



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

March 1, 2007

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

SUBJECT: ANNUAL ASSESSMENT LETTER - SURRY POWER STATION (NRC  
INSPECTION REPORT 05000280/2007001 AND 05000281/2007001)

Dear Mr. Christian:

On February 8, 2007, the NRC technical staff completed its performance review of the Surry Power Station for the period from January 1 through December 31, 2006. 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 physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in Accordance with 10 CFR 2.390" will include the physical protection review and a resultant inspection plan.

Overall, [Surry 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 previous three quarters, was within the Regulatory Response column of the NRC's Action Matrix, based on a White inspection finding in the Emergency Preparedness Cornerstone. The White inspection finding involved the licensee's drill critique not identifying that the proper emergency action level was not entered during a full scale exercise. The White finding was identified in the first quarter of calendar year 2006. The NRC conducted a Supplemental Inspection Procedure 95001, "Inspection for One or Two White Inputs In a Strategic Performance," in the Emergency Preparedness Cornerstone on November 15, 2006. Supplemental Inspection Report Nos. 05000280/2006502 and 05000281/2006502 documents no findings of significance were identified and the violation associated with the White finding was considered closed. Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting non-ROP inspections of the independent spent fuel storage facility and containment emergency recirculation sump blockage modifications. Additionally, initial reactor operator licensing examinations are scheduled.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through September 30, 2008. 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

ML070600375/Package  
ML070600379/Letter  
ML070600386/Enclosure

inspections are not listed due to their ongoing and continuous nature. The inspections in the last twelve 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 Mr. Guthrie at (404) 562-4662 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Charles A. Casto, Director  
Division of Reactor Projects

Docket No.: 50-280, 50-281, 72-002, 72-055  
Licensee No.: DPR-32, DPR-37, SNM-2501

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**  
**03/01/2007 - 09/30/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>ISFSI</b>	<b>- ISFSI DRY RUN NUHOMS CASK</b>	<b>4</b>			
1,2	IP 60854	Preoperational Testing Of An ISFSI		05/07/2007	05/18/2007	Other Routine
1,2	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating F		05/07/2007	05/18/2007	Other Routine
	<b>60855.1</b>	<b>- OPERATIONAL ISFSI INSPECTION BY RESIDENT</b>	<b>1</b>			
1	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		06/01/2007	06/11/2007	Other Routine
	<b>EB1-MODS</b>	<b>- MODIFICATIONS-10CFR50.59</b>	<b>4</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		06/11/2007	06/15/2007	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		06/11/2007	06/15/2007	Baseline Inspections
	<b>PSB1-EP</b>	<b>- EP EXERCISE</b>	<b>3</b>			
1,2	IP 7111401	Exercise Evaluation		06/25/2007	06/29/2007	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		06/25/2007	06/29/2007	Baseline Inspections
1,2	IP 71151-EP01	Drill/Exercise Performance		06/25/2007	06/29/2007	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		06/25/2007	06/29/2007	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		06/25/2007	06/29/2007	Baseline Inspections
	<b>PSB1-RP</b>	<b>- RP PUBLIC BASELINE</b>	<b>1</b>			
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		07/09/2007	07/13/2007	Baseline Inspections
	<b>PI&amp;R</b>	<b>- PROBLEM IDENTIFICATION &amp; RESOLUTION</b>	<b>4</b>			
1,2	IP 71152B	Identification and Resolution of Problems		09/24/2007	09/28/2007	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		10/08/2007	10/12/2007	Baseline Inspections
	<b>PSB1-RP</b>	<b>- RP OCCUPATIONAL PRE-INSP VISIT/ISFSI</b>	<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		10/01/2007	10/03/2007	Baseline Inspections
	<b>PSB1-RP</b>	<b>- RP OCCUPATIONAL BASELINE INSP WK1</b>	<b>2</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		10/22/2007	10/26/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		10/22/2007	10/26/2007	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		10/22/2007	10/26/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		10/22/2007	10/26/2007	Baseline Inspections
	<b>EB3-ISI</b>	<b>- U1 INSERVICE INSPECTION</b>	<b>2</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		10/29/2007	11/02/2007	Baseline Inspections
	<b>EB3SGISI</b>	<b>- U1 STEAM GENERATOR ISI</b>	<b>2</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		11/05/2007	11/09/2007	Baseline Inspections
	<b>PSB1-RP</b>	<b>- RP OCCUPATIONAL BASLINE INSP WK 2</b>	<b>3</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		11/05/2007	11/09/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		11/05/2007	11/09/2007	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		11/05/2007	11/09/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		11/05/2007	11/09/2007	Baseline Inspections

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

Enclosure

**Surry**  
**Inspection / Activity Plan**  
**03/01/2007 - 09/30/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>EB1-SUMP - PWR CONTAINMENT SUMP BLOCKAGE TI (U-1)</b>		<b>1</b>			
1	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		11/13/2007	11/16/2007	Safety Issues
	<b>EB1-CDBI - COMPONENT DESIGN BASES INSPECTION</b>		<b>6</b>			
1,2	IP 7111121	Component Design Bases Inspection		01/14/2008	01/18/2008	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		01/28/2008	02/01/2008	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		02/11/2008	02/15/2008	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		02/25/2008	02/29/2008	Baseline Inspections
	<b>OL EXAM - INITIAL EXAM PREP</b>		<b>3</b>			
1	V23279	SURRY/MARCH 2008 EXAM AT POWER FACILITIES		02/25/2008	02/29/2008	Not Applicable
	<b>OL EXAM - INITIAL EXAM</b>		<b>3</b>			
1	V23279	SURRY/MARCH 2008 EXAM AT POWER FACILITIES		03/17/2008	03/28/2008	Not Applicable
	<b>EB3-ISI - UNIT 2 - ISI</b>		<b>1</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		04/28/2008	05/02/2008	Baseline Inspections
	<b>EB1-SUMP - TI 2515/166 CONTAINMENT SUMP INSPECTION</b>		<b>1</b>			
2	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		05/12/2008	05/16/2008	Safety Issues
	<b>EB3-HS - HEAT SINK</b>		<b>1</b>			
1,2	IP 7111107B	Heat Sink Performance		06/02/2008	06/06/2008	Baseline Inspections
	<b>PSB1-RP - RADIATION PROTECTION PREINSPECTION VISIT</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		06/16/2008	06/20/2008	Baseline Inspections
	<b>PSB1-EP - EP INSP</b>		<b>1</b>			
1,2	IP 7111402	Alert and Notification System Testing		07/14/2008	07/18/2008	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		07/14/2008	07/18/2008	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		07/14/2008	07/18/2008	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		07/14/2008	07/18/2008	Baseline Inspections
1,2	IP 71151-EP01	Drill/Exercise Performance		07/14/2008	07/18/2008	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		07/14/2008	07/18/2008	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		07/14/2008	07/18/2008	Baseline Inspections
	<b>PSB1-RP - RADIATION PROTECTION PUBLIC BASELINE</b>		<b>4</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		07/28/2008	08/01/2008	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		07/28/2008	08/01/2008	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		07/28/2008	08/01/2008	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		07/28/2008	08/01/2008	Baseline Inspections
1,2	IP 71151-OR01	Occupational Exposure Control Effectiveness		07/28/2008	08/01/2008	Baseline Inspections
1,2	IP 71151-PR01	RETS/ODCM Radiological Effluent		07/28/2008	08/01/2008	Baseline Inspections

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