

## UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION II SAM NUNN ATLANTA FEDERAL CENTER 61 FORSYTH STREET, SW, SUITE 23T85 ATLANTA, GEORGIA 30303-8931

September 2, 2008

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, 2008, the NRC staff completed its performance review of the Brunswick Steam Electric Plant for the first half of the calendar year 2008 assessment cycle. 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 Physical Protection/Security cornerstone performance review and a resultant inspection plan.

Plant performance for the most recent quarter at Brunswick Unit 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). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting several non-ROP inspections involving initial operator licensing examinations, Independent Spent Fuel Storage Installation (ISFSI), B.5.b Phase 2 and 3 (TI-171), and Emergency Response Organization Drill/Exercise Performance Indicator (TI-175). In addition, TI 2515/173, "Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative", will be performed at your facility prior to August 30, 2010. In the near term, we will contact you to assess your readiness for this inspection and then finalize our schedule accordingly.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2009. 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.

Package: ML082469071 Letter: ML082460978 Encl: ML082460982

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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 <a href="http://www.nrc.gov/reading-rm/adams.html">http://www.nrc.gov/reading-rm/adams.html</a> (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

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cc w/encl:
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## **Brunswick Inspection / Activity Plan**

09/01/2008 - 12/31/2009

Unit			No. of Staff	Planne	d Dates	Inspection
Number	Inspection Activity	Title	on Site	Start	End	Туре
	TI-171 - B.5.E	PHASE 2&3	3			
1, 2	IP 2515/171	Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies		09/15/2008	09/19/2008	Generic Safety Inspection
	OL EXAM - INITI	AL EXAM PREP	3			
1	V23291	BRUNSWICK/DECEMBER 2008 EXAM AT POWER FACILITIES		10/06/2008	10/10/2008	Not Applicable
	EB2-TFP - TRIE	NNIAL FIRE PROTECTION	8			
1, 2	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]		11/03/2008	11/07/2008	Baseline Inspections
1, 2	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]		11/17/2008	11/21/2008	Baseline Inspections
	ISFSI - ISFS	I PAD FORM & REBAR & CONCRETE	2			
1, 2	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI		11/03/2008	11/07/2008	Other Routine
	OL EXAM - INITI	AL EXAM	3			
1	V23291	BRUNSWICK/DECEMBER 2008 EXAM AT POWER FACILITIES		11/03/2008	11/07/2008	Not Applicable
	OL RQ - REQ	UAL INSPECTION	3			
1, 2	IP 7111111B	Licensed Operator Requalification Program		11/17/2008	11/21/2008	Baseline Inspections
	PSB1-EP - EME	RGENCY PREPAREDNESS EXERCISE	3			
1, 2	IP 2515/175	Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review		11/17/2008	11/21/2008	Baseline Inspections
1, 2	IP 7111401	Exercise Evaluation		11/17/2008	11/21/2008	EP Baseline Inspection
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		11/17/2008	11/21/2008	EP Baseline Inspection
1, 2	IP 71151-EP01	Drill/Exercise Performance		11/17/2008	11/21/2008	Baseline Inspections
1, 2	IP 71151-EP02	ERO Drill Participation		11/17/2008	11/21/2008	Baseline Inspections
1, 2	IP 71151-EP03	Alert & Notification System		11/17/2008	11/21/2008	Baseline Inspections
	PSB1-RP - RP C	OCCUPATIONAL PRE INSPECTION VISIT	1			
1, 2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		02/02/2009	02/04/2009	Other Routine
1,2	IP 7112101	Access Control to Radiologically Significant Areas		02/02/2009	02/04/2009	Baseline Inspections
	EB3ISI - UNIT	2 INSERVICE INSPECTION	1			
2	IP 7111108G	Inservice Inspection Activities - BWR		03/09/2009	03/13/2009	Baseline Inspections
	PSB1-RP - RP C	OCCUPATIONAL BASELINE WEEK1	3			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		03/09/2009	03/13/2009	Baseline Inspections
1, 2	IP 7112102-7112102	R ALARA - Required		03/09/2009	03/13/2009	Baseline Inspections
1, 2	IP 7112202	Radioactive Material Processing and Transportation		03/09/2009	03/13/2009	Baseline Inspections
1, 2	IP 71151-OR01	Occupational Exposure Control Effectiveness		03/09/2009	03/13/2009	Baseline Inspections
1, 2	IP 71151-PR01	RETS/ODCM Radiological Effluent		03/09/2009	03/13/2009	Baseline Inspections
	PSB1-RP - RAD	IATION PROTECTION OCCUPATIONAL WK2	2			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		03/23/2009	03/27/2009	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		03/23/2009	03/27/2009	Baseline Inspections
1, 2	IP 7112202	Radioactive Material Processing and Transportation		03/23/2009	03/27/2009	Baseline Inspections

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

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## **Brunswick** 09/01/2008 - 12/31/2009

**Inspection / Activity Plan** 

Title  PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK2  1,2 IP 71151-OR01 Occupational Exposure Control Effectiveness  1,2 IP 71151-PR01 RETS/ODCM Radiological Effluent	on Site	03/23/2009 03/23/2009	03/27/2009	Type  Baseline Inspections
1,2 IP 71151-OR01 Occupational Exposure Control Effectiveness				Baseline Inspections
,	5			Baseline Inspections
1,2 IP 71151-PR01 RETS/ODCM Radiological Effluent	5	03/23/2009	00/07/0000	
	5		03/27/2009	Baseline Inspections
PI&R - PROBLEM IDENTIFICATION AND RESOLUTION				
1,2 IP 71152B Identification and Resolution of Problems		04/20/2009	04/24/2009	Baseline Inspections
1,2 IP 71152B Identification and Resolution of Problems		05/04/2009	05/08/2009	Baseline Inspections
EB3-HS - HEAT SINK	1			
1,2 IP 7111107B Heat Sink Performance		07/06/2009	07/10/2009	Baseline Inspections
OL EXAM - INITIAL EXAM PREP	3			
1 V23322 BRUNSWICK/NOVEMBER 2009 EXAM AT POWER FACILITIES		10/26/2009	10/30/2009	Not Applicable
OL EXAM - INITIAL EXAM - WEEK 1	3			
1 V23322 BRUNSWICK/NOVEMBER 2009 EXAM AT POWER FACILITIES		11/16/2009	11/20/2009	Not Applicable
PSB1EP - EMERGENCY PREPAREDNESS INSPECTION	1			
1,2 IP 7111402 Alert and Notification System Testing		11/16/2009	11/20/2009	EP Baseline Inspection
1,2 IP 7111403 Emergency Response Organization Augmentation Testing		11/16/2009	11/20/2009	EP Baseline Inspection
1,2 IP 7111404 Emergency Action Level and Emergency Plan Changes		11/16/2009	11/20/2009	EP Baseline Inspection
1, 2 IP 7111405 Correction of Emergency Preparedness Weaknesses and Deficiencies		11/16/2009	11/20/2009	EP Baseline Inspection
1,2 IP 71151-EP01 Drill/Exercise Performance		11/16/2009	11/20/2009	Baseline Inspections
1, 2 IP 71151-EP02 ERO Drill Participation		11/16/2009	11/20/2009	Baseline Inspections
1,2 IP 71151-EP03 Alert & Notification System		11/16/2009	11/20/2009	Baseline Inspections
OL EXAM - INITIAL EXAM - WEEK 2	3			,
1 V23322 BRUNSWICK/NOVEMBER 2009 EXAM AT POWER FACILITIES		11/30/2009	12/04/2009	Not Applicable