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September 16, 2014

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

Serial No. NA3-14-038
Docket No. 52-017
COL/BCB

DOMINION VIRGINIA POWER
NORTH ANNA UNIT 3 COMBINED LICENSE APPLICATION
COLA MARKUPS TO ALIGN WITH FERMI 3 COLA CHANGES

During a public teleconference on August 21, 2014, the NRC staff provided feedback to DTE Electric Company regarding the administrative control of doors in the Reactor Building and Fuel Building during the movement of irradiated fuel, as described in Enrico Fermi Unit 3 (EF3) FSAR Section 2A.2.5. Based on the teleconference discussion, DTE submitted to the NRC on August 22, 2014, marked-up pages of the EF3 FSAR that describe proposed changes to FSAR Sections 2A.2.5 and 15.4.1 (ML14237A333).

Following the Design Center Working Group approach, Dominion reviewed the FSAR changes proposed by DTE and determined that the changes are applicable to North Anna Unit 3 (NA3). As a result, Dominion proposes similar changes to the NA3 FSAR as shown in the markups in the enclosure. These changes clarify the administrative control of doors in the Reactor Building and Fuel Building during the movement of irradiated fuel and are consistent with the approach DTE proposed for EF3.

This information will be incorporated into a future submission of the NA3 COLA, as described in the enclosure.

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

Very truly yours,

Mark D. Mitchell

DOB9
NR0

Enclosure:

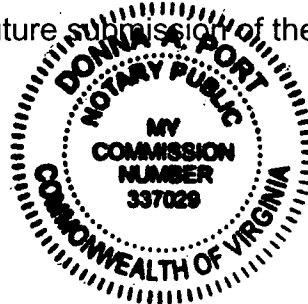
Proposed Changes to FSAR Sections 2A.2.5 and 15.4.1

Commitments made by this letter:

This information will be incorporated into a future submission of the NA3 COLA, as described in the enclosure.

COMMONWEALTH OF VIRGINIA

COUNTY OF HENRICO



The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by Mark D. Mitchell, who is Vice President–Generation Construction 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 16 day of September, 2014
My registration number is 337029 and my
Commission expires: January 31, 2015

Donna A. Port

Notary Public

Embossed Hereon is My
Commonwealth Of Virginia Notary Public Seal
My Commission Expires January 31, 2015
DONNA A. PORT

- cc: C. P. Patel, NRC
U. S. Nuclear Regulatory Commission, Region II
T. S. Dozier, NRC
G. J. Kolcum, NRC
D. Paylor, VDEQ
W. T. Lough, SCC
P. W. Smith, DTE
M. K. Brandon, DTE
R. J. Bell, NEI

ENCLOSURE

**Proposed Changes to
FSAR Sections 2A.2.5 and 15.4.1**

Markup of North Anna COLA

The attached markup represents Dominion's good faith effort to show how the COLA will be revised in a future COLA submittal. However, the same COLA content may be impacted by revisions to the DCD, responses to COLA RAIs, other COLA changes, plant design changes, editorial or typographical corrections, etc. As a result, the final COLA content that appears in a future submittal may be somewhat different than as presented herein.

Appendix 2A ARCON96 Source/Receptor Inputs

This section of the referenced DCD is incorporated by reference with the following departures and/or supplements.

2A.2.1 Meteorological Data

Add the following as the last sentence of this section.

NAPS COL 2A.2-1-A

Instrumentation heights used in the analysis are described in SSAR Section 2.3.3.1.3. Meteorological data from 1996 to 1998 as described in SSAR Section 2.3 is used in the analysis.

2A.2.3 ARCON96 ESBWR Inputs

Replace the last sentence of the first paragraph with the following.

NAPS COL 2A.2-1-A

These directions are adjusted by the difference in angle ([approximately 23.5 degrees east of true North]); Unit 3 receptor to source directions are shown in Table 2A-4R. SOF-207

2A.2.4 Confirmation of the ESBWR χ/Q Values

Replace this section with the following.

NAPS COL 2A.2-1-A

DCD Figure 2A-1 shows the locations of the sources and receptors for ESBWR control room determinations, also used in the Unit 3 evaluations. The dimensions of the diffuse source planes provided in DCD Table 2A-3 are determined as directed by RG 1.194, Regulatory Position 3.2.4.5, for the nearest receptor locations. ARCON96 calculations are performed for source/receptor pairs compared in Table 2.0-201. The calculations used design inputs listed in DCD Table 2A-3, directions in Table 2A-4R, and site-specific meteorological data. Results of the site-specific analysis are provided in Tables 2.3-201 through 2.3-204, and Table 2.3-206.

2A.2.5 Confirmation of the Reactor Building χ/Q Values

Replace this section with the following.

NAPS COL 2A.2-2-A

~~During refueling, doors or personnel air locks on the plant east sides of the Reactor Building or Fuel Building could act as a point source that could result in χ/Q values that would result in a dose greater than a bounding dose consequence reported in the Fuel Handling Accident Analysis Results (DCD Table 15.4-4). Therefore, these doors and~~

~~personnel air locks are administratively controlled to remain closed during movement of irradiated fuel bundles.~~

During movement of irradiated fuel, those doors and personnel air locks on the plant east sides of the Reactor Building or Fuel Building that could act as a point source could result in control room χ/Q values that are higher than the ESBWR χ/Q values for a release in the Reactor Building or Fuel Building (DCD Table 15.4-4). Therefore, those doors and personnel air locks on the plant east sides of the Reactor Building or Fuel Building that could act as a point source are administratively controlled to remain closed during movement of irradiated fuel.

2A.3 COL Information

2A.2-1-A Confirmation of the ESBWR χ/Q Values

NAPS COL 2A.2-1-A

This COL item is addressed in Section 2.3.4.3 and in Section 2A.2.4.

2A.2-2-A Confirmation of the Reactor Building χ/Q Values

NAPS COL 2A.2-2-A

This COL item is addressed in Section 2A.2.5.

Chapter 15 Safety Analyses

This chapter of the referenced DCD is incorporated by reference with the following departures and/or supplements.

15.3 Analysis of Infrequent Events

15.3.10.5 Radiological Consequences

Add the following sentence at the end of this section.

STD SUP 15.3-1

In addition, procedures discuss the use of nuclear instrumentation to aid in detecting a possible mislocated fuel bundle after fueling operations.

15.4.1 Fuel Handling Accident

15.4.1.2.3 Identification of Operator Actions

Add the following paragraph at the end of this section.

NAPS SUP 15.4-1

During movement of irradiated fuel, those doors and personnel air locks on the plant east sides of the Reactor Building or Fuel Building that could act as a point source could result in control room γ/Q values that are higher than the ESBWR γ/Q values for a release in the Reactor Building or Fuel Building (See Section 2A.2.5). Therefore, those doors and personnel air locks on the plant east sides of the Reactor Building or Fuel Building that could act as a point source are administratively controlled to remain closed during movement of irradiated fuel. Administrative control of these doors and personnel air locks ensures that the control room habitability dose analysis for the fuel handling accident (FHA) incorporated by reference from DCD Section 15.4.1 is bounding for Unit 3 and control room doses do not exceed the requirements of GDC 19 in the event of an FHA.

NAPS SUP 15.3-2

15.6 ESP Information

NAPS ESP VAR 2.0-6

SSAR Chapter 15 is incorporated by reference except that information related to the ESBWR is replaced by DCD Chapter 15.