



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 18, 2009

Chris L. Burton, Vice President
Shearon Harris Nuclear Power Plant
Carolina Power & Light Company
Post Office Box 165, Mail Zone 1
New Hill, North Carolina 27562-0165

SUBJECT: SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1 – REQUEST FOR
ADDITIONAL INFORMATION RELATED TO GENERIC LETTER 2008-01,
“MANAGING GAS ACCUMULATION IN EMERGENCY CORE COOLING,
DECAY HEAT REMOVAL, AND CONTAINMENT SPRAY SYSTEMS”
(TAC NO. MD7832)

Dear Mr. Burton:

By letters dated May 9, 2008, October 14, 2008, and August 10, 2009, Carolina Power & Light Company (the licensee), now doing business as Progress Energy Carolinas, Inc., provided information in response to Generic Letter 2008-01, “Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems,” for the Shearon Harris Nuclear Power Plant, Unit 1.

The U.S. Nuclear Regulatory Commission staff has determined that it needs additional information in order to complete its review of these submittals. Please respond to the enclosed requests by January 29, 2010, in order to facilitate a timely completion of the staff review. Please contact me at 301-415-3178 if you have any questions on this issue, would like to participate in a conference call, or if you require additional time to submit your responses.

Sincerely,

A handwritten signature in black ink, appearing to read "Marlayna Vaaler".

Marlayna Vaaler, Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-400

Enclosure: Request for Additional Information

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REQUEST FOR ADDITIONAL INFORMATION

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1

GENERIC LETTER 2008-01, "MANAGING GAS ACCUMULATION IN EMERGENCY CORE
COOLING, DECAY HEAT REMOVAL, AND CONTAINMENT SPRAY SYSTEMS"

DOCKET NO. 50-400

1.0 BACKGROUND

By letters dated May 9, 2008 (Agencywide Documents Access & Management System (ADAMS) Accession No. ML081360497), October 14, 2008 (ADAMS Accession No. ML082910295), and August 10, 2009 (ADAMS Accession No. ML092250226), Carolina Power & Light Company (the licensee), now doing business as Progress Energy Carolinas, Inc., provided information in response to Generic Letter (GL) 2008-01, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems," for the Shearon Harris Nuclear Power Plant, Unit 1 (HNP).

Guidance on the Nuclear Regulatory Commission (NRC) staff expectations is provided in Reference 1, which is generally consistent with the Nuclear Energy Institute (NEI) guidance provided to the industry by Reference 2, and as clarified in later NEI communications.

The NRC staff has reviewed the information submitted by the licensee, and based on this review determined the following information is required to complete the evaluation. The NRC staff recommends that the licensee consult Reference 1 when responding to the following RAIs.

2.0 REQUESTS FOR ADDITIONAL INFORMATION

1. Please discuss the monitoring of pump operation in all modes, as well as specialized monitoring of appropriate plant parameters during shutdown operation, including reduced inventory and mid-loop operation.
2. Consistent with Section 3.7 of Reference 1, briefly discuss the plans for training at HNP that are "considered to be a necessary part of applying procedures and other activities when addressing the issue identified in the GL."

Enclosure

3.0 REFERENCES

- 1 Ruland, William H., "Preliminary Assessment of Responses to Generic Letter 2008-01, 'Managing Gas Accumulation in emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems,' and Future NRC Staff Review Plans," NRC letter to James H. Riley, Nuclear Energy Institute, ML091390637, May 28, 2009.
- 2 Riley, James H., "Generic Letter (GL) 2008-01, 'Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems' Evaluation and 3 Month Response Template," Letter to Administrative Points of Contact from Director, Engineering, Nuclear Generation Division, Nuclear Energy Institute, Enclosure 2, "Generic Letter 2008-01 Response Guidance," ML093070575, March 20, 2008.
- 3 Case, Michael J., "NRC Generic Letter 2008-01: Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems," Letter from Director, Division of Policy and Rulemaking, Office of Nuclear Regulation, NRC, ML072910759, January 11, 2008.
- 4 Burton, Christopher L., "Progress Energy Carolinas, Inc., Shearon Harris Nuclear Power Plant, Unit 1, Docket No. 50-400, Nine-Month Response to NRC Generic Letter 2008-01," Letter to Document Control Desk, NRC, from Vice President, Harris Nuclear Plant, Progress Energy Carolinas, Inc., ML0829102951, October 14, 2008.
- 5 Warner, John C., "Progress Energy Carolinas, Inc., Shearon Harris Nuclear Power Plant, Unit 1, Docket No. 50-400, Supplemental Response to Generic Letter 2008-01," Letter to Document Control Desk, NRC, from Manager-Support Services, Harris Nuclear Plant, Progress Energy Carolinas, Inc., ML092250226, August 10, 2009.
- 6 "Revision 2 to NRC Staff Criteria for Gas Movement in Suction Lines and Pump Response to Gas," ML090900136, March 26, 2009.

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Sincerely,

/RA/

Marlayna Vaaler, Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

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