



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

September 4, 2012

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

**SUBJECT: MID-CYCLE LETTER FOR NORTH ANNA POWER STATION UNITS 1 AND 2 -  
NRC ASSESSMENT REPORT 05000338, 339/2012006**

Dear Mr. Heacock:

On August 16, 2012, the NRC completed its mid-cycle performance review of North Anna Power Station Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2011, through June 30, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This assessment reflects the integration of the Security Cornerstone into the ROP performance assessment program governed by IMC 0305, "Operating Reactor Assessment Program." The security inspection plan will be sent via separate correspondence.

The NRC determined the performance at North Anna Power Station Units 1 and 2 during the most recent quarter was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because a White finding for both units in Mitigating Systems cornerstone was issued on May 8, 2012, for failure to establish and maintain emergency diesel generator (EDG) maintenance procedures associated with the 2H EDG jacket water cooling inlet jumper gasket. The NRC determined that both units had been in the Regulatory Response Column since the fourth quarter of 2011.

On July 26, 2012, your staff notified the NRC of your readiness for it to conduct a supplemental inspection to review the actions taken to address the performance issue. Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," beginning September 10, 2012. This inspection procedure is conducted to provide assurance that the root causes and contributing causes of risk significant performance issues are understood, the extent of condition is identified, and the corrective actions are sufficient to prevent recurrence.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. In addition to the baseline inspections, we will conduct the Operating License Initial Exam, Temporary Instruction (TI) 2515/177, Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, TI 2515/182, Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks, and consistent with the Agency's actions related to Fukushima, TI-2515/187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-2515/188 "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." Routine inspections performed by the resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

In accordance with 10 CFR 2.390 of the NRC's Rules of Practice, a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's Agencywide Document Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact Gerald McCoy at 404-997-4551 with any questions you may have regarding this letter.

Sincerely,

*/RA/*

Richard P. Croteau, Director  
Division of Reactor Projects

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

Enclosure: North Anna Inspection/ Activity Plan (09/01/2012 – 12/31/2013)

cc w/Encl: (See page 3)

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. In addition to the baseline inspections, we will conduct the Operating License Initial Exam, Temporary Instruction (TI) 2515/177, Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, TI 2515/182, Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks, and consistent with the Agency's actions related to Fukushima, TI-2515/187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-2515/188 "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." Routine inspections performed by the resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

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cc w/Encl: (See page 3)

PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE       NON-SENSITIVE  
ADAMS:  Yes      ACCESSION NUMBER: \_\_\_\_\_       SUNSI REVIEW COMPLETE  FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP					
SIGNATURE	SON /RA/	GJM /RA/					
NAME	SNinh	GMcCoy					
DATE	08/23/2012	08/28/2012					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

D. Heacock

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cc w/encl:  
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D. Heacock

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Letter to David A. Heacock from Richard P. Croteau dated September 4, 2012

SUBJECT: MID-CYCLE LETTER FOR NORTH ANNA POWER STATION UNITS 1 AND 2 -  
NRC ASSESSMENT REPORT 05000338, 339/2012006

Distribution w/encl:

C. Evans, RII

L. Douglas, RII

OE Mail

RIDSNRRDIRS

PUBLIC

RidsNrrPMNorthAnna Resource

INPO

ROP Reports

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1, 2	09/09/2012 09/14/2012	<b>DRP/RPB5 - 95001 SUPPLEMENTAL INSPECTION</b> IP 95001	Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area	2
1	09/10/2012 09/14/2012	<b>OL EXAM - INITIAL EXAM - WEEK 1</b> V23372	NORTH ANNA / SEPTEMBER 2012 EXAM AT POWER FACILITIES	3
1, 2	10/22/2012 10/26/2012	<b>TI-177 - TI-177</b> IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	4
1, 2	11/06/2012 11/08/2012	<b>NA TFPI - TRIENNIAL FIRE PROTECTION INSPECTION</b> IP 7111105T	Fire Protection [Triennial]	4
1, 2	11/26/2012 11/30/2012	IP 7111105T	Fire Protection [Triennial]	
1, 2	12/10/2012 12/14/2012	IP 7111105T	Fire Protection [Triennial]	
1, 2	01/07/2013 01/11/2013	<b>TI-182 - TI-182 BURIED PIPING/TANK - PHASE 1</b> IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	1
1, 2	03/11/2013 03/15/2013	<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b> IP 71152B	Problem Identification and Resolution	5
1, 2	03/25/2013 03/29/2013	IP 71152B	Problem Identification and Resolution	
2	04/15/2013 04/19/2013	<b>ISI - UNIT 2 INSERVICE INSPECTION</b> IP 7111108P	Inservice Inspection Activities - PWR	1
1, 2	05/13/2013 05/17/2013	<b>PSB1-RP - RP PUBLIC RAD SAFETY BASELINE</b> IP 71124.01	Radiological Hazard Assessment and Exposure Controls	4
1, 2	05/13/2013 05/17/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	05/13/2013 05/17/2013	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	05/13/2013 05/17/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	05/13/2013 05/17/2013	IP 71151	Performance Indicator Verification	
1, 2	06/24/2013 06/28/2013	<b>EP - MERGENCY PREPAREDNESS INSPECTION</b> IP 7111402	Alert and Notification System Testing	1
1, 2	06/24/2013 06/28/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	06/24/2013 06/28/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	06/24/2013 06/28/2013	IP 71151	Performance Indicator Verification	
1	09/16/2013 09/20/2013	<b>ISI - UNIT 1 INSERVICE INSPECTION</b> IP 7111108P	Inservice Inspection Activities - PWR	1

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

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
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1	09/23/2013 09/27/2013	SGISI - UNIT 1 SG INSERVICE INSPECTION IP 7111108P	Inservice Inspection Activities - PWR	1
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Comments:

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