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August 11, 2016

Serial: BSEP 16-0069

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 25

- References:
1. Letter from George T. Hamrick (Duke Energy) to NRC Document Control Desk, "Updated Final Safety Analysis Report, Revision 24, and Changes to Quality Assurance Program Description," dated August 14, 2014.
  2. NRC Regulatory Issue Summary 2015-17, *Review and Submission of Updates to Final Safety Analysis Reports, Emergency Preparedness Documents, and Fire Protection Documents*, dated December 23, 2015, ADAMS Accession Number ML15321A400.
  3. Letter from Andrew Hon (NRC) to William R. Gideon (Duke Energy), *Issuance of Amendment Regarding Transition to a Risk-Informed, Performance-Based Fire Protection Program in Accordance With 10 CFR 50.48(c) (TAC Nos. ME9623 and ME9624)*, dated January 28, 2015, ADAMS Accession Number ML14310A808.
  4. Letter from Regis T. Repko (Duke Energy) to NRC Document Control Desk, *Implementation of a Duke Energy Common Quality Assurance Topical Report*, dated January 19, 2016, ADAMS Accession Number ML16019A031.

Ladies and Gentlemen:

In accordance with 10 CFR 50.71(e), Duke Energy Progress, Inc. (Duke Energy), is submitting Revision 25 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 25." Revision 25 incorporates applicable changes made to the facility during the period from April 12, 2014, through March 23, 2016 (i.e., completion of the last Unit 1 refueling outage). This UFSAR revision also includes some changes that have been approved and incorporated since March 23, 2016. The previous revision of the UFSAR was submitted by letter dated August 14, 2014 (i.e., Reference 1).

This revision of the UFSAR is being submitted electronically, and the UFSAR has been marked for redaction as indicated in Reference 2, using the guidance specified in SECY-04-0191, *Withholding Sensitive Unclassified Information Concerning Nuclear Power Reactors from Public*

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*Disclosure.* Enclosure 1 to this letter provides a copy of the UFSAR, on CD-ROM, which has been redacted for public use. Enclosure 2 provides the non-public use version of the UFSAR, on CD-ROM, which is not redacted. Duke Energy has marked the information as "Security-Related Information – Withhold Under 10 CFR 2.390."

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 3 provides a listing of the electronic files that make up this UFSAR submission, including the file name, file size, and sensitivity level.

The UFSAR, Revision 25, 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.

By Reference 3, the NRC approved transition to a risk-informed performance-based fire protection program based on National Fire Protection Association Standard 805 (NFPA 805). Based on the change to the plant's fire protection licensing basis, two documents, the Safe Shutdown Analysis Report (i.e., Nuclear Generation Group Calculation BNP-E-9.004) and the Fire Protection Program Commitment Document (i.e., formerly in plant procedure OPLP-01.1, *Fire Protection Commitment Document*), are no longer considered to be incorporated by reference in the UFSAR.


By Reference 4, Duke Energy informed the NRC of the adoption of a common, fleet Quality Assurance Topical Report. The Quality Assurance Topical Report supersedes the quality assurance program description previously contained in UFSAR Section 17.3, *BNP Quality Assurance Program Description*. Documents that are incorporated by reference into the UFSAR are identified in Section 1.6 of the UFSAR, and are also included on the UFSAR CD-ROM. These documents now include: (1) the Unit 1 and Unit 2 Technical Requirements Manuals, (2) the Duke Energy Quality Assurance Topical Report, and (3) various plant drawings that are identified in UFSAR Table 1-7 as being incorporated by reference.

No regulatory commitments are contained in this letter.

Please refer any questions regarding this submittal to Mr. Lee Grzeck, Manager – Regulatory Affairs, at (910) 457-2487.

I declare, under penalty of perjury, that the foregoing is true and correct. Executed on August 11, 2016.

Sincerely,



William R. Gideon

Enclosures:

1. CD-ROM labeled *Brunswick Updated FSAR, Revision 25* (**Publicly Available Information**)
2. CD-ROM labeled *Brunswick Updated FSAR, Revision 25* (**Sensitive Non-Publicly Available Information, Withhold in Accordance With 10 CFR 2.390**)
3. Listing of Updated FSAR, Revision 25, CD-ROM Files

cc (with all enclosures):

U.S. Nuclear Regulatory Commission, Region II  
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Listing of Updated FSAR, Revision 25, CD-ROM Files

The Brunswick Updated Final Safety Analysis Report (UFSAR), Revision 25, is comprised of one (1) CD-ROM labeled *Brunswick Updated FSAR, Revision 25*, containing Adobe® Acrobat® Portable Document Format (PDF) files for the UFSAR chapters, tables, figures, drawings, and additional documents that are incorporated by reference into the UFSAR. The publicly available version of the UFSAR is provided as Enclosure 1. The non-publicly available version of the UFSAR is provided as Enclosure 2.

Each CD-ROM includes a directory titled "Index," which contains the Adobe® Acrobat® files needed to perform full-text searches of all the PDF files contained on this CD-ROM using the Adobe® Acrobat® Reader software.

A listing of the files contained on each CD-ROM is provided below.

File Listing for publicly available CD-ROM labeled *Brunswick Updated FSAR, Revision 25*  
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INDEX_R.pdx	417 bytes	Publicly available.
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