



Carolina Power & Light Company
P.O. Box 10429
Southport, NC 28461-0429

OCT 23 2000

SERIAL: BSEP 00-0144

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

**BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62
INSERVICE INSPECTION SUMMARY REPORTS**

Gentlemen:

This letter submits the final inservice inspection summary reports for the third period of the second 10-year inservice inspection interval for Carolina Power & Light (CP&L) Company's Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2. A copy of the Owner's Activity Report for BSEP, Unit 1 is provided in Enclosure 1; a copy of the Owner's Activity Report for BSEP, Unit 2 is provided in Enclosure 2.

American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Case N-532, "Alternate Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission as Required by IWA-4000 and IWA-6000," requires that an Owner's Activity Report (i.e., Form OAR-1) be prepared and certified upon completion of each refueling outage. The code case further specifies that each Form OAR-1, prepared during an inspection period, be submitted following the end of the inspection period. On May 21, 1996, the NRC approved the use of ASME Code Case N-532 for BSEP, Units 1 and 2. At the time of this approval, BSEP was in the third period of the second 10-year inservice inspection interval (i.e., the third period began on March 11, 1994, and ended on May 10, 1998).

Prior to the approval to use ASME Code Case N-532, inservice inspection summary (i.e., Form NIS-1) reports were submitted within 90 days following each unit's refueling outages as specified by Subsection IWA-6230 of the ASME Code, Section XI. Therefore, the enclosed Owner's Activity Reports cover only the remaining portion of the third period of the second 10-year interval. The previously submitted Form NIS-1 inservice inspection summary reports for the third period of the second 10-year interval were provided by CP&L's letters dated September 22, 1994, as amended January 5, 1995 (i.e., Refueling Outage 10 for Unit 2); August 16, 1995, as amended August 21, 1997 (i.e., Refueling Outage 9 for Unit 1); and June 6, 1996 (i.e., Refueling Outage 11 for Unit 2).

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No regulatory commitments are contained in this letter. Please refer any questions regarding this submittal to Mr. Leonard R. Beller, Supervisor - Licensing, at (910) 457-2073.

Sincerely,



David C. DiCello
Manager - Regulatory Affairs
Brunswick Steam Electric Plant

WRM/wrm

Enclosures:

1. Brunswick Steam Electric Plant, Unit 1, Owner's Activity Report For Period Covering End Of 1996 Refueling Outage To End Of Second Inspection Interval
2. Brunswick Steam Electric Plant, Unit 2, Owner's Activity Report, OAR-1 Report For 1997 Refueling Outage To End of Second Inspection Interval

cc (with enclosures):

U. S. Nuclear Regulatory Commission, Region II
ATTN: Mr. Luis A. Reyes, Regional Administrator
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, GA 30303-8931

U. S. Nuclear Regulatory Commission
ATTN: Mr. Theodore A. Easlick, NRC Senior Resident Inspector
8470 River Road
Southport, NC 28461-8869

U. S. Nuclear Regulatory Commission
ATTN: Mr. Donnie J. Ashley (Mail Stop OWFN 8G9)
11555 Rockville Pike
Rockville, MD 20852-2738

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**Division of Boiler and Pressure Vessel
North Carolina Department of Labor
ATTN: Mr. Jack Given, Assistant Director of Boiler & Pressure Vessels
4 West Edenton Street
Raleigh, NC 27601-1092**

cc (without enclosures):

**Ms. Jo A. Sanford
Chair - North Carolina Utilities Commission
P.O. Box 29510
Raleigh, NC 27626-0510**

ENCLOSURE 1

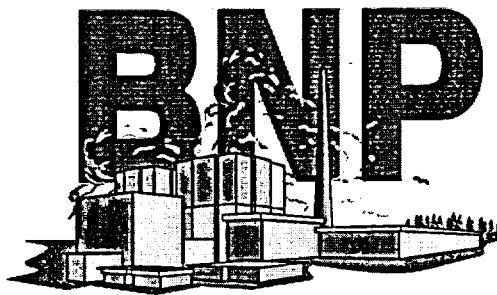
**BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62
INSERVICE INSPECTION SUMMARY REPORTS**

**Brunswick Steam Electric Plant, Unit 1,
Owner's Activity Report
For Period Covering End Of 1996 Refueling Outage
To End Of Second Inspection Interval**



**CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT**

UNIT 1



**OWNER'S ACTIVITY REPORT
FOR
PERIOD COVERING END OF 1996 REFUELING
OUTAGE TO END OF SECOND INSPECTION
INTERVAL**

REVISION 01

Prepared By: L. D. D. Healey Date 10/9/00
NDE Program Manager

Reviewed By: Raymond A. Hume Date 10/9/00
Authorized Nuclear Inservice Inspector

Revision Summary

- Change in coverpage to more clearly specify time frame covered by the report.
- Revised introduction for clarify time frame covered by OAR-1 Report.
- Added WRJO 97-AQUA2, 97-ACMG1 to Table 3.

INTRODUCTION

This report represents a summary of the Inservice Inspection (ISI) activities performed at the Carolina Power and Light Company's Brunswick Steam Electric Plant (BSEP) Unit 1 from the end of the 1996 refueling outage to the end of the Spring 1998 refueling outage.

The Spring 1998 refueling outage (B112R1) was the last outage of the third inspection period of the 2nd Inspection Interval.

Examinations were performed to satisfy the requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Inspection Program B, 1980 Edition through the Winter 1981 addenda.

In accordance with requirements of Code Case N-532 which has been approved for use at the Brunswick Station, enclosed is the Owners Activity Report (OAR-1 Report).

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report number 1-98-B112R1 revision 1

Owner Carolina Power & Light Company, PO Box 1551, Raleigh, North Carolina
(Name and Address of Owner)

Plant Brunswick Steam Electric Plant, PO Box 10429, Southport, North Carolina
(Name and Address of Plant)

Unit No. 1 Commercial Service Date 3/17/77 Refueling outage no. B112R1
(if applicable)

Current inspection interval 2nd
(1st, 2nd, 3rd, 4th, other)

Current inspection period 3rd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plan 1980 edition through Winter 1981 addenda

Date and revision of inspection plan 5/6/98 revision 39 to ENP-16

Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan NA

CERTIFICATE OF CONFORMANCE

I certify that the statements made in this Owner's Activity Report are correct and that the examinations, tests, repairs, replacements, evaluations and corrective measures represented by this report conform to the requirements of Section XI.

Certificate of Authorization No. NA Expiration Date NA
(if applicable)

Signed [Signature] NDE Program Manager Date 10/9/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the under signed, 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 H.S.B. I & S, Inc. of HARTFORD CT. have inspected the items described in the Owner's Activity Report during the period 11/7/96 to 5/10/98 and state that to the best of my knowledge and belief, the Owner has performed all of the 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 warrantee, expressed or implied, concerning the tests, repairs, replacements, evaluations and corrective measures described this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for a personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB-9557-A, M, E, B, C-NC/1833
Inspector's Signature National Board, State, Province and Endorsements

Date 10/7/00

TABLE 1

ABSTRACT OF EXAMINATIONS AND TESTS

Examination Category	Total Examinations Required for the Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) for the Period	Total Examinations Credited (%) to Date for Interval	Remarks
B-A	32	14	44	100	
B-B	NA	NA	NA	NA	This category not applicable to BNP.
B-D	79	48	61	100	Deferrals permitted to 3 rd period by Code
B-E	46	23	50	100	Examined every refuel per PT -80.1
B-F	38	17	45	100	
B-G-1	338	338	100	100	Deferrals permitted to 3 rd period by Code
B-G-2	NA	NA	NA	NA	Per Code Case N-426 examination only required for components selected under Categories B-J, B-M-2 and B-L-2
B-H	7	3	43	100	
B-J	117	52	44	100	
B-K-1	39	16	41	100	Per Code Case N-509 only 10% sample required.
B-L-1	NA	NA	NA	NA	This category not applicable to BNP.
B-L-2	NA	NA	NA	NA	Per relief request RR-4 only required if pump disassembled for maintenance.
B-M-1	NA	NA	NA	NA	This category not applicable to BNP.
B-M-2	NA	NA	NA	NA	Per relief request RR-3 only required if valve is disassembled for maintenance.
B-N-1	3	1	33	100	
B-N-2	1	1	100	100	Deferral permitted to 3 rd period by Code
B-N-3	NA				
B-O	8	8	37	100	
B-P	3	1	33	100	
C-A	3	1	33	100	
C-B	1	0	0	100	
C-C	22	7	32	100	Per Code Case N509, only 10% sample required.

Examination Category	Total Examinations Required for the Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) for the Period	Total Examinations Credited (%) to Date for Interval	Remarks
C-D	9	0	0	100	See relief request RR-18
C-F-1	NA	NA	NA	NA	This category not applicable to BNP.
C-F-2	59	29	49	100	
C-G	NA	NA	NA	NA	This category not applicable to BNP.
C-H	23	8	35	100	
F-A	53	26	49	100	
F-B	452	205	45	100	
F-C	224	90	40	100	

TABLE 2

ITEMS OR FLAWS WITH RELEVANT CONDITIONS THAT

REQUIRED EVALUATION FOR CONTINUED SERVICE

Exam Category	Item Number	Item Description	Flaw Characterization (IWA-3300)	Flaw or Relevant Condition Found During Scheduled Section XI Exam or Test (Yes or No)

During this outage there were no flaws or relevant conditions that required evaluation.

TABLE 3**ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE
MEASURES REQUIRED FOR CONTINUED SERVICE**

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)	Date Complete	Repair/ Replacement Plan Number
2	Repair	Piping	Through wall Leak	No	11/11/97	97-AHQA2
2	Repair	Support	Broken Attachment Weld in structural steel	Yes	4/7/97	97-ACMG1

ENCLOSURE 2

**BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62
INSERVICE INSPECTION SUMMARY REPORTS**

**Brunswick Steam Electric Plant, Unit 2,
Owner's Activity Report,
OAR-1 Report For 1997 Refueling Outage
To End of Second Inspection Interval**



**CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT**

UNIT 2



OWNER'S ACTIVITY REPORT

**OAR-1 REPORT
FOR
1997 REFUELING OUTAGE TO END OF
SECOND INSPECTION INTERVAL**

REVISION 0

Prepared By: Lawrence D. DeAtley Date 9/19/00
NDE Program Manager

Reviewed By: Raymond R. Acomb Date 9/29/00
Authorized Nuclear Inservice Inspector

Revision Summary

00 This is the initial issuance of this document.

INTRODUCTION

This report represents a summary of the Inservice Inspection (ISI) activities performed at the Carolina Power and Light Company's Brunswick Steam Electric Plant (BSEP) Unit 2 during the Fall 1997 refueling outage.

The B213R1 refueling outage represented the last outage of the third inspection period of the 2nd Inspection Interval.

Examinations were performed to satisfy the requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Inspection Program B, 1980 Edition through the 1981 addenda.

In accordance with requirements of Code Case N-532, which has been approved for use at the Brunswick Station, enclosed is the Owners Activity Report (OAR-1 Report).

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report number 2-97-B213R1

Owner Carolina Power & Light Company, PO Box 1551, Raleigh, North Carolina
(Name and Address of Owner)

Plant Brunswick Steam Electric Plant, PO Box 10429, Southport, North Carolina
(Name and Address of Plant)

Unit No. 2 Commercial Service Date 11/03/75 Refueling outage no. B213R1
(if applicable)

Current inspection interval 3rd
(1st, 2nd, 3rd, 4th, other)

Current inspection period 3rd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plan 1980 edition through Winter 1981 addenda

Date and revision of inspection plan 12/19/96 revision 027 to GENP-16

Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan _____

CERTIFICATE OF CONFORMANCE

I certify that the statements made in this Owner's Activity Report are correct and that the examinations, tests, repairs, replacements, evaluations and corrective measures represented by this report conform to the requirements of Section XI.

Certificate of Authorization No. NA Expiration Date NA
(if applicable)

Signed L. D. Dheath NDE Program Manager Date 9/19/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the under signed, 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 H.S.B.T. & T.CO. of HARTFORD CT. have inspected the items described in the Owner's Activity Report during the period 3/4/96 to 5/10/96, and state that to the best of my knowledge and belief, the Owner has performed all of the 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 tests, repairs, replacements, evaluations and corrective measures described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for an personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Raymond N. A. [Signature] Commissions NB-9557-A, N.I., D.C. No. 1433
Inspector's Signature National Board, State, Province and Endorsements

Date 9/16/00

TABLE 1
ABSTRACT OF EXAMINATIONS AND TESTS

Examination Category	Total Examinations Required for the Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) for the Period	Total Examinations Credited (%) to Date for Interval	Remarks
B-A	34	14	41	100	
B-B	NA	NA	NA	NA	This category not applicable to BNP
B-D	70	50	71	100	Deferral permitted to 3 rd period by Code.
B-E	46	23	50	100	Examined every refuel per PT-80.1.
B-F	30	14	47	100	
B-G-1	356	327	92	100	Deferral permitted to 3 rd period by Code.
B-G-2	NA	NA	NA	NA	Per Code Case N-426, examination only required for components selected under Categories B-J, B-M-2 and B-L-2.
B-H	7	3	43	100	
B-J	115	49	43	100	
B-K-1	39	14	36	100	Per Code Case N509, only 10% sample required.
B-L-1	NA	NA	NA	NA	This category not applicable to BNP.
B-L-2	NA	NA	NA	NA	Per relief request RR-4, only required if pump disassembled for maintenance.
B-M-1	NA	NA	NA	NA	This category not applicable to BNP.
B-M-2	NA	NA	NA	NA	Per relief request RR-3, only required if valve disassembled for maintenance.
B-N-1	3	1	33	100	
B-N-2	1	1	100	100	

Examination Category	Total Examinations Required for the Interval	Total Examinations Credited for This Period	Total Examinations Credited (%) for the Period	Total Examinations Credited (%) to Date for Interval	Remarks
B-N-3	NA	NA	NA	NA	This category not applicable to BNP.
B-O	8	3	37	100	
B-P	4	2	50	100	
C-A	3	1	33	100	
C-B	1	0	0	100	
C-C	24	4	17	100	Per Code Case N509, only 10% sample required.
C-D	9	0	0	100	See relief request RR-18.
C-F-1	NA	NA	NA	NA	This category not applicable to BNP.
C-F-2	61	26	43	100	
C-G	NA	NA	NA	NA	This category not applicable to BNP.
C-H	34	14	41	100	
F-A	53	26	49	100	
F-B	452	205	45	100	
F-C	224	90	40	100	

TABLE 2

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

Exam Category	Item Number	Item Description	Flaw Characterization (IWA-3300)	Flaw or Relevant Condition Found During Scheduled Section XI Exam or Test (Yes or No)

There were no examinations that required evaluation for continued service .

TABLE 3

**ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE
MEASURES REQUIRED FOR CONTINUED SERVICE**

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)	Date Complete	Repair/ Replacement Plan Number
1	Replacement	Snubber	Snubber replacement	Yes	9/30/97	2-97-191 (97-AFUS1)
1	Replacement	Snubber	Snubber replacement	Yes	9/29/97	2-97-193 (97-AFTW1)
1	Replacement	Snubber	Snubber replacement	Yes	9/27/97	2-97-192 (97-AFTX1)
1	Replacement	Snubber	Snubber replacement	Yes	9/23/97	2-97-180 (97-AFSZ1)

Note: All four snubbers were identified with zero fluid indicated. They were subsequently removed and functionally tested satisfactorily. Replacements were performed to minimize impact to outage schedules.