



Tennessee Valley Authority, 1101 Market Street, LP 5A, Chattanooga, Tennessee 37402-2801

April 23, 2009

10 CFR 52.79

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

In the Matter of)
Tennessee Valley Authority)

Docket No. 52-014 and 52-015

**BELLEVILLE COMBINED LICENSE APPLICATION – RESPONSE TO REQUEST FOR
ADDITIONAL INFORMATION – OFFSITE POWER SYSTEMS**

- Reference:
- 1) Letter from Tanya Simms (NRC) to Andrea L Sterdis (TVA), Request for Additional Information Letter No. 151 Related to SRP Section 08.02 for the Belleville Units 3 and 4 Combined License Application, dated March 11, 2009.
 - 2) Meeting Notes From Mark Tonacci (NRC), Summary of April 7, 2009, NRC/AP1000 Telecon Meeting to Discuss the Status of the AP1000 and Belleville Electrical Requests for Additional Information (ML090990404).

This letter provides the Tennessee Valley Authority's (TVA) response to the Nuclear Regulatory Commission's (NRC) request for additional information (RAI) item included in the reference letter (Reference 1).

A response to the NRC request in the subject letter is addressed in the enclosure which identifies any associated changes to be made in a future revision of the BLN application. Per guidance provided in a conference call with the NRC staff (Reference 2), only a response to item (b) of the subject letter is provided.

If you should have any questions, please contact Thomas Spink at 1101 Market Street, LP5A, Chattanooga, Tennessee 37402-2801, by telephone at (423) 751-7062, or via email at tespink@tva.gov.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on this 23rd day of April, 2009.

Andrea L. Sterdis
Manager, New Nuclear Licensing and Industry Affairs
Nuclear Generation Development & Construction

DOBS
NRW

Document Control Desk
Page 2
April 23, 2009

Enclosure
cc: See Page 3

Document Control Desk

Page 3

April 23, 2009

cc: (Enclosures)

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S. P. Frantz, Morgan Lewis
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L. Reyes, NRC/RII
J. M. Sebrosky, NRC/HQ

Enclosure
TVA letter dated April 23, 2009
RAI Response

Response to NRC Request for Additional Information letter No. 151 dated March 11, 2009
(2 pages, including this list)

Subject: Offsite Power Systems in the Final Safety Analysis Report

| <u>RAI Number</u> | <u>Date of TVA Response</u> |
|-------------------|--|
| 08.02-10 | This letter – see following page Item b only; Items a, c and d do not require a response. |

| <u>Associated Additional Attachments / Enclosures</u> | <u>Pages Included</u> |
|---|-----------------------|
| None | |

Enclosure
TVA letter dated April 23, 2009
RAI Response

NRC Letter Dated: March 11, 2009

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 08.02-10 (b)

With regard to maintenance and testing of the offsite power circuits, the staff notes that the test to verify (automatic and manual) transfer of AC power sources from the normal offsite circuit to an alternate offsite circuit is not included. Include this test in your testing program for switchyard components or provide your justification for not including this test.

BLN RAI ID: 3191

BLN RESPONSE:

Pre-operational testing of fast bus transfer is addressed in DCD Subsection 14.2.9.2.15 "Main AC Power System Testing" and FSAR 14.2.9.4.23 "Off-site AC Power Systems" Item K.

The BLN FSAR will be revised as shown under the associated BLN COLA revision section to include periodic testing of the AC power source transfer function.

This response is expected to be STANDARD for the S-COLAs.

ASSOCIATED BLN COL APPLICATION REVISIONS:

COLA Part 2, FSAR Chapter 8, will be revised to add the following paragraph at the end of Subsection 8.3.1.4.

8.3.1.4 Inspection and Testing

Add the following text at the end of DCD Subsection 8.3.1.4

Procedures are established for periodic verification of proper operation of the Onsite AC Power System capability for automatic and manual transfer from the preferred power supply to the maintenance power supply and return from the maintenance power supply to the preferred power supply.

ASSOCIATED ATTACHMENTS/ENCLOSURES:

None