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

September 1, 2011

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

SUBJECT: MID-CYCLE LETTER FOR BRUNSWICK STEAM ELECTRIC PLANT UNIT 1 AND UNIT 2 (REPORT 05000325/2011006 AND 05000324/2011006)

Dear Mr. Annacone:

On August 10, 2011, 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, 2010, through June 30, 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 Emergency Preparedness Cornerstone related to untimely augmentation of on-shift staffing during a declaration of an Alert emergency classification. This finding was identified on September 29, 2010. 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. Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2012. 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 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.

In addition to ROP baseline inspection activities, we also plan on conducting initial operator licensing examinations.

In the days following the Fukushima Dai-ichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Dai-ichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)" at your facility. Results of these inspections can be found here: http://www.nrc.gov/japan/japan-activities.html. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21st Century: The Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident." The Commission is currently reviewing the Task Force's recommendations to determine whether additional actions may be warranted.

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 and 50-324
License Nos.: DPR-71 and DPR-62

Enclosure: Brunswick Inspection/Activity Plan

cc w/encl.: (See page 3)

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X PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE X NON-SENSITIVE

ADAMS: X Yes ACCESSION NUMBER: PKG: ML112440143 X SUNSI REVIEW COMPLETE

OFFICE	RII:DRP	RII:DRP	RII:DRP				
SIGNATURE	JGW1 by email	JSD	RAM				
NAME	JWorosilo	JDodson	RMusser				
DATE	08/16/2011	08/12/2011	08/16/2011				
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\2011\MID-CYCLE\INPUT\RPB4\MC LETTERS\2011 MC LETTER BRUNSWICK REV1.DOCX

cc w/encl:
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Letter to Michael J. Annacone from Richard P. Croteau dated September 1, 2011.

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Distribution w/encl:
C. Evans, RII EICS
L. Douglas, RII EICS
OE Mail
RIDSNRRDIRS
PUBLIC
ROP Reports
Institute of Nuclear Power Operations (INPO)
RidsNrrPMBrunswick Resource

Brunswick
Inspection / Activity Plan
09/01/2011 - 12/31/2012

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			TFPI	**- 805 TFPI**	**5**
1, 2	10/31/2011	11/04/2011	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]	
1, 2	11/14/2011	11/18/2011	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]	
			PSB1-RP	**- PUBLIC RADIATION PROTECTION BASELINE**	**3**
1, 2	02/13/2012	02/17/2012	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	02/13/2012	02/17/2012	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	02/13/2012	02/17/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	02/13/2012	02/17/2012	IP 71151	Performance Indicator Verification	
			PSB1-RP	**- RADIOLOGICAL HAZARDS ASSESSMENT**	**1**
1, 2	02/27/2012	03/02/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			EB3 ISI	**- UNIT 1 INSERVICE INSPECTION**	**1**
1	03/05/2012	03/09/2012	IP 7111108G	Inservice Inspection Activities - BWR	
			EB3 HS	**- TRIENNIAL HEAT SINK INSPECTION**	**1**
1, 2	06/25/2012	06/29/2012	IP 7111107T	Heat Sink Performance	
			PSB1EP	**- EMERGENCY PREPAREDNESS EXERCISE**	**3**
1, 2	08/06/2012	08/10/2012	IP 7111401	Exercise Evaluation	
1, 2	08/06/2012	08/10/2012	IP 71151	Performance Indicator Verification	
			OL EXAM	**- INITIAL EXAM PREP**	**4**
1	11/12/2012	11/16/2012	V23376	BRUNSWICK / AUGUST 2012 EXAM AT POWER FACILITIES	
			OL RQ	**- REQUAL INSPECTION**	**2**
1, 2	11/26/2012	11/30/2012	IP 7111111B	Licensed Operator Requalification Program	
			OL EXAM	**- INITIAL EXAM - WEEK 1**	**4**
1	12/03/2012	12/07/2012	V23376	BRUNSWICK / AUGUST 2012 EXAM AT POWER FACILITIES	
			OL EXAM	**- INITIAL EXAM - WEEK 2**	**4**
1	12/10/2012	12/14/2012	V23376	BRUNSWICK / AUGUST 2012 EXAM AT POWER FACILITIES	

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