

~~SECURITY RELATED INFORMATION~~
~~WITHHOLD UNDER 10 CFR 2.390(d)~~
UPON REMOVAL OF ENCLOSURE 2 THIS LETTER IS UNCONTROLLED



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August 11, 2022
Serial: RA-22-0190

10 CFR 50.71(e)
10 CFR 54.37(b)
10 CFR 50.59(d)
10 CFR 72.48(d)

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

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

**SUBJECT: Submittal of Updated Final Safety Analysis Report (UFSAR) Revision 28,
10 CFR 54.37 Update, Technical Requirements Manuals, Quality Assurance
Program Description, Technical Specification Bases, 10 CFR 50.59 and
10 CFR 72.48 Evaluation Summaries, and Commitment Changes**

Ladies and Gentlemen:

Pursuant to 10 CFR 50.71(e), Duke Energy Progress, LLC (Duke Energy) hereby submits Revision 28 to the UFSAR for the Brunswick Steam Electric Plant (BNP), Unit Nos. 1 and 2. Enclosure 1 provides a copy of the UFSAR that has been redacted for public use. Enclosure 2 provides UFSAR pages that contain sensitive information to be withheld from public disclosure per 10 CFR 2.390(d). Changes from the previous revision are identified by vertical lines in the margins of the pages that are indicated as Revision 28. Revision 28 incorporates applicable changes made to the facility through June 8, 2022.

10 CFR 54.37(b) requires that, after the renewed license is issued, the UFSAR update must include any systems, structures, and components (SSCs) newly identified that would have been subject to an aging management review or evaluation of time-limited aging analysis in accordance with 10 CFR 54.21. The UFSAR update must describe how the effects of aging are managed such that the intended function(s) in 10 CFR 54.4(b) will be effectively maintained during the period of extended operation. Revision 28 does not include any new aging management programs in Chapter 18.

Documents that are incorporated by reference into the UFSAR are identified in Section 1.6 of the UFSAR and are also included in this letter. Enclosure 3 contains the Unit 1 Technical Requirements Manuals (TRM), Enclosure 4 contains the Unit 2 TRM, and Enclosure 5 contains the Duke Energy Quality Assurance Program Description.

Pursuant to Technical Specification (TS) 5.5.10 for BNP, Unit Nos. 1 and 2, Duke Energy is providing the latest revisions of the TS Bases for each BNP unit. Enclosure 6 contains the Unit 1

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TS Bases, which includes those changes that have been incorporated since the last submittal to the NRC (i.e., Revisions 111 through 120) and Enclosure 7 contains the Unit 2 TS Bases, which includes those changes that have been incorporated since the last submittal to the NRC (i.e., Revisions 110 through 120).

Pursuant to 10 CFR 50.59(d)(2) and 10 CFR 72.48(d)(2), Duke Energy is providing a report summarizing the 10 CFR 50.59 and 10 CFR 72.48 evaluations of changes, tests, and experiments implemented during the period from August 1, 2020, to July 31, 2022. The 10 CFR 50.59 Evaluation Summary Report is provided in Enclosure 8. No 10 CFR 72.48 evaluations were performed during this period.

A Commitment Change Summary Report is submitted with the 10 CFR 50.71(e) required UFSAR revision. Enclosure 9 provides a summary of changes to NRC commitments made during the period from August 1, 2020, to July 31, 2022 requiring NRC notification.

No new regulatory commitments are contained in this submittal.

Please refer any questions concerning this letter and its enclosures to Ryan Treadway, Director - Nuclear Fleet Licensing, at (980) 373-5873.

I declare, under penalty of perjury, that the foregoing is true and correct. Executed on August 11, 2022.

Sincerely,



John A. Krakuszeski
Vice President, Brunswick Nuclear Plant

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Enclosures:

1. [Brunswick Steam Electric Plant UFSAR Revision 28 – Redacted Version](#)
2. [Brunswick Steam Electric Plant UFSAR Revision 28 – Withheld Pages](#)
3. [Unit 1 Technical Requirements Manual](#)
4. [Unit 2 Technical Requirements Manual](#)
5. [Duke Energy Quality Assurance Program Description](#)
6. [Unit 1 Technical Specification Bases](#)
7. [Unit 2 Technical Specification Bases](#)
8. [10 CFR 50.59 Evaluation Summary Report](#)
9. [Commitment Change Summary Report](#)

cc:

L. Dudes, USNRC, Region II Regional Administrator
L. Haeg, USNRC NRR Project Manager for BNP
G. Smith, USNRC Senior Resident Inspector for BNP

(without Enclosure 2)

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D. Crowley (david.crowley@dhhs.nc.gov), NC DHHS, Radiation Protection Section