



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

September 1, 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

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN – SURRY  
POWER STATION

Dear Mr. Heacock:

On August 12, 2010, the NRC staff completed its performance review of 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 July 1, 2009, through June 30, 2010. 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 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 resultant inspection plan.

Plant performance for the most recent quarter at Surry Power Station 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). 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: TI 2515/172, Reactor Coolant System Dissimilar Metal Butt Welds; TI 2515/177, Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal & Containment Spray System; and TI 2515/179, National Source Tracking System Verification.

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

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 404-997-4551 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 (09/01/2010 – 12/31/2011)

cc w/encl:

Gerald T. Bischof  
Site Vice President  
Surry Power Station  
Virginia Electric and Power Company  
Electronic Mail Distribution

B. L. (Sonny) Stanley  
Director, Nuclear Safety and Licensing  
Virginia Electric and Power Company  
Electronic Mail Distribution

Lillian M. Cuoco, Esq.  
Senior Counsel  
Dominion Resources Services, Inc.  
Electronic Mail Distribution

Chris L. Funderburk  
Director, Nuclear Licensing & Operations Support  
Virginia Electric and Power Company  
Electronic Mail Distribution

Ginger L. Melton  
Virginia Electric and Power Company  
Electronic Mail Distribution

Virginia State Corporation Commission  
Division of Energy Regulation  
P.O. Box 1197  
Richmond, VA 23209

Attorney General  
Supreme Court Building  
900 East Main Street  
Richmond, VA 23219

Senior Resident Inspector  
Surry Power Station  
U.S. Nuclear Regulatory Commission  
5850 Hog Island Rd  
Surry, VA 23883

Michael M. Cline  
Director  
Virginia Department of Emergency Services Management  
Electronic Mail Distribution

**Surry**  
**Inspection / Activity Plan**  
**09/01/2010 - 12/31/2011**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
<b>PSB1EP - EMERGENCY PREPAREDNESS INSPECTION</b>					<b>2</b>
1,2	09/07/2010	09/11/2010	IP 7111402	Alert and Notification System Testing	
1,2	09/07/2010	09/11/2010	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	09/07/2010	09/11/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	09/07/2010	09/11/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	09/07/2010	09/11/2010	IP 71151	Performance Indicator Verification	
<b>EB3ISI - UNIT 1 INSERVICE INSPECTION</b>					<b>1</b>
1	11/01/2010	11/05/2010	IP 7111108P	Inservice Inspection Activities - PWR	
<b>EB3SGISI - UNIT 1 SG 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>2</b>
1,2	11/01/2010	11/05/2010	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
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>3</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>PSB1-TI - TI-179 NSTS VERIFICATION</b>					<b>1</b>
1,2	11/15/2010	11/19/2010	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
<b>OL RQ - REQUAL INSPECTION</b>					<b>3</b>
1,2	01/24/2011	01/28/2011	IP 7111111B	Licensed Operator Requalification Program	
<b>TI-177 - TI-177 GASEOUS INTRUSION</b>					<b>2</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	
<b>EB3ISI - UNIT 2 INSERVICE INSPECTION</b>					<b>1</b>
2	04/25/2011	04/29/2011	IP 7111108P	Inservice Inspection Activities - PWR	
<b>EB3SGISI - UNIT 2 SG INSERVICE INSPECTION</b>					<b>1</b>
2	04/25/2011	04/30/2011	IP 7111108P	Inservice Inspection Activities - PWR	

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

Enclosure

**Surry**  
**Inspection / Activity Plan**  
**09/01/2010 - 12/31/2011**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
<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	Radiological Environmental Monitoring Program	
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	
<b>EB3 LR - POST-APPROVAL INSPECTION FOR LR</b>					<b>5</b>
1,2	07/11/2011	07/15/2011	IP 71003	Post-Approval Site Inspection for License Renewal	
1,2	07/25/2011	07/29/2011	IP 71003	Post-Approval Site Inspection for License Renewal	
<b>PSB1EP - EMERGENCY PREPAREDNESS EXERCISE</b>					<b>3</b>
1,2	07/18/2011	07/22/2011	IP 7111401	Exercise Evaluation	
1,2	07/18/2011	07/22/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	07/18/2011	07/22/2011	IP 71151	Performance Indicator Verification	
<b>CDBI - COMPONENT DESIGN BASES INSPECTION</b>					<b>11</b>
1,2	10/31/2011	11/04/2011	IP 7111121	Component Design Bases Inspection	
1,2	11/14/2011	11/18/2011	IP 7111121	Component Design Bases Inspection	
1,2	11/28/2011	12/02/2011	IP 7111121	Component Design Bases Inspection	
1,2	12/12/2011	12/16/2011	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