

June 14, 1995

Mr. J. P. O'Hanlon  
Senior Vice President - Nuclear  
5000 Dominion Blvd.  
Glen Allen, Virginia 23060

SUBJECT: SURRY POWER STATION, UNITS 1 AND 2 - CORE UPRATE - (TAC NOS. M93604 AND M93605)

Dear Mr. O'Hanlon:

Enclosed is a copy of the Environmental Assessment and Finding of No Significant Impact related to your application for amendment dated August 30, 1994, as supplemented February 6, 1995, February 13, 1995, February 27, 1995, March 23, 1995, March 28, 1995, April 13, 1995, April 20, 1995, April 28, 1995, and May 5, 1995. The proposed amendments would increase the rated core power of 2441 Megawatts thermal (MW<sub>t</sub>) to 2546 MW<sub>t</sub>, which is an increase in rated core power of approximately 4.3 percent.

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

Sincerely,

(Original Signed By)

Bart C. Buckley, Senior Project Manager  
Project Directorate II-1  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket Nos. 50-280 and 50-281

Enclosure: Environmental Assessment

cc w/enclosure: See next page

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UNITED STATES NUCLEAR REGULATORY COMMISSION  
VIRGINIA ELECTRIC AND POWER COMPANY  
DOCKET NOS. 50-280 AND 50-281  
SURRY POWER STATION, UNITS 1 AND 2  
ENVIRONMENTAL ASSESSMENT AND FINDING OF  
NO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of amendments to Facility Operating License Nos. DPR-32 and DPR-37, issued to Virginia Electric and Power Company, (the licensee), for operation of the Surry Power Station, Units 1 and 2, located in Surry County, Virginia.

ENVIRONMENTAL ASSESSMENT

Identification of the Proposed Action:

The proposed action would increase the rated core power level at each Surry unit from 2441 Megawatts thermal (MW<sub>t</sub>) to 2546 MW<sub>t</sub> which is an increase in the rated core power of approximately 4.3 percent.

The proposed action is in accordance with the licensee's application for amendment dated August 30, 1994, as supplemented by letters dated February 6, 1995, February 13, 1995, February 27, 1995, March 23, 1995, March 28, 1995, April 13, 1995, April 20, 1995, April 28, 1995, and May 5, 1995.

The Need for the Proposed Action:

The proposed action would increase the electrical output for each unit by 34 Megawatts-electrical (MW<sub>e</sub>) and thus provide additional electrical power to the grid which services the commercial and domestic areas in the State of Virginia.

Environmental Impacts of the Proposed Action:

The Commission has completed its evaluation of the proposed action and concludes that a slight change in the environmental impact can be expected for the proposed increase in power. The proposed core uprating is projected to increase the rejected heat by 6 percent. However, the Environmental Report and the NRC-approved Final Environmental Impact Statement (FEIS), as amended, have already addressed plant operation up to a stretch core power of 2546 MW<sub>t</sub>. Thus, the 6 percent increase in rejected heat has already been evaluated and determined to not significantly impact on the quality of the human environment. Also, the proposed increase in core power involves no significant change in types or significant increase in the amounts of any effluents that may be released offsite which has not already been evaluated and approved in the FEIS, as amended, for a stretch core power level of 2546 MW<sub>t</sub>. Similarly, as enveloped by the FEIS, as amended, there would be no significant increase in individual or cumulative occupational radiation exposure. The waste heat will not exceed the  $12.0 \times 10^9$  BTUs per hour specified in the FEIS and the currently authorized value of  $12.6 \times 10^9$  BTUs per hour permitted by the Commonwealth of Virginia.

The change will not increase the probability or consequences of accidents, no changes are being made in the types of any effluents that may be released offsite, and there is no significant increase in the allowable individual or cumulative occupational radiation exposure. Accordingly, the Commission concludes that there are no significant radiological environmental impacts associated with the proposed action.

With regard to potential nonradiological impacts, the proposed action does involve features located entirely within the restricted area as defined in 10 CFR Part 20. Except for heat load, which is bounded by previous analysis, as described above, the amendment does not affect nonradiological plant effluents and has no other environmental impact. Accordingly, the Commission concludes that there are no significant nonradiological environmental impacts associated with the proposed action.

Alternatives to the Proposed Action:

Since the Commission has concluded there is no significant environmental impact associated with the proposed action, any alternatives with equal or greater environmental impact need not be evaluated. As an alternative to the proposed action, the staff considered denial of the proposed action. Denial of the application would result in no change in current environmental impacts. The environmental impacts of the proposed action and the alternative action are similar.

Alternative Use of Resources:

This action does not involve the use of any resources not previously considered in the Final Environmental Statement for the Surry Power Station, Units 1 and 2.

Agencies and Persons Consulted:

In accordance with its stated policy, on May 16, 1995, the staff consulted with the Virginia State official, L. Foldesi, of the State Health Department, regarding the environmental impact of the proposed action. The State official had no comments.

FINDING OF NO SIGNIFICANT IMPACT

Based upon the environmental assessment, the Commission concludes that the proposed action will not have a significant effect on the quality of the human environment. Accordingly, the Commission 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 August 30, 1994, as supplemented by letters dated February 6, 1995, February 13, 1995, February 27, 1995, March 23, 1995, March 28, 1995, April 13, 1995, April 20, 1995, April 28, 1995, and May 5, 1995, which are available for public inspection at the Commission's Public Document Room, The Gelman Building, 2120 L Street, NW., Washington, DC, and at the local public document room located at the Swem Library, College of William and Mary, Williamsburg, Virginia 23185.

Dated at Rockville, Maryland, this 14th day of June 1995.

FOR THE NUCLEAR REGULATORY COMMISSION



David B. Matthews, Director  
Project Directorate II-1  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation