



**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)

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cc w/Encl: (See page 3)

☒ PUBLICLY AVAILABLE

☐ NON-PUBLICLY AVAILABLE

SENSITIVE

☒ NON-SENSITIVE

ADAMS: X Yes

ACCESSION NUMBER: \_\_\_\_\_

X SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP					
SIGNATURE	JGW:/RA/	RXM:/RA/					
NAME	JWorosilo	RMusser					
DATE	02/20/2013	02/25/2013					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRP\PERIODIC ASSESSMENTS & REPORTS\EOC & MID-CYCLE\2012\END OF CYCLE\INPUT\RPB4\BRUNSWICK\BRU 2012 EOC LETTER.DOCX

M. Annacone

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cc w/encl:

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Electronic Mail Distribution

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(cc:w/encl continued next page)

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cc:w/encl. continued  
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Letter to Michael J. Annacone from Richard P. Croteau dated March 4, 2013

SUBJECT: ANNUAL ASSESSMENT LETTER FOR BRUNSWICK STEAM ELECTRIC  
PLANT, UNITS 1 AND 2 (NRC INSPECTION REPORT 05000325/2012001 AND  
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Distribution w/encl:

C. Evans, RII EICS

L. Douglas, RII EICS

OE Mail

RIDSNRRDIRS

PUBLIC

RidsNrrPMBrunswick Resource

ROP Assessment

Institute of Nuclear Power Operations (INPO)

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>ISI</b>	<b>- UNIT 2 INSERVICE INSPECTION</b>	
2	03/11/2013	03/15/2013	IP 7111108G	Inservice Inspection Activities - BWR	1
			<b>LR</b>	<b>- UNIT 2 POST APPROVAL LR PHASE 1</b>	
2	03/11/2013	03/15/2013	IP 71003	Post-Approval Site Inspection for License Renewal	2
			<b>RP</b>	<b>- RP OCCUPATIONAL BASELINE</b>	
1, 2	03/11/2013	03/15/2013	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	
			<b>RP</b>	<b>- RP OCCUPATIONAL BASELINE WEEK2</b>	
1, 2	03/25/2013	03/29/2013	IP 71124.01	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	
			<b>PI&amp;R</b>	<b>- PROBLEM IDENTIFICATION AND RESOLUTION</b>	
1, 2	04/29/2013	05/03/2013	IP 71152B	Problem Identification and Resolution	4
1, 2	05/13/2013	05/17/2013	IP 71152B	Problem Identification and Resolution	
			<b>EP</b>	<b>- EMERGENCY PREPAREDNESS INSPECTION</b>	
1, 2	08/19/2013	08/23/2013	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	
			<b>CDBI</b>	<b>- COMPONENT DESIGN BASES INSPECTION</b>	
1, 2	08/19/2013	08/23/2013	IP 7111121	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	
			<b>TI-182</b>	<b>- TI-182 BURIED PIPING/TANK - PHASE 2</b>	
1, 2	10/15/2013	10/17/2013	IP 2515/182	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		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<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: