



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 and 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 - NORTH ANNA POWER STATION  
(NRC INSPECTION REPORT 05000338/2007001 AND 05000339/2007001)

Dear Mr. Christian:

On February 8, 2007, the NRC technical staff completed its performance review of the North Anna 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, North Anna 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 in 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 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 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.

ML070600468/Package  
ML070600472/Letter  
ML070600480/Enclosure

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2

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) 562-4662 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Eugene F. Guthrie, Chief  
Reactor Projects Branch 5  
Division of Reactor Projects

Docket No.: 50-338, 50-339  
Licensee No.: NPF-4, NPF-7

Enclosure: North Anna Inspection/Activity Plan

cc w/encl: (See page 3)

VEPCO

3

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

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>EB3-ISI - U2 INSERVICE INSPECTION</b>		<b>2</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		03/26/2007	03/30/2007	Baseline Inspections
	<b>EB3SGISI - U2 STEAM GENERATOR ISI</b>		<b>3</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		04/02/2007	04/06/2007	Baseline Inspections
	<b>EB1-SUMP - PWR U2 CONTMT SUMP BLOCKAGE TI 2515/166</b>		<b>1</b>			
2	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		04/08/2007	04/13/2007	Safety Issues
	<b>PSB1-RP - RP PUBLIC PRE-INSP VISIT/ISFSI</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		04/30/2007	05/02/2007	Baseline Inspections
	<b>PSB1-RP - RP PUBLIC BASELINE INSPECTION</b>		<b>4</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		06/11/2007	06/15/2007	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		06/11/2007	06/15/2007	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		06/11/2007	06/15/2007	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		06/11/2007	06/15/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		06/11/2007	06/15/2007	Baseline Inspections
	<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>5</b>			
1,2	IP 71152B	Identification and Resolution of Problems		07/16/2007	07/20/2007	Baseline Inspections
1,2	IP 71152B	Identification and Resolution of Problems		07/30/2007	08/03/2007	Baseline Inspections
	<b>60854 - ISFSI DRY RUN FOR NUHOMS SYSTEM</b>		<b>1</b>			
1	IP 60854	Preoperational Testing Of An ISFSI		07/02/2007	07/06/2007	Other Routine
	<b>60855.1 - OPERATIONAL ISFSI INSPECTION BY RESIDENT</b>		<b>1</b>			
1	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		07/09/2007	07/13/2007	Other Routine
	<b>PSB1-EP - EP INSP</b>		<b>1</b>			
1,2	IP 7111402	Alert and Notification System Testing		08/06/2007	08/10/2007	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		08/06/2007	08/10/2007	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/06/2007	08/10/2007	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		08/06/2007	08/10/2007	Baseline Inspections
1,2	IP 71151-EP01	Drill/Exercise Performance		08/06/2007	08/10/2007	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		08/06/2007	08/10/2007	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		08/06/2007	08/10/2007	Baseline Inspections
	<b>EB3-ISI - U1 INSERVICE INSPECTION</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		09/17/2007	09/21/2007	Baseline Inspections
	<b>EB3SGISI - U1 STEAM GENERATOR ISI</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		09/24/2007	09/28/2007	Baseline Inspections
	<b>EB1-SUMP - PWR U1 CONTMT SUMP BLOCKAGE TI 2151/166</b>		<b>1</b>			
1	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		09/30/2007	10/05/2007	Safety Issues

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

Enclosure

**North Anna**  
**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>OL RQ - REQUAL INSPECTION</b>		<b>1</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		01/14/2008	01/18/2008	Baseline Inspections
	<b>OL PREP - INITIAL EXAM PREP</b>		<b>3</b>			
1	V23283	NORTH ANNA/JUNE 2008 EXAM AT POWER FACILITIES		05/12/2008	05/16/2008	Not Applicable
	<b>EB1-MODS - MODIFICATIONS-10CFR50.59</b>		<b>4</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		06/02/2008	06/06/2008	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		06/02/2008	06/06/2008	Baseline Inspections
	<b>OL EXAM - INITIAL EXAM - WEEK 1</b>		<b>3</b>			
1	V23283	NORTH ANNA/JUNE 2008 EXAM AT POWER FACILITIES		06/02/2008	06/06/2008	Not Applicable
	<b>OL EXAM - INITIAL EXAM - WEEK 2</b>		<b>3</b>			
1	V23283	NORTH ANNA/JUNE 2008 EXAM AT POWER FACILITIES		06/16/2008	06/20/2008	Not Applicable
	<b>EB3-HS - HEAT SINK</b>		<b>1</b>			
1,2	IP 7111107B	Heat Sink Performance		06/23/2008	06/27/2008	Baseline Inspections
	<b>EB3 - MR - MAINT RULE</b>		<b>1</b>			
1,2	IP 7111112B	Maintenance Effectiveness		07/14/2008	07/18/2008	Baseline Inspections
	<b>PSB1-EP - EP EXERCISE</b>		<b>3</b>			
1,2	IP 7111401	Exercise Evaluation		07/21/2008	07/25/2008	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		07/21/2008	07/25/2008	Baseline Inspections
1,2	IP 71151-EP01	Drill/Exercise Performance		07/21/2008	07/25/2008	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		07/21/2008	07/25/2008	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		07/21/2008	07/25/2008	Baseline Inspections
	<b>PSB1-RP - RADIATION PROTECTION PREINSPECTION VISIT</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		08/11/2008	08/13/2008	Baseline Inspections
	<b>PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK1</b>		<b>2</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		09/15/2008	09/19/2008	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		09/15/2008	09/19/2008	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		09/15/2008	09/19/2008	Baseline Inspections
1,2	IP 71151-OR01	Occupational Exposure Control Effectiveness		09/15/2008	09/19/2008	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		09/15/2008	09/19/2008	Baseline Inspections
	<b>EB3-ISI - UNIT 2 - ISI</b>		<b>1</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		09/22/2008	09/26/2008	Baseline Inspections
	<b>PSB1-RP - RADIATION PROTECTION OCCUPATIONAL WK2</b>		<b>3</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		09/29/2008	10/03/2008	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		09/29/2008	10/03/2008	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		09/29/2008	10/03/2008	Baseline Inspections

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03/01/2007 - 09/30/2008

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	<b>PSB1-RP</b>	<b>- RADIATION PROTECTION OCCUPATIONAL WK2</b>	<b>3</b>			
1, 2	IP 71151-OR01	Occupational Exposure Control Effectiveness		09/29/2008	10/03/2008	Baseline Inspections
2	IP 71151-PR01	RETS/ODCM Radiological Effluent		09/29/2008	10/03/2008	Baseline Inspections

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