



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

September 4, 2012

Mr. Michael J. Annacone  
Vice President  
Brunswick Steam Electric Plant  
P.O. Box 10429  
Southport, NC 28461-0429

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR BRUNSWICK STEAM ELECTRIC  
PLANT, UNITS 1 AND 2 (NRC INSPECTION REPORT 05000325/2012006 AND  
05000324/2012006)**

Dear Mr. Annacone:

On August 15, 2012, the NRC staff completed its mid-cycle performance review of the Brunswick Steam Electric Plant, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2011, through June 30, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined the performance at Brunswick Steam Electric Plant Units 1 and 2 during the most recent quarter was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix based on one inspection finding classified as low to moderate safety significance (White) in the Mitigating Systems Cornerstone and all PIs indicated that your performance was within the nominal, expected range (i.e., green). The White finding was related to the failure to identify and correct a condition adverse to quality associated with the entrance enclosures for the Emergency Diesel Generator (EDG) fuel oil tank rooms. This finding was identified on November 29, 2011. On June 21, 2012, the U.S. Nuclear Regulatory Commission (NRC) completed a supplemental inspection pursuant to Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area", at Brunswick Unit 1 and 2 facilities. As a result, the NRC determined that the inspection objectives were met. This finding will be closed in inspection report 05000325/2012004 and 05000324/2012004.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-188 "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides

the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

We also plan on conducting several infrequently performed inspections which include: Licensed Operator Requalification, Operator Licensing Exams; and TI 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks."

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact Randy Musser at 404-997-4603 with any questions you may have regarding this letter.

Sincerely,

*/RA/*

Richard P. Croteau, Director  
Division of Reactor Projects

Docket Nos. 50-325, 50-324  
License Nos. DPR-71, DPR-62

Enclosure: Brunswick Inspection/Activity Plan (09/01/2012 – 12/31/2013)

cc w/Encl: (See page 3)

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PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE       NON-SENSITIVE  
ADAMS: X Yes      ACCESSION NUMBER: \_\_\_\_\_      X SUNSI REVIEW COMPLETE X FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP	RII:DRP				
SIGNATURE		JSD /RA/	RAM /RA/				
NAME	JWorosilo	JDodson	RMusser				
DATE		08/27/2012	08/27/2012				
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

cc w/encl:  
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(cc w/Encl continued next page)

M. Annacone

4

(cc w/Encl continued)

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M. Annacone

5

Letter to Michael J. Annacone from Richard P. Croteau dated September 4, 2012

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR BRUNSWICK STEAM ELECTRIC  
PLANT, UNITS 1 AND 2 (NRC INSPECTION REPORT 05000325/2012006 AND  
05000324/2012006)

Distribution w/encl:

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L. Douglas, RII

OE Mail

RIDSNRRDIRS

PUBLIC

R. Pascarelli, NRR

RidsNrrPMBrunswick Resource

INPO

ROP Reports

## Brunswick

## Inspection / Activity Plan

09/01/2012 - 12/31/2013

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	11/12/2012 11/16/2012	<b>OL EXAM - INITIAL EXAM PREP</b> V23376	BRUNSWICK / DECEMBER 2012 EXAM AT POWER FACILITIES	3
1,2	11/26/2012 11/30/2012	<b>OL RQ - REQUAL INSPECTION</b> IP 7111111B	Licensed Operator Requalification Program	2
1	12/03/2012 12/07/2012	<b>OL EXAM - INITIAL EXAM - WEEK 1</b> V23376	BRUNSWICK / DECEMBER 2012 EXAM AT POWER FACILITIES	3
1	12/10/2012 12/14/2012	<b>OL EXAM - INITIAL EXAM - WEEK 2</b> V23376	BRUNSWICK / DECEMBER 2012 EXAM AT POWER FACILITIES	2
2	03/11/2013 03/15/2013	<b>ISI - UNIT 2 INSERVICE INSPECTION</b> IP 7111108G	Inservice Inspection Activities - BWR	1
1,2	03/11/2013 03/15/2013	<b>PSB1-RP - RP OCCUPATIONAL BASELINE</b> IP 71124.01	Radiological Hazard Assessment and Exposure Controls	3
1,2	03/11/2013 03/15/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	03/11/2013 03/15/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	03/11/2013 03/15/2013	IP 71124.04	Occupational Dose Assessment	
1,2	03/11/2013 03/15/2013	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	03/11/2013 03/15/2013	IP 71151	Performance Indicator Verification	
2	03/18/2013 03/22/2013	<b>LR71003 - UNIT 2 POST APPROVAL LR PHASE 1</b> IP 71003	Post-Approval Site Inspection for License Renewal	2
1,2	03/25/2013 03/29/2013	<b>PSB1-RP - RP OCCUPATIONAL BASELINE WEEK2</b> IP 71124.01	Radiological Hazard Assessment and Exposure Controls	4
1,2	03/25/2013 03/29/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	03/25/2013 03/29/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	03/25/2013 03/29/2013	IP 71124.04	Occupational Dose Assessment	
1,2	03/25/2013 03/29/2013	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	03/25/2013 03/29/2013	IP 71151	Performance Indicator Verification	
1,2	04/29/2013 05/03/2013	<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b> IP 71152B	Problem Identification and Resolution	5
1,2	05/13/2013 05/17/2013	IP 71152B	Problem Identification and Resolution	
1,2	08/19/2013 08/23/2013	<b>EP - EMERGENCY PREPAREDNESS INSPECTION</b> IP 7111402	Alert and Notification System Testing	1
1,2	08/19/2013 08/23/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	08/19/2013 08/23/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	08/19/2013 08/23/2013	IP 71151	Performance Indicator Verification	

This report does not include INFO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

Enclosure

Brunswick

Inspection / Activity Plan

09/01/2012 - 12/31/2013

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
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**CDBI - COMPONENT DESIGN BASIS INSPECTION**

1, 2	08/19/2013 08/23/2013	IP 7111121	Component Design Bases Inspection	10
1, 2	09/09/2013 09/13/2013	IP 7111121	Component Design Bases Inspection	
1, 2	09/23/2013 09/27/2013	IP 7111121	Component Design Bases Inspection	
1, 2	10/07/2013 10/11/2013	IP 7111121	Component Design Bases Inspection	

Comments:

This report does not include INPO and OUTAGE activities.  
 This report shows only on-site and announced inspection procedures.