



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

August 25, 2011

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, UNIT NOS. 1 AND 2 AND SURRY POWER  
STATION, UNIT NOS. 1 AND 2 – ENVIRONMENTAL ASSESSMENT AND  
FINDING OF NO SIGNIFICANT IMPACT (TAC NOS. ME5677, ME5678,  
ME5679, AND ME5680)

Dear Mr. Heacock:

Enclosed is a copy of the Environmental Assessment and Finding of No Significant Impact related to your application for exemption dated February 10, 2011, as supplemented on March 10 and May 26, 2011. The proposed action would provide exemption from the work hour control requirements of Title 10 of the *Code of Federal Regulations*, Part 26, Section 26.205(c) and (d) during declarations of severe weather conditions involving tropical storm or hurricane force winds. This letter is a reissuance of our letter on the same subject on August 11, 2011, in order to include reference to your submittal of May 26, 2011.

The assessment is being forwarded to the Office of the Federal Register for publication.

Sincerely,

A handwritten signature in cursive script that reads "Robert E. Martin".

Robert E. Martin, Senior Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-338, 50-339,  
50-280, and 50-281

Enclosure:  
Environmental Assessment

cc w/encl: Distribution via Listserv

UNITED STATES NUCLEAR REGULATORY COMMISSION

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NOS. 50-338 AND 50-339

NORTH ANNA POWER STATION, UNIT NOS. 1 AND 2

DOCKET NOS. 50-280 AND 50-281

SURRY POWER STATION, UNIT NOS. 1 AND 2

ENVIRONMENTAL ASSESSMENT AND FINDING OF

NO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (NRC) is considering issuance of an exemption from Title 10 of the *Code of Federal Regulations* (10 CFR) Part 26, "Fitness for Duty Programs," for Facility Operating License Nos. NPF-4 and NPF-7, issued to Virginia Electric Power Company (the licensee), for operation of the North Anna Power Station (NAPS) Unit Nos. 1 and 2, located in Louisa County, Virginia; and Facility Operating License Nos. DPR-32 and DPR-37, issued to the licensee, for operation of the Surry Power Station, Unit Nos. 1 and 2, located in Surry County, Virginia. Therefore, as required by 10 CFR 51.21, the NRC performed an environmental assessment. Based on the results of the environmental assessment, the NRC is issuing a finding of no significant impact.

ENVIRONMENTAL ASSESSMENT

Identification of the Proposed Action:

The proposed action would provide exemption from the work hour control requirements of 10 CFR 26.205(c) and (d) during declarations of severe weather conditions involving tropical storm or hurricane force winds.

The proposed action is in accordance with the licensee's application dated February 10, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession No.

ML110450583), as supplemented by letters dated March 10, 2011 (ADAMS Accession No. ML110740442) and May 26, 2011 (ADAMS Accession No. ML111470265).

The Need for the Proposed Action:

The proposed action extends the exception provided by 10 CFR 26.207(d) to include pre-defined entry and exit conditions related to hurricane events because the sequestering of plant personnel and related staff resource limitations may occur at times prior to and following the current entry and exit conditions (i.e., emergency declaration) specified in 10 CFR 26.207(d). Entry into a severe weather situation involving tropical storm or hurricane force winds can impose conditions similar to entry into the site emergency plan where the imposition of work hour controls on vital personnel could impede the ability to focus on plant safety and security, and may be detrimental to the health and safety of the public.

Environmental Impacts of the Proposed Action:

The NRC has completed its environmental assessment of the proposed action and concludes that extending the exception provided by 10 CFR 26.207(d) to include pre-defined entry and exit conditions related to hurricane events would not significantly affect plant safety, as it does not change the Technical Specification-required shift staffing. Additionally, the time from entry into the condition in which the work hour control exemption applies, to exiting the condition, is limited to severe weather situations involving tropical storm or hurricane force winds. The licensee states that the Hurricane Response Plan (Nuclear) and other plant-specific procedures ensure that adequate resources and guidance are in place to prepare for, respond to, and recover from severe weather conditions associated with tropical storm or hurricane force winds.

The proposed action will not significantly increase the probability or consequences of accidents. The proposed action would not result in an increased radiological hazard beyond those previously analyzed in the Final Safety Analysis Report. No changes are being made in

the types of effluents that may be released offsite. There is no significant increase in the amount of any effluent released offsite. There is no significant increase in occupational or public radiation exposure. No changes will be made to plant buildings or site property. Therefore, there are no significant radiological environmental impacts associated with the proposed action.

The proposed action does not result in changes to land use or water use, or result in changes to the quality or quantity of non-radiological effluents. No changes to the National Pollution Discharge Elimination System permits are needed. No effects on the aquatic or terrestrial habitat in the vicinity of the plant, or to threatened, endangered, or protected species under the Endangered Species Act, or impacts to fish habitat covered by the Magnusen-Stevens Act are expected. There are no impacts to the air or ambient air quality. There are no impacts to historical or cultural resources. There would be no noticeable effect on socioeconomic conditions in the region. Therefore, no changes or different types of non-radiological environmental impacts are proposed as a result of the proposed action.

Accordingly, the NRC concludes that there are no significant environmental impacts associated with the proposed action.

Environmental Impacts of the Alternatives to the Proposed Action:

As an alternative to the proposed action, the staff considered denial of the proposed action (i.e., the "no-action" alternative). Denial of the application would result in no change in current environmental impacts. Other alternatives to the proposed action include entry and exit conditions, other than those proposed by the licensee, which would change the duration in which the exemption is effective. The staff concludes that these alternatives would not have a significant impact. The environmental impacts of the proposed action and the alternative actions are similar.

Alternative Use of Resources:

The action does not involve the use of any different resources than those previously considered in the "Final Environmental Statement Related to the Continuation of Construction and the Operation" for NAPS dated April 1973, and Surry dated May 1972 and June 1972, respectively, as supplemented through NUREG-1437, "Generic Environmental Impact Statement for License Renewal of Nuclear Plants," Supplements 6 and 7, dated November 2002.

Agencies and Persons Consulted:

In accordance with its stated policy, on May 12, 2011, the staff consulted with the Virginia State official, Leslie Foldesi of the Department of Health, regarding the environmental impact of the proposed action. The State official had no comments.

FINDING OF NO SIGNIFICANT IMPACT

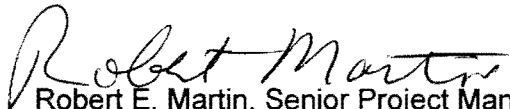
On the basis of the environmental assessment, the NRC concludes that the proposed action will not have a significant effect on the quality of the human environment. Accordingly, the NRC has determined not to prepare an environmental impact statement for the proposed action.

For further details with respect to the proposed action, see the licensee's letter dated February 10, 2011, as supplemented by letters dated March 10 and May 26, 2011. Documents may be examined, and/or copied for a fee, at the NRC's Public Document Room (PDR), located at One White Flint North, Public File Area O1 F21, 11555 Rockville Pike (first floor), Rockville, Maryland. Publicly available documents created or received at the NRC in the Agencywide Documents Access and Management System (ADAMS) are available online in the NRC Library at <http://www.nrc.gov/reading-rm/adams.html>. Persons who do not have access to ADAMS or who encounter problems in accessing the documents located in ADAMS should contact the

NRC PDR Reference staff by telephone at 1-800-397-4209 or 301-415-4737, or send an e-mail to [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov).

Dated at Rockville, Maryland, this 25<sup>th</sup> day of August 2011.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read "Robert Martin", written in a cursive style.

Robert E. Martin, Senior Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

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Sincerely,

**/RA/**

Robert E. Martin, Senior Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
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ADAMS Accession Nos. Letter ML11236A213

EA FRN ML11236A214

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DATE	8/25/11	8/24/11	8/25/11	8/24/11	8/25/11	8/25/11

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