



APR 24 2017

10 CFR 50.4

Serial: BSEP 17-0042

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

Subject: Brunswick Steam Electric Plant, Unit No. 2
Renewed Facility Operating License No. DPR-62
Docket No. 50-324
Application of Dissimilar Metal Weld Full Structural Overlay on Reactor Pressure Vessel Nozzle N9 (CAC No. MF9561)

- References:
1. Letter from William R. Gideon (Duke Energy) to the U.S. Nuclear Regulatory Commission Document Control Desk, *Proposed In-service Inspection Alternative for Application of Dissimilar Metal Weld Full Structural Overlay*, dated April 6, 2017, ADAMS Accession Number ML17096A619
 2. Letter from William R. Gideon (Duke Energy) to the U.S. Nuclear Regulatory Commission Document Control Desk, *Application of Dissimilar Metal Weld Full Structural Overlay on Reactor Pressure Vessel Nozzle N9 (CAC No. MF9561)*, dated April 12, 2017

Ladies and Gentlemen:

By letter dated April 6, 2017 (i.e., Reference 1), Duke Energy Progress, LLC (Duke Energy), proposed a 10 CFR 50.55a(z)(1) alternative to apply a full structural weld overlay (FSWOL) to the reactor pressure vessel N9 nozzle-to-end cap dissimilar metal weld for the Brunswick Steam Electric Plant (BSEP), Unit No. 2.

Within 14 days of completion of the final ultrasonic testing examination of the FSWOL, Duke Energy committed to provide: (1) a listing of indications detected in the overlaid weld and (2) disposition of all indications and, if possible, the type and nature of the indications. Duke Energy has completed ultrasonic testing examination of the FSWOL on the N9 nozzle-to-end cap weld. No recordable indications were detected during the examination.

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

Sincerely,

Bryan B. Wooten
Director – Organizational Effectiveness
Brunswick Steam Electric Plant

WRM/wrm

cc: U.S. Nuclear Regulatory Commission, Region II
ATTN: Ms. Catherine Haney, Regional Administrator
245 Peachtree Center Ave, NE, Suite 1200
Atlanta, GA 30303-1257

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

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

Chair - North Carolina Utilities Commission **(Electronic Copy Only)**
4325 Mail Service Center
Raleigh, NC 27699-4300
swatson@ncuc.net

Mr. Cliff Dautrich, Bureau Chief
North Carolina Department of Labor
Boiler Safety Bureau
1101 Mail Service Center
Raleigh, NC 27699-1101