

PMNorthAnna3COLPEmails Resource

From: Jessie, Janelle
Sent: Tuesday, November 24, 2009 8:37 AM
To: Wanda K Marshall
Cc: Dominion.Naps3ColaRAI@DOM.COM; Regina Borsh; Kevern, Thomas; John Hayden
Subject: North Anna RAI Letter 44
Attachments: North Anna RAI Letter 44 - ML0932303044.pdf

Good Morning Gina,

Attached is the RAI Letter #44.

Please let me know if you have any questions.

Thanks

Janelle

Hearing Identifier: NorthAnna3_Public_EX
Email Number: 839

Mail Envelope Properties (65FB43187ED87C46B3F00CB97D081E60428EF744)

Subject: North Anna RAI Letter 44
Sent Date: 11/24/2009 8:37:27 AM
Received Date: 11/24/2009 8:37:28 AM
From: Jessie, Janelle

Created By: Janelle.Jessie@nrc.gov

Recipients:

"Dominion.Naps3ColaRAI@DOM.COM" <Dominion.Naps3ColaRAI@DOM.COM>
Tracking Status: None
"Regina Borsh" <regina.borsh@dom.com>
Tracking Status: None
"Kevern, Thomas" <Thomas.Kevern@nrc.gov>
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"John Hayden" <john.hayden@dom.com>
Tracking Status: None
"Wanda K Marshall" <wanda.k.marshall@dom.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	151	11/24/2009 8:37:28 AM
North Anna RAI Letter 44 - ML0932303044.pdf		97233

Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

November 19, 2009

Mr. Eugene S. Grecheck
Vice President - Nuclear Development
Dominion
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 044
(SRP SECTIONS: 12.03-12.04 - RADIATION PROTECTION DESIGN
FEATURES AND 03.11 - ENVIRONMENTAL QUALIFICATION OF
MECHANICAL AND ELECTRICAL EQUIPMENT) RELATED TO THE
NORTH ANNA UNIT 3 COMBINED LICENSE APPLICATION

Dear Mr. Grecheck:

By letter dated November 26, 2007, Dominion Virginia Power (Dominion) submitted a combined license application for North Anna Unit 3 pursuant to 10 CFR Part 52. The U.S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application.

The staff has identified that additional information is needed to continue portions of the review and the request for additional information (RAI) is contained in the enclosure to this letter. To support the review schedule, Dominion is requested to respond within 90 days of the date of this letter. If the RAI response involves changes to application documentation, Dominion is requested to include the associated revised documentation with the response.

Should you have questions, please contact me at (301) 415-6775 or Janelle.Jessie@nrc.gov.

Sincerely,

/RA/

Janelle B. Jessie, Project Manager
ESBWR/ABWR Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-017

Enclosure: Request for Additional Information

November 19, 2009

Mr. Eugene S. Grecheck
Vice President - Nuclear Development
Dominion
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

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ESBWR/ABWR Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-017

Enclosure: Request for Additional Information

Distribution:
TKevern, NRO CHinson, NRO
NRO_DNRL_NGE1 TFrye, NRO
SGreen, NRO
JJessie, NRO

E-RAI Tracking No: 4008, 3987
ADAMS Accession No.: ML093230304

OFFICE	TR: CHPB	BC: CHPB	PM:DNRL:NGE1	PM:DNRL:NGE1
NAME	CHinson*	TFrye*	TKevern*	TKevern*
DATE	11/10/09	11/12/09	11/12/09	11/13/09

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

**Request for Additional Information
North Anna, Unit 3
Dominion
Docket Number 52-017**

**SRP Section: 12.03-12.04 - Radiation Protection Design Features
Application Section: 12.3**

QUESTIONS for Health Physics Branch (CHPB)

12.03-12.04-13

In response to RAI 12.03-12.04-8, Dominion stated that, "if the ESBWR DCD, Rev.5, is revised to include additional COL Items for FSAR Section 12.3, the COLA will be updated to address the specific COL Items." In Rev. 6 of the ESBWR DCD, Section 12.3.1.5 was added to address the ESBWR's compliance with 10 CFR 20.1406. In addition, GEH added COL Item 12.3-4-A, which states that the COL Applicant will address the operational and post-construction objectives of Regulatory Guide 4.21.

Please clarify compliance with 10 CFR 20.1406 to include a mark-up of the FSAR indicating how Dominion will address the design objectives and guidance provided in Regulatory Guide 4.21. The FSAR should be modified to include the following:

1. A commitment stating how Dominion will address COL Item 12.3-4-A.
2. A description of the operational programs and procedures (similar to the list of operational programs and procedures contained in Section 12.3.1.5.2 of Tier 2 of the ESBWR DCD) that will be implemented by Dominion to meet the requirements of 10 CFR 20.1406.
3. A commitment to follow the guidance contained in NEI 08-08, "Generic FSAR Template Guidance for Life Cycle Minimization of Contamination."

**SRP Section: 03.11 - Environmental Qualification of Mechanical and Electrical Equipment
Application Section: FSAR 3.11**

QUESTIONS for Component Integrity, Performance, and Testing Branch 2 (ESBWR/ABWR Projects) (CIB2)

03.11-8

The ESBWR Design Control Document (DCD) describes the program for the initial environmental qualification (EQ) of electrical and mechanical equipment within the EQ program for nuclear power plants applying the ESBWR reactor design. An NRC audit at GEH offices in July 2009 found that the ESBWR DCD does not address the transition from the initial EQ program to the operational aspects of the EQ program. As discussed in Regulatory Guide 1.206 and Commission Paper SECY-05-0197, COL applicants must fully describe their operational programs to avoid the need for ITAAC regarding those programs.

Therefore, the NRC staff requests that Dominion address the operational aspects of the EQ program in the FSAR. For example, the FSAR should indicate that the EQ operational program will include the following aspects: (1) evaluation of EQ results for design life to establish activities to support continued EQ; (2) determination of surveillance and preventive maintenance activities based on EQ results; (3) consideration of EQ maintenance recommendations from equipment vendors; (4) evaluation of operating experience in developing surveillance and preventive maintenance activities for specific equipment; (5) development of plant procedures that specify individual equipment identification, appropriate references, installation requirements, surveillance and maintenance requirements, post-maintenance testing requirements, condition monitoring requirements, replacement part identification, and applicable design changes and modifications; (6) development of plant procedures for reviewing equipment performance and EQ operational activities, and for trending the results to incorporate lessons learned through appropriate modifications to the EQ operational program; and (7) development of plant procedures for the control and maintenance of EQ records.