

June 14, 2002

MEMORANDUM TO: Thomas Koshy, Acting Chief, Section 2  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

FROM: John M. Goshen, Project Manager, Section 2/**RA**/  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

SUBJECT: SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1 - SUMMARY  
OF MAY 23, 2002, CONFERENCE CALL REGARDING RESPONSE TO  
NRC BULLETIN 2002-01 "REACTOR PRESSURE VESSEL HEAD  
DEGRADATION AND REACTOR COOLANT PRESSURE BOUNDARY  
INTEGRITY" (TAC NO. MB4549)

On May 23, 2002, the U.S. Nuclear Regulatory Commission staff conducted a conference call with Carolina Power & Light Company (CP&L) representatives to discuss the CP&L response dated April 2, 2002, to NRC Bulletin 2002-01 for the Shearon Harris Nuclear Power Plant. Attachment 1 is a list of participants. Attachment 2 is a summary of the discussion regarding the Shearon Harris Nuclear Power Plant response.

Based on the discussion, CP&L will submit a supplemental 15-day response by July 2, 2002.

Docket No. 50-400

Attachments: As stated

cc w/attns: See next page

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**LIST OF PARTICIPANTS**

**NUCLEAR REGULATORY COMMISSION STAFF CONFERENCE CALL**

**WITH CAROLINA POWER & LIGHT COMPANY**

**MAY 23, 2002**

**NRC/NRR**

J. Goshen  
A. Lee

**CP&L**

Rick Garner, Licensing  
Bob Panella, Engineering (Boron Corrosion Control Program Lead)  
Fred Dean, Engineering (Performed the most recent RV Head inspections)  
Dajun Song, Engineering (ISI)  
Scott Larson, Engineering (ISI)

**NRC/REGION II**

Robert Hagar

ATTACHMENT 1

**DISCUSSION REGARDING HARRIS NUCLEAR PLANT RESPONSE**

The discussion addressed the following question:

Your Bulletin 2002-01 15-day response discussed one instance of lower canopy seal weld leakage and two instances of conoseal connection leakage. The boric acid deposits were removed for all three leakage events. In addition, you stated that 85% of the head was inspected visually during refueling outage (RFO)-10 (the remaining 15% was assumed to be a 3-foot diameter circle). Discuss whether or not any of the leaks that have occurred at Shearon Harris would have resulted in leakage into the areas that were not inspected during RFO-10. Include a discussion of any deposits that were identified, and the source of the deposits.

Response:

Carolina Power & Light Company (CP&L) confirmed that the penetration that leaked in the Shearon Harris Nuclear Plant's RFO-10 was on the outer ring of control rod drive mechanisms (CRDMs) in its own compartment such that it cannot spray out onto a large portion of the head. After exiting the CRDM assembly the solution ran down an adjacent CRDM support column.

During RFO-8 there was a canopy seal leak on penetration number 18. The leak was in a portion of the head that could be visually inspected. The head area was cleaned after the leakage event. Visual indications left on the head were staining and very light residue.

There was no evidence of boric acid on the insulation on the head. All deposits had been cleaned from the previous leak. There was no indication of leakage originating from the 3-foot diameter circle when viewed from above the reactor vessel head. There was no residue adjacent to the 3-foot diameter circle, and there was no indication of leakage originating from within that area when viewed from the underside of the reactor vessel head. This area refers to the 3-foot diameter circle on the reactor vessel head, which according to the licensee's 15-day Bulletin response was not visually inspected.

CP&L committed to send the written supplement for Shearon Harris to the NRC within 40 days after May 23, 2002.

Carolina Power & Light Company

cc:  
Mr. William D. Johnson  
Vice President and Corporate Secretary  
Carolina Power & Light Company  
Post Office Box 1551  
Raleigh, North Carolina 27602

ATTACHMENT 2  
Shearon Harris Nuclear Power Plant  
Unit 1

Mr. Robert J. Duncan II  
Director - Site Operations  
Carolina Power & Light Company  
Shearon Harris Nuclear Power Plant  
Post Office Box 165, Mail Zone 1  
New Hill, North Carolina 27562-0165

Resident Inspector/Harris NPS  
c/o U.S. Nuclear Regulatory Commission  
5421 Shearon Harris Road  
New Hill, North Carolina 27562-9998

Ms. Karen E. Long  
Assistant Attorney General  
State of North Carolina  
Post Office Box 629  
Raleigh, North Carolina 27602

Public Service Commission  
State of South Carolina  
Post Office Drawer 11649  
Columbia, South Carolina 29211

Mr. John H. O'Neill, Jr.  
Shaw, Pittman, Potts & Trowbridge  
2300 N Street, NW.  
Washington, DC 20037-1128

Mr. Mel Fry, Director  
Division of Radiation Protection  
N.C. Department of Environment  
and Natural Resources  
3825 Barrett Dr.  
Raleigh, North Carolina 27609-7721

Mr. Terry C. Morton  
Manager  
Performance Evaluation and  
Regulatory Affairs CPB 7  
Carolina Power & Light Company  
Post Office Box 1551  
Raleigh, North Carolina 27602-1551

Mr. Benjamin C. Waldrep  
Plant General Manager - Harris Plant  
Carolina Power & Light Company  
Shearon Harris Nuclear Power Plant  
P.O. Box 165, Mail Zone 3  
New Hill, North Carolina 27562-0165

Mr. Robert P. Gruber  
Executive Director  
Public Staff NCUC  
4326 Mail Service Center  
Raleigh, North Carolina 27699-4326

Chairman of the North Carolina  
Utilities Commission  
Post Office Box 29510  
Raleigh, North Carolina 27626-0510

Mr. James Scarola  
Vice President-Harris Plant  
Carolina Power & Light  
Post Office Box 165, MC:Zone 1  
New Hill, NC 27562-0165

Ms. Linda Coleman, Chairperson  
Board of County Commissioners  
of Wake County  
P. O. Box 550  
Raleigh, North Carolina 27602

Mr. Gary Phillips, Chairman  
Board of County Commissioners  
of Chatham County  
P. O. Box 87  
Pittsboro, North Carolina 27312

Mr. James W. Holt, Manager  
Support Services  
Carolina Power & Light Company  
Shearon Harris Nuclear Power Plant  
P.O. Box 165, Mail Zone 1  
New Hill, NC 27562-0165

Mr. John R. Caves, Supervisor  
Licensing/Regulatory Programs  
Carolina Power & Light Company  
Shearon Harris Nuclear Power Plant  
P. O. Box 165, Mail Zone 1  
New Hill, NC 27562-0165