

Enclosure 1 Contains Sensitive Non-Publicly Available Information,
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Progress Energy

Michael J. Annacone
Vice President
Brunswick Nuclear Plant

10 CFR 50.4
10 CFR 50.71(e)
10 CFR 50.54(a)(3)

AUG 14 2012

SERIAL: BSEP 12-0093

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

Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2
Renewed Facility Operating License Nos. DPR-71 and DPR-62
Docket Nos. 50-325 and 50-324
Updated Final Safety Analysis Report, Revision 23, and Changes to Quality Assurance Program Description

Reference: Letter from Michael J. Annacone (CP&L) to NRC Document Control Desk,
"Updated Final Safety Analysis Report, Revision 22, and Changes to Quality Assurance Program Description," dated August 19, 2010, Serial: BSEP 10-0100

Ladies and Gentlemen:

In accordance with 10 CFR 50.71(e), Carolina Power & Light company (CP&L) is submitting Revision 23 to the Updated Final Safety Analysis Report (UFSAR) for the Brunswick Steam Electric Plant (BSEP), Units 1 and 2. Pages of the UFSAR that have been revised since the last revision have been designated as "Revision 23." Revision 23 incorporates applicable changes made to the facility during the period from April 30, 2010, through April 29, 2012 (i.e., completion of the last Unit 1 refueling outage). This UFSAR revision also includes some changes that have been approved and incorporated since April 29, 2012. The previous revision of the UFSAR was submitted by letter dated August 19, 2010 (i.e., Serial: BSEP 10-0100).

This revision of the UFSAR is being submitted electronically and is contained on the CD-ROM provided in Enclosure 1. The CD-ROM has been prepared using the NRC's document titled *Guidance for Electronic Submissions to the Commission*. The CD-ROM contains the Brunswick UFSAR in Adobe® Acrobat® text-searchable Portable Document Format (PDF). As requested by the NRC's electronic submissions guidance, Enclosure 2 provides a listing of the electronic files that make up this UFSAR submission, including the file name, file size, and sensitivity level.

Enclosure 1 Contains Sensitive Non-Publicly Available Information,
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NRR

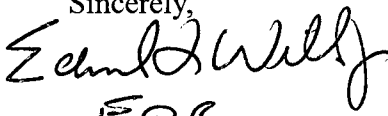
The UFSAR, Revision 23, can be accessed on the CD-ROM by opening the file named "UFSAR.pdf" in the main directory. This PDF file contains Adobe® Acrobat® bookmarks which link to other files that are also part of the UFSAR (i.e., the UFSAR figures and other documents that are incorporated by reference into the UFSAR). These bookmarks will only function if the UFSAR files are maintained in the directory structures established on the CD-ROM. Documents that are incorporated by reference into the UFSAR are identified in Section 1.6 of the UFSAR, and are also included on the CD-ROM. These documents include: (1) the Unit 1 and Unit 2 Technical Requirements Manuals, (2) the Safe Shutdown Analysis Report (i.e., Nuclear Generation Group Calculation BNP-E-9.004), (3) the Fire Protection Program Commitment Document, which is contained in plant procedure 0PLP-01.1, *Fire Protection Commitment Document*, and (4) various plant drawings that are identified in UFSAR Table 1-7 as being incorporated by reference.

The CD-ROM contains information that has been deemed sensitive to BSEP's physical protection. Therefore, CP&L requests that the files on the CD-ROM be withheld from public disclosure in accordance with 10 CFR 2.390(d)(1).

10 CFR 50.54(a)(3) specifies that the changes to the quality assurance program description that do not reduce commitments be submitted to the NRC in accordance with the reporting requirements of 10 CFR 50.71(e). The quality assurance program description is contained in UFSAR Section 17.3, *BNP Quality Assurance Program Description*; Section 13.1, *Organizational Structure of Applicant*; and Table 1-6, *Conformance to NRC Regulatory Guides*. Revision 23 of the UFSAR includes those changes to the quality assurance program description that do not reduce commitments and that have been processed since submittal of the UFSAR, Revision 22.

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

I declare, under penalty of perjury, that the foregoing is true and correct. Executed on August 14, 2012.

Sincerely,

FOR

Michael J. Annacone

WRM/wrm

Enclosures:

1. One (1) CD-ROM labeled *Brunswick Updated FSAR, Revision 23*
**(Sensitive Non-Publicly Available Information, Withhold in Accordance With
10 CFR 2.390)**
2. Listing of Updated FSAR, Revision 23, CD-ROM Files

cc (with enclosures):

U. S. Nuclear Regulatory Commission, Region II
ATTN: Mr. Victor M. McCree, Regional Administrator
245 Peachtree Center Ave, NE, Suite 1200
Atlanta, GA 30303-1257

U. S. Nuclear Regulatory Commission
ATTN: Ms. Michelle P. Catts, NRC Senior Resident Inspector
8470 River Road
Southport, NC 28461-8869

U. S. Nuclear Regulatory Commission **(Electronic Copy Only)**
ATTN: Mrs. Farideh E. Saba (Mail Stop OWFN 8G9A)
11555 Rockville Pike
Rockville, MD 20852-2738

cc (without enclosures):

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

CD-ROM labeled
Brunswick Updated FSAR, Revision 23

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Brunswick Updated FSAR, Revision 23, CD-ROM Files

The Brunswick Updated Final Safety Analysis Report (UFSAR), Revision 23, is comprised of one (1) CD-ROM labeled *Brunswick Updated FSAR, Revision 23*, and contains Adobe® Acrobat® Portable Document Format (PDF) files for the UFSAR chapters, tables, figures, and additional documents that are incorporated by reference into the UFSAR including certain plant drawings. In addition, this CD-ROM includes a directory titled "Index" which contains the Adobe® Acrobat® files needed to perform full-text searches, using the Adobe® Acrobat® Reader software, of all the PDF files contained on this CD-ROM. A listing of the files contained on this CD-ROM is provided below.

File Listing for CD-ROM labeled *Brunswick Updated FSAR, Revision 23*:

MAIN FILES

| File Name | File Size (Bytes) | File Status |
|------------------|--------------------------|-------------------------|
| Index.pdx | 657 bytes | Not publicly available. |
| UFSAR.pdf | 18539674 bytes | Not publicly available. |

DRAWINGS

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