PMBelCOL PEmails

From: Joseph Sebrosky
Sent: Friday, October 24, 2008 7:59 AM
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: PMBelCOL PEmails; Brian Hughes; RidsNroDnrlNwe1 Resource; Stephanie Coffin; Manny Comar; RidsNroLAKGoldstein Resource; Tanya Simms; Ann Hodgdon; RidsOgcMailCenter Resource; Ravindra Joshi; RidsAcrsAcnw_MailCTR Resource; RidsRgn2MailCenter Resource; Jody Martin; Seshagiri Tammara; Charles Cox
Subject: RAI Letter No. 132 Related to SRP Section 2.2.3 for Bellefonte Units 3 and 4
Attachments: BLN-RAI-LTR-132.pdf

To All,

Attached is RAI Letter Nos. 130 related to SRP Section 2.4.13 for Bellefonte Units 3 and 4. The ADAMS accession number for the documents is ML082970551 .

Sincerely,

Joseph Sebrosky

Hearing Identifier: Bellefonte_COL_Public_EX
Email Number: 1156

Mail Envelope Properties (C4A4C9A16294FB4CBA5A36312D05FFAC0AC4380193)

Subject: RAI Letter No. 132 Related to SRP Section 2.2.3 for Bellefonte Units 3 and 4
Sent Date: 10/24/2008 7:59:09 AM
Received Date: 10/24/2008 7:59:09 AM
From: Joseph Sebrosky

Created By: Joseph.Sebrosky@nrc.gov

Recipients:
"PMBelCOL PEmails" <PMBelCOL.PEmails@nrc.gov>
Tracking Status: None
"Brian Hughes" <Brian.Hughes@nrc.gov>
Tracking Status: None
"RidsNroDnrlNwe1 Resource" <RidsNroDnrlNwe1.Resource@nrc.gov>
Tracking Status: None
"Stephanie Coffin" <Stephanie.Coffin@nrc.gov>
Tracking Status: None
"Manny Comar" <Manny.Comar@nrc.gov>
Tracking Status: None
"RidsNroLAKGoldstein Resource" <RidsNroLAKGoldstein.Resource@nrc.gov>
Tracking Status: None
"Tanya Simms" <Tanya.Simms@nrc.gov>
Tracking Status: None
"Ann Hodgdon" <Ann.Hodgdon@nrc.gov>
Tracking Status: None
"RidsOgcMailCenter Resource" <RidsOgcMailCenter.Resource@nrc.gov>
Tracking Status: None
"Ravindra Joshi" <Ravindra.Joshi@nrc.gov>
Tracking Status: None
"RidsAcrsAcnw_MailCTR Resource" <RidsAcrsAcnw_MailCTR.Resource@nrc.gov>
Tracking Status: None
"RidsRgn2MailCenter Resource" <RidsRgn2MailCenter.Resource@nrc.gov>
Tracking Status: None
"Jody Martin" <Jody.Martin@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

Files	**Size**	**Date & Time**
MESSAGE	220	10/24/2008 7:59:09 AM
BLN-RAI-LTR-132.pdf	141520	

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

BellefonteRAIsPEm Resource

From: Joseph Sebrosky
Sent: Thursday, October 23, 2008 12:59 PM
To: BellefonteRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 132 RELATED TO SRP SECTION 2.2.3 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION
Attachments: BLN-RAI-LTR-132.doc

Hearing Identifier: Bellefonte_COL_RAI_Public
Email Number: 119

Mail Envelope Properties (C4A4C9A16294FB4CBA5A36312D05FFAC0AC45258FD)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 132 RELATED TO SRP SECTION 2.2.3 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION
Sent Date: 10/23/2008 12:58:41 PM
Received Date: 10/23/2008 12:58:43 PM
From: Joseph Sebrosky

Created By: Joseph.Sebrosky@nrc.gov

Recipients:
"BellefonteRAIsPEm Resource" <BellefonteRAIsPEm.Resource@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	8	10/23/2008 12:58:43 PM
BLN-RAI-LTR-132.doc	54778	

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

October 23, 2008

Ms. Andrea L. Sterdis
Manager, Nuclear Licensing & Industry Affairs
Nuclear Generation Development & Construction
Tennessee Valley Authority
1101 Market Street
Chattanooga, Tennessee 37402-2801

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 132 RELATED TO SRP SECTION 2.2.3 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION

Dear Ms. Sterdis:

By letter dated October 30, 2007, as supplemented by letters dated November 2, 2007, January 8, 2008 and January 14, 2008, Tennessee Valley Authority (TVA) submitted its application to the U. S. Nuclear Regulatory Commission (NRC) for a combined license (COL) for two AP1000 advance passive pressurized water reactors pursuant to 10 CFR Part 52. The NRC staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 30 days of the date of this letter. If changes are needed to the final safety analysis report, the staff requests that the RAI response include the proposed wording changes.

If you have any questions or comments concerning this matter, you may contact me at 301-415-1132.

Sincerely,

/RA/

Joseph M. Sebrosky, Senior Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-014
52-015

eRAI Tracking No. 1480

Enclosure:
Request for Additional Information

CC: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-1132.

Sincerely,

/RA/

Joseph M. Sebrosky, Senior Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-014
52-015

eRAI Tracking No. 1480

Enclosure:
Request for Additional Information

Distribution:

Public	CCox	BHughes
RidsNroDnrlNwe1	SCoffin	MComar
RidsNroLAKGoldstein	TSimms	AHodgdon
RidsOgcMailCenter	RJoshi	STammara
RidsAcrsAcnwMailCenter		
RidsRgn2MailCenter		
JSebrosky		

NRO-002

OFFICE	RSAC*	RSAC/BC*		OGC	NWE1/L-PM
NAME	STammara	CCox		AHodgdon*	JSebrosky*
DATE	10/14/08	10/14/08		10/16/08	10/23/08

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

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

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.02.03-8

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.

02.02.03-9

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.

Enclosure