



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

August 29, 2008

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 – REGIONAL CLIMATOLOGY**

Reference: Letter from Joseph Sebrosky (NRC) to Andrea L. Sterdis (TVA), Request for  
Additional Information Letter No. 099 Related to SRP Section 02.03.01 for the  
Belleville Units 3 and 4 Combined License Application, dated August 5, 2008

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

A response to the NRC request in the subject letter is addressed in the enclosure which does not  
identify any associated changes to be made in a future revision of the BLN application.

If you should have any questions, please contact Tom 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 29<sup>th</sup> day of Aug, 2008.

*Jack A. Bailey*  
Jack A. Bailey  
Vice President, Nuclear Generation Development

Enclosure  
cc: See Page 2

*2085  
NRC*

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cc: (w/Enclosure)

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

Enclosure  
TVA letter dated August 29, 2008  
RAI Response

Response to NRC Request for Additional Information letter No. 099 dated August 5, 2008  
(2 pages, including this list)

Subject: Regional Climatology as presented in the Final Safety Analysis Report

<u>RAI Number</u>	<u>Date of TVA Response</u>
02.03.01-10	This letter – see following page

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

Enclosure  
TVA letter dated August 29, 2008  
RAI Response

**NRC Letter Dated: August 5, 2008**

**NRC Review of Final Safety Analysis Report**

**NRC RAI NUMBER: 02.03.01-10**

FSAR Table 2.0-201 provides a comparison of the AP1000 DCD Site Parameters and BLN Site Characteristics. Sheet 1 of 5 specifically contains a section on the BLN Air Temperature Site Characteristics. SRP Section 2.3.1 discusses the criteria that should be used in selecting air temperature site characteristics. FSAR Section 2.3.1, however, lacks a corresponding write-up and justification identifying the source and representativeness for the values presented in FSAR Table 2.0-201 as the BLN Air Temperature Site Characteristics. Please revise FSAR Section 2.3.1 to address the SRP 2.3.1 criteria for selecting air temperature site characteristic values.

**BLN RAI ID: 1139**

**BLN RESPONSE:**

The Maximum Safety and Minimum Safety wet-bulb and dry-bulb temperature site characteristics were originally reported in FSAR Table 2.0-201 as the 0.4% exceedance ASHRAE values given in FSAR Table 2.3-203. To be consistent with the definition of the values provided in the AP1000 DCD, Tier 2 Table 2-1, the 0% exceedance values were selected for the BLN site in response to NRC RAI No.02.03.01-08 (see supplemental response to BLN-RAI-LTR-022). This response also addresses 100-year return period site characteristic values, and the inherent uncertainties associated with their calculation. The response to NRC RAI No.02.03.01-08 revised FSAR Table 2.0-2061, Table 2.3-203, and the text in FSAR Subsection 2.3.1.3.1 to address the revised site characteristic air temperature.

This response is PLANT-SPECIFIC.

**ASSOCIATED BLN COL APPLICATION REVISIONS:**

Associated COLA revisions are as identified in the response to NRC RAI No.02.03.01-08 (see supplemental response to BLN-RAI-LTR-022).

**ASSOCIATED ATTACHMENTS/ENCLOSURES:**

None