

May 22, 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. 024 RELATED TO
SRP SECTION 5.2.1 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 301-415-1132.

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. 82

Enclosure:
Request for Additional Information

CC: see next page

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Enclosure:
Request for Additional Information

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DATE	05/19/2008			05/21/2008	5/22/08

*Approval captured electronically in the electronic RAI system.

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**Request for Additional Information
Bellefonte Units 3 and 4
Tennessee Valley Authority
Docket No. 52-014 and 52-015**

**SRP Section: 05.02.01.01 - Compliance With the Codes and Standards Rule, 10 CFR 50.55a
Application Section: 5.2.1.1**

QUESTIONS from Component and Integrity Performance and Testing Branch 1

05.02.01.01-1

AP1000 DCD Section 5.2.6.1 states, "The Combined License applicant will address consistency of the design with the construction practices (including inspection and examination methods) of the later ASME Code edition and addenda added as part of the Combined License application. The Combined License applicant will address the addition of ASME code cases approved subsequent to design certification." ASME Code Section III, NCA-1140, "Use of Code Editions, Addenda, and Cases," provides criteria applicable to design and construction activities. It states that specific provisions within an Edition or Addenda later than those established in the design specifications may be used, provided that all the related requirements are met. Discuss whether the methodology discussed under STD COL 5.2-1, including supplemental information (Bellefonte FSAR section 5.2.1.1), is applicable or appropriate for ASME Section III design/construction activities. Clarify whether TVA intends to use portions of ASME Code, Section III Editions and Addenda approved subsequent to those specified in the certified AP1000 design and, if so, address how TVA will ensure consistency of the design and construction practices when using such later Section III Code Editions and Addenda. Please revise STD COL 5.2-1 of TVA's supplemental information (following the second sentence in the second paragraph of DCD Subsection 5.2.1.1) to ensure consistency with the criteria in the ASME Code Section III, paragraph NCA-1140, "Use of Code Editions, Addenda, and Cases."

Enclosure