



Progress Energy

April 26, 2010

10 CFR 50.36a

Serial: BSEP 10-0060

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2
Renewed Facility Operating License Nos. DPR-71 and DPR-62
Docket Nos. 50-325 and 50-324
Radioactive Effluent Release Report for 2009

Ladies and Gentlemen:

In accordance with 10 CFR 50.36a and Technical Specification (TS) 5.6.3 for the Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2, Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc., is submitting the enclosed Radioactive Effluent Release Report for BSEP Unit Nos. 1 and 2. This report covers the period from January 1, 2009, through December 31, 2009.

TS 5.5.1, "Offsite Dose Calculation Manual (ODCM)," requires changes to the ODCM be submitted as part of or concurrent with the Radioactive Effluent Release Report. A copy of Revision 33 of the BSEP ODCM, current as of December 31, 2009, is included as Enclosure 2. Changes made to the ODCM during 2009 are summarized in the 2009 Radioactive Effluent Release Report.

No regulatory commitments are contained in this submittal. Please refer any questions regarding this submittal to Ms. Annette Pope, Supervisor - Licensing/Regulatory Programs, at (910) 457-2184.

Sincerely,

Phyllis N. Mentel
Manager - Support Services
Brunswick Steam Electric Plant

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Enclosures:

1. Radioactive Effluent Release Report for 2009
2. Offsite Dose Calculation Manual, Revision 33

cc (with Enclosure 1 only):

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U. S. Nuclear Regulatory Commission
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U. S. Nuclear Regulatory Commission **(Electronic Copy Only)**
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