

## PMVogtleCOLPEm Resource

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**From:** John-Chau Nguyen  
**Sent:** Tuesday, March 10, 2009 3:11 PM  
**To:** wasparkm@southernco.com; Aughtman, Amy G.  
**Cc:** PMVogtleCOLPEm Resource; John-Chau Nguyen; Christian Araguas  
**Subject:** Draft RAI 2300 Related SRP Section 2.4.2 for Vogtle Units 3 and 4  
**Attachments:** RAI 2300.doc

To All,

Attached is Draft RAI 2300 related to SRP Section 2.4.2 for Vogtle Units 3 and 4. Please contact me if you desire a phone conference regarding these RAIs. If no response is heard by close of business March 13, 2009, the final RAI will be issued.

John-Chau Nguyen  
Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

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**Received Date:** 3/10/2009 3:10:31 PM  
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Request for Additional Information No. 2300 Revision 0

Vogtle  
Southern Nuclear Operating Co.  
Docket No. 52-0025 and 52-0026  
SRP Section: 02.04.02 - Floods  
Application Section: 2.4.2

QUESTIONS for Hydrologic Engineering Branch (RHEB)

02.04.02-\*\*\*

Staff reviewed the local intense precipitation flood event as described in FSAR Section 2.4.2. In accordance with requirements based on 10 CFR 100.20(c) and 10 CFR 52.79(a), staff requests additional information concerning the drainage basins and ditches in the vicinity of Vogtle Units 3 and 4.

In FSAR Section 2.4.2.3, the Manning's roughness values provided are 0.014 and 0.015 in the ditches, and overbank values of 0.020 and 0.030. A value of 0.030 occurs in only a few of the HEC-RAS cross-sections. The applicant states in the FSAR that these values are conservative and the ditches are assumed to be well maintained. Staff's analyses of the HEC-RAS model show the water surface elevation could exceed the safety-related elevation of 220 ft msl with increased Manning's roughness.

The applicant should update the FSAR to include detailed information regarding the finishes and maintenance of drainage channels that have been represented in the hydraulic model.