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

July 30, 2009

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

SUBJECT: NORTH ANNA POWER STATION - COMPONENT DESIGN BASES INSPECTION - NRC INSPECTION REPORT 05000338/2009007 AND 05000339/2009007

Dear Mr. Heacock

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a component design bases inspection at your North Anna Power Station Units 1 and 2 during the weeks of November 2-6, November 16-20, and December 7-11, 2009. The inspection team will be led by Mr. S. Rose, a Senior Operations Inspector from the NRC's Region II Office. This inspection will be conducted in accordance with the baseline inspection procedure, Procedure 71111.21, Component Design Bases Inspection, issued August 19, 2008.

The inspection will evaluate the capability of risk significant / low margin components to function as designed and to support proper system operation. The inspection will also include a review of selected operator actions, operating experience, and modifications.

During a telephone conversation on July 28, 2009, Mr. Rose confirmed with Mr. J. Leberstien of your staff, arrangements for an information gathering site visit and the three-week onsite inspection. The schedule is as follows:

- Information gathering visit: Week of October 19-23, 2009.
- Onsite weeks: November 2-6, November 16-20, and December 7-11, 2009.

The purpose of the information gathering visit is to meet with members of your staff to identify risk-significant components and operator actions. Information and documentation needed to support the inspection will also be identified. Mr. W. Rogers, a Region II Senior Reactor Analyst, may accompany Mr. Rose during the information gathering visit to review probabilistic risk assessment data and identify risk significant components which will be examined during the inspection.

Please provide the information requested in the enclosure to the Region II office by October 13, 2009. The enclosure lists documents that will be needed prior to the information gathering visit. The inspectors will try to minimize your administrative burden by specifically identifying only those documents required for the inspection preparation. Contact Mr. Rose with any questions related to the information request. During the information gathering visit, the team leader will also discuss the following inspection support administrative details: office space; supplemental documents requested to be made available to the team in the Region II office prior to the

inspection preparation week of October 26-30, 2009; arrangements for site access; and the availability of knowledgeable plant engineering and licensing personnel to serve as points of contact during the inspection.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be 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).

Thank you for your cooperation in this matter. If you have any questions regarding the information requested or the inspection, please contact Mr. Rose at (404) 562-4609 or me at (404) 562-4519.

Sincerely,

/RA/

Binoy B. Desai, Chief
Engineering Branch 1
Division of Reactor Safety

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

Enclosure: Information Request For North Anna Power Station Units 1 and 2 Component Design Bases Inspection

cc w/encl: (See page 3)

cc w/encl:
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Letter to David A. Heacock from Binoy Desai dated July 30, 2009.

SUBJECT: NORTH ANNA POWER STATION - COMPONENT DESIGN BASES INSPECTION - NRC INSPECTION REPORT 05000338/2009006 AND 05000339/2009006

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INFORMATION REQUEST FOR NORTH ANNA POWER STATION UNITS 1 AND 2 COMPONENT DESIGN BASES INSPECTION

Please provide the information electronically in ".pdf" files, Excel, or other searchable format on CDROM. The CDROM should be indexed and hyperlinked to facilitate ease of use. Information in "lists" should contain enough information to be easily understood to someone who has knowledge of pressurized water reactor technology.

1. From your most recent probabilistic safety analysis (PSA) **excluding** external events and fires, please provide:

   a. Two risk rankings of components from your site-specific probabilistic safety analysis (PSA) – one sorted by Risk Achievement Worth (RAW), and the other sorted by Birnbaum Importance.
   b. A list of the top 500 cutsets.

2. From your most recent probabilistic safety analysis (PSA) **including** external events and fires, please provide:

   a. Two risk rankings of components from your site-specific probabilistic safety analysis (PSA) – one sorted by Risk Achievement Worth (RAW), and the other sorted by Birnbaum Importance.
   b. A list of the top 500 cutsets.

3. Risk ranking of operator actions from your site specific PSA sorted by RAW. Provide copies of your human reliability worksheets for these items.

4. List of time critical operator actions with required completion times.

5. Any pre-existing evaluation or list of components and calculations with low design margins (i.e., pumps closest to the design limit for flow or pressure, diesel generator close to design required output, heat exchangers close to rated design heat removal, MOV risk-margin rankings, etc.).

6. A list of station applicability evaluations/reviews performed and documented in the station corrective action program in the past two years for industry events, critical equipment failures, and safety related equipment vulnerabilities (as communicated by NRC generic communications, industry communications, 10 CFR Part 21 notifications, etc.).

7. A list of operability evaluations completed within the last two years, sorted by associated component or system.

8. A list of **common-cause failures** of components that have occurred at the North Anna Power Station and have been identified within the last five years.

9. A list of equipment currently on the site's Key Equipment Priorities List, including a description of the reason(s) why each **component** (i.e. not a programmatic or system level concern) is on that list and summaries (if available) of your plans to address those reasons.

10. A list of equipment currently in RIS 05-020 (formerly GL 91-18) status, or in MR (a)(1) status.

11. Contact information for a person to discuss PRA information prior to the information gathering trip: name, title, phone number, and e-mail address.

12. Electronic copy of the FSAR, Technical Specifications and Bases.