



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

March 5, 2012

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: ANNUAL ASSESSMENT LETTER FOR NORTH ANNA POWER STATION,  
UNITS 1 AND 2 – REPORT 05000338/2011007 AND 05000339/2011007

Dear Mr. Heacock:

On February 15, 2012, the NRC completed its end-of-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 January 1, 2011, through December 31, 2011. 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 performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined that overall, North Anna Power Station, Units 1 and 2, operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at North Anna Power Station Units 1 and 2, during the most recent quarter, was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

Although plant performance was within the Licensee Response Column, the NRC has not yet finalized the significance of an Apparent Violation (AV) 05000339/2011005-02, Failure to Provide Adequate Guidance for Installation of 2H EDG Jacket Water Cooling Inlet Jumper. The final safety significance determination may affect the NRC's assessment of plant performance and the enclosed inspection plan.

The enclosed inspection plan lists the inspections scheduled through June 30, 2013. Routine inspections performed by 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 mid-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.

We also plan on conducting several non-ROP inspections which include: Temporary Instruction (TI) 2515/182, Review of Implementation of the Industry Initiative to Control Degradation of Underground Piping, TI 2515/177, Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal & Containment Spray System, and Operating License Initial Exam.

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 me at 404-997-4551 with any questions you may have regarding this letter.

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  
(03/01/2012 – 06/30/2013)

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**North Anna**  
**Inspection / Activity Plan**  
**03/01/2012 - 06/30/2013**

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity   | Title  | No. of Staff on Site |
|-------------|---------------------|-------------------|---|--|----------------------|
|             |                     |                   | <b>PSB1-RP</b> - OCCUPATIONAL RP BASELINE WK1                       |  | 3                    |
| 1,2         | 03/12/2012          | 03/16/2012        | IP 71124.01   | Radiological Hazard Assessment and Exposure Controls   |                      |
| 1,2         | 03/12/2012          | 03/16/2012        | IP 71124.02   | Occupational ALARA Planning and Controls   |                      |
| 1,2         | 03/12/2012          | 03/16/2012        | IP 71124.03   | In-Plant Airborne Radioactivity Control and Mitigation   |                      |
| 1,2         | 03/12/2012          | 03/16/2012        | IP 71124.04   | Occupational Dose Assessment   |                      |
| 1,2         | 03/12/2012          | 03/16/2012        | IP 71124.05   | Radiation Monitoring Instrumentation   |                      |
| 1,2         | 03/12/2012          | 03/16/2012        | IP 71151  | Performance Indicator Verification   | 5                    |
|             |                     |                   | <b>CDBI</b> - COMPONENT DESIGN BASES INSPECTION                     |  |                      |
| 1,2         | 04/30/2012          | 05/04/2012        | IP 7111121  | Component Design Bases Inspection  |                      |
| 1,2         | 05/21/2012          | 05/25/2012        | IP 7111121  | Component Design Bases Inspection  |                      |
| 1,2         | 06/04/2012          | 06/08/2012        | IP 7111121  | Component Design Bases Inspection  |                      |
| 1,2         | 06/18/2012          | 06/22/2012        | IP 7111121  | Component Design Bases Inspection  |                      |
|             |                     |                   | <b>EB3 ISI</b> - UNIT 1 INSERVICE INSPECTION & RPVH EXAMS           |  | 1                    |
| 1           | 03/19/2012          | 03/23/2012        | IP 7111108P   | Inservice Inspection Activities - PWR  |                      |
|             |                     |                   | <b>PSB1-RP</b> - OCCUPATIONAL RP BASELINE WK2                       |  | 3                    |
| 1,2         | 03/26/2012          | 03/30/2012        | IP 71124.01   | Radiological Hazard Assessment and Exposure Controls   |                      |
| 1,2         | 03/26/2012          | 03/30/2012        | IP 71124.02   | Occupational ALARA Planning and Controls   |                      |
| 1,2         | 03/26/2012          | 03/30/2012        | IP 71124.03   | In-Plant Airborne Radioactivity Control and Mitigation   |                      |
| 1,2         | 03/26/2012          | 03/30/2012        | IP 71124.04   | Occupational Dose Assessment   |                      |
| 1,2         | 03/26/2012          | 03/30/2012        | IP 71124.05   | Radiation Monitoring Instrumentation   |                      |
| 1,2         | 03/26/2012          | 03/30/2012        | IP 71151  | Performance Indicator Verification   |                      |
|             |                     |                   | <b>PSB1EP</b> - EMERGENCY PREPAREDNESS EXERCISE                     |  | 4                    |
| 1,2         | 07/09/2012          | 07/13/2012        | IP 7111401  | Exercise Evaluation  |                      |
| 1,2         | 07/09/2012          | 07/13/2012        | IP 7111404  | Emergency Action Level and Emergency Plan Changes  |                      |
| 1,2         | 07/09/2012          | 07/13/2012        | IP 71151  | Performance Indicator Verification   |                      |
| 1           | 08/13/2012          | 08/17/2012        | V23372  | NORTH ANNA / JUNE 2012 EXAM AT POWER FACILITIES  |                      |
|             |                     |                   | <b>OL EXAM</b> - INITIAL EXAM WEEK 1                                |  | 3                    |
| 1           | 09/10/2012          | 09/14/2012        | V23372  | NORTH ANNA / JUNE 2012 EXAM AT POWER FACILITIES  |                      |
| 1           | 09/17/2012          | 09/21/2012        | V23372  | NORTH ANNA / JUNE 2012 EXAM AT POWER FACILITIES  |                      |
|             |                     |                   | <b>OL EXAM</b> - INITIAL EXAM - WEEK 2                              |  | 3                    |
| 1,2         | 10/22/2012          | 10/26/2012        | IP 2515/177   | Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System |                      |
| 1,2         | 11/06/2012          | 11/08/2012        | IP 7111105T   | Fire Protection [Triennial]  | 4                    |
|             |                     |                   | <b>NA TFPI</b> - TRIENNIAL FIRE PROTECTION INSPECTION               |  |                      |
|             |                     |                   | 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  
03/01/2012 - 06/30/2013

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity  | No. of Staff on Site                                       |
|-------------|---------------------|-------------------|--|--|
| 1,2         | 11/26/2012          | 11/30/2012        | <b>NA TFPI</b> - TRIENNIAL FIRE PROTECTION INSPECTION  | 4  |
| 1,2         | 12/10/2012          | 12/14/2012        | IP 7111105T<br>IP 7111105T   | Fire Protection [Triennial]<br>Fire Protection [Triennial] |
| 1,2         | 12/03/2012          | 12/07/2012        | <b>TI-182</b> - TI-182 BURIED PIPING/TANK - PHASE 1  | 1  |
|             |                     |                   | Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping |  |
|             |                     |                   | <b>PI&amp;R</b> - PROBLEM IDENTIFICATION AND RESOLUTION  | 5  |
| 1,2         | 03/11/2013          | 03/15/2013        | IP 71152B  | Problem Identification and Resolution                      |
| 1,2         | 03/25/2013          | 03/29/2013        | IP 71152B  | Problem Identification and Resolution                      |

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