

August 7, 2007

Mr. Robert J. Duncan II
Vice President
Carolina Power & Light Company
P.O. Box 165, Mail Zone 1
New Hill, NC 27562

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1, LICENSE RENEWAL
APPLICATION

Dear Mr. Duncan:

By letter dated November 14, 2006, Carolina Power & Light Company submitted an application pursuant to 10 CFR Part 54, to renew the operating license for Shearon Harris Nuclear Power Plant, Unit 1, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review.

These requests for additional information were discussed with Roger Stewart, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-3137 or e-mail MLH5@nrc.gov.

Sincerely,

/RA/
Maurice Heath, Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-400

Enclosure:
Requests for Additional Information

cc w/encl: See next page

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Maurice Heath, Project Manager
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Letter to R. Duncan From M. Heath Dated August 07, 2007

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SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1, LICENSE RENEWAL
APPLICATION

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Shearon Harris Nuclear Power Plant,
Unit 1

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Shearon Harris Nuclear Power Plant,
Unit 1

-2-

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SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1
LICENSE RENEWAL APPLICATION
REQUESTS FOR ADDITIONAL INFORMATION (RAIs)

RAI 2.4-1

Section 2.4.1.1 "Containment Structure" of the license renewal application (LRA), page 2.4-4, states "The welded attachments to the metallic liner (e.g., floor beams, seismic restraints, leak channels, equipment/pipe supports, etc.) do not perform a pressure retaining function associated with the containment vessel. For this reason, the welded attachments are not included with the liner components. These welded attachments are evaluated with the specific commodity groups." Please identify these specific component commodity groups, as well as their intended functions, for the welded attachments.

RAI 2.4-2

Section 2.4.1.1 "Containment Structure" of the LRA, page 2.4-7, states that the insulation for Type II cold penetrations is not in scope because the concrete surrounding the penetration will always be below the maximum local area temperature of 200 °F. Please state the criteria employed for determining the inclusion of insulation within the scope.

RAI 2.4-3

Section 2.4.2.12 "Emergency Service Water and Cooling Tower Makeup Intake Structure" of the LRA, Table 2.4.2-12, does not include screens and stop logs. Clarify whether screens and stop logs are in the scope. If not, provide justification for their exclusion from the scope.

RAI 2.4-4

Section 2.4.2.16 "Fuel Handling Building" of the LRA, Page 2.4-48, states "Design criteria have been used to assure that the collapse of adjacent non-seismic Category I structures would not impair the integrity of the seismic Category I structures or components should an earthquake occur." Please specify what design criteria have been used and explain how these design criteria can assure that the collapse of adjacent non-seismic Category I structures would not impair the integrity of the seismic Category I structures or components.

Enclosure