

AUG 0 6 2013

Serial: BSEP 13-0089

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

Subject:

Brunswick Steam Electric Plant, Unit No. 2

Docket No. 50-324

Inservice Inspection Program Owner's Activity Report for Unit 2 Refueling

Outage 20

Ladies and Gentlemen:

Duke Energy Progress, Inc., formerly known as Carolina Power & Light Company (CP&L), is enclosing an American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Form OAR-1, Owner's Activity Report for the Brunswick Steam Electric Plant (BSEP), Unit No. 2. The report covers inspection activities performed during BSEP Unit 2 Refueling Outage 20 (i.e., designated as B221R1) for the second inspection period. The report has been prepared and is being submitted in accordance with ASME Code Case N-532-4.

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.

Sincerely,

Annette H. Pope

Manager - Organizational Effectiveness

Brunswick Steam Electric Plant

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WRM/wrm

Enclosure: Form OAR-1 Owner's Activity Report for B221R1

cc (with enclosure):

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: Mr. Christopher Gratton (Mail Stop OWFN 8G9A) 11555 Rockville Pike Rockville, MD 20852-2738

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 P.O. Box 29510 Raleigh, NC 27626-0510

Mr. Jack M. Given, Jr., Bureau Chief North Carolina Department of Labor Boiler Safety Bureau 1101 Mail Service Center Raleigh, NC 27699-1101 Form OAR-1 Owner's Activity Report for B221R1

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Form OAR-1 OWNER'S ACTIVITY REPORT

Report Number: B221R1					
Plant: Brunswick Steam Electric Plant					
Unit No.: 2 Commercial Service Date: November 1975 Refueling Outage No.: B221R1					
Current Inspection Interrval: Fourth					
Current Inspection Period: Second Period of the Fourth Interval					
Edition and Addenda of Section XI applicable to the inspection plans: 2001 edition with 2003 addenda					
Date and Revision of Inspection Plans: Fourth Interval Revision 2 5/21/2013					
Edition and Addenda of Section XI applicable to Repair/Replacement activities, if different than the Inspection Plans: None					
Code Cases used: <u>N-532-4, N-460, and N-663</u>					
CERTIFICATE OF CONFORMANCE					
I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the Repair/Replacement activities and evaluations supporting the completion of 8221R1 (Refueling Outage Number) conform to the requirements of Section XI. Signed: Suppose Suppose Suppose Suppose Date:					
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Chround—and employed by Assault Simployed of HARTFOR Connectical have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions 181399 NC 1559 A NT National Board, State, Province, and Endorsements Date: 31 Tul 2413					

FORM OAR-1 OWNER'S ACTIVITY REPORT

TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE

Examination Category and Item Number	Item Description	Evaluation Description
Category B-A, Item B1.30	Shell to Flange Weld 2B11-RPV-F	Evaluated per ASME IWB-3600 in outage B220R1 and re-inspected this outage. Indication most likely fabrication induced. Acceptable as-is through the end of plant licensed life.

TABLE 2
ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
1	2-B21-F022B	Perform guide pad modification	4/7/13	1490275-01
1	2-B32-F030	Replace valve leaks by seat	4/16/13	1823432-01
1	2-B11-CRD(26-27)	Replace drive and bolting	4/12/13	1930420-13
1	2-B32-F029	Replace valve leaks by seat	4/4/13	1930420-01