

## **BellefonteRAIsPEm Resource**

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**From:** Ravindra Joshi  
**Sent:** Friday, August 08, 2008 1:19 PM  
**To:** BellefonteRAIsPEm Resource  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 120 RELATED TO SRP SECTION 19 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION  
**Attachments:** BEL-RAI-LTR-120.doc

**Hearing Identifier:** Bellefonte\_COL\_RAI\_Public  
**Email Number:** 107

**Mail Envelope Properties** (CEEA97CC21430049B821E684512F6E5E979DB2861E)

**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 120 RELATED TO SRP SECTION 19 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED LICENSE APPLICATION  
**Sent Date:** 8/8/2008 1:18:55 PM  
**Received Date:** 8/8/2008 1:18:58 PM  
**From:** Ravindra Joshi

**Created By:** Ravindra.Joshi@nrc.gov

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

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

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MESSAGE	3	8/8/2008 1:18:58 PM
BEL-RAI-LTR-120.doc	53754	

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

August 8, 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. 120 RELATED TO  
SRP SECTION 19 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 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 301-415-6191 or you may contact Joseph Sebrosky, the lead project manager for the Bellefonte combined license at 301-415-1132.

Sincerely,

**/RA/**

Ravindra G. Joshi, 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 301-415-6191 or you may contact Joesph Sebrosky, the lead project manager for the Bellefonte combined license at 301-415-1132.

Sincerely,

**/RA/**

Ravindra G. Joshi, Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-014  
52-015  
eRAI Tracking No. 816 and 468

Enclosure:  
Request for Additional Information

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NRO-002

OFFICE	SPLA/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	LMrowca *	RJoshi*	AHodgdon*	JSebrosky*
DATE	8/8/08	8/8/08	8/8/08	8/8/08

\*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: 19- Probabilistic Risk Assessment and Severe Accident Evaluation**  
**Application Section: FSAR 19**

**QUESTIONS from PRA Licensing, Operations Support and Maintenance Branch 1 (SPLA)**

19-5

BLN COL 19.59.10-2 states that the "PRA will be updated to reflect these differences [between the as-built plant and the design used as the basis for the AP1000 PRA] if they potentially result in a significant increase in core damage frequency or large release frequency."

- (a) Please clarify how the BLN PRA (to be completed by fuel load) will be updated to account for BLN site-specific information per 10 CFR 52.79(d)(1) and 10 CFR 50.71(h)(1) as well as as-built information.
- (b) Please define "significant increase."

19-6

The AP 1000 Final Safety Evaluation Report (FSER) includes several specific COL action items related to shutdown training. These action items correspond to COL information item 13.2-1 in the AP1000 DCD. Please document in the RCOL application how the following specific training areas will be addressed in the operator training program:

- (a) FSER COL Action Item 19.1.8.3-1: The COL applicant is responsible for developing . . . training to close containment hatches and penetrations following an accident during Modes 5 and 6 before steam is released into containment.
- (b) FSER COL Action Item 19.1.8.7-1: The COL applicant . . . should provide training to the operators on how to use the non-safety related wide range pressurizer level indication to identify inconsistencies in the safety-related hot-leg instrumentation to prevent RCS overdraining.

19-7

COL action item 19.1.8.1-3 in the FSER states that the AP1000 design provides features for detecting and suppressing fires and floods and the COL applicant is "expected to take compensatory measures to maintain adequate detection and suppression capability during maintenance activities." The response to COL information item 9.5.1-3 addresses conformance to Branch Technical Position (BTP) 9.5-1, including administrative controls, but does not specifically address maintenance activities. Please address in the RCOL application how both fire and flood detection and suppression capability is maintained during maintenance activities.