



Carolina Power & Light Company

FEB 28 1990

SERIAL: NLS-90-050

United States 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 LOCA REPORT AND
SUPPLEMENTAL RELOAD LICENSING REPORT

Gentlemen:

On November 17, 1988, the Nuclear Regulatory Commission (NRC) approved Amendment 19 to General Electric Company (GE) document NEDE-24011-P-A (GESTAR-II). Amendment 19 to GESTAR-II supported the elimination of linear heat generation rate (LHGR) from the Technical Specifications for boiling water reactors. Elimination of LHGR from the Brunswick Unit 2 Technical Specifications was approved by the NRC via Amendment No. 161 dated May 25, 1989. Subsequently, on June 1, 1989, the NRC approved the use of the SAFER/GESTR loss-of-coolant accident (LOCA) methodology for future revisions of the Brunswick Plant LOCA licensing basis. The updated Brunswick Unit 2 LOCA licensing basis for the upcoming cycle which provides information in accordance with the NRC Safety Evaluation for Amendment 19 to GESTAR-II is contained in the enclosed document titled "Loss-of-Coolant Accident Analysis Report for Brunswick Steam Electric Plant Unit 2 - Reload 8, Cycle 9," NEDE-31624P, Supplement 2, Revision 0. This report is classified as proprietary by GE; therefore, an affidavit for withholding the report from public disclosure in accordance with 10 CFR 2.790 is also enclosed.

In addition, GE has indicated to the NRC that each non-proprietary reload submittal by licensees would include a table of the most limiting and least limiting MAPLHGR for each multiple lattice fuel bundle type. This information 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 8 Cycle 9," 23A6456, Rev. 0 is enclosed.

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Change:
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Please refer any questions regarding this submittal to Mr. William R. Murray at (919) 546-4661.

Yours very truly,



Leonard I. Loflin

Manager

Nuclear Licensing Section

WRM/wrm (\cor\alt-loc)

Enclosures

cc: Mr. S. D. Ebnetter
Mr. W. H. Ruland
Mr. E. G. Tourigny

ENCLOSURE 1

LOSS OF COOLANT ACCIDENT ANALYSIS REPORT FOR
BRUNSWICK STEAM ELECTRIC PLANT UNIT 2 - RELOAD 8, CYCLE 9
(NEDC-31624P, SUPPLEMENT 2, REVISION 0, DECEMBER 1989)

ENCLOSURE 2

SUPPLEMENTAL RELOAD LICENSING REPORT FOR
BRUNSWICK STEAM ELECTRIC PLANT UNIT 2 - RELOAD 8 CYCLE 9
(23A6456, REV. 0, JANUARY 1990)