



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

March 3, 2010

Mr. David A. Heacock  
President and Chief Nuclear Officer  
Virginia Electric and Power Company  
Innsbrook Technical Center  
5000 Dominion Boulevard  
Glen Allen, VA 23060-6711

**SUBJECT: ANNUAL ASSESSMENT LETTER - SURRY POWER STATION (NRC  
INSPECTION REPORT 05000280/2010001 AND 05000281/2010001)**

Dear Mr. Heacock:

On February 11, 2009, the NRC technical staff completed its performance review of the Surry Power Station, Units 1 and 2. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 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 resultant inspection plan.

Overall, Surry Power Station 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 infrequently performed inspections which include: TI 2515/177, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal & Containment Spray System" and operator licensing exams.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2011. 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 mid-cycle review.

VEPCO

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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 <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (404) 562-4551 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Gerald J. McCoy, Chief  
Reactor Projects Branch 5  
Division of Reactor Projects

Docket Nos.: 50-280, 50-281  
License Nos.: DPR-32, DPR-37

Enclosure: Surry Inspection/Activity Plan

cc w/encl: (See page 3)

VEPCO

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cc w/encl:

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**Surry**  
**Inspection / Activity Plan**  
**03/01/2010 - 06/30/2011**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>OL EXAM - INITIAL EXAM PREP</b>		<b>4</b>
1	06/28/2010	07/02/2010	V23336	SURRY/JULY 2010 EXAM AT POWER FACILITIES	
			<b>PSB1EP - EMERGENCY PREPAREDNESS INSPECTION</b>		<b>1</b>
1,2	07/12/2010	07/16/2010	IP 7111402	Alert and Notification System Evaluation	
1,2	07/12/2010	07/16/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
1,2	07/12/2010	07/16/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	07/12/2010	07/16/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	07/12/2010	07/16/2010	IP 71151	Performance Indicator Verification	
			<b>OL EXAM - INITIAL EXAM - WEEK 1</b>		<b>4</b>
1	07/26/2010	07/30/2010	V23336	SURRY/JULY 2010 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM - WEEK 2</b>		<b>4</b>
1	08/02/2010	08/06/2010	V23336	SURRY/JULY 2010 EXAM AT POWER FACILITIES	
			<b>EB3ISI - UNIT 1 INSERVICE INSPECTION</b>		<b>1</b>
1	11/01/2010	11/05/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>PSB1-RP - RP OCCUPATIONAL WEEK 1</b>		<b>3</b>
1,2	11/01/2010	11/05/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	11/01/2010	11/05/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	11/01/2010	11/05/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	11/01/2010	11/05/2010	IP 71124.04	Occupational Dose Assessment	
1,2	11/01/2010	11/05/2010	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	11/01/2010	11/05/2010	IP 71151	Performance Indicator Verification	
			<b>PSB1-RP - RP OCCUPATIONAL WEEK2</b>		<b>2</b>
1,2	11/15/2010	11/19/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	11/15/2010	11/19/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	11/15/2010	11/19/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	11/15/2010	11/19/2010	IP 71124.04	Occupational Dose Assessment	
1,2	11/15/2010	11/19/2010	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	11/15/2010	11/19/2010	IP 71151	Performance Indicator Verification	
			<b>CDBI - COMPONENT DESIGN BASIS INSPECTION</b>		<b>5</b>
1,2	01/10/2011	01/14/2011	IP 7111121	Component Design Bases Inspection	
1,2	01/31/2011	02/04/2011	IP 7111121	Component Design Bases Inspection	
1,2	02/14/2011	02/18/2011	IP 7111121	Component Design Bases Inspection	
1,2	02/28/2011	03/04/2011	IP 7111121	Component Design Bases Inspection	
			<b>TI-177 - TI-177 GASEOUS INTRUSION</b>		<b>3</b>
1,2	03/21/2011	03/25/2011	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	

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

Enclosure

**Surry**  
**Inspection / Activity Plan**  
**03/01/2010 - 06/30/2011**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>EB3ISI - UNIT 2 INSERVICE INSPECTION</b>		<b>1</b>
2	04/25/2011	04/29/2011	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>4</b>
1,2	06/06/2011	06/10/2011	IP 71152B	Identification and Resolution of Problems	
1,2	06/20/2011	06/24/2011	IP 71152B	Identification and Resolution of Problems	
			<b>EB3HS - HEAT SINK</b>		<b>1</b>
1,2	06/13/2011	06/17/2011	IP 7111107T	Heat Sink Performance	
			<b>PSB1-RP - RP PUBLIC RADIATION PROTECTION INSPT</b>		<b>4</b>
1,2	06/13/2011	06/17/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	06/13/2011	06/17/2011	IP 71124.04	Occupational Dose Assessment	
1,2	06/13/2011	06/17/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1,2	06/13/2011	06/17/2011	IP 71124.07	Public Radiation Safety	
1,2	06/13/2011	06/17/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1,2	06/13/2011	06/17/2011	IP 71151	Performance Indicator Verification	

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Enclosure