



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

August 10, 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

**BELLEFONTE COMBINED LICENSE APPLICATION – RESPONSE TO REQUEST FOR
ADDITIONAL INFORMATION – LOCAL METEOROLOGY**

- References:
- 1) Letter from Joseph M. Sebrosky (NRC) to Andrea L. Sterdis (TVA), Request for Additional Information Letter No. 077 Related to SRP Section 2.3.2 for the Bellefonte Units 3 and 4 Combined License Application, dated July 16, 2008
 - 2) Letter from Andrea L. Sterdis (TVA) to NRC Document Control Desk, Bellefonte Combined License Application – Response to Request for Additional Information – Local Meteorology, dated August 14, 2008
 - 3) Letter from Jack A. Bailey (TVA) to NRC Document Control Desk, Bellefonte Combined License Application – Response to Request for Additional Information – Local Meteorology, dated January 15, 2009
 - 4) Letter from Andrea L. Sterdis (TVA) to NRC Document Control Desk, Bellefonte Combined License Application – Response to Request for Additional Information – Local Meteorology, dated February 20, 2009

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

A response to each NRC request in the Reference 1 letter is addressed in the enclosure which also identifies any associated changes that will be made in a future revision of the BLN application.

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.

DOBS
NRD

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

Executed on this 10th day of Aug, 2009.



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

Enclosure
cc: See Page 3

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cc: (w/ Enclosures)

J. P. Berger, EDF
J. M. Sebrosky, NRC/HQ
E. Cummins, Westinghouse
S. P. Frantz, Morgan Lewis
M. W. Gettler, FP&L
R. Grumbir, NuStart
P. S. Hastings, NuStart
P. Hinnenkamp, Entergy
M. C. Kray, NuStart
D. Lindgren, Westinghouse
G. D. Miller, PG&N
M. C. Nolan, Duke Energy
N. T. Simms, Duke Energy
K. N. Slays, NuStart
G. A. Zinke, NuStart

cc: (w/o Enclosure)

B. C. Anderson, NRC/HQ
M. M. Comar, NRC/HQ
B. Hughes/NRC/HQ
R. G. Joshi, NRC/HQ
R. H. Kitchen, PGN
M. C. Kray, NuStart
A. M. Monroe, SCE&G
C. R. Pierce, SNC
R. Reister, DOE/PM
L. Reyes, NRC/RII
T. Simms, NRC/HQ

Enclosure
TVA letter dated August 10, 2009
RAI Responses

Responses to NRC Request for Additional Information letter No. 077 dated July 16, 2008
(2 pages, including this list)

Subject: Local Meteorology as presented in the Final Safety Analysis Report

<u>RAI Number</u>	<u>Date of TVA Response</u>
02.03.02-01	August 14, 2008
02.03.02-02	August 14, 2008
02.03.02-03	August 14, 2008; Supplemented by this letter – see following pages
02.03.02-04	August 14, 2008; January 15, 2009; February 20, 2009
02.03.02-05	August 14, 2008

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

Enclosure
TVA letter dated August 10, 2009
RAI Responses

NRC Letter Dated: July 16, 2008

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 02.03.02-03

Please verify that the monthly and average mixing heights and ventilation rates presented in FSAR Table 2.3-303 and Table 2.3-211 are correct. The staff was unable to reproduce the values presented in the tables. The staff values were higher. It appears that the missing/blank values in the mixing height data base were averaged into the calculation as zeros.

BLN RAI ID: 3573

BLN RESPONSE:

The monthly and average mixing height and ventilation rate values have been recalculated with the blank/missing data removed. FSAR Tables 2.3-303 and 2.3-211 and the associated text will be revised in a future COLA revision as indicated.

This response is PLANT SPECIFIC.

ASSOCIATED BLN COL APPLICATION TEXT CHANGES:

1. The COLA Part 2, FSAR, Chapter 2, Subsection 2.3.1.1, revision identified in Reference 2 has been included in the January 2009 revision of the COLA.
2. The COLA Part 2, FSAR, Chapter 2, Subsection 2.3.2.1.5, revision identified in Reference 2 has been included in the January 2009 revision of the COLA.
3. The COLA Part 2, FSAR, Chapter 2, Subsection 2.3.7, revision to Reference 204 identified in Reference 2 has been included in the January 2009 revision of the COLA.
4. The COLA Part 2, FSAR, Chapter 2, Section 2.3, Table 2.3-211, revision identified in Reference 2 has been included in the January 2009 revision of the COLA.
5. The COLA Part 2, FSAR, Chapter 2, Section 2.3, Table 2.3-203, revision identified in Reference 2 has been included in the January 2009 revision of the COLA.
6. COLA Part 2, FSAR, Chapter 2, Subsection 2.3.1.2.1.6, will be revised from:
Morning ventilation is less than 4100 m²/s throughout the year, and is less than 1500 m²/s from June through October. Afternoon ventilation is higher than 7100 m²/s from March through September, but lower than 5200 m²/s from November through January.

To read:

The ventilation rates shown in Table 2.3-211 are discussed in Subsection 2.3.2.1.5.

ATTACHMENTS:

None