



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

APR 10 2000

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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 1999.

Questions regarding this information may be referred to Mr. J. H. Eads at (919) 362-2646.

Sincerely,

D. B. Alexander  
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)

**SHEARON HARRIS NUCLEAR POWER PLANT**

**UNIT 1**

**ANNUAL ENVIRONMENTAL  
(NONRADIOLOGICAL)  
OPERATING REPORT**

**APPENDIX B**

for

January 1- December 31, 1999

**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, 1999.

## 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 potential for impact to plant operations from biofouling organisms (Asiatic clams, *Corbicula fluminea*) and troublesome aquatic vegetation (primarily hydrilla, *Hydrilla verticillata*) were considered worthy of monitoring and inclusion in this report.

### 3.1 Aquatic Biological Monitoring

#### A. Scheduled inspection for Asiatic clams (*Corbicula fluminea*) in Harris Nuclear Plant (HNP) Main Intake structure Bay 8

Inspections of intake bays are conducted via procedure EPT-168 and are scheduled and implemented in conjunction with the GL 89-13 program. Bay 8 at the Main Intake structure was scheduled to be inspected during 1999. This inspection was completed on April 8, 1999. The inspection indicated there was very little build up of sludge in the bay which limits available clam habitat. There

appeared to be no discernable change in the total clam population. These results are consistent with previous estimates of clam abundance.

B. Monitoring for hydrilla (*Hydrilla verticillata*) a nonnative aquatic weed during 1999.

Biological Assessment Unit (BAU) personnel conducted a visual survey for hydrilla along both shorelines of the Harris Nuclear Plant (HNP) main reservoir intake canal on November 4, 1999. During the survey no topped-out stands of hydrilla were observed. Small isolated patches of hydrilla grew among dense stands of water primrose which lined both shorelines of the HNP main reservoir intake canal. These stands appeared to be similar in density and coverage area to stands observed in previous years. No impacts to HNP operations from hydrilla or other aquatic weeds occurred during 1999.

BAU personnel, on November 4, 1999, also conducted a troublesome aquatic vegetation (primarily hydrilla) survey of the Harris Auxiliary Reservoir. The survey involved a visual inspection of selected shoreline areas in the reservoir and along the shores of the Harris Nuclear Plant auxiliary reservoir intake canal. No area of the auxiliary reservoir or intake canal shoreline had visible stands of hydrilla reaching the surface. Except for small isolated stands of water primrose, no aquatic vegetation greater than 4 inches in height was observed growing at any auxiliary reservoir or the intake canal shoreline location. These observations indicate the stocking of 800 grass carp (*Ctenopharyngodon idella*) during the fall seasons of 1994, 1996, and 1997 resulted in the reduction of hydrilla to the point it was not observed during the survey.

**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 March 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 determined 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 1999 the CP&L Chemistry Laboratory at the Harris Energy & Environmental Center contracted with a NCDWQ-certified private laboratory, Aqua Tech Environmental 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 1999 under two consecutive Biological Toxicity Laboratory certifications effective November 1, 1998, through November 1, 1999, and November 1, 1999, through November 1, 2000.

#### **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 1999.

Although not a reportable NPDES event, additional information concerning the inability of a commercial laboratory to provide analytical data for a fecal coliform sample follows:

- A. October 15, 1999, fecal coliform sample (Outfall 007) analytical data not provided by commercial laboratory.

Aqua Tech Environmental Laboratories, Inc., the commercial laboratory contracted to provide fecal coliform sample analytical data, identified that they could not provide any analytical data for the October 15, 1999, fecal coliform sample for Outfall 007. The laboratory provided a letter, dated November 3, 1999, to the facility documenting the reason for the inability to provide analytical data.

As a result of the facility monitoring at the frequency required in the permit and due to the compliant conditions before and after the subject sampling date, the facility is believed to have been compliant on October 15, 1999. Consequently, the facility marked the outfall as compliant for the reporting month.

#### **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 Noncompliances**

There were no EPP noncompliances identified during the reporting period. No reportable NPDES events occurred during 1999. Information concerning the inability of a commercial laboratory to provide analytical data for a fecal coliform sample is discussed in Section 4.1.1, Item A.

**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 Nonroutine Reports**

There were no nonroutine 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 29, 2000

Mr. Benjamin C. White  
Manager-Environmental Services  
Operations and Environmental Support Department

Dear Mr. White:

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, 1999, through December 31, 1999.

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 black ink, appearing to read 'Kevin I. Pait'.

Kevin I. Pait  
Audit Manager

KIP/csv

c: Mr. J. Scarola  
Mr. R. H. Bazemore, Jr.  
Mr. D. K. Lanier

Audit Team

Ms. Cheryl S. Vetter ←