



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

September 1, 2009

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

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
BRUNSWICK STEAM ELECTRIC PLANT UNIT 1 AND UNIT 2**

Dear Mr. Waldrep:

On August 13, 2009, the NRC staff completed its performance review of the Brunswick Steam Electric Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2008 through June 30, 2009. 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.

Plant performance for the most recent quarter at Brunswick Units 1 and 2 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). Although plant performance was within Licensee Response Column, the significance of Apparent Violation 2009009-01: Inability to Operate the EDGs Locally as Required by the Safe Shutdown Analysis Report, is still under review as part of the Significance Determination Process which, when finalized, may change our assessment of your plant's safety performance. If our assessment changes based on the final significance of this finding, a new assessment letter will be issued. Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to security, scheduled through December 31, 2010. In addition to ROP baseline inspection activities, we also plan on conducting several infrequently performed inspections, which include Temporary Instruction (TI) 2515/173, Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative; Independent Spent Fuel Storage Installation (ISFSI); and initial operator licensing examinations. The inspection plan is provided 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 end-of-cycle review.

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).

As you may know, the NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, 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, 50-324 and 72-06
License Nos.: DPR-71 and DPR-62

Enclosure: Brunswick Inspection/Activity Plan

cc w/encl: (See page 3)

cc w/encl:

R. J. Duncan, II, Vice President
Nuclear Operations
Carolina Power & Light Company
Electronic Mail Distribution

Michael J. Annacone
Director Site Operations
Brunswick Steam Electric Plant
Progress Energy Carolinas, Inc.
Electronic Mail Distribution

Edward L. Wills, Jr.
Plant General Manager
Brunswick Steam Electric Plant
Progress Energy Carolinas, Inc.
Electronic Mail Distribution

Benjamin C. Waldrep, Vice President
Brunswick Steam Electric Plant
Progress Energy Carolinas, Inc.
Electronic Mail Distribution

Christos Kamilaris, Director
Fleet Support Services
Carolina Power & Light Company
Electronic Mail Distribution

Brian C. McCabe
Manager, Nuclear Regulatory Affairs
Progress Energy Carolinas, Inc.
Electronic Mail Distribution

Phyllis N. Mentel
Manager, Support Services
Brunswick Steam Electric Plant
Progress Energy Carolinas, Inc.
Electronic Mail Distribution

Donald L. Griffith, Manager
Brunswick Steam Electric Plant
Progress Energy Carolinas, Inc.
Electronic Mail Distribution

Garry D. Miller, Manager
License Renewal
Progress Energy
Electronic Mail Distribution

Gene Atkinson
Supervisor, Licensing/Regulatory Programs
Brunswick Steam Electric Plant
Progress Energy Carolinas, Inc.
Electronic Mail Distribution

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Brunswick Steam Electric Plant
U.S. NRC
8470 River Road, SE
Southport, NC 28461

John H. O'Neill, Jr.
Shaw, Pittman, Potts & Trowbridge
2300 N. Street, NW
Washington, DC 20037-1128

Peggy Force, Assistant Attorney General
State of North Carolina
P.O. Box 629
Raleigh, NC 27602

Chairman
North Carolina Utilities Commission
Electronic Mail Distribution

Robert P. Gruber, Executive Director
Public Staff - NCUC
4326 Mail Service Center
Raleigh, NC 27699-4326

David R. Sandifer
Brunswick County Board of Commissioners
P.O. Box 249
Bolivia, NC 28422

James Ross, Nuclear Energy Institute
Electronic Mail Distribution

Public Service Commission
State of South Carolina
P.O. Box 11649
Columbia, SC 29211

cc w/encl. (See page 4)

CP&L

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cc w/encl. (Continued)

Beverly O. Hall
Chief, Radiation Protection Section
Department of Environmental Health
N.C. Department of Environmental Commerce & Natural Resources
Electronic Mail Distribution

Warren Lee
Emergency Management Director
New Hanover County Department of Emergency Management
230 Government Center Drive
Suite 115
Wilmington, NC 28403

Brunswick
Inspection / Activity Plan
09/01/2009 - 12/31/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			SIT - FINAL SIGNIFICANCE DETERMINATION LETTER		2
1,2	06/29/2009	09/30/2009	IP 93812	Special Inspection	
			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	01/25/2010	01/29/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
			PSB1-RP - RP PUBLIC RADIATION PROTECTION		3
1,2	02/08/2010	02/12/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1,2	02/08/2010	02/12/2010	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems	
1,2	02/08/2010	02/12/2010	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
1,2	02/08/2010	02/12/2010	IP 71151	Performance Indicator Verification	
			PSB1-RP - RP ACCESS CONTROLS		1
1,2	02/22/2010	02/26/2010	IP 7112101	Access Control to Radiologically Significant Areas	
			EB3ISI - EB3 INSERVICE INSPECTION		1
1	03/01/2010	03/05/2010	IP 7111108G	Inservice Inspection Activities - BWR	
			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	
			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	
			INSP. - COMPONENT DESIGN BASIS INSP. (TRIENIAL)		5
1,2	09/20/2010	09/24/2010	IP 7111121	Component Design Bases Inspection	
1,2	10/04/2010	10/08/2010	IP 7111121	Component Design Bases Inspection	
1,2	10/18/2010	10/22/2010	IP 7111121	Component Design Bases Inspection	
1,2	11/01/2010	11/05/2010	IP 7111121	Component Design Bases Inspection	

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

Enclosure

Brunswick
Inspection / Activity Plan
09/01/2009 - 12/31/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			OL RQ - REQUAL INSPECTION		2
1, 2	10/18/2010	10/22/2010	IP 7111111B	Licensed Operator Requalification Program	
			OL EXAM - INITIAL EXAM PREP		3
1	11/15/2010	11/19/2010	V23342	BRUNSWICK/DECEMBER 2010 EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM WEEK 1		3
1	12/06/2010	12/10/2010	V23342	BRUNSWICK/DECEMBER 2010 EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM WEEK 2		3
1	12/13/2010	12/17/2010	V23342	BRUNSWICK/DECEMBER 2010 EXAM AT POWER FACILITIES	

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

Enclosure