

## **PMBelCOL PEmails**

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**From:** Joseph Sebrosky  
**Sent:** Monday, February 02, 2009 9:00 AM  
**To:** 'rgrumbir@gmail.com'; 'alsterdis@tva.gov'; 'erg-xl@cox.net'; 'pshastings@duke-energy.com'; 'kslays@duke-energy.com'; 'Bob Hirmanpour'; 'Spink, Thomas E'  
**Cc:** PMBelCOL PEmails; Brian Hughes; RidsNroDnrINwe1 Resource; Stephanie Coffin; Manny Comar; RidsNroLAKGoldstein Resource; Tanya Simms; Ann Hodgdon; RidsOgcMailCenter Resource; Ravindra Joshi; RidsAcrcAcnw\_MailCTR Resource; RidsRgn2MailCenter Resource; Jody Martin; Christopher Cook; Kenneth See; Richard Raione  
**Subject:** RAI Letter No. 145 Related to SRP Section 2.4.2 for Bellefonte Units 3 and 4  
**Attachments:** BLN-RAI-LTR-145.pdf

To All,

Attached is RAI Letter Nos. 145 related to SRP Section 2.4.2 for Bellefonte Units 3 and 4. The ADAMS accession number for the documents is ML090330047.

Sincerely,

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

**Hearing Identifier:** Bellefonte\_COL\_Public\_EX  
**Email Number:** 1345

**Mail Envelope Properties** (B4ECC0E252653F48B3F57C3B833465E80DE84CEE74)

**Subject:** RAI Letter No. 145 Related to SRP Section 2.4.2 for Bellefonte Units 3 and 4  
**Sent Date:** 2/2/2009 9:00:26 AM  
**Received Date:** 2/2/2009 9:00:29 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  
"RidsNroDnrINwe1 Resource" <RidsNroDnrINwe1.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  
"RidsAcrcAcnw\_MailCTR Resource" <RidsAcrcAcnw\_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  
"Christopher Cook" <Christopher.Cook@nrc.gov>  
Tracking Status: None  
"Kenneth See" <Kenneth.See@nrc.gov>  
Tracking Status: None  
"Richard Raione" <Richard.Raione@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  
"kslays@duke-energy.com" <kslays@duke-energy.com>

Tracking Status: None  
"Bob Hirmanpour" <bobhirman@live.com>  
Tracking Status: None  
"Spink, Thomas E" <tespink@tva.gov>  
Tracking Status: None

**Post Office:** HQCLSTR02.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	280	2/2/2009 9:00:29 AM
BLN-RAI-LTR-145.pdf	155234	

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

## **BellefonteRAIsPEm Resource**

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**From:** Joseph Sebrosky  
**Sent:** Monday, February 02, 2009 8:05 AM  
**To:** BellefonteRAIsPEm Resource  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 145 RELATED TO SRP SECTION 2.4.2 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION  
**Attachments:** BLN-RAI-LTR-145.doc

**Hearing Identifier:** Bellefonte\_COL\_RAI\_Public  
**Email Number:** 132

**Mail Envelope Properties** (B4ECC0E252653F48B3F57C3B833465E80DE84CED59)

**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 145 RELATED TO SRP SECTION 2.4.2 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION  
**Sent Date:** 2/2/2009 8:05:17 AM  
**Received Date:** 2/2/2009 8:05:44 AM  
**From:** Joseph Sebrosky

**Created By:** Joseph.Sebrosky@nrc.gov

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

**Post Office:** HQCLSTR02.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	3	2/2/2009 8:05:44 AM
BLN-RAI-LTR-145.doc	54778	

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

February 2, 2009

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. 145 RELATED TO  
SRP SECTION 2.4.2 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. 2046

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. 2046

Enclosure:  
Request for Additional Information

Distribution:

Public	RRaione	BHughes
RidsNroDnrlNwe1	SCoffin	MComar
RidsNroLAKGoldstein	TSimms	AHodgdon
RidsOgcMailCenter	RJoshi	LBrown
RidsAcrcAcnwMailCenter	JMartin	CCook
RidsRgn2MailCenter	KSee	
JSebrosky		

NRO-002

OFFICE	RSAC*	RSAC/BC*		OGC*	NWE1/L-PM
NAME	CCook	RRaione		AHodgdon	JSebrosky*
DATE	1/28/09	1/28/09		1/29/09	02/02/09

\*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: 02.04.02 - Floods  
Application Section: 2.4.2**

**QUESTIONS for Hydrologic Engineering Branch (RHEB)**

02.04.02-9

During the June 23 Workshop held in Knoxville, TVA presented bathymetry and cross-section maps to be used in the updated simulated open channel hydraulics (SOCH) model for Chickamauga, Nickajack, and Gunterresville reservoirs. It was the understanding of NRC staff that additional maps were being prepared for Watts Bar and Ft. Loudoun-Tellico reservoirs, but the data used to generate the maps were still under review. These maps (as electronic Geographic Information System (GIS) files) were requested during the Workshop. TVA stated that additional review was needed but that they would be provided when the review was complete. In the July 3, 2008 letter to TVA, NRC formally requested (RAI 02.04.02-02) the GIS files. TVA provided a response on August 1 (RAI Response Letter 64) to RAI 02.04.02-02, stating that the GIS data were provided in the electronic data package provided at the June 23 Workshop (see ML0821801181). However, after searching the data package provided by TVA, these files have not been found. On January 22, 2009, TVA and NRC staff discussed the RAI response and the requested datasets. NRC now understands that the recently-collected bathymetry data will not be available until May 2009.

NRC staff requests that TVA provide the processed bathymetric and near-shore topographic data for Gunterresville, Nickajack, Chickamauga, Watts Bar, and Ft. Loudoun-Tellico reservoirs. As discussed on January 22, 2009, these data can be provided in ESRI GeoDatabase format. The GIS layers to include in the ESRI 9.x GeoDatabase are the original bathymetric point data and the processed bathymetric surface(s), in either raster or TIN format. GIS layers should represent the bathymetry, near-shore topography, and the SOCH cross-section locations.

Enclosure