

## PMNorthAnna3COLPEmails Resource

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**From:** John Segala  
**Sent:** Thursday, December 11, 2008 12:53 PM  
**To:** Jeffrey Cruz  
**Cc:** Thomas Kevern; NorthAnna3COL Resource; Stephen Campbell; Angelo Stubbs; Janelle Jessie  
**Subject:** SUBMITTAL: Phase 2 Input for North Anna SER w/OIs Section 9.2.6  
**Attachments:** NORTH ANNA 3 RCOL SER W\_OIs Section 9 2 6.doc

Jeff,

Stephen Campbell and I approve of the attached Phase 2 input for the North Anna SER w/OIs Section 9.2.6.

This section has no RAs or Open Items.

*John*

John P. Segala, Chief  
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Division of Safety Systems and Risk Assessment  
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**Hearing Identifier:** NorthAnna3\_Public\_EX  
**Email Number:** 572

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**Subject:** SUBMITTAL: Phase 2 Input for North Anna SER w/OIs Section 9.2.6  
**Sent Date:** 12/11/2008 12:52:30 PM  
**Received Date:** 12/11/2008 12:52:18 PM  
**From:** John Segala

**Created By:** John.Segala@nrc.gov

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**Post Office:** HQCLSTR02.nrc.gov

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**Recipients Received:**

## **NORTH ANNA 3 RCOL SAFETY EVALUATION REPORT WITH OPEN ITEMS INPUT**

### **9.2.6 Condensate Storage and Transfer System**

#### 9.2.6.X Technical Evaluation

The NRC staff reviewed conformance of Section 9.2.6 of the North Anna COL FSAR to the relevant NRC regulations and acceptance criteria defined in NUREG-0800, Section 9.2.6, "Condensate Storage Facilities." The NRC staff's review finds that the applicant appropriately incorporated by reference Section 9.2 of the ESBWR DCD, Rev. 3, with the following Tier 2 supplemental information added:

#### STD SUP 9.2.6-1

The applicant provided supplemental information as part of the FSAR with regards to condensate storage and transfer system freeze protection. In FSAR Section 9.2.6, the applicant added the following text to the end of the first paragraph of Section 9.2.6.2 of the ESBWR DCD, Revision 3:

"Freeze protection is provided for the CS&TS."

The NRC staff reviewed the standard supplemental information provided in STD SUP 9.2.6-1. Freeze protection for the condensate storage and transfer system is addressed in Section 1.2.2.12.2, "Condensate Storage and Transfer System (CS&TS)," of the ESBWR DCD, Revision 3. Although the CS&TS does not perform or ensure any safety-related function, and is not required to achieve or maintain safe shut down, DCD Section 1.2.2.12.2 specifies that if required, the CS&TS will be provided with freeze protection. A general discussion on freeze protection is provided in Section 1.2.2.12.16 of the North Anna COL FSAR. The incorporation of freeze protection in the CS&TS design is a system enhancement that has no impact on the system's regulatory compliance, but could result in increase system reliability and availability; therefore the staff finds the proposed standard supplement acceptable.

#### 9.2.6.Y Post Combined License Activities

None

#### 9.2.6.Z Conclusion

The NRC staff concludes that the information pertaining to the North Anna COL FSAR Section 9.2.6 is within the scope of the design certification and adequately incorporates by reference Section 9.2.6 of the ESBWR DCD, and is thus acceptable.

In addition, the staff has reviewed the additional supplemental information within the application to the relevant NRC regulations, acceptance criteria defined in NUREG-0800, Section 9.2.6, and other NRC regulatory guides and concludes that the applicant is in compliance with the NRC regulations.