation system intake and two detectors at the chlorine storage area. The change requires the detectors at the chlorine storage area to be operable only when there is liquified chlorine in amounts in excess of 20 pounds stored at the chlorine storage area.

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

Sincerely,

Bart C. Buckley, Senior Project Manager
Project Directorate II-1
Division of Reactor Projects I/II

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Enclosures:

1. Amendment No. 8 to NPF-63
2. Safety Evaluation

cc w/enclosures:
See next page

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OFC	: LA: PD21: DRPR: PM: PD21: DRPR: D: PD21: DRPR :	:	:	:
NAME	: PAnderson : BBuckley:ch: EAdensam :	:	:	:
DATE	: 8/9/88 : 8/13/88 : 8/10/88 :	:	:	:

AMENDMENT NO. 8 TO FACILITY OPERATING LICENSE NO. NPF-63 - HARRIS, UNIT 1

Docket File

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cc: Licensee/Applicant Service List

QF01
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Mr. E. E. Utley
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Shearon Harris

cc:

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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. 8
License No. NPF-63

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Carolina Power & Light Company, et al. (the licensee), dated May 10, 1988, 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. 8, 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.

FOR THE NUCLEAR REGULATORY COMMISSION

Elinor G. Adensam, Director
Project Directorate II-1
Division of Reactor Projects I/II

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 23, 1988

OFC	: LA: PD21: DRPR: PM: PD21: DRPR: PNPB: DR18	: OGC	: D: PD21: DRPR	:		
NAME	: PAnderson	: BBuckley: ch: LCunningham:	: EAdensam	:		
DATE	: 08/9/88	: 08/9/88	: 08/9/88	: 08/16/88	: 08/23/88	:

ATTACHMENT TO LICENSE AMENDMENT NO. 8

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 area is indicated by a marginal line.

Remove Pages

3/4 3-72

Insert Pages

3/4 3-72

INSTRUMENTATION

CHLORINE DETECTION SYSTEMS

LIMITING CONDITION FOR OPERATION

3.3.3.7 Two independent Chlorine Detector Trains, with their Trip Setpoints adjusted to actuate at a chlorine concentration of less than or equal to five ppm, shall be OPERABLE. Each train shall consist of: a detector at each Control Room Ventilation System intake (both normal and emergency); and a detector at the chlorine storage area whenever liquid chlorine is present at the storage area in quantities greater than 20 lbs.

APPLICABILITY: All MODES.

ACTION:

- a. With one Chlorine Detector Train inoperable, restore the inoperable system to OPERABLE status within 7 days or within the next 6 hours initiate and maintain operation of the Control Room Area Ventilation System in the recirculation mode of operation.
- b. With both Chlorine Detector Trains inoperable, within 1 hour initiate and maintain operation of the Control Room Area Ventilation System in the recirculation mode of operation.
- c. The provisions of Specification 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.3.7 Each Chlorine Detector Train shall be demonstrated OPERABLE by performance of a CHANNEL CHECK at least once per 12 hours, an ANALOG CHANNEL OPERATIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION at least once per 18 months.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 8 TO FACILITY OPERATING LICENSE NO. NPF-63

CAROLINA POWER & LIGHT COMPANY, et al.

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1

DOCKET NO. 50-400

1.0 INTRODUCTION

By letter dated May 10, 1988, the Carolina Power & Light Company (CP&L or the licensee) submitted a request for changes to the Shearon Harris Nuclear Power Plant, Unit 1, (SHNPP) Technical Specifications. This amendment revises the operability requirements of Technical Specification 3.3.3.7, Chlorine Detection Systems. The current specification requires two independent chlorine detector trains be operable in all modes with each train consisting of a detector at each control room area ventilation system intake (both normal and emergency) and a detector at the chlorine storage area. The proposed change will require the detectors at the chlorine storage area to be operable only when there is liquified chlorine in amounts in excess of 20 pounds stored at the chlorine storage area. The operability requirements for the chlorine detectors located in the control room intakes are not affected by the proposed amendment.

2.0 EVALUATION

Previously, it was anticipated that liquified chlorine far in excess of 20 pounds would be stored at the chlorine storage area. Therefore, in accordance with Regulatory Guide 1.95, chlorine detectors were required to be installed to isolate the control room in the event of an accidental release from the chlorine storage area. This protective function is unaffected by this proposed change. The chlorine detectors will continue to be required to be operable whenever liquified chlorine is stored in quantities greater than 20 pounds at the chlorine storage area. The proposed amendment would not require the subject chlorine detectors to be operable whenever liquified chlorine in the amount of 20 pounds or less is stored at the chlorine storage area. The effect of the accidental release of 20 pounds or less of chlorine from the chlorine storage is comparable to a release of the same amount of chlorine that may be stored at the plant site without any chlorine detectors. Moreover, Regulatory Guide 1.95 does not require chlorine detectors in those circumstances where liquified chlorine in amounts not to exceed 20 pounds are located at the plant. The capability to isolate the control room automatically is maintained should liquified chlorine in excess of 20 pounds be stored at the chlorine storage area. Thus, the amendment would retain the original safety intent and function of the detectors.

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3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The 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 the individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration, and there has been no public comment on such finding. Accordingly, this 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 this amendment.

4.0 CONCLUSION

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register (53 FR 23324) on June 21, 1988, and consulted with the State of North Carolina. No public comments or request for hearing were received, and the State of North Carolina did not have any comments.

The staff 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, and (2) such activities will be conducted in compliance with the Commission's regulation and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: Bart C. Buckley

Dated: August 23, 1988