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Serial: BSEP 05-0024

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 17 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. (PEC), 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 17 Core Operating Limits Report, dated February 2005.

A copy of 0000-0028-0680-SRLR, Revision 0, Supplemental Reload Licensing Report for Brunswick Steam Electric Plant Unit 2 Reload 16 Cycle 17, dated January 2005, is provided in Enclosure 2. A copy of NEDC-31624P, Supplement 2, Revision 9, Loss-of-Coolant Accident Analysis Report for Brunswick Steam Electric Plant Unit 2 Reload 16 Cycle 17, dated January 2005, 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.



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Please refer any questions regarding this submittal to Mr. Leonard R. Beller, Supervisor - Licensing/Regulatory Programs, at (910) 457-2073.

Sincerely,

Edward T. O'Neil

Manager - Support Services Brunswick Steam Electric Plant

WRM/wrm

Enclosures:

- 1. Brunswick Unit 2, Cycle 17 Core Operating Limits Report, February 2005
- 2. 0000-0028-0680-SRLR, Revision 0, Supplemental Reload Licensing Report for Brunswick Steam Electric Plant Unit 2 Reload 16 Cycle 17, January 2005
- 3. NEDC-31624P, Supplement 2, Revision 9, Loss-of-Coolant Accident Analysis Report for Brunswick Steam Electric Plant Unit 2 Reload 16 Cycle 17, January 2005 (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 9, From Public Disclosure

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cc (with Enclosures 1, 2, 3, and 4):

U. S. Nuclear Regulatory Commission, Region II ATTN: Dr. William D. Travers, Regional Administrator Sam Nunn Atlanta Federal Center 61 Forsyth Street, SW, Suite 23T85 Atlanta, GA 30303-8931

U. S. Nuclear Regulatory Commission ATTN: Mr. Eugene M. DiPaolo, NRC Senior Resident Inspector 8470 River Road Southport, NC 28461-8869

U. S. Nuclear Regulatory Commission (Electronic Copy Only) ATTN: Ms. Brenda L. Mozafari (Mail Stop OWFN 8G9) 11555 Rockville Pike Rockville, MD 20852-2738

cc (without enclosures):

Ms. Jo A. Sanford Chair - North Carolina Utilities Commission P.O. Box 29510 Raleigh, NC 27626-0510