

PMNorthAnna3COLPEmails Resource

From: Patel, Chandu
Sent: Wednesday, September 28, 2011 3:05 PM
To: 'na3raidommailbox@dom.com'
Cc: PMNorthAnna3COLPEmails Resource; Weisman, Robert; Reyes, Ruth; Pohida, Marie
Subject: RAI Letter No. 85, RAI 6021, FSAR Section 19, North Anna 3 COLA
Attachments: RAI Letter 85 RAI 6021.doc

By letter dated November 26, 2007, Dominion Virginia Power (Dominion) submitted a Combined License Application for North Anna, Unit 3, pursuant to Title 10 of the *Code of Regulations*, Part 52. The U.S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this COLA.

The NRC staff has identified that additional information is needed to continue portions of the review and a Request for Additional Information (RAI), is enclosed. To support the review schedule, Dominion is requested to respond within 60 days of the date of this request. If the RAI response involves changes to the application documentation, Dominion is requested to include the associated revised documentation with the response.

Sincerely,
Chandu Patel
Lead Project Manager for NA3 COLA

Hearing Identifier: NorthAnna3_Public_EX
Email Number: 1015

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RAI Letter 85
9/28/2011
North Anna, Unit 3
Dominion
Docket No. 52-017
SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation
Application Section: 19

QUESTIONS for PRA and Severe Accidents Branch (SPRA)

Request for Additional Information No. 6021 Revision 2

19-5

Based on staff review of FSAR Chapter 2.4.4, the staff understands that North Anna has partially buried water storage basins that provide the required 30 day water supply without makeup during accident conditions. Based on the availability of these water storage basins, the applicant has concluded that even if Lake Anna were to be drained due to a dam failure, no safety-related structures or systems for Unit 3 would be adversely affected. The staff then reviewed Table 17.4-201, Risk-Significant SSC's (Phase II D-RAP). The staff found that the partially buried water storage basins were not added to DRAP as plant specific SSCs. Given the US Bureau of Reclamation perspective of dam failure rates based on published literature, the failure rate of dams is very roughly estimated as 1/10,000 per year depending on age and failure mechanism. Based on this observation, the staff is requesting that the applicant add the partially buried water storage basins to Table 17.4-201, Risk Significant SSC's (Phase II D-RAP).