

## BellefonteRAIsPEm Resource

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**From:** Brian Hughes  
**Sent:** Thursday, August 07, 2008 4:46 PM  
**To:** BellefonteRAIsPEm Resource  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 114 RELATED TO SRP SECTION 03.10 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION  
**Attachments:** BEL-RAI-LTR-114.doc

Brian Hughes  
Project Manager  
NRO/DNRL/NWE1  
US NRC  
301-415-6582

**Hearing Identifier:** Bellefonte\_COL\_RAI\_Public  
**Email Number:** 96

**Mail Envelope Properties** (D841D501B2C4D244B75AB897F70C14946F19969C26)

**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 114 RELATED TO  
SRP SECTION 03.10 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION  
**Sent Date:** 8/7/2008 4:46:14 PM  
**Received Date:** 8/7/2008 4:46:16 PM  
**From:** Brian Hughes

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

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

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

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MESSAGE	96	8/7/2008 4:46:16 PM
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**Options**  
**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

August 7, 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. 114 RELATED TO  
SRP SECTION 03.10 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 301-415-6582 or you may contact Joseph Sebrosky, the lead project manager for the Bellefonte combined license at 301-415-1132.

Sincerely,

**/RA/**

Brian Hughes, 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

If you have any questions or comments concerning this matter, you may contact me at 301-415-6582 or you may contact Joesph Sebrosky, the lead project manager for the Bellefonte combined license at 301-415-1132.

Sincerely,

**/RA/**

Brian Hughes, Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-014  
52-015  
eRAI Tracking No. 569

Enclosure:  
Request for Additional Information

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NRO-002

OFFICE	EMB2	NWE1/PM	OGC	NWE1/L-PM
NAME	Y-LI*	BHughes*	PMoulding*	JSebrosky*
DATE	6/26/08	7/26/08	7/25/08	6/30/08

\*Approval captured electronically in the electronic RAI system.

**OFFICIAL RECORD COPY**

## **Request for Additional Information**

**8/7/2008**

**Bellefonte Units 3 and 4**

**TVA**

**Docket No. 52-014 and 52-015**

**SRP Section: 03.06.02 - Determination of Rupture Locations and Dynamic Effects Associated with the Postulated Rupture of Piping**

**Application Section: FSAR Part 2 Section 3.6.4.1**

### **QUESTIONS from Engineering Mechanical Branch 2 (EMB2)**

03.06.02-1

In the Bellefonte Units 3 & 4 COL Application, Part 2, FSAR Section 3.6, the applicant stated that this section of the referenced DCD is incorporated by reference with the exception of STD COL 3.6-1. Specifically, the applicant stated: "A pipe rupture hazard analysis is part of the piping design. It is used to identify postulated break locations and layout changes, support, design, whip restraint design, and jet shield design. The final design for these activities will be completed prior to fabrication and installation of the piping and connected components. The as-built reconciliation of the pipe break hazards analysis in accordance with the criteria outlined in DCD Subsection 3.6.1.3.2 and 3.6.5.2 will be completed prior to fuel load." Moreover, in COL Application Part 10, License Conditions and ITAAC, the applicant identified the COL Item 3.6-1 to be a COL Holder Item. The applicant further proposed that this COL Holder Item be addressed by a Combined License Condition in accordance with the guidance in Regulatory Guide, Section C.III.4.3. The applicant identified that the implementation milestone of this License Condition is prior to initial fuel load. Pursuant to RG 1.206, Section C.III.4.3, propose a method for ensuring the final closure of the item following issuance of the COL. Provide a description pertaining to the closure schedule of the as-design pipe rupture hazard analysis activities, and include implementation schedules that would allow the coordination of activities with the NRC construction inspection program following issuance of the COL.