

## **BellefonteRAIsPEm Resource**

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**From:** Brian Anderson  
**Sent:** Tuesday, June 10, 2008 3:03 PM  
**To:** BellefonteRAIsPEm Resource  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 037 RELATED TO SRP SECTION 10.03 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION  
**Attachments:** BLN-RAI-LTR-037.doc

**Hearing Identifier:** Bellefonte\_COL\_RAI\_Public  
**Email Number:** 13

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**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 037  
RELATED TO SRP SECTION 10.03 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED  
LICENSE APPLICATION

**Sent Date:** 6/10/2008 3:03:05 PM

**Received Date:** 6/10/2008 3:03:07 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

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MESSAGE	3	6/10/2008 3:03:07 PM
BLN-RAI-LTR-037.doc	52218	

**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. 037 RELATED TO  
SRP SECTION 10.03 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. 274

Enclosure:  
 Request for Additional Information

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NRO-002

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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: 10.03 - Main Steam Supply System**  
**Application Section: 10.3**

**QUESTION from Balance of Plant Branch 1**

10.03-1

In Bellefonte FSAR Section 10.3, "MAIN STEAM SUPPLY SYSTEM," the applicant provided additional information in its standard supplement, "STD SUP 10.3-1," as part of the FSAR regarding operations and maintenance procedures. Specifically, the applicant supplemented Section 10.3.2.2.1 of the AP1000 DCD, Revision 16, to address steam hammer and relief valve discharge reaction loads. SRP Section 10.3, Item II, states that the main steam system should adequately consider water (steam) hammer and relief valve discharge loads to assure that system safety functions can be performed and should assure that operations and maintenance procedures include adequate precautions to prevent water (steam) hammer and relief valve loads.

With respect to the additional information in FSAR Section 10.3.2.2.1, please provide a more detailed statement concerning TVA's use of such operations and maintenance procedures, including information on the specific essential elements of these procedures that will prevent water (steam) hammer and relief valve loads. Please update the FSAR to include this information, or justify its exclusion.