



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
SAM NUNN ATLANTA FEDERAL CENTER
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ATLANTA, GEORGIA 30303-8931

September 2, 2008

Mr. David A. Christian
President and Chief Nuclear Officer
Virginia Electric and Power Company
Innsbrook Technical Center
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 14, 2008, the NRC staff completed its performance review of North Anna Power Station Units 1 and 2 for the first half of the calendar year 2008 assessment cycle. Our technical staff reviewed 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 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 Physical Protection/Security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at North Anna Power Station Units 1 and 2 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; TI 2515/173 Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative; and TI 2515/176 Emergency Diesel Generator Technical Specification Surveillance Requirements Regarding Endurance and Margin Testing.

Additionally, the staff has identified a substantive cross-cutting issue, using the criteria in MC 0305, in the area of human performance with a cross-cutting theme in the aspect of resources, complete, accurate and up-to-date design documentation, procedures, work packages, and correct labeling of components (H.2.c). This was the result of four findings in the twelve month assessment period with the same cross-cutting aspect of H.2.c. On April 18, 2008, North Anna Power Station initiated condition report (CR) 96021 due to the potential identification of three findings in the area of human performance, resources (H.2.c) that were debriefed by the Resident Inspectors during the first quarter 2008 exit meeting. We understand that corrective

actions are in progress, as discussed with NRC Region II Management during a public meeting held July 16, 2008. Additional corrective actions are scheduled for completion by the end of 2008. The substantive cross-cutting issue can be cleared, if your corrective actions in this area are effective as demonstrated by no new findings with the same cross-cutting aspect for the remainder of 2008. We will continue to monitor the progress of your corrective actions, and evaluate this issue during the end of cycle assessment.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 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 end-of-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 the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 404-562-4612 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Mark A. Bates, Acting 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 next page)

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SIGNATURE	/RA/	/RA/					
NAME	JDodson	MBates					
DATE	9/ /2008	9/ /2008					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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