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

Serial No. NA3-13-003R
Docket No. 52-017
COL/BCB

DOMINION VIRGINIA POWER
NORTH ANNA UNIT 3 COMBINED LICENSE APPLICATION
SRP 14.03.03: RESPONSE TO RAI LETTER 108

On January 18, 2013, the NRC requested additional information to support the review of certain portions of the North Anna Unit 3 Combined License Application (COLA), which consisted of one question. The response to the following Request for Additional Information (RAI) Question is provided in the enclosure:

- RAI 6923, Question 14.03.03-2 Design ITAAC for Ultimate Heat Sink and Essential Service Water Systems

This information will be incorporated into a future submission of the North Anna Unit 3 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,

A handwritten signature in blue ink, appearing to read "Eugene S. Grecheck".

Eugene S. Grecheck

D089
MFO

Enclosure: Response to NRC RAI Letter No. 108, RAI 6923, Question 14.03.03-2

Commitments made by this letter:

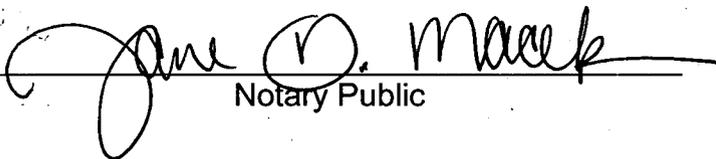
1. This information will be incorporated into a future submission of the North Anna Unit 3 COLA, as described in the enclosures.

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 Engineering and 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 28th day of February, 2013
My registration number is 112536 and my
Commission expires: April 30th 2015


Notary Public

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

ENCLOSURE

Response to NRC RAI Letter No. 108

RAI No. 6923, Question 14.03.03-2

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

North Anna Unit 3

Dominion

Docket No. 52-017

RAI NO.: 6923 (RAI LETTER NO. 108)

**SRP SECTION: 14.03.03 – PIPING SYSTEMS AND COMPONENTS –
INSPECTIONS, TESTS, ANALYSES, AND
ACCEPTANCE CRITERIA**

DATE OF RAI ISSUE: 01/18/2013

QUESTION NO.: 14.03.03-2

In reviewing Part 10 of the North Anna Unit 3 COL application, the staff identified that for the Ultimate Heat Sink System (UHSS) and Essential Service Water System (ESWS), a design ITAAC to ensure that the components and piping identified as ASME Code Section III are designed in accordance with ASME Code Section III requirements is missing. Note that for the USAPWR DCD application, a design ITAAC for ASME Code Section III components and piping is included in a generic table in Tier 1, Table 2.3-2, which is applicable to all the systems that contain ASME Code Section III component and piping. The applicant is requested to add such ITAAC to the UHSS and ESWS ITAAC table, or reference the USAPWR generic Table 2.3-2 to state that the design ITAAC in USAPWR DCD Tier 1 Table 2.3-2 will apply to the UHSS and ESWS system. Note that this is also applicable to other site-specific systems that contain ASME Code Section III components and piping.

Dominion Response

Luminant submitted supplemental information to the NRC in a letter dated July 16, 2012 (ML12199A291) that augmented the initial response to Comanche Peak RAI 2583, Question 14.03.03-1. The supplemental RAI response stated that an additional ITAAC was added to CP COLA Part 10 to address the design of ASME Code Section III piping systems and components for the UHSS and ESWS.

In a letter to the NRC, dated February 1, 2013 (ML13036A337), Dominion endorsed Luminant's supplemental response to Comanche Peak RAI 2583, Question 14.03.03-1. To reflect this endorsement, ITAAC that address the design of ASME Code Section III piping systems and components for the UHSS and ESWS will be added to the COLA.

Proposed COLA Revision

COLA Part 10, Table A.1-1 will be revised as shown on the attached markup.

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 in response to the subject RAI. However, the same COLA content may be impacted by revisions to the DCD, responses to other 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.

Table A.1-1 Ultimate Heat Sink System (UHSS) and Essential Service Water System (ESWS) (Portions Outside the Scope of the Certified Design) Inspections, Tests, Analyses, and Acceptance Criteria

Design Commitment	Inspections, Tests, Analyses	Acceptance Criteria
<p>2.a.ii The ASME Code Section III components of the UHSS and ESWS (portions outside the scope of the certified design) identified in Table A.1-2 are reconciled with the design requirements.</p>	<p>2.a.ii A reconciliation analysis of the components of the UHSS and ESWS (portions outside the scope of the certified design) identified in Table A.1-2 using as-designed and as-built information and ASME Code Section III design report(s) (NCA-3550) will be performed.</p>	<p>2.a.ii The ASME Code Section III design report(s) (certified, when required by ASME Code) exist and conclude that design reconciliation has been completed in accordance with the ASME Code, for the as-built ASME Code Section III components of the UHSS and ESWS (portions outside the scope of the certified design) identified in Table A.1-2. The report documents the results of the reconciliation analysis.</p>
<p><u>2.a.iii The ASME Code Section III components of the UHSS and ESWS (portions outside the scope of the certified design), identified in Table A.1-2, are designed to retain their pressure integrity and functional capability under internal design and operating pressures and design basis loads.</u></p>	<p><u>2.a.iii Inspection of the stress report(s) for the ASME Code Section III components of the UHSS and ESWS (portions outside the scope of the certified design), identified in Table A.1-2 will be performed.</u></p>	<p><u>2.a.iii The stress report(s) exist and conclude that the design of the ASME Code Section III components of the UHSS and ESWS (portions outside the scope of the certified design) identified in Table A.1-2 complies with ASME Code Section III requirements.</u></p>

**Table A.1-1 Ultimate Heat Sink System (UHSS) and Essential Service Water System (ESWS)
(Portions Outside the Scope of the Certified Design)
Inspections, Tests, Analyses, and Acceptance Criteria**

Design Commitment	Inspections, Tests, Analyses	Acceptance Criteria
<p><u>2.b.iii The ASME Code Section III piping of the UHSS and ESWS (portions outside the scope of the certified design), identified in FSAR Table 3.2-201, is designed to retain its pressure integrity and functional capability under internal design and operating pressures and design basis loads.</u></p>	<p><u>2.b.iii Inspection of the stress report(s) for the ASME Code Section III piping of the UHSS and ESWS (portions outside the scope of the certified design), identified in FSAR Table 3.2-201 will be performed.</u></p>	<p><u>2.b.iii The stress report(s) exist and conclude that the design of the ASME Code Section III piping of the UHSS and ESWS (portions outside the scope of the certified design) identified in FSAR Table 3.2-201 complies with ASME Code Section III requirements.</u></p>
<p>3.a Pressure boundary welds in ASME Code Section III components, identified in Table A.1-2, meet ASME Code Section III requirements for non-destructive examination of welds.</p>	<p>3.a Inspections of the as-built pressure boundary welds in ASME Code Section III components, identified in Table A.1-2, will be performed in accordance with the ASME Code Section III.</p>	<p>3.a The ASME Code Section III code reports exist and conclude that the ASME Code Section III requirements are met for nondestructive examination of the as-built pressure boundary welds in ASME Code Section III components, identified in Table A.1-2.</p>
<p>3.b Pressure boundary welds in ASME Code Section III piping of the UHSS and ESWS (portions outside the scope of the certified design), identified in FSAR Table 3.2-201, meet ASME Code Section III requirements for non-destructive examination of welds.</p>	<p>3.b Inspections of the as-built pressure boundary welds in ASME Code Section III piping of the UHSS and ESWS (portions outside the scope of the certified design), identified in FSAR Table 3.2-201, will be performed in accordance with the ASME Code Section III.</p>	<p>3.b The ASME Code Section III code reports exist and conclude that the ASME Code Section III requirements are met for nondestructive examination of the as-built pressure boundary welds in ASME Code Section III piping of the UHSS and ESWS (portions outside the scope of the certified design) identified in FSAR Table 3.2-201.</p>