



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

August 30, 2004

Virginia Electric and Power Company
ATTN: Mr. David A. Christian
Sr. Vice President and
Chief Nuclear Officer
Innsbrook Technical Center - 2SW
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - NORTH
ANNA POWER STATION**

Dear Mr. Christian:

On August 4, 2004, the NRC staff completed its mid-cycle plant performance assessment of the North Anna Power Station. The mid-cycle review for North Anna involved the participation of all technical divisions in evaluating performance for the first half of the calendar year 2004 assessment cycle. The process included a review of 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 will allow you an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities. This performance review and the enclosed inspection plan do not include physical protection information. A separate mid-cycle performance review letter, designated and marked as "Proprietary Information in accordance with 10 CFR 2.390(d)(1)", will include the physical protection review and a resultant inspection plan.

Plant performance for the most recent quarter 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 only baseline inspections at your facility through March 31, 2006. We also plan on conducting several inspections which are not part of the routine baseline inspection program. These inspections include inspections associated with your Independent Spent Fuel Storage Installation, and safety issue inspections associated with reactor pressure vessel lower head penetration nozzle and reactor containment sump blockage. In addition, during the upcoming Unit 1 refueling outage, an inspection of your response to NRC Bulletin 2004-01: Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors, will be conducted.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2006. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved 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 end-of-cycle review meeting.

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 404-562-4510 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Kerry D. Landis, Chief
Reactor Projects Branch 5
Division of Reactor Projects

Docket Nos.: 50-338, 50-339, 72-16
License Nos.: NPF-4, NPF-7, SNM-2507

Enclosure: North Anna Inspection/Activity Plan

cc w/encl:

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North Anna
Inspection / Activity Plan
09/01/2004 - 03/31/2006

| Unit Number | Inspection Activity | Title | No. of Staff on Site | Planned Dates | | Inspection Type |
|----------------|---|---|-------------------------|---------------|------------|----------------------|
| | | | | Start | End | |
| | 2515/153 - U1 TI 2515/153 CONTMT SUMP BLOCKAGE | | 2 | | | |
| 1, 2 | IP 2515/153 | Reactor Containment Sump Blockage (NRC Bulletin 2003-01) | | 09/12/2004 | 10/12/2004 | Safety Issues |
| | 2515/152 - U-1 2515/152: RPV LOWER HEAD PENETRATION | | 1 | | | |
| 1 | IP 2515/152 | Reactor Pressure Vessel Lower Head Penetration Nozzles (NRC Bulletin 2003-02) | | 09/13/2004 | 09/15/2004 | Safety Issues |
| | EB2-ISI - U1 INSERVICE INSPECTION | | 2 | | | |
| 1 | IP 7111108P | Inservice Inspection Activities - PWR | | 09/13/2004 | 09/17/2004 | Baseline Inspections |
| | EB2SGISI - U1 SG ISI | | 1 | | | |
| 1 | IP 7111108P | Inservice Inspection Activities - PWR | | 09/20/2004 | 09/24/2004 | Baseline Inspections |
| | EB2IFI - CORRECTIVE ACTION FOR PIPE SUPPORTS | | 2 | | | |
| 1, 2 | IP 71152 | Identification and Resolution of Problems | | 01/03/2005 | 01/07/2005 | Baseline Inspections |
| | PI&R - PROBLEM IDENTIFICATION AND RESOLUTION | | 4 | | | |
| 1, 2 | IP 71152B | Identification and Resolution of Problems | | 01/10/2005 | 01/14/2005 | Baseline Inspections |
| | PI&R - PROBLEM IDENTIFICATION AND RESOLUTION | | 4 | | | |
| 1, 2 | IP 71152B | Identification and Resolution of Problems | | 01/24/2005 | 01/28/2005 | Baseline Inspections |
| | EB1SSDPC - SSDPC PRE-INSPECTION VISIT | | 2 | | | |
| 1, 2 | IP 7111121 | Safety System Design and Performance Capability | | 02/21/2005 | 02/25/2005 | Baseline Inspections |
| | EB1SSDPC - SAFETY SYSTEM DESIGN & PERF. CAPABILITY | | 6 | | | |
| 1, 2 | IP 7111121 | Safety System Design and Performance Capability | | 03/21/2005 | 03/25/2005 | Baseline Inspections |
| 1, 2 | IP 7111121 | Safety System Design and Performance Capability | | 04/11/2005 | 04/15/2005 | Baseline Inspections |
| | PS-RP - RP PUBLIC BASELINE & ISFSI | | 3 | | | |
| 1, 2 | IP 60855.1 | Operation of an Independent Spent Fuel Storage Installation at Operating Plants | | 07/18/2005 | 07/22/2005 | Other Routine |
| 1, 2 | IP 7112101 | Access Control to Radiologically Significant Areas | | 07/18/2005 | 07/22/2005 | Baseline Inspections |
| 1, 2 | IP 7112103 | Radiation Monitoring Instrumentation and Protective Equipment | | 07/18/2005 | 07/22/2005 | Baseline Inspections |
| 1, 2 | IP 7112201 | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems | | 07/18/2005 | 07/22/2005 | Baseline Inspections |
| 1, 2 | IP 7112203 | Radiological Environmental Monitoring Program | | 07/18/2005 | 07/22/2005 | Baseline Inspections |
| 1, 2 | IP 71151 | Performance Indicator Verification | | 07/18/2005 | 07/22/2005 | Baseline Inspections |
| | EB2-MR - MAINTENANCE RULE | | 1 | | | |
| 1, 2 | IP 7111112B | Maintenance Effectiveness | | 07/25/2005 | 07/29/2005 | Baseline Inspections |
| | OL EP - EP INSPECTION | | 1 | | | |
| 1, 2 | IP 7111402 | Alert and Notification System Testing | | 08/01/2005 | 08/05/2005 | Baseline Inspections |
| 1, 2 | IP 7111403 | Emergency Response Organization Augmentation Testing | | 08/01/2005 | 08/05/2005 | Baseline Inspections |
| 1, 2 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | | 08/01/2005 | 08/05/2005 | Baseline Inspections |
| 1, 2 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | | 08/01/2005 | 08/05/2005 | Baseline Inspections |
| 1, 2 | IP 71151 | Performance Indicator Verification | | 08/01/2005 | 08/05/2005 | Baseline Inspections |

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
09/01/2004 - 03/31/2006

| Unit Number | Inspection Activity | Title | No. of Staff on Site | Planned Dates | | Inspection Type |
|-------------|---|---------------------------------------|----------------------|---------------|------------|----------------------|
| | | | | Start | End | |
| | EB2-ISI - INSERVICE INSPECTION-U2 | | 1 | | | |
| 2 | IP 7111108P | Inservice Inspection Activities - PWR | | 10/24/2005 | 10/28/2005 | Baseline Inspections |
| | EB2SGISI - STEAM GENERATOR ISI | | 1 | | | |
| 1 | IP 7111108P | Inservice Inspection Activities - PWR | | 11/07/2005 | 11/11/2005 | Baseline Inspections |
| | EB1-TFP - FIRE PROTECTION-TRIENNIAL PRE INSP VISIT | | 4 | | | |
| 1,2 | IP 7111105T | Fire Protection | | 12/12/2005 | 12/16/2005 | Baseline Inspections |
| | EB1-TFP - FIRE PROTECTION-TRIENNIAL | | 4 | | | |
| 1,2 | IP 7111105T | Fire Protection | | 01/23/2006 | 01/27/2006 | Baseline Inspections |
| 1,2 | IP 7111105T | Fire Protection | | 02/06/2006 | 02/10/2006 | Baseline Inspections |