



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

August 17, 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 SAFETY
EVALUATION REPORT PLANT-SPECIFIC OPEN ITEMS FOR CHAPTER 01**

Reference: Letter from Stephanie Coffin (NRC) to Andrea L. Sterdis (TVA), Bellefonte
Units 3 and 4 Safety Evaluation Report with Open Items for Chapter 1,
“Introduction and General Description of Plant,” dated June 23, 2009.

This letter provides the Tennessee Valley Authority’s (TVA) response to the Nuclear Regulatory
Commission’s (NRC) plant-specific open item (OI) included in the subject Safety Evaluation
Report (SER).

A response to the NRC plant-specific open item is addressed in the enclosure which also
identifies any associated changes that will be made in a future revision of the BLN application.
As previously discussed, the standard or generic open items identified in the SER for the
reference COL are being addressed on the Vogtle docket by Southern Nuclear Company.

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 17th day of Aug, 2009.

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

Enclosure
cc: See Page 2

DO85
NRO

Document Control Desk
Page 2
August 17, 2009

cc: (w/ Enclosures)

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Enclosure
TVA letter dated August 17, 2009
SER OI Responses

Responses to NRC Safety Evaluation Report with Open Items for Chapter 01
(3 pages, including this list)

<u>OI Number</u>	<u>Date of TVA Response</u>
01-01	See Vogtle Standard response
01-02	See Vogtle Standard response
01.04-01	BLN Plant-Specific - See enclosed response
01.04-02	See Vogtle Standard response
01.04-03	See Vogtle Standard response
01.04-04	See Vogtle Standard response
01.05-01	See Vogtle Standard response

Associated Additional Attachments / Enclosures

Pages Included

None

Enclosure
TVA letter dated August 17, 2009
SER OI Responses

NRC Letter Dated: June 23, 2009

NRC Review of Final Safety Analysis Report

NRC SER OI NUMBER: 01.04-01

The applicant incorporated by reference Section 1.8 of the DCD. This section of the DCD identifies certain interfaces with the standard design that have to be addressed in accordance with 10 CFR 52.47(a)(1)(vii). (Following the update to 10 CFR Part 52 (72 FR 49517), this provision has changed to 10 CFR 52.47(a)(25).) As required by 10 CFR 52.79(d)(2), the COL application must demonstrate how these interface items have been met. The BLN 3 and 4 application does not explicitly identify how these interface items have been met. This is being tracked as Open Item 1.4-1.

BLN RAI/OI ID: 3518

BLN RESPONSE:

The requested demonstration of interfaces with the standard design was addressed in the response to BLN-RAI-LTR-156. The response and associated revisions to the COL application indicated that certain interfaces were addressed within the DCD. The NRC Staff has indicated that it is inappropriate for a DCD interface item to be addressed by the DCD. In response to this request, Westinghouse Electric Company (WEC) has agreed to remove interface items 1.1, 18.4 & 18.5 from the DCD Section 1.8 table listing of the interfaces. Once these DCD changes occur, the COL applicant will incorporate the revisions identified below as appropriate. In addition, the DCD reference will be removed from interface item 3.6.

Should these revisions of the DCD not be completed as expected, appropriate supplemental COL application revisions will be provided.

This response is PLANT-SPECIFIC due to the specific FSAR references.

ASSOCIATED BLN COL APPLICATION REVISIONS

[Note: These changes supplement the changes identified in response to BLN-RAI-LTR-156.]:

1. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-203, will be revised to remove line item 1.1, Post accident Radio-Iodine sampling capability per NUREG 0737, and its associated footnote (2) which read:

1.1	Post accident Radio-Iodine sampling capability per NUREG 0737	Requirement of AP1000	Combined License applicant program	(2)
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Note 2 – Westinghouse has determined that this item has been fully addressed by the DCD. Thus, item 1.1 is not addressed by the COLA.

Enclosure
 TVA letter dated August 17, 2009
 SER OI Responses

2. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-203, line item 3.6 will be revised from:

3.6	Specific depth of waterproofing	Requirement of AP1000	Onsite implementation	2.5.4.1, DCD 3.4.1.1.1
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To read:

3.6	Specific depth of waterproofing	Requirement of AP1000	Onsite implementation	2.5.4.1
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4. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-203, will be revised to remove line items 18.4 and 18.5 related to human factors evaluations (see WEC response to DCD RAI-SRP18-COLP-20):

18.4	Final coordination and integration of human system interface areas within a specific AP1000 consistent with Human Factors evaluations	AP1000 Interface	Combined License applicant program	18.2, DCD 18.2, DCD 18.8
18.5	Final coordination and integration of Combined License applicant facilities with those of a specific AP1000 consistent with Human Factors evaluations	AP1000 Interface	Combined License applicant program	18.2, DCD 18.2, DCD 18.8

4. COLA Part 2, FSAR Chapter 3, Subsection 3.7.4.2.1, will be revised to add the following sentence to the end of the existing FSAR added text:

The trigger value is initially set at 0.01g.

ASSOCIATED ATTACHMENTS/ENCLOSURES:

None