

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

January 28, 1992

U.S. Nuclear Regulatory Commission
Attention: Document Control Des'g.
Washington, D.C. 20555

Serial No. 92-042
NL&P/JBL: R2
Docket Nos. 50-338
License Nos. NPF-4

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNIT 1
PROPOSED TECHNICAL SPECIFICATION CHANGE
REDUCTION IN MAXIMUM REACTOR POWER LEVEL
DUE TO INCREASED STEAM GENERATOR TUBE PLUGGING LEVEL

Pursuant to 10 CFR 50.90, the Virginia Electric and Power Company requests amendments, in the form of changes to the operating license and the Technical Specifications, to Facility Operating License Number NPF-4 for North Anna Power Station Unit 1. The proposed change to the operating license will limit maximum reactor power to 95% of rated thermal power for the interim period of operation until steam generator replacement. The proposed change to the Technical Specifications will impose more restrictive equipment operability requirements for the Emergency Core Cooling System (ECCS). These proposed changes are necessary to accommodate the interim effects of increased steam generator tube plugging on the large break Loss of Coolant Accident (LOCA) analysis.

Specifically, we request a change which modifies license condition 2.D.(1), Maximum Power Level, by adding a footnote which states that the maximum reactor power level shall be limited to 95% of rated thermal power. We also request a change to Action Statement "a" of Specification 3.5.2, ECCS Subsystems - $T_{avg} \geq 350^{\circ}F$, by adding a footnote which requires the charging pump in each ECCS subsystem be operable if either low head safety injection pump is inoperable to comply with the requirements of the Action Statement. These proposed changes are applicable for the remaining period of operation until the North Anna Unit 1 steam generators are replaced in 1993.

North Anna Power Station Unit 1 is currently involved in a mid-cycle steam generator inspection outage. An extensive eddy current inspection of the North Anna Unit 1 steam generator tubes is being performed using very conservative analysis guidelines and plugging criteria. As such, a substantially increased number of tubes are expected to be plugged.

The predictions of steam generator tube plugging required during this mid-cycle outage are such that the effects of increased RCS loop resistance on the large break Loss of Coolant Accident (LOCA) analysis would not permit full rated power operation

for the remainder of Cycle 9 operation for North Anna Unit 1. Therefore, safety analyses and evaluations have been performed to extend the steam generator tube plugging limit value from 30% to 35% for the most restrictive steam generator and continue to support operation with an imposed 95% reactor power restriction. The attached safety evaluation has been prepared to discuss the changes to the large break LOCA analysis and support a license amendment associated with the restriction in reactor power.

The proposed changes are presented in Attachment 1. A discussion of the proposed changes is provided in Attachment 2 and a safety evaluation is provided in Attachment 3. This request has been reviewed and approved by the Station Nuclear Safety and Operating Committee and the Management Safety Review Committee. It has been determined that this request does not involve an unreviewed safety question as defined in 10 CFR 50.59 or a significant hazards consideration as defined in 10 CFR 50.92. The basis for our determination that these changes do not involve a significant hazards consideration is provided in Attachment 4.

North Anna Unit 1 was shut down to perform steam generator tube inspections on December 23, 1992. The unit is scheduled to conclude the steam generator inspections and commence startup not later than March 20, 1992. We request your approval of the enclosed changes prior to this scheduled startup date.

Should you have any questions or require additional information, please contact us immediately.

Very truly yours,



W. L. Stewart
Senior Vice President - Nuclear

Attachments

cc: U.S. Nuclear Regulatory Commission
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Mr. M. S. Lesser
NRC Senior Resident Inspector
North Anna Power Station

Commissioner
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COMMONWEALTH OF VIRGINIA)
)
COUNTY OF HENRICO)

The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by W. L. Stewart who is Senior Vice President - Nuclear, of Virginia Electric and Power Company. He is duly authorized to execute and file the foregoing document in behalf of that Company, and the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 28TH day of January, 1992.

My Commission Expires: May 31, 1994.

Picki L. Huce
Notary Public

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