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Dominion®

October 27, 2010

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

Serial No. NA3-10-018
Docket No. 52-017
COL/MWH

DOMINION VIRGINIA POWER
NORTH ANNA UNIT 3
COMBINED LICENSE APPLICATION – RESULTS OF FSAR CHAPTER 8 RAI REVIEW

In a letter dated November 26, 2007 (Letter Serial No. NA3-07-001), Dominion Virginia Power (Dominion) submitted the North Anna Unit 3 Combined License Application (COLA) that incorporated the ESBWR DCD by reference. North Anna Unit 3 was designated by the ESBWR DCWG as the R-COLA. In a letter dated June 28, 2010 (Letter Serial No. NA3-10-011), Dominion revised the North Anna COLA to incorporate the US-APWR DCD by reference instead. That action resulted in the North Anna Unit 3 COLA being designated as an S-COLA for the US-APWR technology. Dominion is currently reviewing the NRC requests for additional information (RAI) and Dominion responses issued to date to determine whether the change in technology impacted the applicability of the RAIs to the June 28 COLA revision.

This letter provides the results of the review of RAIs associated with Final Safety Analysis Report (FSAR) Chapter 8, which was identified as priority information by the NRC project manager. The enclosed table identifies the Chapter 8 RAIs and classifies each in one of three categories: 1) RAI or RAI Response Not Applicable, 2) RAI Response Valid for the S-COLA, or 3) RAI Response Requires Revision. As a result of the evaluation, the response to RAI No. 08.02-37 requires revision. Dominion will provide a revised response by separate transmittal no later than sixty days from the date of this letter.

Additional reviews are in progress for the remaining RAIs and the results of those reviews will be reported separately.

Please contact Regina Borsh at (804) 273-2247 (regina.borsh@dom.com) if you have questions.

Very truly yours,

Eugene S. Grecheck

D089
NRD

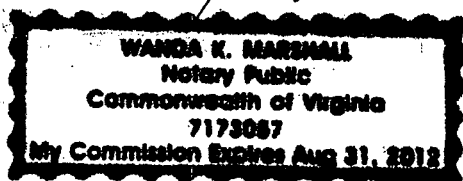
COMMONWEALTH OF VIRGINIA

COUNTY OF HENRICO

The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by Eugene S. Grecheck, who is Vice President-Nuclear Development of Virginia Electric and Power Company (Dominion Virginia Power). He has affirmed before me that he is duly authorized to execute and file the foregoing document on behalf of the Company, and that the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 27th day of October, 2010
My registration number is 7173057 and my
Commission expires: August 31, 2012

Wanda K. Marshall
Notary Public



Enclosure: FSAR Chapter 8 RAI Review Results

Commitments made by this letter:

A revised response to RAI 08.02-37 will be provided within sixty days of the date of this letter.

cc: U. S. Nuclear Regulatory Commission, Region II
C. P. Patel, NRC
J. B. Jessie, NRC
T. S. Dozier, NRC
J. T. Reece, NRC

Attachment

FSAR Chapter 8 RAI Review Results

1. The licensee has provided a copy of the FSAR Chapter 8 RAI Review Results to the NRC. The licensee has provided a copy of the FSAR Chapter 8 RAI Review Results to the NRC. The licensee has provided a copy of the FSAR Chapter 8 RAI Review Results to the NRC.

Evaluation of the Applicability of ESBWR R-COLA FSAR Chapter 8 RAI Responses to US-APWR North Anna 3 S-COLA								
RAI #	NRC RAI Ltr #	RAI Topic	NA3 RAI Response Ltr #	Date Response Submitted	RAI or RAI Response Not Applicable	RAI Response Valid for S-COLA (Note 1)	RAI Response Requires Revision (Note 1)	Comments
08.02-1	9	Switchyard figure discrepancy	NA3-08-056R	7/28/2008	X	-	-	
08.02-2	9	Cable routing in the intermediate switchyard	NA3-08-056R	7/28/2008	X	-	-	
08.02-3	9	Intermediate transformer rating	NA3-08-056R	7/28/2008	X	-	-	
08.02-4	9	In-situ monitoring programs to prevent degradation of cable insulation due to moisture	NA3-08-056R	7/28/2008	X	-	-	
08.02-5	9	500kV transmission & bus ratings	NA3-08-056R	7/28/2008	-	X	-	
08.02-6	9	Discuss provisions for transformer protection	NA3-08-056R	7/28/2008	-	X	-	
08.02-7	9	Protective relay acceptance	NA3-08-056R	7/28/2008	-	X	-	
08.02-8	9	Industry standards for switchyard protection	NA3-08-056R	7/28/2008	X	-	-	Conformance with the NERC standards is addressed in the S-COLA. Conformance with IEEE C37.013 standard is addressed in the DCD.
08.02-9	9	Transformer testing inclusion	NA3-08-056R	7/28/2008	-	X	-	
08.02-10	9	Grid stability and stability analysis	NA3-08-056R	7/28/2008	-	X	-	
08.02-11	9	Grid stability and the modeling of the 34.5 kV line	NA3-08-056R	7/28/2008	-	X	-	
08.02-12	9	Twenty year grid outage history	NA3-08-056R	7/28/2008	-	X	-	

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08.02-13	9	Offsite power system unit technical specifications	NA3-08-056R	7/28/2008	X	-	-	
08.02-14	9	System Impact Study (SIS) loadflow analysis	NA3-08-056R	7/28/2008	-	X		
08.02-15	9	Maximum and minimum grid frequency	NA3-08-056R	7/28/2008	X	-	-	
08.02-16	9	GDC-5 applicability	NA3-08-056R	7/28/2008	X	-	-	
08.02-17	9	GDC-4 applicability	NA3-08-056R	7/28/2008	X	-	-	
08.02-18	9	GDC-2 applicability	NA3-08-056R	7/28/2008	X	-	-	
08.02-19	9	Clarify compliance with the requirements of 10 CFR 50.65 "Maintenance Rule"	NA3-08-056R	7/28/2008	-	X	-	Refer to S-COLA FSAR Table 1.9-202
08.02-20	9	BTP 8-3 applicability	NA3-08-56R	7/28/2008	X	-	-	
08.02-21	9	BTP 8-5 applicability	NA3-08-56R	7/28/2008	X	-	-	
08.02-22	9	BTP 8-6 applicability	NA3-08-056R	7/28/2008	X	-	-	
08.02-23	9	Transmission reliability consistent with analysis in Chapter 19	NA3-08-056R	7/28/2008	X	-	-	
08.02-24	9	Station ground grid description	NA3-08-056R	7/28/2008	X	-	-	
08.02-25	9	Adequacy of surge / lightning protection of offsite power system	NA3-08-056R	7/28/2008	-	X	-	
08.02-26	9	Impact on Unit 1 & 2 grid stability with addition of Unit 3	NA3-08-056R	7/28/2008	-	X	-	
08.02-27	16	Reliability and stability analysis	NA3-08-085RA	8/21/2008	X	-	-	
08.02-28	16	Offsite electric power system for SSCs important to safety	NA3-08-085RA	8/21/2008	X	-	-	

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08.02-29	29	Provide justification for testing methods for detecting cable degradation and frequency of testing	NA3-08-121R	12/1/2008	-	X	-	
08.02-30	29	Identify transformers 1, 2,3,5 and 6 in Figure 8.2-201	NA3-08-121R	12/1/2008	-	X	-	
08.02-31	29	Stability analysis in comparison to Palo Verde incident	NA3-08-121R	12/1/2008	-	X	-	
08.02-32	29	Explain why distribution loads have limited ability to affect grid stability	NA3-08-121R	12/1/2008	-	X	-	
08.02-33	29	Provide discussion on how the requirements of GDC 5 are met (Closed by NRC Letter No 035)	NA3-08-121R	12/1/2008	X	-	-	
08.02-34	29	Provide discussion on how the requirements of GDC 4 are met	NA3-08-121R	12/1/2008	X	-	-	
08.02-35	29	Provide discussion on how the requirements of GDC 2 are met	NA3-08-121R	12/1/2008	X	-	-	
08.02-36	29	Applicability of the "Maintenance Rule" to switchyard equipment	NA3-08-121R	12/1/2008	-	X	-	
08.02-37	29	Describe existing and proposed grounding system at North Anna Station	NA3-08-121R	12/1/2008	-	-	X	A revised response to this RAI will be submitted.
08.02-38	32	Discuss the effect of the largest unit trip on the switchyard voltage and frequency	NA3-09-007R	3/18/2009	X	-	-	

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08.02-39	32	Periodic testing of underground 230kV cables (Closed by NRC Letter #35)	None		X	-	-	
08.02-40	33	Switchyard cables (Closed by NRC Letter #35)	None		X	-	-	
08.03.02-1	11	Station blackout response procedures	NA3-08-063R	8/4/2008	X	-	-	
08.03.02-2	11	RG 1.41, 1.128, 1.129 conformance clarification	NA3-08-063R	8/4/2008	X	-	-	

Note 1: References within the RAI and/or RAI response to COLA Section numbers and DCD Section numbers may be different for the S-COLA.