

## **PMBelCOL PEmails**

---

**From:** Brian Anderson  
**Sent:** Tuesday, June 10, 2008 3:46 PM  
**To:** alsterdis@tva.gov; rgrumbir@gmail.com; pmray@tva.gov; pshastings@duke-energy.com; erg-xl@cox.net; PMBelCOL PEmails  
**Cc:** Brian Anderson; Joseph Sebrosky  
**Subject:** RAI Letter No. 038 related to SRP Section 10.04.05 for the Bellefonte Units 3 and 4 combined license application  
**Attachments:** RAI Letter 038 - ML081620453.pdf

Attached is RAI Letter No. 038 related to SRP Section 10.04.05 for the Bellefonte Units 3 and 4 combined license application. The ADAMS Accession number is ML081620453.

Brian Anderson  
301-415-9967  
US Nuclear Regulatory Commission  
Office of New Reactors  
Project Manager, AP1000 Projects Branch 1

**Hearing Identifier:** Bellefonte\_COL\_Public\_EX  
**Email Number:** 292

**Mail Envelope Properties** (CB87FC66F95637428C5E0D066E756B6F69FD018158)

**Subject:** RAI Letter No. 038 related to SRP Section 10.04.05 for the Bellefonte Units 3 and 4 combined license application  
**Sent Date:** 6/10/2008 3:46:04 PM  
**Received Date:** 6/10/2008 3:46:05 PM  
**From:** Brian Anderson

**Created By:** Brian.Anderson@nrc.gov

**Recipients:**

"Brian Anderson" <Brian.Anderson@nrc.gov>  
Tracking Status: None  
"Joseph Sebrosky" <Joseph.Sebrosky@nrc.gov>  
Tracking Status: None  
"alsterdis@tva.gov" <alsterdis@tva.gov>  
Tracking Status: None  
"rgrumbir@gmail.com" <rgrumbir@gmail.com>  
Tracking Status: None  
"pmray@tva.gov" <pmray@tva.gov>  
Tracking Status: None  
"pshastings@duke-energy.com" <pshastings@duke-energy.com>  
Tracking Status: None  
"erg-xl@cox.net" <erg-xl@cox.net>  
Tracking Status: None  
"PMBelCOL PEmails" <PMBelCOL.PEmails@nrc.gov>  
Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	316	6/10/2008 3:46:05 PM
RAI Letter 038 - ML081620453.pdf		126341

**Options**

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

## **BellefonteRAIsPEm Resource**

---

**From:** Brian Anderson  
**Sent:** Tuesday, June 10, 2008 3:12 PM  
**To:** BellefonteRAIsPEm Resource  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 038 RELATED TO SRP SECTION 10.04.05 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION  
**Attachments:** BLN-RAI-LTR-038.doc

**Hearing Identifier:** Bellefonte\_COL\_RAI\_Public  
**Email Number:** 14

**Mail Envelope Properties** (CB87FC66F95637428C5E0D066E756B6F69FD018110)

**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 038  
RELATED TO SRP SECTION 10.04.05 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED  
LICENSE APPLICATION

**Sent Date:** 6/10/2008 3:11:37 PM

**Received Date:** 6/10/2008 3:11:38 PM

**From:** Brian Anderson

**Created By:** Brian.Anderson@nrc.gov

**Recipients:**

"BellefonteRAIsPEm Resource" <BellefonteRAIsPEm.Resource@nrc.gov>

Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	3	6/10/2008 3:11:38 PM
BLN-RAI-LTR-038.doc	51706	

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

June 10, 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. 038 RELATED TO  
SRP SECTION 10.04.05 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED  
LICENSE APPLICATION

Dear Ms. Sterdis:

By letter dated September 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 45 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 301-415-9967 or you may contact Joseph Sebrosky, the lead project manager for the Bellefonte combined license at 301-415-1132.

Sincerely,

**/RA/**

Brian C. Anderson, Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-014  
52-015

Enclosure:  
Request for Additional Information

CC: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-9967 or you may contact Joesph Sebrosky, the lead project manager for the Bellefonte combined license at 301-415-1132.

Sincerely,

**/RA/**

Brian C. Anderson, Project Manager  
 AP1000 Projects Branch 1  
 Division of New Reactor Licensing  
 Office of New Reactors

Docket Nos. 52-014  
 52-015  
 eRAI Tracking No. 275

Enclosure:  
 Request for Additional Information

Distribution:

Public	JSegala	BHughes
RidsNroDnrlNwe1	SCoffin	MComar
RidsNroLAKGoldstein	TSimms	AHodgdon
RidsOgcMailCenter	RJoshi	
RidsAcrsAcnwMailCenter	SSanders	
RidsRgn2MailCenter	DReddy	
JSebrosky	PMoulding	

NRO-002

OFFICE	CPIB/BC		NWE1/PM	OGC	NWE1/L-PM
NAME	JSegala*		BAnderson*	PMoulding*	JSebrosky*
DATE	5/5/08		6/3/08	6/5/08	6/9/08

\*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: 10.04.05 - Circulating Water System**  
**Application Section: SRP 10.4.5 Circulating Water System**

**QUESTION from Balance of Plant Branch 1**

10.04.05-1

In Bellefonte FSAR Section 10.4.5, the applicant provided conceptual design information (CDI) for the circulating water system (CWS). The applicant replaced bracketed text throughout Section 10.4.5 of the AP1000 DCD, Revision 16, to provide specific CWS power generation design basis component information, general CWS description, component descriptions, system operation, tests and inspections, and instrumentation applications. As part of the CDI, the applicant also revised plant-specific data such as the CWS design parameters listed in Table 10.4-201 and Table 10.4-202 of the COL application.

With respect to the parameters in Table 10.4-202, please provide the following information:

- Heat transfer rate (Btu/hr), and
- Wind velocity design (mph) and seismic design criteria per Uniform Building Code.

In addition, with respect to FSAR Table 10.4-201, "Condenser Design Data," please provide information to address all parameters from the corresponding Table 10.4.1-1 in AP1000 DCD, Revision 16, or justify its exclusion.