



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
WASHINGTON, D.C. 20555-0001

April 12, 2016

Mr. David A. Heacock  
President and Chief Nuclear Officer  
Virginia Electric and Power Company  
Innsbrook Technical Center  
5000 Dominion Boulevard  
Glen Allen, VA 23060-6711

**SUBJECT: NORTH ANNA POWER STATION, UNITS 1 AND 2 – AUDIT PLAN  
REGARDING APPLICATION FOR LICENSE AMENDMENT, ISSUES  
IDENTIFIED IN WESTINGHOUSE DOCUMENTS, NUCLEAR SAFETY  
ADVISORY LETTER (NSAL), NSAL-09-5, REVISION 1 AND NSAL-15-1,  
REVISION 0. (CAC NO. MF7186 AND MF7187)**

Dear Mr. Heacock:

By letter dated December 10, 2015 (Agencywide Documents Access and Management System Accession No. ML15352A108), Dominion (the licensee) submitted a license amendment request (LAR) for the North Anna Power Station, Units 1 and 2. The proposed license amendment would revise the Technical Specifications (TS) to address the issues identified in Westinghouse Nuclear Safety Advisory Letter (NSAL), NSAL-09-5, Revision 1 and NSAL-15-1, Revision 0.

The U.S. Nuclear Regulatory Commission (NRC) staff will be conducting an on-site audit at NRC One White Flint North, Head Quarters - Room OWFN – 04B04, 11555 Rockville Pike, Rockville MD 20851. The purpose of the audit is to 1) review detailed calculations, analyses, and technical bases; 2) identify further information that may be necessary to reach a licensing or regulatory decision; 3) discuss possible requests for additional information; and 4) examine Core Operating Limits Report Reference List of Analysis Methods in meeting GL 88-16 Guidance.

D. Heacock

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If you have any questions, please contact me at 301-415-2597 or by e-mail at [v.sreenivas@nrc.gov](mailto:v.sreenivas@nrc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Sreenivas', with a long horizontal flourish extending to the right.

V. Sreenivas, Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-338 and 50-339

Enclosure:  
Audit Plan

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## AUDIT PLAN

APRIL 26-27, 2016

NORTH ANNA POWER STATION, UNITS 1 and 2

DOCKET NOS. 50-338 AND 50-339

(CAC NOS. MF7186 AND MF7187)

### **1. BACKGROUND**

By letter dated December 10, 2015 (Agencywide Documents Access and Management System Accession No. ML15352A108), Dominion (the licensee) submitted a license amendment request (LAR) for the North Anna Power Station, Units 1 and 2. The proposed license amendment would revise the Technical Specifications (TS) to address the issues identified in two Westinghouse Nuclear Safety Advisory Letters (NSAL). Specifically, the proposed changes will address the issues identified in:

- Westinghouse NSAL-09-5, Revision 1 by relocating required operating space reductions (power and axial flux difference) to the Core Operating Limits report (COLR).
- Westinghouse NSAL-15-1, Revision 0 by defining TS surveillance requirements for steady-state and transient  $F_q(Z)$  (heat flux hot channel factor) and corresponding actions with which to apply an appropriate penalty factor to measured results.

### **2. REGULATORY AUDIT SCOPE**

The U. S. Nuclear Regulatory Commission (NRC) staff will focus on the following topics during this audit:

- Technical basis for all the Completion Times listed in the LAR.
- Section 2.1 of the LAR, "Current use of Dominion Relaxed Power Distribution (RPDC), relocation of equations to the TS Bases, and revision of TS required Actions."
- Section 2.2 of the LAR, "Surveillance requirements for the two representations of  $F_q(Z)$ ."
- Sections 2.3 of the LAR, specifically the last paragraph, "Based on Dominion's analytical assessment of internal and external operating experiences (e.g. Westinghouse Communication 06-IC-03, Reference 5), the magnitudes of the lower and upper core regions excluded from  $F_q$  surveillances had been proactively and conservatively reduced (in approximately 2006) from what was and is currently described in the North Anna Technical Specification Bases. An update to the Technical Specification Bases to expand the  $F_q$  axial surveillance regions being tracked by Dominion's corrective action system."
- Penalty factors for Flux Map Analysis (Table 3.2.-2 of the LAR).
- TS 3.2.1 – Conditions B, Required Actions and Completion Time.

Enclosure

- COLR Reference List of Analysis Methods in meeting GL 88-16 Guidance, "approved methodology in COLR reference list that is used to determine core operating limits."

### **3. TEAM AND REVIEW ASSIGNMENTS**

- V. Sreenivas, DORL/LPL II-1 - Project Manager
- Fred M. Forsaty, DSS/SRXB - Lead Reviewer
- Pete Snyder, DSS/STSB
- DSS/SNPB - TBD

### **4. LOGISTICS**

Regulatory Audit Dates: May 4 - 5, 2016.

Vendor Location: TBD

### **5. DELIVERABLES**

Regulatory Audit Summary.

D. Heacock

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If you have any questions, please contact me at 301-415-2597 or by e-mail at [v.sreenivas@nrc.gov](mailto:v.sreenivas@nrc.gov).

Sincerely,

*/RA/*

V. Sreenivas, Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-338 and 50-339

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Audit Plan

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RidsNrrPMNorthAnna Resource

**ADAMS Accession No. ML16091A454**

**\* via memorandum dated March 31, 0216**

OFFICE	DORL/LPL2-1/PM	DORL/LPL2-1/LA	DSS/SRXB/BC(A)*
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DATE	4/5/16	4/4/16	03/31/2016
OFFICE	DORL/LPL2-1/BC	DORL/LPL2-1/PM	
NAME	MMarkley	VSreenivas	
DATE	4/12/16	4/12/16	

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