

VIRGINIA ELECTRIC AND POWER COMPANY

RICHMOND, VIRGINIA 23261
December 21, 1990

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

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NAPS / JHL
Docket No. 50-338
License No. NPF-4

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNIT 1
PRESSURIZER SAFETY AND RELIEF VALVE MODIFICATIONS

In response to NUREG-0737, Item II.D.1, Virginia Electric and Power Company installed reflective metal thermal insulation "ovens" on the pressurizer safety valve (PSV) loop seals and is modifying the PSV discharge pipe support systems on North Anna 1 and 2. The combination of loop seal ovens and discharge piping system support modifications was designed to accommodate the effects of the discharge of the water in the loop seals into the discharge piping system when the PSV's are actuated.

The loop seal ovens have been installed in both units. Due to the complexity of the support modifications, the modifications were to be installed in three phases. Pipe support modifications are complete for North Anna Unit 2. For North Anna Unit 1, the final phase was scheduled to be completed during the 1991 refueling outage which is scheduled to begin January 11, 1991.

This letter is to inform you that the completion of the support modifications planned for the upcoming Unit 1 outage is being deferred. We are currently planning to add continuous drains to the loop seal piping. This will change the medium in the loop seal piping to steam and is being pursued as a solution to the issue of PSV setpoint shift which has recently been identified in the industry. The change to a drained loop seal will require new discharge piping system analysis and will result in a change to the discharge piping support configuration. Optimization of the support designs for the steam discharge condition could eliminate the need for many of the supports which were scheduled to be installed.

Deferment of implementation of the support modifications until we have evaluated the effect of eliminating the water seals is cost effective and will promote ALARA goals by eliminating unnecessary radiation exposure.

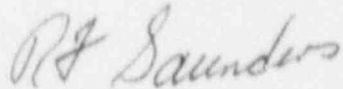
We are currently developing the project scope and schedule for implementation of the loop seal drain modification. A final scope and schedule will be completed by October 31, 1991. We will inform you at that time of the details of the project.

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If you have any questions, please contact us.

Very truly yours,



W. L. Stewart
Senior Vice President - Nuclear

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