

## Vogle PEmails

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**From:** Patel, Chandu  
**Sent:** Wednesday, August 28, 2019 11:24 AM  
**To:** Vogle PEmails  
**Cc:** Rankin, Jennivine  
**Subject:** FW: Discussion Point for a clarification Call

This questions were sent to SNC for discussion purpose during a public meeting.

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**From:** Patel, Chandu  
**Sent:** Monday, August 26, 2019 9:09 AM  
**To:** Chamberlain, Amy Christine <ACCHAMBE@southernco.com>  
**Subject:** Discussion Point for a clarification Call

Hi Amy,

The staff has the following questions regarding the development of the IRWST source term in LAR 19-003 for which we would like clarification. We would like to have a call with SNC to discuss the following:

1. The UFSAR indicates that the minimum IRWST water volume is 73,100 ft<sup>3</sup>. However, the volume of the IRWST vapor space source term is unclear. Please clarify the volume of the IRWST vapor space.
2. The IRWST vapor space source term is provided in the proposed updated DCD Table 12.2-30 (Sheet 1 of 6), the source term only includes noble gases. Please specify your assumptions and why halogens or other radionuclides are not in the vapor space source term.
3. Table 12.2-30 provides the radionuclide concentrations in the liquid and vapor space in units of uCi/gram. Please clarify if the vapor space activity should be assumed to have the density of air and the liquid space activity should have the density of water?
4. UFSAR Table 12.2-24 appears to indicate that the decontamination factor for the spent fuel pool purification demineralizer for Cs and Rb is 2. However, based on the staff's confirmatory analysis, it appears a higher decontamination factor than 2 may have been used for Cs and Rb, in calculating the IRWST liquid source term. Please clarify the decontamination factor assumed for Cs and Rb for the spent fuel pool purification filter and demineralizer in calculating the IRWST liquid source term. If the value used is different than what is specified in the FSAR, the difference and basis for the difference should be documented.

Please let me know when you are ready to discuss.

Thanks,

**Chandu Patel, Senior Project Manager**  
**U.S. NRC, Office of New Reactors**  
**NRC/NRO/DNRL/LB4,**  
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**Hearing Identifier:** Vogtle\_COL\_Docs\_Public  
**Email Number:** 473

**Mail Envelope Properties** (BYAPR09MB29686B9EB32F3E4998E4CF7882A30)

**Subject:** FW: Discussion Point for a clarification Call  
**Sent Date:** 8/28/2019 11:24:28 AM  
**Received Date:** 8/28/2019 11:24:30 AM  
**From:** Patel, Chandu

**Created By:** Chandu.Patel@nrc.gov

**Recipients:**  
"Rankin, Jennivine" <Jennivine.Rankin@nrc.gov>  
Tracking Status: None  
"Vogtle PEmails" <Vogtle.PEmails@nrc.gov>  
Tracking Status: None

**Post Office:** BYAPR09MB2968.namprd09.prod.outlook.com

Files	Size	Date & Time
MESSAGE	2117	8/28/2019 11:24:30 AM

**Options**  
**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**