

PMBelCOL PEmails

From: Joseph Sebrosky
Sent: Thursday, September 04, 2008 2:27 PM
To: 'andrea sterdis'; 'bob Hirman'; 'Eddie R Grant'; 'Hastings, Peter S'; 'Kim Slays'; 'Ray, Phillip M'; 'rgrumbir@gmail.com'
Cc: Stephanie Coffin; Patrick Moulding; Ann Hodgdon; BelCol Resource; RidsNroDnrlNwe1 Resource; RidsNroLAKGoldstein Resource; RidsOgcMailCenter Resource; RidsRgn2MailCenter Resource; RidsAcrcAcnw_MailCTR Resource; Brian Anderson; Brian Hughes; Christian Araguas; Manny Comar; Tanya Simms; Ravindra Joshi; Clifford Munson; Rebecca Karas; Yong Li
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NUMBER 123 RELATED TO SRP SECTION 2.5.1 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE
Attachments: BLN-RAI-LTR-123.pdf

To All,

Attached is RAI letter No.119 related to SRP Section 2.5.1 for the Bellefonte Units 3 and 4. The ADAMS Accession number is ML082480476.

Joe Sebrosky
Project Manager
NRO/DNRL/NWE1
US NRC
301-415-1132

Hearing Identifier: Bellefonte_COL_Public_EX
Email Number: 759

Mail Envelope Properties (C4A4C9A16294FB4CBA5A36312D05FFAC0ABBFA7E4B)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NUMBER 123
RELATED TO SRP SECTION 2.5.1 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE
Sent Date: 9/4/2008 2:26:49 PM
Received Date: 9/4/2008 2:26:52 PM
From: Joseph Sebrosky

Created By: Joseph.Sebrosky@nrc.gov

Recipients:

"Stephanie Coffin" <Stephanie.Coffin@nrc.gov>
Tracking Status: None
"Patrick Moulding" <Patrick.Moulding@nrc.gov>
Tracking Status: None
"Ann Hodgdon" <Ann.Hodgdon@nrc.gov>
Tracking Status: None
"BelCol Resource" <BelCol.Resource@nrc.gov>
Tracking Status: None
"RidsNroDnrlNwe1 Resource" <RidsNroDnrlNwe1.Resource@nrc.gov>
Tracking Status: None
"RidsNroLAKGoldstein Resource" <RidsNroLAKGoldstein.Resource@nrc.gov>
Tracking Status: None
"RidsOgcMailCenter Resource" <RidsOgcMailCenter.Resource@nrc.gov>
Tracking Status: None
"RidsRgn2MailCenter Resource" <RidsRgn2MailCenter.Resource@nrc.gov>
Tracking Status: None
"RidsAcrsAcnw_MailCTR Resource" <RidsAcrsAcnw_MailCTR.Resource@nrc.gov>
Tracking Status: None
"Brian Anderson" <Brian.Anderson@nrc.gov>
Tracking Status: None
"Brian Hughes" <Brian.Hughes@nrc.gov>
Tracking Status: None
"Christian Araguas" <Christian.Araguas@nrc.gov>
Tracking Status: None
"Manny Comar" <Manny.Comar@nrc.gov>
Tracking Status: None
"Tanya Simms" <Tanya.Simms@nrc.gov>
Tracking Status: None
"Ravindra Joshi" <Ravindra.Joshi@nrc.gov>
Tracking Status: None
"Clifford Munson" <Clifford.Munson@nrc.gov>
Tracking Status: None
"Rebecca Karas" <Rebecca.Karas@nrc.gov>
Tracking Status: None
"Yong Li" <Yong.Li@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
"Ray, Phillip M" <pmray@tva.gov>
Tracking Status: None
"rgrumbir@gmail.com" <rgrumbir@gmail.com>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	Size	Date & Time
MESSAGE	246	9/4/2008 2:26:52 PM
BLN-RAI-LTR-123.pdf	156274	

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

BellefonteRAIsPEm Resource

From: Joseph Sebrosky
Sent: Thursday, September 04, 2008 2:15 PM
To: BellefonteRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 123 RELATED TO SRP
SECTION 2.5.1 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE
APPLICATION
Attachments: BLN-RAI-LTR-123.doc

Hearing Identifier: Bellefonte_COL_RAI_Public
Email Number: 110

Mail Envelope Properties (C4A4C9A16294FB4CBA5A36312D05FFAC0ABBFA7E0B)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 123 RELATED TO
SRP SECTION 2.5.1 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION
Sent Date: 9/4/2008 2:15:08 PM
Received Date: 9/4/2008 2:15:10 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	3	9/4/2008 2:15:10 PM
BLN-RAI-LTR-123.doc	51822	

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

September 4, 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. 123 RELATED TO
SRP SECTION 2.5.1 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. 1072

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. 1072

Enclosure:
Request for Additional Information

Distribution:

Public	CMunson	BHughes
RidsNroDnrlNwe1	SCoffin	MComar
RidsNroLAKGoldstein	TSimms	AHodgdon
RidsOgcMailCenter	RJoshi	LBrown
RidsAcrcAcnwMailCenter	PMoulding	RKaras
RidsRgn2MailCenter	YLi	
JSebrosky		

NRO-002

OFFICE	RGS1*	RGS1/BC*		OGC	NWE1/L-PM
NAME	YLi	CMunson		AHodgdon*	JSebrosky*
DATE	8/19/08	8/19/08		8/28/08	9/4/08

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

**Request for Additional Information
Bellefonte Units 3 and 4
Tennessee Valley Authority
Docket No. 52-014 and 52-015
SRP Section: 02.05.01 - Basic Geologic and Seismic Information
Application Section: 2.5.1**

QUESTIONS from Geoscience and Geotechnical Engineering Branch

02.05.01-1

FSAR 2.5.1.1.3.2 describes sub-vertical, upward-widening features in a soil exposure and states that they “resemble non-tectonic soil weathering features (cutans)” Please present observations, measurements, or analyses, and figures, photographs, or other illustrations that demonstrate whether or not these features could be seismically induced.

02.05.01-2

FSAR 2.5.1.2.5 describes minor displacement (about 3 inches) that was observed along a “joint” located in the northwest corner of the Unit 1 QA Records Storage Vault. The joint was subsequently investigated. What is the age of the displacement?

02.05.01-3

Given the uncertainty in locating earthquakes in most network data, especially at distances corresponding to the Eastern Tennessee Seismic Network stations, distance to the nearest station, station density, crustal velocity structure and etc., please discuss the likelihood that some of the earthquakes are located on one or more of the mapped faults shown in FSAR Figures 2.5-294 and 2.5-220.

02.05.01-4

Please provide evidence that all of the thrust faults shown in FSAR Figure 2.5-294 near the Bellefonte COL site sole out into the Appalachian detachment. Figure 2.5-220 shows subbasement faults with the same general northeast-strike and similar locations as those of Fig. 2.5-294. Given fault location uncertainty, explain whether or not some of the faults shown on these two figures could be the same fault penetrating through the detachment.

Enclosure