

# CATEGORY 1

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SUBJECT: Submits response to GL 97-04, "Assurance of Sufficient Net  
Positive Suction Head for ECC & Containment Heat Removal  
Pumps."

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

William R. Robinson  
Vice President  
Harris Nuclear Plant

NOV 5 1997

SERIAL: HNP-97-199  
10 CFR 50.54(f)

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  
RESPONSE TO GENERIC LETTER 97-04, "ASSURANCE OF SUFFICIENT NET POSITIVE  
SUCTION HEAD FOR EMERGENCY CORE COOLING AND CONTAINMENT HEAT  
REMOVAL PUMPS"

Dear Sir or Madam:

Carolina Power & Light Company (CP&L) hereby responds to NRC Generic Letter 97-04,  
"Assurance of Sufficient Net Positive Suction Head for Emergency Core Cooling and  
Containment Heat Removal Pumps," for the Harris Nuclear Plant (HNP).

Generic Letter 97-04, dated October 7, 1997, requested each licensee to provide a written report  
within 90 days of the date of the Generic Letter that includes the following information for its  
facility:

1. Specify the general methodology used to calculate the head loss associated with the ECCS  
suction strainers.
2. Identify the required NPSH and the available NPSH.
3. Specify whether the current design-basis NPSH analysis differs from the most recent analysis  
reviewed and approved by the NRC for which a safety evaluation was issued.
4. Specify whether containment overpressure (i.e., containment pressure above the vapor  
pressure of the sump or suppression pool fluid) was credited in the calculation of available  
NPSH. Specify the amount of overpressure needed and the minimum overpressure available.
5. When containment overpressure is credited in the calculation of available NPSH, confirm  
that an appropriate containment pressure analysis was done to establish the minimum  
containment pressure.

The Generic Letter requested that addressees submit a written response within 30 days of the date  
of the generic letter indicating: (1) whether or not the requested information will be submitted,  
and (2) whether or not the requested information will be submitted within the requested time  
period.

9711180314 971105  
PDR ADDOCK 05000400  
P PDR





10-11-68

1. The first part of the report is a summary of the work done during the past year. It is a brief overview of the main results and conclusions of the research.

2. The second part of the report is a detailed description of the experimental methods used in the study. It includes a description of the apparatus, the procedures followed, and the data collected.

3. The third part of the report is a discussion of the results of the study. It compares the experimental results with the theoretical predictions and discusses the implications of the findings.

4. The fourth part of the report is a conclusion. It summarizes the main findings of the study and suggests directions for future research.

5.

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HNP will submit the requested information. However, in order to minimize the impact on other ongoing engineering activities, additional time is required to collect and review the requested information. This information will be submitted on or before February 4, 1998.

Please refer any questions regarding this submittal to Mr. J. H. Eads at (919) 362-2646.

Sincerely,

*W. R. Robinson*

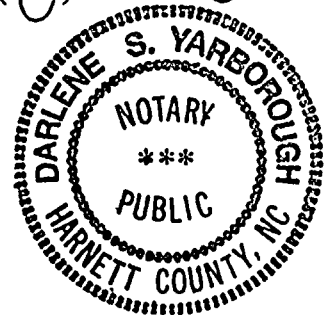
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W. R. Robinson, having been first duly sworn, did depose and say that the information contained herein is true and correct to the best of his information, knowledge and belief; and the sources of his information are employees, contractors, and agents of Carolina Power & Light Company.

*Darlene S. Yarbrough*  
Notary (Seal)

My commission expires: 2-6-2000

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



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