PMBelCOL PEmails

From: Ravindra Joshi
Sent: Friday, May 15, 2009 3:52 PM
To: andrea sterdis; bob Hirman; Eddie R Grant; Hastings, Peter S; Kim Slays; rgrumbir@gmail.com; Tom Ryan; Tom Spink
Cc: BelCol Resource; Joseph Sebrosky; Christopher Jackson; Nan Chien
Subject: Draft RAI 2734 related to SRP section 6.4 for Bellefonte units 3 and 4
Attachments: RAI 2734.doc

To All,
Attached is draft RAI 2734 related to SRP Section 6.4 for Bellefonte Units 3 and 4. If you would like to schedule a conference call to discuss this RAI, please let me know before 5:00 PM on May 20, 2009. If no request for a conference call is received, this RAI will be issued as Final.

Thanks,

Ravindra G. Joshi
Project Manager
AP1000 Project
NRO/DNRL/NWE1
US NRC
301-415-6191.

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Subject: Draft RAI 2734 related to SRP section 6.4 for Bellefonte units 3 and 4
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From: Ravindra Joshi

Created By: Ravindra.Joshi@nrc.gov

Recipients:
"BelCol Resource" <BelCol.Resource@nrc.gov>
Tracking Status: None
"Joseph Sebrosky" <Joseph.Sebrosky@nrc.gov>
Tracking Status: None
"Christopher Jackson" <Christopher.Jackson@nrc.gov>
Tracking Status: None
"Nan Chien" <Nan.Chien@nrc.gov>
Tracking Status: None
"andrea sterdis" <alsterdis@tva.gov>
Tracking Status: None
"bob Hirman" <bobhirman@live.com>
Tracking Status: None
"Eddie R Grant" <erg-xl@cox.net>
Tracking Status: None
"Hastings, Peter S" <pshastings@duke-energy.com>
Tracking Status: None
"Kim Slays" <Kslays@duke-energy.com>
Tracking Status: None
"rgrumbir@gmail.com" <rgrumbir@gmail.com>
Tracking Status: None
"Tom Ryan" <wtryan@tva.gov>
Tracking Status: None
"Tom Spink" <tespink@tva.gov>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

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Request for Additional Information No. 2734

Bellefonte Units 3 and 4
TVA
Docket No. 52-014 and 52-015
SRP Section: 06.04 - Control Room Habitability System
Application Section: SRP 6.4

QUESTIONS for Containment and Ventilation Branch 1 (AP1000/EPR Projects) (SPCV)

06.04-***

Bellefonte Nuclear Plant, Units 3 & 4 COL Application FSAR 6.4.4.2 “Toxic Chemical Habitability Analysis”

Utilizing the method provided in Regulatory Guide 1.78 Appendix A, FSAR Figure 6.4-201 indicates the presence of chlorine in the atmosphere (human detection threshold is 3.5 ppm; at approximately 12 minutes on Figure 6.4-201). As indicated in Regulatory Guide 1.78, it is expected that a control room operator will take protective measures within two minutes after detection. Procedures require that control room personnel manually activate VES in the event of a chlorine gas release that affects the control room environment.

Figure 6.4-201only simulates VBS operation for more than 20 minutes. Control room chlorine concentration after the switching from VBS to VES is missing. Please provide the computer simulation that should continue to cover the VES portion of operation to demonstrate chlorine concentration in the control room does not exceed the limit.

Also, the control room inleakage rates are not considered for the VBS simulation. The VBS inleakage is higher than the leakage rate during VES operation per DCD. Westinghouse is revising (Westinghouse letter dated May 4, 2009) its design to allow 15 cfm control room unfiltered inleakage (10 cfm through control room envelope plus 5 cfm through vestibule doors ingress/egress) during VES operation. Any revised VBS and VES control room inleakage should be considered in the computer simulations.