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

February 20, 2009

10 CFR 52.79

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

In the Matter of) Docket No. 52-014 and 52-015
Tennessee Valley Authority)

BELLEFONTE COMBINED LICENSE APPLICATION – RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION – ONSITE METEOROLOGICAL MEASUREMENTS

References: 1) Letter from Joseph Sebrosky (NRC) to Andrea L. Sterdis (TVA), Request for Additional Information Letter No. 096 Related to SRP Section 02.03.03 for the Bellefonte Units 3 and 4 Combined License Application, dated August 4, 2008

2) Letter from Andrea L. Sterdis (TVA) to NRC Document Control Desk, Response to Request for Additional Information – Onsite Meteorological Measurements, dated September 3, 2008

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 1 letter. Reference 2 provided the response to the original request. This letter provides a second copy of the requested meteorological data to replace the originally provided file. Please note that this transmittal includes a CD data disk that contains input files necessary for the NRC Staff to perform confirmatory analyses.

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 20th day of Feb, 2009.

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

Enclosure
cc: See Page 2

D085
NRO

cc: (w/ Enclosures)
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Enclosure
TVA letter dated February 20, 2009
RAI Responses

Responses to NRC Request for Additional Information letter No. 096 dated August 4, 2008.
(2 pages, including this list)

Subject: Onsite Meteorological Measurements Programs in the Final Safety Analysis Report

RAI Number	Date of TVA Response
02.03.03-02	September 3, 2008
02.03.03-03	September 3, 2008 and January 9, 2009
02.03.03-04	September 3, 2008
02.03.03-05	September 3, 2008 and September 29, 2008; Supplemented by this letter – see following pages

Associated Additional Attachments / Enclosures	Pages Included
Attachment 02.03.03-02A (previously provided)	
Attachment 02.03.03-02B (previously provided)	
Attachment 02.03.03-02C (previously provided)	
Attachment 02.03.03-02D (previously provided)	
Attachment 02.03.03-02E (previously provided)	
Attachment 02.03.03-05A	1 with CD
Attachment 02.03.03-05B (previously provided)	

Enclosure
TVA letter dated February 20, 2009
RAI Responses

NRC Letter Dated: August 4, 2008

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 02.03.03-05

Submit an electronic copy of the complete 2-year BNL hourly meteorological database. Also submit an appendix to the FSAR containing the following derived from the second year of BNL hourly meteorological data:

(1) joint frequency distributions of wind speed, wind direction, and atmospheric stability for both the lower and upper levels

(2) atmospheric dispersion and deposition factors presented in FSAR Sections 2.3.4 and 2.3.5.

This appendix should also demonstrate how representative the first year of data is of long-term conditions at the site. If the appendix cannot show that the two years of meteorological data are compatible (e.g., there are substantial differences in atmospheric dispersion and deposition factors between the two years of data) and the first year of data is shown to be nonconservative, revise the atmospheric dispersion and deposition factors presented in FSAR Sections 2.3.4 and 2.3.5 using the second year of meteorological data.

BLN RAI ID: 2581

BLN RESPONSE:

The BLN meteorological data for April 1, 2006 through March 31, 2008 (two full years) is provided in Attachment 02.03.03-05A, in the format required by Regulatory Guide 1.23, Revision 1. The joint frequency distribution, by stability class, is provided in Attachment 02.03.03-05B (previously provided), which contains the new Appendix 2DD to support FSAR Section 2.3 (see FSAR Revision 1). This appendix contains the atmospheric dispersion and deposition factors presented in FSAR Subsections 2.3.4 and 2.3.5 based on two complete years of on-site meteorological data. This appendix also contains a demonstration of how representative the first year of data is of long-term conditions at the site.

This response is PLANT-SPECIFIC.

ASSOCIATED BLN COL APPLICATION REVISIONS:

COLA Part 2, FSAR, Chapter 2, has been revised (see FSAR Revision 1) to incorporate a new Appendix 2DD as previously provided in Attachment 02.03.03-05B.

ASSOCIATED ATTACHMENTS/ENCLOSURES:

Attachment 02.03.03-05A (Cover and CD)

Attachment 02.03.03-05B (previously provided)

Attachment 02.03.03-05
TVA letter dated February 20, 2009
RAI Responses

Attachment 02.03.03-05A
(Electronic File)

BLN Meteorological Data

April 1, 2006 through March 31, 2008