



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

July 08, 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 – TOXIC MATERIAL**

Reference: Letter from Joseph Sebrosky (NRC) to Andrea L. Sterdis (TVA), Request for
Additional Information Letter No. 035 Related to SRP Section 02.02.01/02.02.02
for the Bellefonte Units 3 and 4 Combined License Application, dated
June 9, 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 each NRC request in the subject letter is addressed in the enclosure and 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 Phillip Ray at 1101 Market Street, LP5A,
Chattanooga, Tennessee 37402-2801, by telephone at (423) 751-7030, or via email at
pmray@tva.gov.

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

Executed on this 8th day of July, 2008.

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

Enclosure
cc See Page 2

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cc: (w/Enclosure)

- J. P. Berger, EDF
- J. M. Sebrosky, NRC/HQ
- E. Cummins, Westinghouse
- S. P. Frantz, Morgan Lewis
- M. W. Gettler, FP&L
- R. 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
- G. A. Zinke, NuStart

cc: (w/o Enclosure)

- B. C. 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. Reister, DOE/PM
- L. Reyes, NRC/RII
- T. Simms, NRC/HQ

Enclosure
TVA letter dated July 08, 2008
RAI Responses

Responses to NRC Request for Additional Information letter No. 035 dated June 9, 2008
(3 pages, including this list)

Subject: Hazards Evaluations in the Final Safety Analysis Report

<u>RAI Number</u>	<u>Date of Response</u>
02.02.01-02.02.02-01	This letter – see following pages
02.02.01-02.02.02-02	This letter – see following pages

Attachments / Enclosures

None

Pages Included

Enclosure
TVA letter dated July 08, 2008
RAI Responses

NRC Letter Dated: June 9, 2008

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 02.02.01-02.02.02-01

Section 2.2.3.1.3.2.1 of the FSAR states that the quantities of toxic materials used at Maples Industries are well below RG 1.78 threshold values and therefore present no risk to control room habitability. FSAR Table 2.2-203 lists hazardous materials at Maples Industries but does not identify the associated quantities. Please provide the quantities associated with the chemicals listed in Table 2.2-203.

BLN RAI ID: 424

BLN RESPONSE:

FSAR Table 2.2-203 was originally based on information reported to the Jackson County Emergency Management Agency. This information did not include all of the chemicals housed by Maple Industries, nor did it include quantities. Subsequent contact with Maple Industries yielded a complete list of hazardous chemicals stored at the facility and their respective quantities.

FSAR Subsection 2.2.2.2.2 and Table 2.2-203 will be revised to indicate quantities and chemical inventory at Maple Industries.

This response is PLANT-SPECIFIC.

ASSOCIATED BLN COL APPLICATION REVISIONS:

1. COLA Part 2, FSAR, Chapter 2, Subsection 2.2.2.2.2, will be revised from:

Table 2.2-203 lists hazardous materials reported to the Jackson County Emergency Management Agency stored on site.

To read:

Table 2.2-203 lists maximum amounts of hazardous materials stored at Maple Industries.

2. COLA Part 2, FSAR, Chapter 2, Table 2.2-203 will be replaced in its entirety as provided in the response to NRC RAI No. 02.02.03-03 (see response to NRC RAI Letter No. 036).

ATTACHMENTS/ENCLOSURES:

None

Enclosure
TVA letter dated July 08, 2008
RAI Responses

NRC Letter Dated: June 9, 2008

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 02.02.01-02.02.02-02

Section 2.2.3.1.3.2.2.3 of the FSAR refers indirectly to FSAR Table 2.2-208 ("Top 25 Commodities Shipped Via NSRC Railroad Past Hollywood, AL, September 2005 – September 2006") in connection with screening for toxic gas hazards for plant operations (control room habitability), but neither the table nor the section identifies the associated quantities of those materials. Please provide the quantities associated with the chemicals identified in Table 2.2-208.

BLN RAI ID: 425

BLN RESPONSE:

FSAR Table 2.2-208 was created using a list of the top 25 commodities transported through Hollywood, AL, for the 12 month period ending September 30, 2006, by the Norfolk Southern Railroad Company (NSRC). This list, provided by NSRC, did not include quantities associated with commodities, as this is considered confidential information. However, later contact with the NSRC revealed that chlorine tanker cars have a maximum capacity of 90 tons. Since the requirements of Regulatory Guide 1.78 state that only the largest container size needs to be considered for a toxic release, this maximum capacity of 90 tons is used as the quantity for the toxic chemical evaluation. This capacity is stated in Section 2.2.3.1.3.2.2.3 as the basis for the mass utilized for the hazardous release calculation.

This response is PLANT-SPECIFIC.

ASSOCIATED BLN COL APPLICATION REVISIONS:

No COLA revisions have been identified associated with this response.

ATTACHMENTS/ENCLOSURES:

None