



Progress Energy

10 CFR 50.55a

JUN 17 2011

SERIAL: BSEP 11-0060

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
Inservice Inspection Program Owner's Activity Report for Unit 2 Refueling
Outage 19

Ladies and Gentlemen:

Enclosed is 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 19 (i.e., designated as B220R1) for the first inspection period of the fourth 10-year inspection interval. 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, Acting Supervisor - Licensing/Regulatory Programs, at (910) 457-2487.

Sincerely,

Phyllis N. Mentel
Manager - Support Services
Brunswick Steam Electric Plant

Document Control Desk
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WRM/wrm

Enclosure: Form OAR-1 Owner's Activity Report for B220R1

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. Philip B. O'Bryan, NRC Senior Resident Inspector
8470 River Road
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U. S. Nuclear Regulatory Commission **(Electronic Copy Only)**
ATTN: Mrs. Farideh E. Saba (Mail Stop OWFN 8G9A)
11555 Rockville Pike
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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

BSEP 11-0060
Enclosure

Form OAR-1 Owner's Activity Report
for B220R1

Form OAR-1 OWNER'S ACTIVITY REPORT

Report Number: B220R1
Plant: Brunswick Steam Electric Plant
Unit No.: 2 Commercial Service Date: November 1975 Refueling Outage No.: B220R1
Current Inspection Interval: Fourth
Current Inspection Period: First 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 5 Feb. 2011
Edition and Addenda of Section XI applicable to Repair/Replacement activities, if different than the Inspection Plans: None
Code Cases used: N-532-4, N-460, N-613-1, N-624, N-648-1

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 B220R1 conform to the requirements of Section XI.

Signed: John D Baker
(Refueling Outage Number)
(Owner or Owner's Designee)

Date: 5/27/11

CERTIFICATE OF INSERVICE INSPECTION

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 CAROLINA and employed by HSB GLOBAL STANDARDS of HARTFORD CONNECTICUT Have inspected the items described in Repair/Replacement Plan number B220R1, and state that, to the best of my knowledge and belief, the Owner has performed all the activities described in the Repair/Replacement Plan in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector no his employer makes any warranty, expressed or implied, concerning the activities described in the Repair/Replacement Plan. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection

[Signature]
Inspector's Signature

Commissions NB13399 NL1559 A, N, I
National Board, State, Province, and Endorsements

Date: 31 MAY 2011

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	Indication most likely fabrication induced. Acceptable as-is per ASME IWB-3600 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-F028B	Install guide pad	4/09/2009	1382252-01
1	2-B21-F022C	Install guide pad	4/2/2011	1490276-01
1	2-B21-F022D	Install guide pad	4/2/2011	1490271-01
1	MSIV Disk-Piston	Refurbish	8/4/2010	1497583-01
1	2-B11-CRD(18-43)	Replace CRD	3/25/2011	1653026-01
1	2-B32-28-RS-A	Replace Flange	4/1/2011	1739778-05
1	2-E11-F050A	Replace nuts	2/5/2010	1629393-03
1	2-E11-F050A	Replace nuts	3/27/2011	1629393-19
2	1-C11-125(46-39)	Replace CRD Accumulator	6/2/2009	1527655-01
2	1-C11-125(14-19)	Replace CRD Accumulator	3/24/2011	1528751-01
2	2-E11-F046D	Replace valve and elbow	4/3/2011	1489696-01
2	2-VA-2A-BPV-RB	Replace valve	4/8/2011	1531108-01