PMNorthAnna3COLPEmails Resource

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Sent: Tuesday, April 22, 2014 9:29 AM
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Subject: Draft RAIs 7481 and 7483 for FSAR Sections 9.2 and 13.3, North Anna COLA (52-017)
Attachments: Draft RAI_7481.docx; Draft RAI_7483.docx

Hi,

Please see attached draft RAIs 7481 and 7483 for section 9.2 and 13.3 respectively of the FSAR for North Anna 3 COLA. If you need any clarifications, please let me know before COB April 24, 2014. Otherwise it will be issued as final after that date.

Sincerely,
Chandu Patel

Hearing Identifier: NorthAnna3_Public_EX
Email Number: 1159

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Request for Additional Information (Draft)

Issue Date:
Application Title: North Anna, Unit 3 - Docket Number 52-017
Operating Company: Dominion
Docket No. 52-017
Review Section: 09.02.01 - Station Service Water System
Application Section:

QUESTIONS

09.02.01-XX

As stated in the applicant's response to Question 09.01.01-13, the quality requirements for the plant service water system (PSWS) was addressed in a table for the fiberglass piping.

As described in the ESBWR DCD, Tier 2, Section 9.2.1.1, the PSWS has regulatory treatment of nonsafety-related system (RTNSS) functions as described in Appendix 19A, which provides the level of oversight and additional requirements to meet the RTNSS functions. Performance of RTNSS functions are assured by applying the defense-in-depth principles of redundancy and physical separation to ensure adequate reliability and availability as described in Subsection 19A.8.3. The design basis capabilities of the PSWS are sufficient to meet the RTNSS performance requirements described in Chapter 19A.

The staff determined that these quality requirements where not specifically addressed in the Final Safety Analysis Report (FSAR) as required by 10 CFR 52.79. The level of design information is missing from the application related to this PSWS fiberglass material.

Specifically, the FSAR should describe (for example, but not limited too) PSWS fiberglass piping information such as:

- Fiberglass design and operating pressure and temperature limits
- Fiberglass Codes and Standards
- Fiberglass piping protection such as pipe sleeves (high traffic areas)
- Fiberglass piping minimum wall thickness or specific design margins
- Fiberglass piping programs for ensuring piping is not deflected during storage, installation, and post installation (including training of personnel)
- In-service inspection program specific to fiberglass RTNSS piping
- Fiberglass pressure testing including cyclic pressure tests
- Fiberglass seismic design, water hammer design, and or thrust block design consideration

In addition, in accordance with RG 1.206, "Combined License Application for Nucleal Power Plant," CII.1.2.7, ITAAC for Plant Systems (SRP Section 14,3,7)," Commensurate with the importance of the design attribute to safey, the applicant should develp ITAAC to verify pressure boundary integrity (as necessary)."

Therefore, the applicant should consider ITAAC for the PSWS fiberglass piping related to piping integrity (for example, but not limited too):

- Code pressure testing
- Cyclic testing
- Location of protective pipe sleeves (high traffic areas)

Request for Additional Information (Draft)

Issue Date:
Application Title: North Anna, Unit 3 - Docket Number 52-017
Operating Company: Dominion
Docket No. 52-017
Review Section: 13.03 - Emergency Planning
Application Section:

QUESTIONS

13.03-XX

Section 3.3, "Transient Population," of the Evacuation Time Estimate (ETE) Final Report, Revision 1 (KLD TR-503, November 2012), states that a total of 2,298 transients and 899 vehicles are assigned to campgrounds in the (North Anna Power Station) emergency planning zone (EPZ). These values correspond to value in ETE Table E-5, "Campgrounds within the EPZ," which shows 2,000 transients and 800 vehicles for the Christopher Run Campground, and 298 transients and 99 vehicles for the Lake Anna State Park. ETE Section 3.3 further states that data gathered from Lake Anna State Park include 1,920 transients and 480 vehicles, which corresponds to values in ETE Table E-6, "State Parks within the EPZ." The facility name and address for Lake Anna State Park are identical in Tables E-5 and E-6. Explain why there are two separate sets of transient data for Lake Anna State Park in Table E-5 and Table E-6, including why the total number of transients and vehicles are different.