



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

March 4, 2013

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR BRUNSWICK STEAM ELECTRIC  
PLANT, UNITS 1 AND 2 (NRC INSPECTION REPORT 05000325/2012001 AND  
05000324/2012001)**

Dear Mr. Annacone:

On February 13, 2013, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-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 January 1, 2012 through December 31, 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 that overall, Brunswick Steam Electric Plant, Units 1 and 2 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Brunswick Steam Electric Plant, Units 1 and 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

During the first three quarters of 2012, the performance of Brunswick Steam Electric Plant, Units 1 and 2 performance was in the Regulatory Response Column of the NRC's 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 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 the performance at Brunswick Steam Electric Plant Units 1 and 2 to be in the Licensee Response Column of the ROP Action Matrix as of October 1, 2012.

The enclosed inspection plan lists the inspections scheduled through June 30, 2014. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-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 an infrequently performed inspection, TI 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks, Phase 2."

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 (03/01/2013 – 06/30/2014)

cc w/Encl: (See page 3)

cc w/encl:

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Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
2	03/11/2013 03/15/2013	<b>ISI</b> IP 7111108G	<b>- UNIT 2 INSERVICE INSPECTION</b> Inservice Inspection Activities - BWR	1
2	03/11/2013 03/15/2013	<b>LR</b> IP 71003	<b>- UNIT 2 POST APPROVAL LR PHASE 1</b> Post-Approval Site Inspection for License Renewal	2
1, 2	03/11/2013 03/15/2013	<b>RP</b> IP 71124.01	<b>- RP OCCUPATIONAL BASELINE</b> 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	
1, 2	03/25/2013 03/29/2013	<b>RP</b> IP 71124.01	<b>- RP OCCUPATIONAL BASELINE WEEK2</b> Radiological Hazard Assessment and Exposure Controls	3
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</b> IP 71152B	<b>- PROBLEM IDENTIFICATION AND RESOLUTION</b> Problem Identification and Resolution	4
1, 2	05/13/2013 05/17/2013	IP 71152B	Problem Identification and Resolution	
1, 2	08/19/2013 08/23/2013	<b>EP</b> IP 7111402	<b>- EMERGENCY PREPAREDNESS INSPECTION</b> 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	
1, 2	08/19/2013 08/23/2013	<b>CDBI</b> IP 7111121	<b>- COMPONENT DESIGN BASES INSPECTION</b> Component Design Bases Inspection	7
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	
1, 2	10/15/2013 10/17/2013	<b>TI-182</b> IP 2515/182	<b>- TI-182 BURIED PIPING/TANK - PHASE 2</b> Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	1

**Brunswick**

**Inspection / Activity Plan**

**03/01/2013 - 06/30/2014**

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		<b>RP - RP PUBLIC RADIATION SAFETY BASELINE</b>		<b>2</b>
1, 2	01/27/2014 01/31/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	01/27/2014 01/31/2014	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	01/27/2014 01/31/2014	IP 71151	Performance Indicator Verification	
		<b>ISI - UNIT 1 IN-SERVICE INSPECTION</b>		<b>1</b>
1	03/10/2014 03/14/2014	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>RP - RAD HAZARDS ANALYSIS AND TRANSPORTATION</b>		<b>2</b>
1, 2	03/10/2014 03/14/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/10/2014 03/14/2014	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	03/10/2014 03/14/2014	IP 71151	Performance Indicator Verification	
		<b>LR - POST APPROVAL LR PHASE 2</b>		<b>6</b>
1, 2	06/02/2014 06/06/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
1, 2	06/16/2014 06/20/2014	IP 71003	Post-Approval Site Inspection for License Renewal	

Comments:

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