



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

March 5, 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 – INFORMATION SYSTEMS IMPORTANT TO SAFETY**

- Reference:
- 1) Letter from Tanya Simms (NRC) to Andrea Sterdis (TVA), Request for Additional Information Letter No. 089 Related to SRP Section 07.05 for the Bellefonte Units 3 and 4 Combined License Application, dated July 28, 2008
 - 2) Letter from Andrea Sterdis (TVA), to Document Control Desk (NRC), Response to Request for Additional Information, Letter No. 089 Related to SRP Section 07.05 for the Bellefonte Units 3 and 4 Combined License Application, dated September 4, 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 Reference 1. This supplement provides additional FSAR changes, requested verbally by the NRC, to those changes provided in Reference 2.

A response to the NRC request in the subject 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 5th day of Mar, 2009.

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

1085
NRC

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Enclosure
cc: See Page 3

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cc: (Enclosures)

E. Cummins, Westinghouse
S. P. Frantz, Morgan Lewis
M. W. Gettler, FP&L
R. C. Grumbir, NuStart
P. S. Hastings, NuStart
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cc: (w/o Enclosure)

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

Enclosure
TVA letter dated March 5, 2009
RAI Response

Response to NRC Request for Additional Information letter No. 089 dated July 28, 2008
(3 pages, including this list)

Subject: Information Systems Important to Safety in the Final Safety Analysis Report

<u>RAI Number</u>	<u>Date of TVA Response</u>
07.05-01	September 4, 2008 Supplemented by this letter – see following pages

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

Enclosure
TVA letter dated March 5, 2009
RAI Response

NRC Letter Dated: Jul 28, 2008

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 07.05-01

Table 7.5-1, "Post-Accident Monitoring System," (Sheets 3 and 12 of 12) and Table 7.5-8, "Summary of Type E Variables," of AP1000 Design Control Document (DCD), Revision 16, contain variables to monitor the meteorological parameters and environs radiation and radioactivity. These variables are defined as "site specific" in the DCD. Please identify where the combined license application addresses these site-specific variables, consistent with Regulatory Guide 1.97, Rev. 3, or explain what alternative approach the applicant is proposing.

BLN RAI ID: 3164

BLN RESPONSE:

FSAR Section 7.5 will be revised to include the site specific ranges for the boundary environs radiation. In addition, Table 7.5-202 will be added for completeness. Note that the proposed COLA change shown below is based on the initial response to RAI Letter 89 as incorporated into FSAR Revision 1.

This response is PLANT-SPECIFIC.

ASSOCIATED BLN COL APPLICATION REVISIONS:

1- COLA Part 2, FSAR Chapter 7, Revision 1 will be revised to add the following paragraph at the end of section 7.5:

BLN SUP 7.5-1 FSAR Table 7.5-202 supplements DCD Table 7.5-8 and provides variable data shown in the DCD Table as "site specific."

2- COLA Part 2, FSAR Chapter 7, Revision 1 Table 7.5-201, will be revised from:

Variable	Range / Status	Number of Instruments Required	Remarks
Boundary environs radiation Airborne Radiohalogens and Particulates, Radiation and Radioactivity (portable instrumentation)	Conforms to RG 1.97	Conforms to RG 1.97	

Enclosure
TVA letter dated March 5, 2009
RAI Response

To read:

Variable	Range / Status	Number of Instruments Required	Remarks
Boundary environs radiation <ul style="list-style-type: none"> Airborne Radiohalogens and Particulates (portable sampling with onsite analysis capability) Radiation (portable instrumentation) Radioactivity (portable instrumentation) 	10^{-9} to 10^{-3} $\mu\text{Ci/cc}$ 10^{-3} to 10^4 R/hr, photons 10^{-3} to 10^4 rads/hr, beta and low-energy photons Multichannel gamma ray spectrometer	NA	

3- COLA Part 2, FSAR Chapter 7, Revision 1 Table 7.5-202 will be added as a supplement to DCD Table 7.5-8:

BLN SUP 7.5-1

TABLE 7.5-202
SUMMARY OF TYPE E VARIABLES^(a)

Function Monitored	Variable	Type/Category
Environs Radiation and Radioactivity	Plant Environs radiation level and airborne radioactivity	E3
Meteorology	Wind speed, wind direction, and estimation of atmospheric stability (based on vertical temperature differences)	E3

a) This Table supplements DCD Table 7.5-8 and provides the site specific information noted in the variable column of DCD Table 7.5-8

ASSOCIATED ATTACHMENTS/ENCLOSURES:

None