

October 19, 1990

Docket Nos. 50-280  
and 50-281

Mr. W. L. Stewart  
Senior Vice President - Nuclear  
Virginia Electric and Power Company  
5000 Dominion Blvd.  
Glen Allen, Virginia 23060

Dear Mr. Stewart:

SUBJECT: SURRY UNITS 1 AND 2 - ENVIRONMENTAL ASSESSMENT AND FINDING OF  
NO SIGNIFICANT IMPACT RELATING TO AMENDMENTS FOR PRESSURE/  
TEMPERATURE LIMITS (TAC NOS. 67386, 67387, 71555 AND 71556)

Enclosed is a copy of an "Environmental Assessment and Finding of No  
Significant Impact" for your information. This notice relates to your  
application dated January 29, 1988, as supplemented February 20, 1989,  
regarding your request for amendments which would change the reactor coolant  
system pressure/temperature limits and the power operated relief valve  
setpoint for low temperature overpressure protection.

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

Sincerely,

/s/

Bart C. Buckley, Senior Project Manager  
Project Directorate II-2  
Division of Reactor Projects I/II  
Office of Nuclear Reactor Regulation

Enclosure:  
As stated

cc w/enclosure:  
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Surry Power Station

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UNITED STATES NUCLEAR REGULATORY COMMISSIONVIRGINIA ELECTRIC AND POWER COMPANYDOCKET NOS. 50-280 AND 50-281ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of license amendments revising the Technical Specifications for the Surry Power Station, Units 1 and 2, located in Surry County, Virginia. The proposed amendments change reactor coolant system pressure/temperature (P/T) limits and the power operated relief valve (PORV) setpoint for low temperature overpressure protection (LTOP).

ENVIRONMENTAL ASSESSMENTIdentification of Proposed Action:

The proposed amendments revise the reactor coolant system P/T limits based on evaluation of reactor vessel material properties expected for 15 effective full power years of operation (EFPY). The existing single P/T curve shown in Technical Specification Figure 3.1-1 is revised into two figures, representing P/T limits for heatup or cooldown, as appropriate. The amendments would limit the maximum plant heatup rate to 40°F/hr. The proposed amendments also revise the PORV setpoint for LTOP from 435 to 385 psig.

The Need for the Proposed Action:

The existing P/T and LTOP specifications are based on a maximum of 11 EFPY. Facility operation beyond this point requires new P/T curves and LTOP limits representative of future operating conditions, reflecting changes in

the reactor vessel material properties. The revisions provide operating limits to 15 EFPY. The revised P/T limits are also based on Regulatory Guide 1.99, Revision 2, and are consistent with guidance provided in Generic Letter 88-11.

Environmental Impacts of the Proposed Action:

The proposed amendments affect power plant operating limits, but do not change the manner in which the facility is operated. Therefore, the proposed amendments do not increase normal radiological effluents, or add to occupational exposure. The proposed amendments do not change the generation or decay of isotopes present during normal operation. Therefore, possible post-accident radiological releases will not be more severe than previously determined. Furthermore, the amendments do not affect nonradiological effluents, so there is no other environmental impact. Therefore, the Commission concludes that there are no significant radiological or nonradiological environmental impacts associated with the proposed amendments.

Alternatives to the Proposed Action:

Since the Commission has concluded there are no measurable environmental impacts associated with the proposed amendments, any alternatives will either have equivalent or greater impact.

The principal alternative would be to deny the requested amendments. This would not reduce environmental impacts of plant operation and would result in reduced operational flexibility.

Alternative Use of Resources:

The proposed amendments do not use resources in a manner other than that previously considered in the Final Environmental Statements dated May and June 1972 for Surry Units 1 and 2, respectively.

Agencies and Persons Consulted:

The NRC staff reviewed the licensee's request and did not consult other agencies or persons.

FINDING OF NO SIGNIFICANT IMPACT

Based on the foregoing environmental assessment, we conclude that the proposed action will not have a significant effect on the quality of the human environment. The Commission has therefore determined not to prepare an environmental impact statement for the proposed amendments.

For further details with respect to this action, see the application for amendments dated January 29, 1988, as supplemented February 20, 1989. These documents are available for public inspection at the Commission's Public Document Room, 2120 L Street, N.W., Washington, D.C., and at the Swem Library, College of William and Mary, Williamsburg, Virginia 23185.

Dated at Rockville, Maryland, this 19th day of October 1990.

FOR THE NUCLEAR REGULATORY COMMISSION



Jan A. Norris, Acting Director  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation