

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

November 17, 2008

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

Serial No. 08-0670  
NL&OS/ETS R0  
Docket Nos. 50-338/339  
50-280/281  
License Nos. NPF-4/7  
DPR-32/37

**VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)**  
**NORTH ANNA POWER STATION UNITS 1 AND 2**  
**SURRY POWER STATION UNITS 1 AND 2**  
**RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION FOR**  
**PROPOSED LICENSE AMENDMENT REQUEST**  
**DELETION OF MAIN CONTROL ROOM/EMERGENCY SWITCHGEAR ROOM**  
**BOTTLED AIR SYSTEM FROM TECHNICAL SPECIFICATIONS**

In a letter dated March 19, 2008 (Serial No. 08-0080), Dominion requested amendments, in the form of changes to the Technical Specifications to Facility Operating License Numbers NPF-4 and NPF-7, for North Anna Power Station Units 1 and 2, respectively. The proposed amendment would delete the Control Room/Emergency Switchgear Room (MCR/ESGR) Bottled Air System from Technical Specifications. In an October 29, 2008 telephone conference call, the NRC staff requested additional information regarding adequacy of breathing air for the occupants in the MCR/ESGR envelope during the first hour of a Design Basis Accident (DBA).

Removal of the bottled air system will have no adverse effects on the personnel in the MCR/ESGR envelope. A conservative estimate indicates that, with an airtight MCR/ESGR envelope and no bottled air available, MCR/ESGR environmental conditions at one hour after a DBA would remain within normal, expected ranges, specifically for carbon dioxide and oxygen concentration. It was estimated that the oxygen concentration would be insignificantly affected during this time frame. Carbon dioxide concentration would increase, but remain several times less than the NIOSH/OSHA time weighted average limit. Ventilation effectiveness has been observed for about 24 hours during tracer gas testing at both stations, at which time the MCR/ESGR envelope was isolated with no bottled air. No adverse effects to the personnel that were within the MCR/ESGR envelope were observed. Actual MCR/ESGR envelope inleakage measured in the DBA alignment was at least 100 cfm.

Surry Power Station has requested a similar license amendment to delete the MCR/ESGR Bottled Air System from Technical Specifications in a letter dated October 9, 2008 (Serial No. 08-0411). Due to the similarity of design and operation of the Surry and North Anna MCR/ESGRs, the NRC's request for additional information is applicable to the Surry



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