



William R. Gideon  
Vice President  
Brunswick Nuclear Plant  
P.O. Box 10429  
Southport, NC 28461

o: 910.457.3698

DEC 17 2014

Serial: BSEP 14-0121

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  
Completion of Activities Required for Entry Into the Period of Extended Operation

References:

1. Letter from Maurice Heath (NRC) to James Scarola (CP&L), *Issuance of Renewed Facility Operating License Nos. DPR-71 and DPR-62 for Brunswick Steam Electric Plant, Units 1 and 2*, dated June 26, 2006, ADAMS Accession Nos. ML061660358 and ML061660378
2. Letter from James Scarola (CP&L) to the U.S. Nuclear Regulatory Commission (Serial: BSEP 05-0148), *Revised License Renewal Commitment List*, dated December 6, 2005, ADAMS Accession No. ML053500114
3. Letter from Christopher Gratton (NRC) to Michael J. Annacone (CP&L), *Brunswick Steam Electric Plant, Unit 2 - Approval of a Regulatory Commitment Change Regarding Replacement of Unit 2 Core Plate Plugs*, dated February 14, 2013, ADAMS Accession No. ML13037A408

Ladies and Gentlemen:

On June 26, 2006, the NRC approved the renewal of the operating licenses of the Brunswick Steam Electric Plant (BSEP), Units 1 and 2, for an additional 20 years (i.e., Reference 1). Renewed License Nos. DPR-71 and DPR-62 included license conditions 2.N (i.e., for Unit 1) and 2.K (i.e., for Unit 2), which require certain future activities, described in the Updated Final Safety Analysis Report (UFSAR), to be completed prior to the period of extended operation. The Unit 2 activities must be completed no later than December 27, 2014, and the Unit 1 activities must be completed no later than September 8, 2016. Duke Energy Progress, Inc., shall notify the NRC in writing when implementation of these activities is complete and can be verified by NRC inspection.

The purpose of this letter is to notify the NRC that Duke Energy has completed implementation of those activities required for entry into the period of extended operation for both Units 1 and 2; implementation of these activities can be verified by inspection.

As approved by the NRC, two commitments will be completed after entry into the period of extended operation.

A001  
MRL

1. Commitment 22 in Reference 2

Commitment 22 stated, in part:

...loss of preload due to stress relaxation of the Unit 2 spring-loaded core plate plugs will be managed by replacing the plugs. Any evaluation to extend the service life of the spring-loaded core plate plugs will be submitted to the NRC for review and approval...

Core plate plug replacement was originally committed to be completed prior to the period of extended operation. In a letter dated February 14, 2013 (i.e., Reference 3), this commitment was revised to state:

Replacement of the spring-loaded core plate plugs installed in Unit 2 will be completed during the refueling outage currently scheduled for 2013. However, if installation problems preclude completion of the core plate plug replacements during the 2013 refueling outage, replacement of the Unit 2 spring-loaded core plate plugs may be deferred for completion during the refueling outage currently scheduled for 2015.

The Unit 2 core plate plugs are being replaced during the refueling outage currently scheduled to begin in February, 2015.

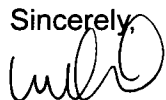
2. Commitment 27 in Reference 2

Commitment 27 states:

P-T limit curves for use during the periods of extended operation of BSEP Units 1 and 2 will be submitted for NRC review and approval in accordance with the 10 CFR 50.90 license amendment process at least one year prior to expiration of the 32 EFPY P-T limit curves that are currently approved in the BSEP Technical Specifications. Also, if an exemption request to permit the use of ASME Code Case N-640 is required as part of the submittal, an exemption request will be included as part of the license amendment request.

Revised Pressure and Temperature Limit Curves are currently scheduled for submittal in the fourth quarter of 2016.

This letter contains no regulatory commitments. Please refer any questions regarding this submittal to Mr. Lee Grzeck, Manager – Regulatory Affairs, at (910) 457-2487.

Sincerely,  


William R. Gideon

MAT/mat

cc:

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. April M. Scarbeary, NRC Senior Resident Inspector  
8470 River Road  
Southport, NC 28461-8869

U. S. Nuclear Regulatory Commission  
ATTN: Mr. Andrew Hon (Mail Stop OWFN 8G9A) **(Electronic Copy Only)**  
11555 Rockville Pike  
Rockville, MD 20852-2738

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