VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

October 9, 2010

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

Serial No.	10-530
NAPS/JHL	R0
Docket Nos.	50-338
	50-339
License Nos.	NPF-4
	NPF-7

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
NORTH ANNA POWER STATION UNITS 1 AND 2
ANNUAL SUBMITTAL OF TECHNICAL SPECIFICATION BASES CHANGES
PURSUANT TO TECHNICAL SPECIFICATION 5.5.13.d

Pursuant to Technical Specifications 5.5.13.d, "Technical Specifications (TS) Bases Control Program," Dominion hereby submits the changes to the Bases of the Technical Specifications implemented during the period of October 1, 2009 and September 30, 2010. A summary of these changes is provided in Attachments 1 and 2. Enclosed is an electronic copy (CD) of the entire TS Bases through Rev 44 for your information.

Bases changes to the Technical Specifications that were not previously submitted to the NRC as part of a License Amendment Request were reviewed and approved by the Facility Safety Review Committee. It was determined that these changes did not require a change to the Technical Specifications or license, or involve a change to the UFSAR or Bases that required NRC prior approval pursuant to 10CFR50.59. These changes have been incorporated into the TS Bases. A summary of these Bases changes is provided in Attachment 1.

TS Bases changes that were submitted to the NRC for information along with the associated License Amendment Request transmittals, submitted pursuant to 10CFR50.90, were also reviewed and approved by the Facility Safety Review Committee. These changes have been implemented with the respective License Amendments. A summary of these changes is provided in Attachment 2.

If you have any questions regarding this submittal, please contact Mr. Donald R. Taylor at (540) 894-2616.

Sincerely,

F. Mladen
Director, Nuclear Safety and Licensing

A001
NRR

Attachments
1. Summary of TS Bases Changes Not Previously Submitted to the NRC
2. Summary of TS Bases Changes Associated with License Amendments

Enclosure – CD of Current TS Bases (Rev 44)

Commitments made in this letter: None

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North Anna Power Station

ATTACHMENT 1

Serial No. 10-530

SUMMARY OF TS BASES CHANGES NOT PREVIOUSLY SUBMITTED TO THE NRC

Virginia Electric and Power Company
(Dominion)
North Anna Power Station Units 1 and 2

Summary of TS Bases Changes
Not Previously Submitted to the NRC

Correct Statements Associated with Modifications to the Auxiliary Building Central Exhaust Subsystem (Bases – TS 3.7.12, 3.8.4, 3.8.7 and 3.8.9 LCO)

Design Change 07-172, PREACS Bypass Damper Replacements, replaced the bypass dampers in the Auxiliary Building Central Exhaust Subsystem of the Emergency Core Cooling System (ECCS) Pump Room Exhaust Air Cleanup System (PREACS) with reliable rugged constructed bubble tight dampers. These new bubble type damper assemblies were specifically designed, tested and analyzed to meet or exceed the design requirements.

Changes to the Bases for 3.7.12, Emergency Core Cooling System (ECCS) Pump Room Exhaust Air Cleanup System (PREACS), 3.8.4, DC Sources – Operating, 3.8.7, Inverters – Operating, and 3.8.9, Distribution Systems – Operating were required to be consistent with the new damper configuration which has the dampers fail safe to the filter position upon a loss of power or instrument air.

Use of Ultrasonic Flow Meter Instrumentation for Computing the Secondary Side Power Calorimetric (Bases – TS 3.3.1 LCO)

The Bases of Surveillance Requirement 3.3.1.2 is revised to reflect the installation of the highly accurate Caldon CheckPlus™ Leading Edge Flow Meter ultrasonic flow measurements instrumentation for computing the secondary side power calorimetric. The instrumentation installation was part of the implementation phase that supported the submittal of the measurement uncertainty recapture (MUR) power uprate changes to the Technical Specifications.

ATTACHMENT 2

Serial No. 10-530

SUMMARY OF TS BASES CHANGES ASSOCIATED WITH LICENSE AMENDMENTS

Virginia Electric and Power Company
(Dominion)
North Anna Power Station Units 1 and 2

Summary of TS Bases Changes Associated with License Amendments

Addition of Limiting Condition for Operation (LCO) 3.0.9

These amendment and Bases changes revise the Technical Specifications and Bases by adding a new Limiting Condition for Operation (LCO), LCO 3.0.9. This LCO establishes conditions under which systems would remain operable when required physical barriers are not capable of providing their related support function. This is consistent with approved Technical Specification Task Force (TSTF) Improved Standard Technical Specifications Change Traveler, TSTF-427, Revision 2.

The Bases changes noted above were submitted to the NRC on December 16, 2009 and incorporated into the Bases on July 1, 2010 upon NRC approval and implementation of the associated Technical Specification changes (Amendments 259 for Unit 1 and 240 for Unit 2 issued on May 4, 2010).

Adoption of TSTF-490, Revision 0, Regarding Deletion of E Bar Definition and Revision to RCS Specific Activity (LCO 3.4.16)

These amendment and Bases changes are to replace the current Technical Specification 3.4.16 limit on reactor coolant system (RCS) gross specific activity with a new limit on RCS noble gas specific activity. The noble gas specific activity limit would be based on a new dose equivalent XE-133 definition that would replace the current E Bar average disintegration energy definition. The changes are consistent with the NRC-approved Industry Technical Specification Task Force (TSTF) Standard Technical Specification Traveler, TSTF-490, Revision 0, Deletion of E Bar Definition and Revision to RCS Specific Activity.

The Bases changes noted above were submitted to the NRC on December 17, 2008 and incorporated into the Bases on April 8, 2010 upon NRC approval and implementation of the associated Technical Specification changes (Amendments 258 for Unit 1 and 239 for Unit 2 issued on March 3, 2010).

Measurement Uncertainty Recapture

These amendments revise the operating licenses, Technical Specifications and Bases to reflect an increase in rated thermal power from 2893 megawatts thermal (MWt) to 2940 MWt (1.6 percent increase). The increase is based upon increased feedwater flow measurement accuracy achieved by using high-accuracy Caldon CheckPlus™ Leading Edge Flow Meter ultrasonic flow measurement instrumentation.

The Bases changes noted above were submitted to the NRC on March 26, 2009 and incorporated into the Bases on April 8, 2010 upon NRC approval and implementation of the associated Technical Specification changes (Amendments 257 for Unit 1 and 238 for Unit 2 issued on October 22, 2009).