



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

March 5, 2012

Mr. Michael Annacone
Vice President
Carolina Power and Light Company
Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR BRUNSWICK STEAM ELECTRIC
PLANT, UNITS 1 AND 2 (NRC INSPECTION REPORT 05000325/2011007 AND
05000324/2011007)**

Dear Mr. Annacone:

On February 15, 2012, the NRC staff 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, 2011, through December 31, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

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. At the beginning of 2011, the performance of Brunswick Units 1 and 2 was assessed to be in 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 Emergency Preparedness Cornerstone identified on September 29, 2010. This finding involved a performance deficiency related to untimely augmentation of on-shift staffing during a declaration of an Alert emergency classification. A 95001 inspection to review this issue was completed on May 5, 2011, and Brunswick was transitioned back to the Licensee Response column in the third quarter of 2011, where you remained until November 29, 2011.

As of this date, your staff has not notified the NRC that you are ready for it to conduct a supplemental inspection to review the actions taken to address the performance issues. Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area."

The enclosed inspection plan lists the inspections scheduled through June 30, 2013. 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.

In addition, the planned non-routine inspections that will be conducted include: 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

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Brunswick

Inspection / Activity Plan

03/01/2012 - 06/30/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1, 2	03/05/2012	03/09/2012	PSB1-RP IP 71124.01	- RADIOLOGICAL HAZARDS ASSESSMENT Radiological Hazard Assessment and Exposure Controls	2
1, 2	03/05/2012	03/09/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1	03/12/2012	03/16/2012	EB3 ISI IP 7111108G	- UNIT 1 INSERVICE INSPECTION Inservice Inspection Activities - BWR	1
1, 2	07/16/2012	07/20/2012	EB3 HS IP 7111107T	- TRIENNIAL HEAT SINK INSPECTION Heat Sink Performance	1
1, 2	08/06/2012	08/10/2012	PSB1EP IP 7111401	- EMERGENCY PREPAREDNESS EXERCISE Exercise Evaluation	4
1, 2	08/06/2012	08/10/2012	IP 71151	Performance Indicator Verification	
1, 2	09/10/2012	09/14/2012	TI-182 IP 2515/182	- TI-182 BURIED PIPING/TANK - PHASE 1 Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	1
1	11/12/2012	11/16/2012	OL EXAM V23376	- INITIAL EXAM PREP BRUNSWICK / DECEMBER 2012 EXAM AT POWER FACILITIES	3
1, 2	11/26/2012	11/30/2012	OL RQ IP 7111111B	- REQUAL INSPECTION Licensed Operator Requalification Program	2
1	12/03/2012	12/07/2012	OL EXAM V23376	- INITIAL EXAM - WEEK 1 BRUNSWICK / DECEMBER 2012 EXAM AT POWER FACILITIES	4
1	12/10/2012	12/14/2012	OL EXAM V23376	- INITIAL EXAM - WEEK 2 BRUNSWICK / DECEMBER 2012 EXAM AT POWER FACILITIES	4
2	03/11/2013	03/15/2013	ISI IP 7111108G	- UNIT 2 INSERVICE INSPECTION Inservice Inspection Activities - BWR	1
1, 2	03/11/2013	03/15/2013	PSB1-RP IP 71124.01	- RP OCCUPATIONAL BASELINE 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	LR71003 IP 71003	- UNIT 2 POST APPROVAL LIC RENEWAL-PHASE 1 Post-Approval Site Inspection for License Renewal	2
1, 2	03/25/2013	03/29/2013	PSB1-RP IP 71124.01	- RP OCCUPATIONAL BASELINE WEEK2 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	

This report does not include INPO and OUTAGE activities.

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

Brunswick

Inspection / Activity Plan

03/01/2012 - 06/30/2013

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
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PSB1-RP - RP OCCUPATIONAL BASELINE WEEK2

1, 2	03/25/2013 03/29/2013	IP 71124.04	Occupational Dose Assessment	4
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	

PI&R - PROBLEM IDENTIFICATION AND RESOLUTION

1, 2	04/29/2013 05/03/2013	IP 71152B	Problem Identification and Resolution	5
1, 2	05/13/2013 05/17/2013	IP 71152B	Problem Identification and Resolution	

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