

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

December 21, 1992

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

Serial No. 91-655B
SPS/MDK/ETS R5
Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNITS 1 AND 2
COMPONENT COOLING HEAT EXCHANGER
CHANNEL HEAD REPLACEMENT

On September 22, 1992, during a 10 year inservice inspection hydrostatic pressure test, the 'C' component cooling water heat exchanger (CCHX) developed a leak that required a Code repair to the inlet channel head. As stated in our letters of December 6, 1991 (Serial Number 91-655) and February 10, 1992 (Serial Number 91-655A), and NRC Safety Evaluation dated March 25, 1992, if any channel head degradation was identified in the 'C' CCHX that required a Code repair or prevented the heat exchanger from meeting Section XI operability requirements, the 'C' CCHX channel heads would be repaired during the operating cycle and the entire heat exchanger replaced at the next outage of sufficient duration. As a result of performing this Code repair and our commitment identified above, this letter presents our plan to replace the 'C' CCHX during the next Unit 1 refueling outage presently scheduled for Spring 1994.

We have evaluated two options for replacing the heat exchanger. One option was to replace the heat exchanger during the 1993 Unit 2 refueling outage. The second option was to replace the heat exchanger during the 1994 Unit 1 refueling outage. This letter advises you of our decision to replace the 'C' CCHX during the Unit 1 refueling outage scheduled for Spring 1994, as discussed with Mr. H. Berkow and B. Buckley on December 17, 1992.

A Code repair has been made on the 'C' component cooling water heat exchanger. The failure was located in the inlet channel head and was due to general corrosion localized in an area of failed coating. The heat exchanger has satisfactorily completed return-to-service pressure testing. Our repair and subsequent testing have maintained the dedication and the level of quality and safety of this heat exchanger. In addition, we are continuing to monitor the material condition of the channel heads to provide an additional measure of assurance of the operability of the components.

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The four component cooling water heat exchangers service both units and are located in the Unit 1 turbine building basement. Three of the four component cooling water heat exchangers have been replaced with new heat exchangers that conform to ASME Code requirements. Our Technical Specifications require two component cooling water heat exchangers to be operable with one unit at power and three heat exchangers to be operable with two units at power. The system is designed to allow any combination of heat exchangers to service either one or both units in configurations where the system can be dedicated to service one unit or cross-tied to service both units.

Based on the physical location, procedural restrictions, satisfactory results of pressure testing, and continued monitoring of the material condition of the channel heads, we plan to replace the 'C' component cooling water heat exchanger during the Unit 1 refueling outage scheduled for Spring 1994.

If you have questions regarding this information, please contact us.

Very truly yours,



W. L. Stewart
Senior Vice President - Nuclear

cc: U. S. Nuclear Regulatory Commission
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Mr. M. W. Branch
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