



Progress Energy

JUN 28 2011

SERIAL: BSEP 11-0071

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

Subject: Brunswick Steam Electric Plant, Unit 2
Renewed Facility Operating License No. DPR-62
Docket No. 50-324
Cycle 20 Startup Report

Ladies and Gentlemen:

In accordance with the Brunswick Steam Electric Plant (BSEP) Updated Final Safety Analysis Report (UFSAR), Section 13.4.2.1, "Startup Report," Carolina Power & Light Company (CP&L), now doing business as Progress Energy Carolinas, Inc., is submitting the enclosed Brunswick Unit 2, Cycle 20 Startup Report. The report is required as a result of the first loading of AREVA ATRIUM 10XM fuel during the Spring 2011 refueling outage.

No regulatory commitments are contained in this letter. Please refer any questions regarding this submittal to Mr. Lee Grzeck, Acting Supervisor - Licensing/Regulatory Programs, at (910) 457-2487.

Sincerely,

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

WRM/wrm

Enclosure: Brunswick Unit 2, Cycle 20 Startup Report

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NRR

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cc (with enclosure):

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U. S. Nuclear Regulatory Commission
ATTN: Mr. Philip B. O'Bryan, NRC Senior Resident Inspector
8470 River Road
Southport, NC 28461-8869

U. S. Nuclear Regulatory Commission **(Electronic Copy Only)**
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Chair - North Carolina Utilities Commission
P.O. Box 29510
Raleigh, NC 27626-0510

**Brunswick Unit 2, Cycle 20
Startup Report**