



NOV 09 2010

SERIAL: BSEP 10-0126
TSC-2010-01 & TSC-2010-02

10 CFR 50.90

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
Additional Information Supporting License Amendment Requests
- Mechanical Design Report for Brunswick ATRIUM 10XM Fuel
Assemblies and Reload Safety Analysis Report for Brunswick Unit 2
Cycle 20 (NRC TAC Nos. ME3856, ME3857, ME3858, and ME3859)

References:

1. Letter from Michael J. Annacone to the U.S. Nuclear Regulatory Commission (Serial: BSEP 10-0052), "Request for License Amendments - Addition of Analytical Methodology Topical Report to Technical Specification 5.6.5, "Core Operating Limits Report (COLR)," dated April 29, 2010 (ADAMS Accession Number ML101310388)
2. Letter from Michael J. Annacone to the U.S. Nuclear Regulatory Commission (Serial: BSEP 10-0057), "Request for License Amendment - Addition of Analytical Methodology Topical Report to Technical Specifications 5.6.5, "Core Operating Limits Report (COLR)," dated April 29, 2010 (ADAMS Accession Number ML101310389)

Ladies and Gentlemen:

By letters dated April 29, 2010 (i.e., References 1 and 2), Carolina Power & Light Company (CP&L), now doing business as Progress Energy Carolinas, Inc., requested license amendments to revise the Technical Specifications (TS) for the Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2. The proposed license amendments revise Technical Specification 5.6.5.b by adding: (1) AREVA Topical Report ANP-10298PA, *ACE/TRIUM 10XM Critical Power Correlation*, Revision 0, March 2010, and (2) AREVA Topical Report BAW-10247PA, *Realistic Thermal-Mechanical Fuel Rod Methodology for Boiling Water Reactors*, Revision 0, April 2008, to the list of analytical methods that have been reviewed and approved by the NRC for determining core operating limits.

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In these requests, CP&L stated that the Mechanical Design Reports and Reload Safety Analysis Report would be provided to the NRC, for information, in November 2010.

The mechanical design report (i.e., ANP-2948P, Revision 0, *Mechanical Design Report for Brunswick ATRIUM 10XM Fuel Assemblies*, dated October 2010) has been completed and is provided in Enclosure 1. ANP-2948P, Revision 0, contains information that AREVA considers to be proprietary as defined by 10 CFR 2.390. AREVA, as the owner of the proprietary information, has executed the affidavit provided in Enclosure 2, which identifies that the enclosed proprietary information has been handled and classified as proprietary, is customarily held in confidence, and has been withheld from public disclosure. AREVA requests that the enclosed proprietary information be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390. A non-proprietary version of ANP-2948P, Revision 0 (i.e., ANP-2948NP, Revision 0), is provided in Enclosure 3.

In addition, the reload safety analysis report (i.e., ANP-2956(P), Revision 0, *Brunswick Unit 2 Cycle 20 Reload Safety Analysis*, dated October 2010) has been completed and is provided in Enclosure 4. ANP-2956(P), Revision 0, contains information that AREVA considers to be proprietary as defined by 10 CFR 2.390. AREVA, as the owner of the proprietary information, has executed the affidavit provided in Enclosure 5, which identifies that the enclosed proprietary information has been handled and classified as proprietary, is customarily held in confidence, and has been withheld from public disclosure. AREVA requests that the enclosed proprietary information be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390. A non-proprietary version of ANP-2956(P), Revision 0 (i.e., ANP-2956(NP), Revision 0), is provided in Enclosure 6.

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

I declare, under penalty of perjury, that the foregoing is true and correct. Executed on November 9, 2010.

Sincerely,



Michael J. Annacone

WRM/wrm

Enclosures:

1. AREVA Report ANP-2948P, Revision 0, *Mechanical Design Report for Brunswick ATRIUM 10XM Fuel Assemblies*, dated October 2010 **(Proprietary Information – Withhold from Public Disclosure in Accordance With 10 CFR 2.390)**
2. AREVA Affidavit Regarding Withholding ANP-2948P, Revision 0, from Public Disclosure
3. AREVA Report ANP-2948NP, Revision 0, *Mechanical Design Report for Brunswick ATRIUM 10XM Fuel Assemblies*, dated October 2010
4. AREVA Report ANP-2956(P), Revision 0, *Brunswick Unit 2 Cycle 20 Reload Safety Analysis*, dated October 2010 **(Proprietary Information – Withhold from Public Disclosure in Accordance With 10 CFR 2.390)**
5. AREVA Affidavit Regarding Withholding ANP-2956(P), Revision 0, from Public Disclosure
6. AREVA Report ANP-2956(NP), Revision 0, *Brunswick Unit 2 Cycle 20 Reload Safety Analysis*, dated October 2010

cc (with all enclosures):

U. S. Nuclear Regulatory Commission, Region II
ATTN: Mr. Luis A. Reyes, Regional Administrator
245 Peachtree Center Avenue, NE, Suite 1200
Atlanta, GA 30303-1257

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)**
ATTN: Mrs. Farideh E. Saba (Mail Stop OWFN 8G9A)
11555 Rockville Pike
Rockville, MD 20852-2738

cc (with only Enclosures 2, 3, 5 and 6):

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

Mr. W. Lee Cox, III, Section Chief
Radiation Protection Section
North Carolina Department of Environment and Natural Resources
1645 Mail Service Center
Raleigh, NC 27699-1645

BSEP 10-0126
Enclosure 2

AREVA Affidavit Regarding Withholding
ANP-2948P, Revision 0,
from Public Disclosure

requested qualifies under 10 CFR 2.390(a)(4) "Trade secrets and commercial or financial information."

6. The following criteria are customarily applied by AREVA NP to determine whether information should be classified as proprietary:

- (a) The information reveals details of AREVA NP's research and development plans and programs or their results.
- (b) Use of the information by a competitor would permit the competitor to significantly reduce its expenditures, in time or resources, to design, produce, or market a similar product or service.
- (c) The information includes test data or analytical techniques concerning a process, methodology, or component, the application of which results in a competitive advantage for AREVA NP.
- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for AREVA NP in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by AREVA NP, would be helpful to competitors to AREVA NP, and would likely cause substantial harm to the competitive position of AREVA NP.

The information in the Document is considered proprietary for the reasons set forth in paragraphs 6(b), 6(d) and 6(e) above.

7. In accordance with AREVA NP's policies governing the protection and control of information, proprietary information contained in this Document have been made available, on a limited basis, to others outside AREVA NP only as required and under suitable agreement providing for nondisclosure and limited use of the information.

8. AREVA NP policy requires that proprietary information be kept in a secured file or area and distributed on a need-to-know basis.

9. The foregoing statements are true and correct to the best of my knowledge, information, and belief.

[Handwritten Signature]

SUBSCRIBED before me this 27th
day of October, 2010.

[Handwritten Signature]

Susan K. McCoy
NOTARY PUBLIC, STATE OF WASHINGTON
MY COMMISSION EXPIRES: 1/10/12

