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March 16, 2011

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

Serial No. NA3-11-014
Docket No. 52-017
COL/MWH

DOMINION VIRGINIA POWER
NORTH ANNA UNIT 3
COMBINED LICENSE APPLICATION – ENDORSEMENT OF
COMANCHE PEAK UNITS 3 AND 4 R-COLA RAI RESPONSES

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 that incorporated the ESBWR DCD by reference. North Anna Unit 3 was identified 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. That action resulted in the North Anna Unit 3 COLA being designated as an S-COLA for the US-APWR technology.

Dominion has reviewed the Comanche Peak Units 3 and 4 R-COLA responses to the NRC requests for additional information (RAIs) listed in the enclosed table to determine if the standard content of the responses could be endorsed for the S-COLA. This letter provides the results of that review.

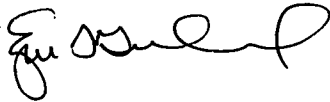
The enclosed table provides Dominion's endorsement statements for the listed R-COLA RAI responses that were submitted between June 24, 2010 and December 31, 2010. Dominion provided the results of its review of previously submitted R-COLA RAI responses in letter NA3-10-019 dated November 10, 2010. The results of the review of R-COLA RAI responses submitted after December 31, 2010 will be provided in a future submittal.

As a result of this review, the North Anna Unit 3 COLA will be revised in a future submittal to be consistent with the Dominion-endorsed RAI responses that include COLA changes.

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

Very truly yours,



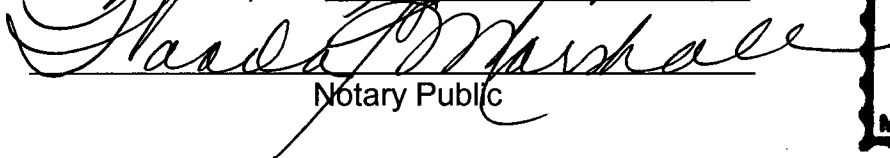
Eugene S. Grecheck

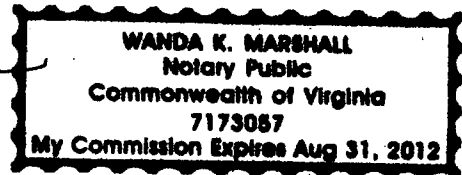
COMMONWEALTH OF VIRGINIA

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 16th day of March, 2011
My registration number is 7173057 and my
Commission expires: August 31, 2012


Notary Public



Enclosure: US-APWR S-COLA (North Anna Unit 3) Endorsement of Comanche Peak
Units 3 and 4 R-COLA RAI Responses

Commitment made by this letter:

The North Anna Unit 3 COLA will be revised in a future submittal to be consistent with the Dominion-endorsed RAI responses in the enclosure that include COLA changes.

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

Enclosure

**US-APWR S-COLA (North Anna Unit 3) Endorsement of
Comanche Peak Units 3 and 4 R-COLA RAI Responses**

Enclosure

US-APWR S-COLA (North Anna Unit 3) Endorsement of
Comanche Peak Units 3 and 4 R-COLA RAI Responses

Dominion has reviewed Comanche Peak Units 3 and 4 R-COLA responses to the NRC requests for additional information (RAIs) to determine if the standard content of the responses could be endorsed for the S-COLA. The following table provides Dominion's endorsement statements for the R-COLA RAI responses that were submitted between June 24, 2010 and December 31, 2010.

The table consists of eight columns. The purpose of each column is described below:

- **RAI ID #** - The request for additional information (RAI) identification number assigned by the NRC staff.
- **CP RAI #** - The RAI letter number assigned by the NRC staff.
- **RAI Topic/Subject** – A brief statement of the subject of the RAI.
- **Date Submitted** – The date of the Luminant letter providing the RAI response.
- **RAI Response Letter #** - The serial number of the Luminant letter providing the RAI response.
- **RAI Question #** - The identification number of the RAI question assigned by the NRC staff.
- **NA3 S-COLA Endorsement** – The Dominion determination of applicability for each RAI response. Each RAI response provided by Luminant for Comanche Peak Units 3 and 4 is evaluated as 'Yes' or 'No,' identifying that the response is either applicable to, or not applicable to, respectively, the North Anna Unit 3 COLA. A 'Yes' in this column for an RAI response indicates that the standard content of the response is endorsed by Dominion for North Anna Unit 3. A 'No' in this column for an RAI response indicates that either the response is Comanche Peak-specific or the standard content of the response is not endorsed by Dominion for North Anna Unit 3.
- **Endorsement Clarification** - A clarification to the Dominion endorsement of the R-COLA RAI response is provided, if applicable.

In addition, the following clarification to the S-COLA endorsement (previously provided in Dominion letter NA3-10-019 dated November 10, 2010) of the supplemental R-COLA RAI response to RAI 3705, Question 03.11-17, is provided:

Dominion did not endorse the Comanche Peak responses to R-COLA RAI 3705, Questions 03.11-8 and 03.11-9, or the initial response to RAI 3705, Question 03.11-17, which were provided in Luminant letter TXNB-09064 dated November 11, 2009,

because the NRC did not accept these responses. Dominion endorsed the supplemental response to R-COLA RAI 3705, Question 03.11-17, provided in Luminant letter TXNB-10018 dated March 5, 2010. This response superseded the Comanche Peak responses to R-COLA RAI 3705, Questions 03.11-8, -9, and -17 provided in letter TXNB-09064.

This clarification is provided based on a discussion that was held with Dominion and the NRC on March 9, 2011.

US-APWR S-COLA (North Anna Unit 3) Endorsement of Comanche Peak Units 3 and 4 R-COLA RAI Responses

RAI ID #	CP RAI #	RAI Topic/Subject	Date Submitted	RAI Response Letter #	RAI Question #	NA3 S-COLA Endorsement (Note 1) (Note 2)	Endorsement Clarification
5250	190	Site Parameters	12/9/2010	TXNB-10086	02-1	No	
4308	138	Hydrosphere and causal mechanisms	7/16/2010	TXNB-10052	02.04.01-6	No	
4308	138	Dam break analysis	7/16/2010	TXNB-10052	02.04.01-7	No	
4309	139	Design basis flood	7/16/2010	TXNB-10052	02.04.02-2	No	
4310	143	Base flow rate	7/16/2010	TXNB-10052	02.04.03-10	No	
4310	143	Critical fetch length	7/16/2010	TXNB-10052	02.04.03-11	No	
5225	188	HEC-HMS and HEC-RAS Calculation Information	12/16/2010	TXNB-10087	02.04.03-12	No	
4310	143	Design basis flood	7/16/2010	TXNB-10052	02.04.03-5	No	
4310	143	Probable maximum flood	7/16/2010	TXNB-10052	02.04.03-6	No	
4310	143	Probable maximum flood	7/16/2010	TXNB-10052	02.04.03-7	No	
4310	143	Probable maximum flood	7/16/2010	TXNB-10052	02.04.03-8	No	
4311	140	Dam failure analysis	7/16/2010	TXNB-10052	02.04.04-5	No	
4311	140	Dam failure analysis	7/16/2010	TXNB-10052	02.04.04-6	No	
4311	140	Dam failure analysis	7/16/2010	TXNB-10052	02.04.04-7	No	
4312	144	Landslide-induced seiche of Squaw Creek Reservoir	8/26/2010	TXNB-10060	02.04.05-6	No	
4312	144	Use of "rare" to characterize seiche wave risk	8/26/2010	TXNB-10060	02.04.05-7	No	
4314	147	Post-construction groundwater conditions	8/26/2010	TXNB-10060	02.04.12-10	No	
4314	147	Groundwater trends and precipitation	8/26/2010	TXNB-10060	02.04.12-11	No	
4314	147	Updated hydrographs	8/26/2010	TXNB-10060	02.04.12-12	No	

US-APWR S-COLA (North Anna Unit 3) Endorsement of Comanche Peak Units 3 and 4 R-COLA RAI Responses							
RAI ID #	CP RAI #	RAI Topic/Subject	Date Submitted	RAI Response Letter #	RAI Question #	NA3 S-COLA Endorsement (Note 1) (Note 2)	Endorsement Clarification
4314	147	Groundwater flowpaths	8/26/2010	TXNB-10060	02.04.12-13	No	
4314	147	Effective porosity	8/26/2010	TXNB-10060	02.04.12-14	No	
4314	147	Hydraulic conductivity values	8/26/2010	TXNB-10060	02.04.12-15	No	
4314	147	Groundwater velocity and travel time	8/26/2010	TXNB-10060	02.04.12-16	No	
4314	147	Maximum operational groundwater level	8/26/2010	TXNB-10060	02.04.12-17	No	
4314	147	Changes in groundwater flow patterns	8/26/2010	TXNB-10060	02.04.12-8	No	
4314	147	Construction impacts on site hydrology	8/26/2010	TXNB-10060	02.04.12-9	No	
4315	145	Tank failure analysis	9/16/2010	TXNB-10063	02.04.13-5	No	
4314	145	Accidental releases of radioactive liquid effluent	9/16/2010	TXNB-10063	02.04.13-6	No	
4315	145	Accidental releases of radioactive liquid effluent	9/16/2010	TXNB-10063	02.04.13-7	No	
5052	179	Paleoliquefaction features	10/11/2010	TXNB-10072	02.05.01-21	No	
4725	168	New seismic sources	8/19/2010	TXNB-10059	02.05.02-22	No	
4725	168	Updated earthquake catalog	8/19/2010	TXNB-10059	02.05.02-23	No	
4725	168	Alpine earthquake uncertainties	8/19/2010	TXNB-10059	02.05.02-24	No	
4725	168	Using the Bellefonte New Madrid Seismic Zone Model	8/19/2010	TXNB-10059	02.05.02-25	No	

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RAI ID #	CP RAI #	RAI Topic/Subject	Date Submitted	RAI Response Letter #	RAI Question #	NA3 S-COLA Endorsement (Note 1) (Note 2)	Endorsement Clarification
4725	168	Including oil-gas production related earthquakes	8/19/2010	TXNB-10059	02.05.02-26	No	
4725	168	Include the Meers fault logic tree in the FSAR	8/19/2010	TXNB-10059	02.05.02-27	No	
4841	170	Category I backfill and excavations	9/10/2010	TXNB-10062	02.05.04-22	No	
4841	170	Backfill dynamic properties and ITAAC	9/10/2010	TXNB-10062	02.05.04-23	No	
4841	170	Static ultimate bearing capacity with shale	9/10/2010	TXNB-10062	02.05.04-24	No	
5090	180	Codes and standards editions	11/18/2010	TXNB-10081	03.02.02-5	Yes	
4760	171	Site-specific SSI analyses - embedded foundations	8/13/2010	TXNB-10058	03.07.02-17	No	
5121	184	Version 2.2.1 of ACS SASSI	11/24/2010	TXNB-10083	03.07.02-18	No	
4714	162	Hydrodynamic effects in UHS basin	8/9/2010	TXNB-10057	03.07.03-3	No	
4714	162	Hydrodynamic effects in the UHS basin	8/9/2010	TXNB-10057	03.07.03-4	No	
4542	167	Durability and performance of ETHAFOAM 220	8/9/2010	TXNB-10057	03.08.04-61	Yes	
4542	167	Fundamental frequency of the tank-liquid system	8/9/2010	TXNB-10057	03.08.04-62	No	
4542	167	Analysis of buried structures	8/9/2010	TXNB-10057	03.08.04-63	No	

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4542	167	Seismic monitoring instrumentation	8/9/2010	TXNB-10057	03.08.04-64	No	
4542	167	Soil springs for ESWPT	8/9/2010	TXNB-10057	03.08.04-65	No	
4542	167	SSI effects	8/9/2010	TXNB-10057	03.08.04-66	No	
4542	167	Seismic soil pressure on above ground walls	8/9/2010	TXNB-10057	03.08.04-67	No	
4542	167	SSI Analysis	8/9/2010	TXNB-10057	03.08.04-68	No	
4542	167	Soil springs and ANSYS design models	8/9/2010	TXNB-10057	03.08.04-69	No	
4542	167	SASSI SSI model	8/9/2010	TXNB-10057	03.08.04-70	No	
4542	167	Spring and damping constants	8/9/2010	TXNB-10057	03.08.04-71	No	
4542	167	FIRS	8/9/2010	TXNB-10057	03.08.04-72	No	
4542	167	Soil pressure	8/9/2010	TXNB-10057	03.08.04-73	No	
4542	167	UHSRS sloshing	8/9/2010	TXNB-10057	03.08.04-74	No	
4542	167	Stress concentration	8/9/2010	TXNB-10057	03.08.04-75	No	
4542	167	Soil springs	8/9/2010	TXNB-10057	03.08.04-76	No	
4542	167	Maximum accelerations calculated in SASSI	8/9/2010	TXNB-10057	03.08.04-77	No	
4542	167	Wave passage effects	8/9/2010	TXNB-10057	03.08.04-78	No	
4542	167	Degrees of freedom for shell elements	8/9/2010	TXNB-10057	03.08.04-79	Yes	
4542	167	Response spectra	8/9/2010	TXNB-10057	03.08.04-80	No	
4542	167	Fundamental frequency of fuel tanks	8/9/2010	TXNB-10057	03.08.04-81	No	
4542	167	Shear wave velocity	8/9/2010	TXNB-10057	03.08.04-82	No	
4542	167	Concrete foundations	8/9/2010	TXNB-10057	03.08.04-83	Yes	

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4542	167	Shear modulus of elasticity	8/9/2010	TXNB-10057	03.08.04-84	No	
4542	167	Cutoff frequency	8/9/2010	TXNB-10057	03.08.04-85	No	
4678	172	Control room habitability analysis assumptions	10/6/2010	TXNB-10069	06.04-10	No	
4678	172	Hazards analysis of refrigerants	10/6/2010	TXNB-10069	06.04-11	Yes	
4678	172	Consistency with regulatory positions	10/6/2010	TXNB-10069	06.04-8	No	
4678	172	Control room habitability analysis	10/6/2010	TXNB-10069	06.04-9	No	
5116	182	Cable monitoring program	12/16/2010	TXNB-10087	08.02-29	No	
5116	182	Grid stability and analysis	12/16/2010	TXNB-10087	08.02-30	No	
5117	183	Station Blackout procedures and training	12/16/2010	TXNB-10087	08.04-1	Yes	
5117	183	AAC power source	12/16/2010	TXNB-10087	08.04-2	Yes	
5117	183	AAC power source	12/16/2010	TXNB-10087	08.04-3	Yes	
4957	178	OSC offsite communication capabilities	10/11/2010	TXNB-10072	09.05.02-2	Yes	
4846	169	Turbine inspection program	8/9/2010	TXNB-10056	10.02.03-2	Yes	Except that no license condition is proposed for the S-COLA.
5201	187	Table 13.4-201 corrections	11/22/2010	TXNB-10082	13.04-5	No	
4682	173	Additional License Conditions related to ITP	11/24/2010	TXNB-10083	14.02-19	No	
5004	174	UHS and ESW ITAAC	10/6/2010	TXNB-10067	14.03.07-29	No	

US-APWR S-COLA (North Anna Unit 3) Endorsement of Comanche Peak Units 3 and 4 R-COLA RAI Responses							
RAI ID #	CP RAI #	RAI Topic/Subject	Date Submitted	RAI Response Letter #	RAI Question #	NA3 S-COLA Endorsement (Note 1) (Note 2)	Endorsement Clarification
5005	175	UHS and ESW ITAAC	10/6/2010	TXNB-10067	14.03.07-30	No	
5029	176	UHS blowdown valves	10/6/2010	TXNB-10067	14.03.07-31	Yes	
5027	177	ITAAC of flood barriers	10/11/2010	TXNB-10072	14.03.07-32	Yes	
5099	181	ITAAC of flood barriers	10/29/2010	TXNB-10079	14.03.07-33	No	
5164	186	Risk-informed technical specifications	11/24/2010	TXNB-10083	16-20	No	
5237	189	NEI 06-14A	12/16/2010	TXNB-10087	17.5-11	No	
5237	189	QA Program implementation	12/16/2010	TXNB-10087	17.5-12	No	
4619	165	PRA external events and screening criteria	6/24/2010	TXNB-10046	19-10	No	
4638	166	PRA key insights and assumptions	6/24/2010	TXNB-10046	19-11	No	
4638	166	Clarify PRA assumptions	6/24/2010	TXNB-10046	19-12	No	
4638	166	PRA external events screening and evaluation	6/24/2010	TXNB-10046	19-13	No	
4619	165	Tornado-induced events - PRA	6/24/2010	TXNB-10046	19-9	No	
4606	155	Zero-percent exceedance dry-bulb temperatures	9/29/2010	TXNB-10066	Supp 1, 02.03.01-6	No	
4607	156	SACTI analysis	9/29/2010	TXNB-10066	Supp 1, 02.03.02-4	No	
4309	139	Design basis flood analysis	10/8/2010	TXNB-10071	Supp 1, 02.04.02-2	No	
4725	168	Clarify Mmax distribution	10/21/2010	TXNB-10073	Supp 1, 02.05.02-22	No	

US-APWR S-COLA (North Anna Unit 3) Endorsement of Comanche Peak Units 3 and 4 R-COLA RAI Responses							
RAI ID #	CP RAI #	RAI Topic/Subject	Date Submitted	RAI Response Letter #	RAI Question #	NA3 S-COLA Endorsement (Note 1) (Note 2)	Endorsement Clarification
4725	168	Updated Supplemental Earthquake Catalog	10/21/2010	TXNB-10073	Supp 1, 02.05.02-23	No	
4725	168	Alpine Earthquake uncertainties	10/21/2010	TXNB-10073	Supp 1, 02.05.02-24	No	
4725	168	Oil and gas production induced seismicity	10/21/2010	TXNB-10073	Supp 1, 02.05.02-26	No	
4841	170	Category I backfill and excavations	10/21/2010	TXNB-10073	Supp 1, 02.05.04-22	No	
4841	170	Category I backfill and excavations	10/21/2010	TXNB-10073	Supp 1, 02.05.04-23	No	
2818	54	Seismic category I duct banks and pipe chases	11/8/2010	TXNB-10080	Supp 1, 03.03.01-1	No	
2819	66	Seismic category I duct banks and pipe chases	11/8/2010	TXNB-10080	Supp 1, 03.03.02-4	No	
3219	63	Heaters for MCR Air Handling Units	10/29/2010	TXNB-10076	Supp 1, 09.04.01-1	No	
3230	110	Heating coil capacity values	10/29/2010	TXNB-10076	Supp 1, 09.04.05-1	No	
3232	123	ESW Pump House ventilation	10/29/2010	TXNB-10076	Supp 1, 09.04.05-11	No	
3232	123	Basis for the sizing of the ventilation system	10/29/2010	TXNB-10076	Supp 1, 09.04.05-7	No	
4206	135	Minimization of radioactive contamination	9/22/2010	TXNB-10065	Supp 1, 12.03-12.04-11	No	
3925	70	EAL information	9/16/2010	TXNB-10064	Supp 1, 13.03-1	Yes	Except that no license condition is proposed for the S-COLA.
3592	71	Groundwater monitoring program	9/29/2010	TXNB-10066	Supp 1, 13.04-1	No	

US-APWR S-COLA (North Anna Unit 3) Endorsement of Comanche Peak Units 3 and 4 R-COLA RAI Responses							
RAI ID #	CP RAI #	RAI Topic/Subject	Date Submitted	RAI Response Letter #	RAI Question #	NA3 S-COLA Endorsement (Note 1) (Note 2)	Endorsement Clarification
4606	155	Zero-percent exceedance dry-bulb temperatures	10/29/2010	TXNB-10076	Supp 2, 02.03.01-6	No	

Note 1: A 'Yes' in this column indicates that the standard content of the RAI response is endorsed by Dominion for North Anna Unit 3. A 'No' in this column indicates that either the RAI response is Comanche Peak-specific or the standard content of the response is not endorsed by Dominion for North Anna Unit 3.

Note 2: Site-specific Comanche Peak Unit 3 and 4 nomenclature used in the RAI response did not prevent the endorsement of the response for North Anna Unit 3 S-COLA. The equivalent plant feature proper name or identifier for North Anna Unit 3 was assumed in place of the Comanche Peak nomenclature for endorsement review purposes.