

UNITED STATES NUCLEAR REGULATORY COMMISSIONVIRGINIA ELECTRIC AND POWER COMPANYSURRY POWER STATION, UNIT NO. 1DOCKET NO. 50-280ENVIRONMENTAL ASSESSMENT ANDFINDING OF NO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of a one-time exemption from the requirements of Appendix R to 10 CFR Part 50 to Virginia Electric and Power Company (the licensee), for the Surry Power Station, Unit 1, located in Surry County, Virginia.

ENVIRONMENTAL ASSESSMENT:Identification of Proposed Action:

A one-time exemption would be granted from the requirements of Section III, Paragraph O of Appendix R to 10 CFR Part 50, which requires that the reactor coolant pump oil collection system be capable of collecting oil from potential pressurized and non-pressurized leakage sites and routing it to a vented, closed container of sufficient capacity to hold the entire lube oil system inventory.

The Need for the Proposed Action:

The Surry, Unit 1 reactor coolant pump (RCP) motor oil collection systems currently satisfy the requirements of Paragraph O. The Unit 1 "C" RCP motor required a routine, 5-year refurbishment at the end of Operating Cycle 10. This required that the RCP motor be shipped to an offsite facility. A replacement motor was purchased for the "C" pump. However, certain components of the new RCP motor have a different physical configuration than the existing "C" motor. Because of the configurational differences, the RCP oil collection

system from the "C" motor cannot be fitted to the new motor without extensive modifications which cannot be made within the current Cycle 10 refueling outage. Consequently, a one-time exemption was requested from Paragraph 0 to permit an interim oil collection method in conjunction with other compensatory measures to mitigate the consequences should a oil fire occur. The exemption would be effective through Operating Cycle 11, which is currently scheduled to commence on December 5, 1990 and end in February 1992.

Environmental Impact of the Proposed Action:

The proposed exemption would not degrade the level of safety attained by compliance with the rule and there would be no change in accident doses to the environment. Consequently, the probability of fires has not been increased and the post-fire radiological releases would not be greater than previously determined; nor does the proposed exemption otherwise affect radiological plant effluents. Therefore, the Commission concludes that there are no significant radiological environmental impacts associated with the proposed exemption.

With regard to potential nonradiological impacts, the proposed exemption involves features located entirely within the restricted area as defined in 10 CFR Part 20. The proposed exemption would not affect nonradiological plant effluents and has no other environmental impact. Therefore, the Commission concludes that there are no significant nonradiological environmental impacts associated with the proposed exemption.

Alternatives to the Proposed Action:

Since we have concluded that the environmental effects of the proposed action are not significant, any alternatives with equal or greater environmental impacts need not be evaluated.

The principal alternative would be to deny the requested exemption. This would not reduce the environmental impacts associated with fire protection modifications and would reduce operational flexibility.

Alternative Use of Resources:

The action does not involve the use of resources not previously considered in the Final Environmental Statement for the Surry Power Station, Unit No. 1.

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

The Commission has determined not to prepare an environmental impact statement for the proposed exemption.

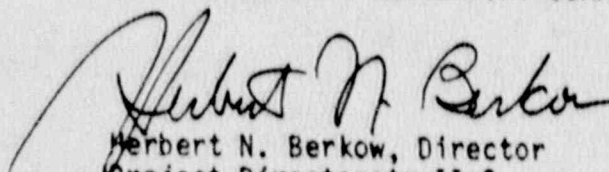
Based upon the foregoing environmental assessment, we conclude that the proposed action will not have a significant effect on the quality of the human environment.

For further details with respect to this action, see the application for exemption dated November 14, 1990, which is 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 29th day of November 1990.

FOR THE NUCLEAR REGULATORY COMMISSION



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