

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

May 12, 2009

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Serial No. 09-307
NAPS: GSS
Docket No. 50-339
License No. NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
NORTH ANNA POWER STATION UNIT 2
POST ACCIDENT MONITORING (PAM) REPORT

On March 29, 2009, with Unit 2 in Mode 1 at 100 percent power, the open red indication light for the Phase B containment isolation valve (CIV) 2-CC-TV-202E ("A" RCP CC Return Outside Isolation) was determined to be inoperable. This Regulatory Guide 1.97 CIV is located outside of containment in the component cooling (CC) water return line from the "A" reactor coolant pump (RCP). The closed green light indication is operable. The cause of the inoperable red open light is a missing rubber insulating ring in the socket. Technical Specification (TS) 3.3.3 Condition A requires restoration of the CIV indication to operable within thirty days. If CIV indication is not returned to service within thirty days, a Post Accident Monitoring Report is required in accordance with TS 5.6.6. This letter provides the required report and includes our plan and schedule for restoring the CIV indication to service.

Other indicators are available that provide verification of the CIV in the closed position if a containment isolation signal is received. There has been no change in CC system flow from the "A" RCP to indicate any mechanical problem from the valve. The CIV cycled properly during its last valve position indication test completed on October 2, 2008. The CIV located inside containment was also cycled properly during the last valve position indicator test completed on October 2, 2008. If a containment depressurization actuation (CDA) were to occur, both the inside and outside CIVs would receive a signal to close. The outside CIV would be verified closed using alternate indication.

This is a valve position open indication operability issue only. The replacement of the bulb with the rubber insulating ring missing in the bulb socket on-line can lead to grounding of the circuit, and possibly result in the associated trip valve closing which would be detrimental to Unit 2 operation. Therefore, due to the inherent risks involved with performing maintenance on-line and our safety standards requiring the missing rubber insulating ring to be installed in the socket to prevent grounding, repairs are scheduled to be performed at the first entry into a unit condition of sufficient duration to allow the repair. The risks associated with performing repairs on-line include maintenance in a sensitive area (i.e., Control Room Safeguards Equipment Panel) and

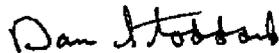
by-passing the air supply to the CIV to prevent the CIV from inadvertently closing, which may require manually tripping the reactor and shutting down the running "A" RCP. Initial conditions for the valve testing and the position indication periodic test require the unit to be in Modes 5 or 6 or defueled with the RCP secured.

Continued operation of this valve is permitted because there are several levels of alternate indication. The Plant Computer System (PCS) provides an alternate reliable indication (PCS computer point S2CC015D, "A" RCP Return Header Valve") to determine valve position. Flow indicators will also indicate zero flow in the CC return line when 2-CC-TV-202E is closed.

This report has been reviewed and approved by the Facility Safety Review Committee.

If you have any questions or require additional information, please contact Mr. Page Kemp at (540) 894-2295.

Very truly yours,



D. G. Stoddard, PE
Site Vice President

Commitments made in this letter: None

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