

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

August 27, 2012

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

Serial No. 12-542
NAPS: RAP
Docket No. 50-338
License No. NPF-4

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
NORTH ANNA POWER STATION UNIT 1
POST ACCIDENT MONITORING (PAM) REPORT

On July 14, 2012, with Unit 1 in Mode 1 at 100 percent power, the open red indication light for the Phase B containment isolation valve (CIV) 1-CC-TV-102E ("A" RCP CC Return Outside Isolation Valve) 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 cause of the inoperable red open light is a failed bulb. 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.

This is a valve position open indication operability issue only. The replacement of the bulb with the unit on-line can lead to grounding of the circuit due to possible separation of the bulb glass from its base. This could possibly result in the associated trip valve closing which would be detrimental to Unit 1 operation. Therefore, due to the inherent risks involved with performing maintenance on-line, 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 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 position indication periodic test require the unit to be in Modes 5 or 6 or defueled with the "A" RCP secured.

Continued operation with this valve open indication inoperable is permitted because there are several levels of alternate indication. The Plant Computer System (PCS) provides an alternate reliable indication (PCS computer point S1CC015D, "A" RCP Return Header Valve") to determine valve position. Flow indicators will also indicate zero flow for various "A" RCP parameters when 1-CC-TV-102E is closed. In addition, the closed green light indication is operable.

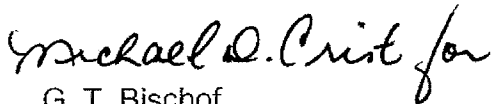
The CIV cycled properly during its last valve position indication test completed on April 24, 2012. If a containment depressurization actuation (CDA) were to occur, the CIV would receive a signal to close.

Additionally, the open red indication light for the Phase B containment isolation valve (CIV) 1-CC-TV-102D ("B" RCP CC Return Inside Isolation Valve) was determined to be inoperable on July 29, 2012. The associated 30-day action for this CIV expires on August 28, 2012. This indication light will not be repaired for the same reasons as 1-CC-TV-102E and similar alternate indications exist to verify the valve position. The CIV cycled properly during its last valve position indication test completed on April 22, 2012. Based on these facts, the PAM report for this CIV is being made early.

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. Donald R. Taylor at (540) 894-2616.

Sincerely,



G. T. Bischof
Site Vice President

Commitments made in this letter: Replacement of the open red indication lights for 1-CC-TV-102E and 1-CC-TV-102D during the next entry into a unit condition of sufficient duration to allow the repair.

cc: U.S. Nuclear Regulatory Commission
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