



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 – ATMOSPHERIC DISPERSION ESTIMATES FOR
ROUTINE RELEASES**

- References:
- 1) Letter from Joseph Sebrosky (NRC) to Andrea L Sterdis (TVA), Request for Additional Information Letter No. 140 Related to SRP Section 02.03.05 for the Bellefonte Units 3 and 4 Combined License Application, dated December 9, 2008
 - 2) Letter from Andrea L Sterdis (TVA) to NRC Document Control Desk, Bellefonte Combined License Application – Response to Request for Additional Information – Atmospheric Dispersion Estimates for Routine Releases, dated January 12, 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.

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

DOBS
NRC

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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. 140 dated December 9, 2008
(2 pages, including this list)

Subject: Atmospheric Dispersion Estimates for Routine Releases in the Final Safety Analysis Report

<u>RAI Number</u>	<u>Date of TVA Response</u>
02.03.05-006	January 12, 2009; Supplemented by this letter – see following pages
02.03.05-007	January 12, 2009
02.03.05-008	January 12, 2009

Associated Additional Attachments / Enclosures

Pages Included

None

Enclosure
TVA letter dated August 10, 2009
RAI Responses

NRC Letter Dated: December 9, 2008

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 02.03.05-006

As a follow-on to NRC RAI Number 02.03.05-02, why is Table 2.3-324, which provides no decay, depleted X/Q values, included in the revised Bellefonte FSAR? How were these values used in the dose assessment?

BLN RAI ID: 3574

BLN RESPONSE:

Revision 0 FSAR Table 2.3-325, "Annual average χ/Q values for no decay, depleted," was provided for information only, and was subsequently revised by the response to BLN-RAI-LTR-076 (August 13, 2008) to Table 2.3-324 and included in the January 2009 revision of the COLA. However, these values are not used in the dose analysis [refer to the response to RAI 02.03.05-001 (also in the response to BLN-RAI-LTR-076), for further explanation of how the various χ/Q values were used]. Because the χ/Q values for no decay, depleted are not used in the normal effluent release dose analyses, the FSAR table which provides the annual average χ/Q values for no decay, depleted conditions will be deleted from the FSAR in a future revision of the COLA.

This response is PLANT-SPECIFIC.

ASSOCIATED BLN COL APPLICATION REVISION:

COLA Part 2, FSAR, Chapter 2, will be revised to delete FSAR Revision 1 Table 2.3-324, "ANNUAL AVERAGE χ/Q (SEC/M³) FOR NO DECAY, DEPLETED FOR EACH 22.5° SECTOR AT THE DISTANCES (MILES) SHOWN AT THE TOP."

ASSOCIATED ATTACHMENTS/ENCLOSURES:

None