



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

March 4, 2009

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

**SUBJECT: ANNUAL ASSESSMENT LETTER - BRUNSWICK STEAM ELECTRIC PLANT
UNIT 1 AND UNIT 2 (NRC INSPECTION REPORT 05000325/2009001 AND
05000324/2009001)**

Dear Mr. Waldrep:

On February 11, 2009, the NRC staff completed its performance review of the Brunswick Steam Electric Plant for the period from January 1 through December 31, 2008. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and the enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only-Security Related Information" will include the Security cornerstone performance review and a resultant inspection plan.

Overall, Brunswick Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as the first three quarters of the assessment cycle, was within the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting several non-ROP inspections, which include: initial operator licensing examinations, TI 2515/173, "Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative, and Independent Spent Fuel Storage Installation (ISFSI) pre-operational testing.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2010. The inspection plan is provided to minimize the resource impact on your staff and to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review meeting.

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).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (404) 562-4603 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Randall A. Musser, Chief
Reactor Projects Branch 4
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:

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Brunswick
Inspection / Activity Plan
03/01/2009 - 06/30/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			EB3ISI - UNIT 2 INSERVICE INSPECTION		1
2	03/09/2009	03/13/2009	IP 7111108G	Inservice Inspection Activities - BWR	
			PSB1-RP - RP OCCUPATIONAL BASELINE WEEK1		3
1,2	03/09/2009	03/13/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1,2	03/09/2009	03/13/2009	IP 7112102-7112102R	ALARA - Required	
1,2	03/09/2009	03/13/2009	IP 7112202	Radioactive Material Processing and Transportation	
1,2	03/09/2009	03/13/2009	IP 71151	Performance Indicator Verification	
			PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK2		2
1,2	03/23/2009	03/27/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1,2	03/23/2009	03/27/2009	IP 7112102	ALARA Planning and Controls	
1,2	03/23/2009	03/27/2009	IP 7112202	Radioactive Material Processing and Transportation	
1,2	03/23/2009	03/27/2009	IP 71151	Performance Indicator Verification	
			PI&R - PROBLEM IDENTIFICATION & RESOLUTION		6
1,2	04/20/2009	04/24/2009	IP 71152B	Identification and Resolution of Problems	
1,2	05/04/2009	05/08/2009	IP 71152B	Identification and Resolution of Problems	
			EB3-HS - HEAT SINK		2
1,2	06/01/2009	06/05/2009	IP 7111107T	Heat Sink Performance	
			PSB1EP - EMERGENCY PREPAREDNESS INSPECTION		1
1,2	11/16/2009	11/20/2009	IP 7111402	Alert and Notification System Testing	
1,2	11/16/2009	11/20/2009	IP 7111403	Emergency Response Organization Augmentation Testing	
1,2	11/16/2009	11/20/2009	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	11/16/2009	11/20/2009	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	11/16/2009	11/20/2009	IP 71151	Performance Indicator Verification	
			PSB1-RP - RP GROUNDWATER PROTECTION		1
1,2	02/15/2010	02/19/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
			EB3ISI - EB3 INSERVICE INSPECTION		1
1	03/01/2010	03/05/2010	IP 7111108G	Inservice Inspection Activities - BWR	
			PSB1-RP - RP ACCESS CONTROLS		1
1,2	03/08/2010	03/12/2010	IP 7112101	Access Control to Radiologically Significant Areas	
			OL EXAM - INITIAL EXAM PREP		7
1	03/15/2010	03/19/2010	V23322	BRUNSWICK/APRIL 2010 EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM - WEEK 1		7
1	04/05/2010	04/09/2010	V23322	BRUNSWICK/APRIL 2010 EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM - WEEK 2		6
1	04/12/2010	04/16/2010	V23322	BRUNSWICK/APRIL 2010 EXAM AT POWER FACILITIES	

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

Brunswick
Inspection / Activity Plan
03/01/2009 - 06/30/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
PSB1EP - EMERGENCY PREPAREDNESS EXERCISE					3
1,2	06/21/2010	06/25/2010	IP 7111401	Exercise Evaluation	
1,2	06/21/2010	06/25/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	06/21/2010	06/25/2010	IP 71151	Performance Indicator Verification	

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07200006 - CAROLINA POWER

Inspection / Activity Plan

03/01/2009 - 02/28/2010

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	01/01/2010 03/31/2010	ISFSI IP 60854	- ISFSI PRE-OPERATIONAL TESTING Preoperational Testing Of An ISFSI	2

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