



**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 - NORTH ANNA POWER STATION (NRC  
INSPECTION REPORT 05000338/2010001 AND 05000339/2010001)**

Dear Mr. Heacock:

On February 11, 2009, the NRC technical staff completed its performance review of the North Anna 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 a resultant inspection plan.

Overall, North Anna 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: Temporary Instruction (TI) 2515/172 "Reactor Coolant System Dissimilar Metal Butt Welds" 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.

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.: 50-338, 50-339  
License Nos.: NPF-4, NPF-7

Enclosure: North Anna Inspection/Activity Plan

cc w/encl: (See page 3)

cc w/encl:

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**North Anna**  
**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 ISI</b>		<b>1</b>
1	03/22/2010	03/26/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EB3TI172 - EB3 RCS DM BUTT WELDS</b>		<b>1</b>
1,2	03/22/2010	03/26/2010	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			<b>EB3SGISI - UNIT 2 SGISI</b>		<b>1</b>
2	03/29/2010	04/02/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>OL EXAM - INITIAL EXAM PREP</b>		<b>5</b>
1	05/17/2010	05/21/2010	V23333	NORTH ANNA/JUNE 2010 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM - WEEK 1</b>		<b>5</b>
1	06/07/2010	06/11/2010	V23333	NORTH ANNA/JUNE 2010 EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL EXAM - WEEK 2</b>		<b>5</b>
1	06/21/2010	07/02/2010	V23333	NORTH ANNA/JUNE 2010 EXAM AT POWER FACILITIES	
			<b>PSB1EP - EMERGENCY PREPAREDNESS EXERCISE</b>		<b>3</b>
1,2	07/19/2010	07/23/2010	IP 7111401	Exercise Evaluation	
1,2	07/19/2010	07/23/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	07/19/2010	07/23/2010	IP 71151	Performance Indicator Verification	
			<b>PSB1-RP - RP OCCUPATIONAL BASELINE WEEK1</b>		<b>2</b>
1,2	09/13/2010	09/17/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	09/13/2010	09/17/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	09/13/2010	09/17/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	09/13/2010	09/17/2010	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	09/13/2010	09/17/2010	IP 71151	Performance Indicator Verification	
			<b>EB3ISI - UNIT 1 INSERVICE INSPECTION</b>		<b>1</b>
1	09/20/2010	09/24/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EB3TI172 - EB3 RX COOLANT SYS DM BUTT WELDS</b>		<b>1</b>
2	09/20/2010	09/24/2010	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			<b>PSB1-RP - RP OCCUPATIONAL BASELINE WEEK2</b>		<b>2</b>
1,2	09/27/2010	10/01/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	09/27/2010	10/01/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	09/27/2010	10/01/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	09/27/2010	10/01/2010	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	09/27/2010	10/01/2010	IP 71151	Performance Indicator Verification	
			<b>EB3HS - HEAT SINK</b>		<b>1</b>
1,2	02/14/2011	02/18/2011	IP 7111107T	Heat Sink Performance	

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**  
**03/01/2010 - 06/30/2011**

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	04/11/2011	04/15/2011	IP 71152B	Identification and Resolution of Problems	
1,2	04/25/2011	04/29/2011	IP 71152B	Identification and Resolution of Problems	
<b>MODS - MODIFICATION/50.59 INSPECTION</b>					<b>3</b>
1,2	05/09/2011	05/13/2011	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1,2	05/23/2011	05/27/2011	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	

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Enclosure