PMNorthAnna3COLPEmails Resource

From: Patel, Chandu
Sent: Tuesday, February 15, 2011 11:45 AM
To: 'na3raidommailbox@dom.com'
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Subject: Draft Rai 5476 and 5496, Section 9.1.5 and 3.9.6 9 for North Anna 3 COLA.
Attachments: Draft RAI 5476.doc; Draft RAI 5496.doc

Please see attached Draft RAI 5476 and 5496 for Sections 9.1.5 and 3.9.6 for North Anna 3 COLA. Please let me know if you need any clarification by COB February 18, 2011. Otherwise, it will be issued as final after February 21, 2011.

Chandu Patel
Lead Project Manager for North Anna 3 COLA
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Draft RAI 5476.doc	32250	
Draft RAI 5496.doc	32250	

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Request for Additional Information No. 5476 (Draft)

North Anna, Unit 3
Dominion
Docket No. 52-017
SRP Section: 09.01.05 - Overhead Heavy Load Handling Systems
Application Section: 9.1.5

QUESTIONS for Balance of Plant Branch 1 (AP1000/EPR Projects) (SBPA)

09.01.05-***

Regulatory Guide (RG) 1.206, “Combined License Applications for Nuclear Power Plants (LWR Edition),” Section C.I.9.1.5 states that the applicant should describe the program and schedule for implementation of the program governing heavy load handling, including several bulleted items (see below) as listed in the RG 1.206.

NUREG-0800, Standard Review Plan (SRP) Section 9.1.5, “Overhead Heavy Load Handling Systems,” and Section 5.1.1 of NUREG-0612, “Control of Heavy Load at Nuclear Power Plants,” also describe heavy load handling guidelines.

As a minimum, the COLA should describe the program and schedule for heavy load handling including the following:

- A listing of all heavy loads and heavy load handling equipment outside the scope of loads described in the referenced certified design and the associated heavy load attributes (load weight and typical load path)
- Heavy load handling safe load paths and routing plans including descriptions of automatic and manual interlocks and safety devices and procedures to assure safe load path compliance
- Heavy load handling equipment maintenance manuals and procedures
- Heavy load handling equipment inspection and test plans
- Heavy load handling personnel qualifications, training, and control programs
- Quality assurance (QA) programs to monitor, implement, and ensure compliance with the heavy load handling program

A heavy load handling program that meets Section 5.1.1 of NUREG-0612, SRP Section 9.1.5 and RG 1.206 Section C.I.9.1.5 should be in place before there is a possibility that a load drop could cause a release of radioactivity, a criticality accident, an inability to cool fuel within the reactor vessel or spent fuel pool, or prevent safe shutdown of the reactor.

Provide a description in the FSAR of the key elements of the heavy loads handling program at a level of detail similar to that of Section 5.1.1 of NUREG-0612, SRP Section 9.1.5, and RG 1.206. Include in the FSAR a description of the program areas that will be addressed by the procedures developed to cover load handling operations, a discussion on the establishment and use of safe load paths, programs or procedures for training and qualification of crane operator, programs or procedures for crane inspection testing and maintenance, and the heavy loads quality assurance program. In addition, provide a schedule as to when the procedures will be completed.

Request for Additional Information No. 5496 (Draft)

North Anna, Unit 3
Dominion
Docket No. 52-017
SRP Section: 03.09.06 - Functional Design Qualification and Inservice Testing Programs for Pumps, Valves, and Dynamic Restraints
Application Section: 3.9.6

QUESTIONS for Component Integrity, Performance, and Testing Branch 1 (AP1000/EPR Projects) (CIB1)

03.09.06-***

In its letter dated November 10, 2010, regarding the North Anna Unit 3 US-APWR subsequent COL application (S-COLA), Dominion indicates its endorsement of specific responses to requests for additional information (RAIs) submitted by Luminant for the Comanche Peak Units 3 and 4 US-APWR reference COL application (R-COLA). In its letter, Dominion indicates that it does not endorse the response provided by Luminant in a letter dated October 29, 2009, to RAI 03.09.06-7 prepared on the Comanche Peak Units 3 and 4 R-COLA. Therefore, the NRC staff requests that Dominion discuss the basis for the deferral of exercise testing without a partial stroke test at a quarterly interval for the specific valves identified by Note 6 to North Anna 3 FSAR (Revision 3) Table 3.9-203, “Site-Specific Active Valve IST Requirements,” which states that exercise testing will be performed at cold shutdown to avoid impact on power operation.

03.09.06-***

In its letter dated November 10, 2010, regarding the North Anna Unit 3 US-APWR S-COLA, Dominion indicates its endorsement of specific RAI responses submitted by Luminant for the Comanche Peak Units 3 and 4 US-APWR R-COLA. In its letter, Dominion indicates that it does not endorse the response provided by Luminant in a letter dated October 29, 2009, to RAI 03.09.06-12 prepared on the Comanche Peak Units 3 and 4 R-COLA. Therefore, the NRC staff requests that Dominion discuss the plans to develop license conditions for implementation of the inservice testing (IST) and motor-operated valve (MOV) operational programs consistent with the guidance in Commission paper SECY-05-0197 and Regulatory Guide 1.206.

03.09.06-***

North Anna 3 FSAR (Revision 3) Table 3.9-203, “Site-Specific Active Valve IST Requirements,” includes site-specific valves not listed in the IST table in the Comanche Peak Units 3 and 4 FSAR (Revision 1). These valves include UHS-MOV-507A to D, UHS-MOV-508A to D, UHS-MOV-509A to D, and UHS-MOV-510A to D. The NRC staff requests that Dominion confirm that the provisions in the US-APWR Design Certification Design Control Document and Comanche Peak Units 3 and 4 US-APWR R-COLA FSAR for the functional design, qualification, and IST programs will be applied to these site-specific valves for North Anna Unit 3, or describe the plant-specific programs for these valves.