

PMBeCOL PEmails

From: Joseph Sebrosky
Sent: Friday, October 17, 2008 3:51 PM
To: 'rgrumbir@gmail.com'; 'alsterdis@tva.gov'; 'erg-xl@cox.net'; 'pshastings@duke-energy.com'; 'Ray, Phillip M'; 'kslays@duke-energy.com'; 'Bob Hirmanpour'
Cc: PMBeCOL PEmails; Ravindra Joshi; Christian Araguas; Seshagiri Tammara; Charles Cox
Subject: draft 2.2.3 followon questions
Attachments: draft 2.2.3 followon rais.doc

To All,

Attached are draft 2.2.3 followon RAIs for Bellefonte Units 3 and 4. Please contact me if you desire a phone conference regarding this RAI. If no response is heard by close of business October 23, 2008, the final RAIs will be issued.

Sincerely,

Joe Sebrosky

Hearing Identifier: Bellefonte_COL_Public_EX
Email Number: 1149

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Subject: draft 2.2.3 followon questions
Sent Date: 10/17/2008 3:51:12 PM
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From: Joseph Sebrosky

Created By: Joseph.Sebrosky@nrc.gov

Recipients:

"PMBelCOL PEmails" <PMBelCOL.PEmails@nrc.gov>
Tracking Status: None
"Ravindra Joshi" <Ravindra.Joshi@nrc.gov>
Tracking Status: None
"Christian Araguas" <Christian.Araguas@nrc.gov>
Tracking Status: None
"Seshagiri Tammara" <Seshagiri.Tammara@nrc.gov>
Tracking Status: None
"Charles Cox" <Charles.Cox@nrc.gov>
Tracking Status: None
"rgrumbir@gmail.com" <rgrumbir@gmail.com>
Tracking Status: None
"alsterdis@tva.gov" <alsterdis@tva.gov>
Tracking Status: None
"erg-xl@cox.net" <erg-xl@cox.net>
Tracking Status: None
"pshastings@duke-energy.com" <pshastings@duke-energy.com>
Tracking Status: None
"Ray, Phillip M" <pmray@tva.gov>
Tracking Status: None
"kslays@duke-energy.com" <kslays@duke-energy.com>
Tracking Status: None
"Bob Hirmanpour" <bobhirman@live.com>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

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draft 2.2.3 followon rais.doc	29178	

Options

Priority: Standard
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Bellefonte Units 3 and 4
Tennessee Valley Authority
Docket No. 52-014 and 52-015
SRP Section: 02.02.03 - Evaluation of Potential Accidents
Application Section: SRP 2.2.3
Sent to TVA on 10/17/08

QUESTIONS from Siting and Accident Conseq Branch (RSAC)

ERAI 1480, 02.02.03-***

RG 1.206 provides guidance regarding the information that is needed to ensure potential hazards in the site vicinity are identified and evaluated to meet the siting criteria in 10 CFR 100.20 and 10 CFR 100.21. Westinghouse furnished a detailed/revised standard chemicals list used for AP1000 design to Vogtle (SCOLA) which deviates from the original AP1000 DCD Table 6.4-1. BLN (RCOLA) needs to provide a discussion in FSAR Section 2.2.3.1.1 that could be used as standard information in SCOLAs of how these chemicals and any additional site specific chemicals used, along with quantities and locations stored onsite for BLN units 3 & 4, were analyzed for potential control room habitability impacts.

02.02.03-***

RG 1.206 provides guidance regarding the information that is needed to ensure potential hazards in the site vicinity are identified and evaluated to meet the siting criteria in 10 CFR 100.20 and 10 CFR 100.21. The IDLH concentrations of gasoline (300 ppm, 1227 mg/cu.m), ammonia (300 ppm, 209 mg/cu.m), propylene oxide (400 ppm, 949 mg/cu.m) are lower than the applicant's screening criteria. Justify the use of the screening criteria with higher than IDLH concentrations and how they relate to control room habitability. In addition, based on the applicant's provided information (Tables 2.2-215 and 2.2-216), chemicals with IDLH concentrations considered for barge transport, styrene (2978 mg/cu.m), ethanol (6209 mg/cu.m), sodium hydroxide (10 mg/cu.m), pose a concern for control room habitability. The staff's independent analysis shows that the concentrations of these chemicals exceed the respective IDLH concentrations at the intake of the control room. Provide a basis for why these chemicals do not pose a potential control room habitability issue.

02.02.03-***

RG 1.206 provides guidance regarding the information that is needed to ensure potential hazards in the site vicinity are identified and evaluated to meet the siting criteria in 10 CFR 100.20 and 10 CFR 100.21. The NRC staff's confirmatory analysis of chemicals for potential flammable vapor cloud (delayed ignition) resulted in only styrene concentration exceeding Lower Explosive Limit (LEL) concentration at BLN site, which differs from the applicant's analysis. Please clarify the analysis performed for styrene by including ALOHA inputs used for scenarios considering rupture sizes addressed and entire contents released instantaneously.