



Progress Energy

SEP 28 2006

10 CFR 50.46(a)(3)(ii)

SERIAL: BSEP 06-0102

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

Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2
Docket Nos. 50-325 and 50-324/License Nos. DPR-71 and DPR-62
Annual Report of Emergency Core Cooling System Evaluation Model
Changes and Errors

Reference: Letter from Edward T. O'Neil to the U.S. Nuclear Regulatory Commission,
"Annual Report of Changes and Errors in Emergency Core Cooling System
Evaluation Models," dated August 31, 2005 (ML052500310)

Ladies and Gentlemen:

In accordance with 10 CFR 50.46, "Acceptance criteria for emergency core cooling systems for light-water nuclear power reactors," paragraph (a)(3)(ii), Carolina Power & Light Company (CP&L), now doing business as Progress Energy Carolinas, Inc., is submitting the annual report of the emergency core cooling system (ECCS) evaluation model changes and errors for the Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2. The enclosed report covers the period from August 1, 2005, through August 15, 2006. The previous annual report for BSEP, Units 1 and 2, was submitted by CP&L's letter dated August 31, 2005.

No regulatory commitments are contained in this letter. Please refer any questions regarding this submittal to Mr. Leonard R. Beller, Supervisor - Licensing/Regulatory Programs, at (910) 457-2073.

Sincerely,

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

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WRM/wrm

Enclosure: Summary of Loss-of-Coolant Accident (LOCA) Emergency Core Cooling System (ECCS) Evaluation Model Analysis Changes and Errors

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Summary of Loss-of-Coolant Accident (LOCA) Emergency Core Cooling System (ECCS)
 Evaluation Model Analysis Changes and Errors

Change or Error Notice	Notice or Document Date	Period Covered	Change or Error Description	GE BWR estimated Licensing PCT Impact	Estimated BSEP Licensing PCT Impact and Estimated PCT (GE14)	Cumulative BSEP Licensing PCT Change	Is BSEP Licensing PCT Change Greater Than 50°F?	
							Incremental	Cumulative
10 CFR 50.46 Notification Letter 2006-01	7/28/2006	8/1/2005 through 8/15/2006	Impact of top peaked power shape for small break LOCA analysis.	Generically not reportable	0°F U1 < U2 < 1567°F	0°F	No	No