



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

November 10, 2009

Mr. Benjamin Waldrep, Vice President
Brunswick Steam Electric Plant
Carolina Power & Light Company
Post Office Box 10429
Southport, North Carolina 28461

**SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT UNITS 1 AND 2, REQUEST FOR
ADDITIONAL INFORMATION REGARDING THE RESPONSE TO GENERIC
LETTER 2008-01, "MANAGING GAS ACCUMULATION IN EMERGENCY CORE
COOLING, DECAY HEAT REMOVAL, AND CONTAINMENT SPRAY
SYSTEMS" (TAC NOS. MD7802 AND MD7803)**

Dear Mr. Waldrep:

By letters dated October 10, 2008, and July 27, 2009, Carolina Power & Light (the licensee) provided responses to Generic Letter (GL) 2008-01 for the Brunswick Steam Electric Plant, Units 1 and 2. On the basis of the provided information, the Nuclear Regulatory Commission (NRC) staff has determined that additional information is required from the licensee for the NRC staff to conclude that the licensee has acceptably demonstrated "that the subject systems are in compliance with the current licensing and design bases and applicable regulatory requirements, and that suitable design, operational, and testing control measures are in place for maintaining this compliance" as stated in GL 2008-01.

In order to complete its review, the NRC staff requests that you respond to the specific questions found in the enclosed request for additional information (RAI). The questions were sent via electronic transmission on October 22, 2009, to Mr. Bill Murray, of your staff. The draft questions were sent to ensure that the questions were understandable and that the regulatory basis for the questions was clear. The draft questions were discussed with your staff on, October 28 2009, and it was agreed that a response to this RAI would be submitted within 45 days from the date of this letter.

B. Waldrep

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Please contact me at 301-415-1447, if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Farideh E. Saba', followed by the word 'for' in a smaller, simpler font.

Farideh E. Saba, Senior Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-325 and 50-324

Enclosure: Request for Additional Information

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REQUEST FOR ADDITIONAL INFORMATION
BRUNSWICK STEAM ELECTRIC PLANT UNITS 1 AND 2
GENERIC LETTER 2008-01, "MANAGING GAS ACCUMULATION IN
EMERGENCY CORE COOLING, DECAY HEAT REMOVAL AND
CONTAINMENT SPRAY SYSTEMS"
DOCKET NOS. 50-325 AND 50-324

By letters dated October 10, 2008 (Reference 1), and July 27, 2009 (Reference 2), Carolina Power & Light (the licensee) provided responses to Generic Letter (GL) 2008-01 "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems" (Reference 3) for the Brunswick Steam Electric Plant (BSEP), Units 1 and 2. Additional information is required for the U.S. Nuclear Regulatory Commission (NRC) staff to determine that the licensee has acceptably demonstrated "that the subject systems are in compliance with the current licensing and design bases and applicable regulatory requirements, and that suitable design, operational, and testing control measures are in place for maintaining this compliance," as stated in GL 2008-01.

Guidance on NRC staff expectations is provided by Reference 4 which is generally consistent with Nuclear Energy Institute (NEI) guidance provided to industry in Reference 5 as clarified in later NEI communications. The NRC staff recommends that the licensee consult Reference 5 when responding to the following RAIs:

1. In References 1 and 2, the licensee states that a calculation has been developed to provide an analytical basis for void acceptance criteria. Please describe the criteria used to develop the calculation, and discuss how it differs from the criteria set forth in Reference 6. Justify the differences.
2. Consistent with Section 3.7 of Reference 4, briefly discuss your plans for training at BSEP that is "considered to be a necessary part of applying procedures and other activities when addressing the issue identified in the GL."

REFERENCES

- 1 Waldrep, Benjamin C., "Progress Energy Carolinas, Inc., Brunswick Steam Electric Plant, Unit 1 and 2, Docket Nos. 50-325, 50-324, Nine-Month Response to NRC Generic Letter 2008-01," Letter to Document Control Desk, NRC, from Vice President, Brunswick Nuclear Plant, Progress Energy Carolinas, Inc., October 10, 2008 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML082950466).

Enclosure

- 2 Waldrep, Benjamin C., "Progress Energy Carolinas, Inc., Brunswick Steam Electric Plant, Unit 2, Docket No. 50-324, Supplemental Response to Generic Letter 2008-01," Letter to Document Control Desk, NRC, from Vice President, Brunswick Nuclear Plant, Progress Energy Carolinas, Inc., July 27, 2009 (ADAMS Accession No. ML092160595).
- 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, January 11, 2008 (ADAMS Accession No. ML072910759).
4. 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, NEI, May 28, 2009 (ADAMS Accession No. ML091390637).
- 5 Riley, James H., "Generic Letter (GL) 2008-01, 'Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Contain Spray Systems' Evaluation and 3 Month Response Template," Letter to Administrative Points of Contact from Director, Engineering, Nuclear Generation Division, NEI, Enclosure 2, "Generic Letter 2008-01 Response Guidance," March 20, 2008 (ADAMS Accession Nos. ML093070575, , ML093070630, and ML093070647)
- 6 "Revision 2 to NRC Staff Criteria for Gas Movement in Suction Lines and Pump Response to Gas," March 26, 2009 (ADAMS Accession No. ML090900136).

B. Waldrep

- 2 -

Please contact me at 301-415-1447, if you have any questions.

Sincerely,

/RA by MVaaler for/

Farideh E. Saba, Senior Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-325 and 50-324

Enclosure: Request for Additional Information

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