



**Carolina Power & Light Company**  
Harris Nuclear Plant  
PO Box 165  
New Hill NC 27562

**APR 10 2001**

SERIAL: HNP-01-058

United States Nuclear Regulatory Commission  
ATTENTION: Document Control Desk  
Washington, DC 20555

**SHEARON HARRIS NUCLEAR POWER PLANT  
DOCKET NO. 50-400/LICENSE NO. NPF-63  
ANNUAL ENVIRONMENTAL (NON-RADIOLOGICAL) OPERATING REPORT**

Dear Sir or Madam:

In accordance with Section 5.4.1 of the Environmental Protection Plan issued as Appendix B to the Operating License (NPF-63) for the Harris Nuclear Plant, Carolina Power & Light Company provides the enclosed Annual Environmental (Non-Radiological) Operating Report for 2000.

Questions regarding this information may be referred to Mr. E. A. McCartney at (919) 362-2661.

Sincerely,

R. J. Field  
Manager, Regulatory Affairs  
Harris Nuclear Plant

MGW

Enclosure

c: Mr. J. B. Brady (NRC Senior Resident Inspector, HNP)  
Mr. Rich Laufer (NRR Project Manager, HNP)  
Mr. L. A. Reyes (NRC Regional Administrator, Region II)

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**SHEARON HARRIS NUCLEAR POWER PLANT**

**UNIT 1**

**ANNUAL ENVIRONMENTAL  
(NONRADIOLOGICAL)  
OPERATING REPORT**

**APPENDIX B**

for

January 1- December 31, 2000

**CAROLINA POWER & LIGHT COMPANY**

Docket No. 50-400

Facility Operating License No. NPF-63

## 1.0 INTRODUCTION

Carolina Power & Light Company (CP&L) received a low-power Facility Operating License (No. NPF-53) and full-power Facility Operating License (No. NPF-63) for the Shearon Harris Nuclear Power Plant (SHNPP), Unit 1, from the U.S. Nuclear Regulatory Commission (NRC) on October 24, 1986, and January 12, 1987, respectively. Appendix B (the Environmental Protection Plan [nonradiological]) of the full-power license requires submittal of an Annual Environmental (nonradiological) Operating Report to the NRC describing the implementation of the plan during the previous year. The purpose of this document is to fulfill the requirement for the period January 1-December 31, 2000.

## 2.0 PLANT CONSISTENCY REQUIREMENTS [EPP Section 3.0]

### 2.1 Plant Design and Operation

There were no changes in plant design or operation and there were no tests or experiments performed which involved a potentially significant unreviewed environmental question during the reporting period.

### 2.2 Reporting Related to the NPDES Permit

Required NPDES monitoring data were submitted to the North Carolina Division of Water Quality (NCDWQ) *via* monthly discharge monitoring reports and separate correspondence as warranted.

## 3.0 UNUSUAL OR IMPORTANT ENVIRONMENTAL EVENTS [EPP Section 4.1]

No occurrence of an unusual environmental event that would indicate or could result in a significant environmental impact causally related to plant operations occurred during the reporting period. No releases or exceedances of permit conditions caused any significant environmental impact. The existence of biofouling organisms (Asiatic clams, *Corbicula fluminea*) and the presence of troublesome aquatic vegetation (hydrilla, *Hydrilla verticillata*) in Harris Reservoir were considered important events worthy of inclusion in this report.

### 3.1 Aquatic Biological Monitoring

#### A. Inspections for Asiatic clams (*Corbicula fluminea*) in the Harris Nuclear Plant (HNP) Emergency Service Water System (e.g., intake structures)

Inspections of intake bays are conducted via site procedure EPT-168 and are scheduled and implemented in conjunction with the Generic Letter 89-13 program. An inspection of Bay 8 at the Emergency Service Water Screening Structure was conducted on September 20, 2000. The Asiatic clam population appeared stable. Bay 8 was dewatered and thoroughly cleaned. Inspections

of the heat exchangers and associated components completed during the year revealed no sign of clam migration into the plant service water system.

B. Monitoring for hydrilla (*Hydrilla verticillata*), a nonnative aquatic weed.

A visual survey for troublesome aquatic vegetation, particularly hydrilla, was conducted in the Harris Auxiliary Reservoir on November 21, 2000. The survey included traveling by boat along the reservoir and intake canal shorelines looking for topped-out stands of hydrilla as well as visiting shoreline locations where stands of hydrilla had previously grown. At the surveyed Auxiliary Reservoir and intake canal shoreline locations no hydrilla or aquatic vegetation greater than 7 to 10 inches in height were observed. These observations indicate that the stocking of grass carp was an effective method for the reduction of hydrilla.

A similar aquatic vegetation survey was conducted November 14, 2000, in the Harris Lake main intake canal. This survey indicated the absence of hydrilla growing in the main intake canal. Both shorelines of the main intake canal were covered with dense stands of water primrose. These stands appeared to be similar in density and coverage area to stands seen in previous years.

No impacts to Harris Nuclear Plant operations from aquatic vegetation occurred during 2000.

**4.0 ENVIRONMENTAL MONITORING** [EPP Section 4.2]

**4.1 Aquatic Monitoring** [EPP Section 4.2.1]

Under the authority of the Clean Water Act, the state of North Carolina issued a National Pollutant Discharge Elimination System (NPDES) permit (NC0039586) for the Harris Nuclear Plant (HNP) on September 1, 1996, that remains in effect until July 31, 2001. This permit includes the CP&L Harris Energy & Environmental Center (HE&EC) sewage treatment plant discharge as an outfall (007). This permit requires that the laboratory analyses performed on all non-field parameters analyzed for effluent samples be performed by a state-certified laboratory. In accordance with this requirement, the HNP Environmental & Chemistry Laboratory was certified by the North Carolina Department of Water Quality (NCDWQ) as a Wastewater Laboratory, effective January 1, 1998, and valid through December 31, 2000. In addition, during 2000 the CP&L Chemistry Laboratory at the Harris Energy & Environmental Center contracted with NCDWQ-certified private laboratories, Aqua Tech Environmental Laboratories, and Tri-Test Laboratories, to perform analyses.

The Toxicity Testing Laboratory at the CP&L HE&EC was certified by the NCDWQ for toxicity testing to support the HNP operations. This laboratory was certified to perform testing during 2000 under two consecutive Biological Laboratory certifications effective November 1, 1999, through November 1, 2000.

and November 1, 2000, through November 1, 2001.

**4.1.1 Effluent Monitoring**

Routine effluent monitoring was conducted and reported to the NCDWQ as required by the NPDES permit. No reportable NPDES events occurred during 2000.

**4.2 Terrestrial Monitoring** [EPP Section 4.2.2]

Terrestrial monitoring is not required.

**4.3 Noise Monitoring** [EPP Section 4.2.3]

Noise monitoring is not required.

**5.0 EPP AUDIT** [EPP Section 5.1]

An audit conducted by an independent corporate entity was performed to verify the completeness and accuracy of the conditions and activities described in this annual environmental operating report. The results of that audit are summarized in the attached letter.

**6.0 PLANT REPORTING REQUIREMENTS** [EPP Section 5.4]

**6.1 EPP Noncompliance's**

There were no EPP noncompliance's identified during the reporting period. No reportable NPDES events occurred during 2000.

**6.2 Changes in Station Design**

There were no changes in plant design or operation and there were no tests or experiments performed which involved a potentially significant unreviewed environmental question during the reporting period.

**6.3 Non-routine Reports**

There were no non-routine reports submitted in accordance with EPP Section 5.4.2. There were no NPDES reportable events (Sec. 4.1.1) identified during the reporting period.



March 14, 2001

Ms. Victoria K. Will  
Director - Environmental Services  
Technical Services Department

Dear Ms. Will:

A review of the Harris Nuclear Plant Unit 1 (HNP) Annual Environmental (Nonradiological) Operating Report was recently completed. The report is issued annually to comply with the reporting requirements of the U. S. Nuclear Regulatory Commission (NRC) established in Appendix B, Environmental Protection Plan (Nonradiological), of the HNP Facility Operating License No. NPF-63. The objective of the review was to assess the accuracy and completeness of the report for the period January 1, 2000, through December 31, 2000.

The scope of our work was limited to a review of the supporting documents related to the Report and interviews with HNP and Environmental Services personnel. Based on the audit procedures performed, the Annual Environmental (Nonradiological) Operating Report appears to be complete, accurate, and in compliance with NRC reporting requirements.

We appreciate the excellent cooperation received from Environmental Services and HNP personnel. If you have any questions concerning this report, please do not hesitate to contact us.

Sincerely,

A handwritten signature in cursive script that reads "Paula J. Sims".

Paula J. Sims  
Audit Manager – Energy Supply

A handwritten signature in cursive script that reads "Cheryl S. Vetter".

Cheryl S. Vetter  
Team Leader

PJS/csv

c: Mr. R. J. Duncan II  
Mr. M. D. Engelman  
Mr. E. D. Wood

Audit Team

Ms. Cheryl S. Vetter

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