



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

July 18, 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

BELLEFONTE COMBINED LICENSE APPLICATION – RESPONSE TO REQUEST FOR
ADDITIONAL INFORMATION – RAW WATER SYSTEM

Reference: Letter from Tanya Simms (NRC) to Andrea Sterdis (TVA), Request for Additional
Information Letter No. 045 Related to SRP Section 09.02.01 for the Bellefonte
Units 3 and 4 Combined License Application, dated June 20, 2008

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

A response to 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 Thomas Spink at 1101 Market Street, LP5A,
Chattanooga, Tennessee 37402-2801, by telephone at (423) 751-7062, or via email at
tepink@tva.gov.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on this 18th day of July, 2008.

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

Enclosure
cc: See Page 2

DOBS
NRO

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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
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
T. Simms, NRC/HQ
G. Zinke, NuStart

cc: (w/o Enclosure)

B. 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. Register, DOE/PM
L. Reyes, NRC/RII
J. M. Sebrosky, NRC/HQ

Enclosure
TVA letter dated July 18, 2008
RAI Response

Response to NRC Request for Additional Information letter No. 045 dated June 20, 2008
(2 pages, including this list)

Subject: Raw Water System in the Final Safety Analysis Report

<u>RAI Number</u>	<u>Date of TVA Response</u>
01-2	This letter – see following page

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

Enclosure
TVA letter dated July 18, 2008
RAI Response

NRC Letter Dated: June 20, 2008

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 01-2

In FSAR Section 9.2.11.4, "Safety Evaluation," the applicant states the following: "The RWS (raw water system) has no safety-related function and, therefore, requires no nuclear safety evaluation. It has no interconnection with any system that contains radioactive fluids." In FSAR Section 9.2.11.1.2, "Power Design Basis," the applicant states that a function for RWS includes piping to "provide an alternate dilution source for radwaste discharge when the CWS is not available." The staff requests the applicant to provide clarification regarding the conflicting statements in these two sections. Also, the staff requests the applicant to clarify whether the RWS has an interconnection with any system that contains radioactive fluids. If so, the staff requests the applicant to provide justification that the RWS will not affect the safety-related SSCs that are connected to the RWS.

BLN RAI ID: 613

BLN RESPONSE:

The Raw Water System (RWS) has no interconnection with any system that contains radioactive fluids as shown in FSAR Figure 9.2-201, Sheets 1 and 2. As described in FSAR Subsection 9.2.11, the RWS provides river water for makeup to the natural draft and mechanical draft cooling tower basins. It also indirectly provides an alternate dilution source for radwaste discharge when the circulating water system (CWS) is not available through this makeup line to CWS (Refer to FSAR Figure 3.4-1). The radwaste dilution is provided from the CWS cooling tower blowdown. There is no direct hard pipe connection between the RWS and radwaste discharge. Therefore, the RWS will not affect the safety-related SSCs that are connected to the RWS.

Based on the above clarification, the statements in FSAR sections 9.2.11.4 and 9.2.11.1.2 are not in conflict.

The response is PLANT-SPECIFIC.

ASSOCIATED BLN COL APPLICATION REVISIONS:

None

ATTACHMENTS/ENCLOSURES:

None