



Carolina Power & Light Company
P.O. Box 10429
Southport, NC 28461-0429

MAR 4 1996

SERIAL: BSEP 96-0026

U. S. Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-324/LICENSE NO. DPR-62
TRANSMITTAL OF CORE OPERATING LIMITS REPORT, SUPPLEMENTAL RELOAD
LICENSING REPORT, AND LOSS-OF-COOLANT-ACCIDENT ANALYSIS REPORT

Gentlemen:

The purpose of this letter is to submit, in accordance with Technical Specification 6.9.3.4, a copy of the Core Operating Limits Report for the Brunswick Steam Electric Plant, Unit 2. A copy of the "Brunswick Unit 2, Cycle 12 Core Operating Limits Report, February 1996," Revision 0, approved February 1, 1996 for Brunswick Unit 2, Cycle 12 is provided in Enclosure 1.

With each non-proprietary reload submittal, licensees must include a table of the most limiting and least limiting Maximum Average Planar Linear Heat Generation Rate (MAPLHGR) for each multiple lattice fuel type. This information for each fuel type is located in the Supplemental Reload Licensing Report for Brunswick Unit 2. A copy of the "Supplemental Reload Licensing Report for Brunswick Steam Electric Plant Unit 2 Reload 11 Cycle 12," 24A5195, Revision 0 is provided in Enclosure 2.

Enclosure 3 to this letter provides a copy of the "Loss-of-Coolant Accident Analysis Report for the Brunswick Steam Electric Plant, Unit 2, Reload 11 Cycle 12" (NEDC-31624P, Supplement 2, Revision 3). This report contains MAPLHGR values for the General Electric Nuclear Energy fuel designs to be loaded into Brunswick Unit 2 for Cycle 12. The document contained in Enclosure 3 is considered General Electric Nuclear Energy proprietary information and should be withheld from public disclosure in accordance with 10 CFR 2.790. An affidavit attesting to this fact is provided in Enclosure 4.

Enclosure 5 to this letter provides a copy of the "Brunswick Steam Electric Plant Units 1 and 2 SAFER/GESTR-LOCA Loss-Of-Coolant Accident Analysis: Application to GE13 Fuel" (NEDC-31624P, Supplement 3, Revision 0). The document contained in Enclosure 5 is considered General Electric Nuclear Energy proprietary information and should be withheld from public disclosure in accordance with 10 CFR 2.790. An affidavit attesting to this fact is provided in Enclosure 6.

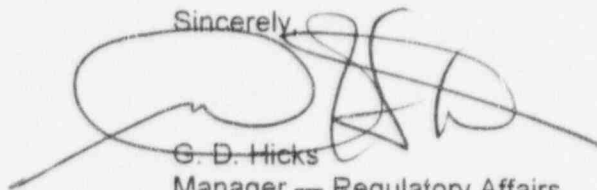
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Please refer any questions regarding this submittal to Mr. George Honma at (910) 457-2741.

Sincerely,

A handwritten signature in black ink, appearing to be 'G. D. Hicks', written over the word 'Sincerely,'.

G. D. Hicks
Manager — Regulatory Affairs
Brunswick Nuclear Plant

WRM/wrm

Enclosures

1. Brunswick Unit 2, Cycle 12 Core Operating Limits Report, February 1996, Revision 0
2. Supplemental Reload Licensing Report for Brunswick Unit 2 Reload 11 Cycle 12
3. Loss-of-Coolant Accident Analysis Report for the Brunswick Steam Electric Plant, Unit 2, Reload 11 Cycle 12
4. General Electric Nuclear Energy Affidavit Regarding Withholding from Public Disclosure in Accordance with 10 CFR 2.790
5. SAFER/GESTR-LOCA Loss-of-coolant Accident Analysis: Application to GE13 Fuel
6. General Electric Nuclear Energy Affidavit Regarding Withholding from Public Disclosure in Accordance with 10 CFR 2.790

cc (with enclosures):

U. S. Nuclear Regulatory Commission
ATTN.: Mr. Stewart D. Ebnetter, Regional Administrator
101 Marietta Street, N.W., Suite 2900
Atlanta, GA 30323-0199

Mr. C. A. Patterson
NRC Senior Resident Inspector - Brunswick Units 1 and 2:

U.S. Nuclear Regulatory Commission
ATTN.: Mr. David C. Trimble, Jr. (Mail Stop OWFN 14B20)
11555 Rockville Pike
Rockville, MD 20852-2738

cc (without enclosures 3 and 5):

The Honorable H. Wells
Chairman - North Carolina Utilities Commission
P.O. Box 29510
Raleigh, NC 27626-0510

ENCLOSURE 1

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-324/LICENSE NO. DPR-62
TRANSMITTAL OF CORE OPERATING LIMITS REPORT, SUPPLEMENTAL RELOAD
LICENSING REPORT, AND LOSS-OF-COOLANT-ACCIDENT ANALYSIS REPORT

BRUNSWICK UNIT 2, CYCLE 12
CORE OPERATING LIMITS REPORT