



APR 02 2007

SERIAL: BSEP 07-0026

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

Subject: Brunswick Steam Electric Plant, Unit No. 2
Docket No. 50-324/License No. DPR-62
Unit 2 Cycle 18 Core Operating Limits Report, Supplemental Reload
Licensing Report, and Loss-of-Coolant Accident Analysis Report

Ladies and Gentlemen:

Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc., herein submits the latest revision of the Core Operating Limits Report, Supplemental Reload Licensing Report, and Loss-of-Coolant Accident Analysis Report for the Brunswick Steam Electric Plant (BSEP), Unit No. 2.

Technical Specification 5.6.5.d requires that the Core Operating Limits Report be provided to the NRC, upon issuance, for each reload cycle. Enclosure 1 provides a copy of Brunswick Unit 2, Cycle 18 Core Operating Limits Report, dated March 2007.

A copy of 0000-0052-0675-SRLR, Revision 0, Supplemental Reload Licensing Report for Brunswick Steam Electric Plant Unit 2 Reload 17 Cycle 18, dated February 2007, is provided in Enclosure 2. A copy of NEDC-31624P, Supplement 2, Revision 10, Loss-of-Coolant Accident Analysis Report for Brunswick Steam Electric Plant Unit 2 Reload 17 Cycle 18, dated January 2007, is provided in Enclosure 3.

Enclosure 3 contains information that Global Nuclear Fuel - Americas, LLC (GNF-A) considers to be proprietary as defined by 10 CFR 2.390. GNF-A, as the owner of the proprietary information, has executed the affidavit provided in Enclosure 4, which identifies that the enclosed proprietary information has been handled and classified as proprietary, is customarily held in confidence, and has been withheld from public disclosure. GNF-A requests that the enclosed proprietary information be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390 and 9.17.

Progress Energy Carolinas, Inc.
Brunswick Nuclear Plant
PO Box 10429
Southport, NC 28461

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

Sincerely,



Randy C. Ivey
Manager - Support Services
Brunswick Steam Electric Plant

WRM/wrm

Enclosures:

1. Brunswick Unit 2, Cycle 18 Core Operating Limits Report, March 2007
2. 0000-0052-0675-SRLR, Revision 0, Supplemental Reload Licensing Report for Brunswick Steam Electric Plant Unit 2 Reload 17 Cycle 18, February 2007
3. NEDC-31624P, Supplement 2, Revision 10, Loss-of-Coolant Accident Analysis Report for Brunswick Steam Electric Plant Unit 2 Reload 17 Cycle 18, January 2007 (**Proprietary Information - Withhold from Public Disclosure In Accordance With 10 CFR 2.390 and 10 CFR 9.17**)
4. Global Nuclear Fuels Affidavit Regarding Withholding NEDC-31624P, Supplement 2, Revision 10, from Public Disclosure

cc (with enclosures):

U. S. Nuclear Regulatory Commission, Region II
ATTN: Dr. William D. Travers, Regional Administrator
Sam Nunn Atlanta Federal Center
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U. S. Nuclear Regulatory Commission
ATTN: Mr. Eugene M. DiPaolo, NRC Senior Resident Inspector
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U. S. Nuclear Regulatory Commission **(Electronic Copy Only)**
ATTN: Mr. Stewart N. Bailey (Mail Stop OWFN 8B1)
11555 Rockville Pike
Rockville, MD 20852-2738

cc (without enclosures):

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