



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

March 3, 2008

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

SUBJECT: ANNUAL ASSESSMENT LETTER - NORTH ANNA POWER STATION  
(NRC INSPECTION REPORT 05000338/2008001 AND 05000339/2008001)

Dear Mr. Christian:

On February 6, 2008, the NRC staff completed its performance review of the North Anna Power Station. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2007. 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 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 review and 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 for 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 non-ROP inspections which include: TI 2515/171, "Verification of Site Specific Implementation of B.5.b Phase 2 & 3 Mitigating Strategies;" TI 2515/172, "Reactor Coolant System Dissimilar Metal Butt Welds," and an in-office review of TI 2515/166, "Pressurized Water Reactor Containment Sump Blockage."

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2009. 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) 562-4662 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 Nos.: 50-338, 50-339  
License Nos.: NPF-4, NPF-7

Enclosure: North Anna Inspection/Activity Plan (03/01/08 - 06/30/09)

cc w/encl.: (See page 3)

cc w/encl.:

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**North Anna**  
**Inspection / Activity Plan**  
**03/01/2008 - 06/30/2009**

| Unit Number | Inspection Activity                                       | Title   | No. of Staff on Site | Planned Dates |            | Inspection Type          |
|-------------|---|---|----------------------|---------------|------------|--------------------------|
|             |   |   |                      | Start         | End        |                          |
|             | <b>OL EXAM - INITIAL EXAM PREP</b>                        |   | <b>4</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>5</b>             |               |            |                          |
| 1, 2        | IP 7111117B   | Evaluations of Changes, Tests, or Experiments & Permanent Plant Modifications           |                      | 05/19/2008    | 05/23/2008 | Baseline Inspections     |
| 1, 2        | IP 7111117B   | Evaluations of Changes, Tests, or Experiments & Permanent Plant Modifications           |                      | 06/02/2008    | 06/06/2008 | Baseline Inspections     |
|             | <b>OL EXAM - INITIAL EXAM - WEEK 1</b>                    |   | <b>4</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>4</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   |                      | 07/07/2008    | 07/11/2008 | Baseline Inspections     |
|             | <b>TI-171 - B.5.B PHASE 2&amp;3</b>                       |   | <b>3</b>             |               |            |                          |
| 1, 2        | IP 2515/171   | Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies |                      | 07/14/2008    | 07/18/2008 | Generic Safety Inspectio |
|             | <b>PSB1-EP - EP EXERCISE</b>                              |   | <b>3</b>             |               |            |                          |
| 1, 2        | IP 7111401  | Exercise Evaluation   |                      | 07/21/2008    | 07/25/2008 | EP Baseline Inspection   |
| 1, 2        | IP 7111404  | Emergency Action Level and Emergency Plan Changes                                       |                      | 07/21/2008    | 07/25/2008 | EP Baseline Inspection   |
| 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>3</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>2</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     |
| 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     |

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

**North Anna**  
**Inspection / Activity Plan**  
**03/01/2008 - 06/30/2009**

| Unit Number | Inspection Activity                                     | Title  | No. of Staff on Site | Planned Dates |            | Inspection Type          |
|-------------|---|--|----------------------|---------------|------------|--------------------------|
|             |   |  |                      | Start         | End        |                          |
|             | <b>EB3TI172 - TI-172</b>                                |  | <b>2</b>             |               |            |                          |
| 1, 2        | IP 2515/172   | Reactor Coolant System Dissimilar Metal Butt Welds |                      | 10/27/2008    | 10/31/2008 | Generic Safety Inspectio |
|             | <b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b> |  | <b>5</b>             |               |            |                          |
| 1           | IP 71152B   | Identification and Resolution of Problems          |                      | 02/09/2009    | 02/13/2009 | Baseline Inspections     |
| 1           | IP 71152B   | Identification and Resolution of Problems          |                      | 02/23/2009    | 02/27/2009 | Baseline Inspections     |
|             | <b>EB3ISI - UNIT 1 ISI</b>                              |  | <b>1</b>             |               |            |                          |
| 1           | IP 7111108P   | Inservice Inspection Activities - PWR              |                      | 03/16/2009    | 03/20/2009 | Baseline Inspections     |