



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

October 8, 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 – NEW AND SPENT FUEL STORAGE**

- Reference:
- 1) Letter from Tanya Simms (NRC) to Andrea L Sterdis (TVA), Request for Additional Information Letter No. 165 Related to SRP Section 09.01.02 for the Bellefonte Units 3 and 4 Combined License Application, dated June 21, 2009
 - 2) Letter from to Andrea L Sterdis (TVA) to Tanya Simms (NRC), Response to Request for Additional Information Letter No. 165 Related to SRP Section 09.01.02 for the Bellefonte Units 3 and 4 Combined License Application, dated September 22, 2009

This letter provides the Tennessee Valley Authority's (TVA) supplemental response to the Nuclear Regulatory Commission's (NRC) request for additional information (RAI) item included in the reference letter (Reference 1). TVA provided a response to the subject letter stating the response is PLANT SPECIFIC (see Reference 2). This supplement revises the response to STANDARD since the draft SER for Chapter 9 has not been released yet and the response is expected to be STANDARD for the S-COLAs (no other changes were made to the response). 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 8th day of Oct, 2009.

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

D085
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
- 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. A. 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 October 8, 2009
RAI Response

Supplemental Response to NRC Request for Additional Information letter No. 165 dated August 21, 2009
(3 pages, including this list)

Subject: New and Spent Fuel Storage in the Final Safety Analysis Report

<u>RAI Number</u>	<u>Date of TVA Response</u>
09.01.02-01	This letter – see following page This response supersedes the initial response provided on September 22, 2009

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

Enclosure
TVA letter dated October 8, 2009
RAI Response

NRC Letter Dated: August 21, 2009

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 09.01.02-01

There are no additional details on the Metamic Coupon Monitoring Program provided in Section 9.1 of the FSAR. Since the applicant's proposed resolution of COL Information Item 9.1-7 is basically a restatement of the text of the COL information item from the DCD, the staff requires additional information to be able to evaluate the applicant's closure of the item. Also, a revised RAI response (Ref. 1) related to AP1000 DCD Section 9.1.2 has modified COL Information Item 9.1-7 subsequent to its incorporation in Rev. 17 of the AP1000 DCD. The revised RAI response also provides additional definition of the aspects of the Metamic coupon monitoring program that are the responsibility of the COL applicant, versus those design aspects of the program that are the responsibility of the DCD applicant. The proposed revision to COL Information Item 9.1-7 is provided in a markup to DCD Subsection 9.1.6.7 in Reference 1. Therefore, the staff requests the applicant describe in detail how they will implement the aspects of the Metamic Monitoring Program listed in the proposed markup to DCD Section 9.1.6.7, and modify the BLN COL FSAR to include this information.

References

- 1) Enclosure 1 to Letter from Robert Sisk to NRC dated April 21, 2009, re: AP1000 Request for Additional Information (SRP 9), transmitting response to RAI-SRP9.1.2-CIB101 R3 (ADAMS Accession No. ML091120720)

BLN RAI ID: 3838

BLN RESPONSE:

The FSAR will be revised in the next COLA revision to add the requested details to the description of COL Information Item 9.1-7, as shown in the Associated BLN COL Application Revisions section below. COL Part 10, License Conditions, also will be revised to make a corresponding change to COL Item No. 9.1-7 as shown below.

This response is expected to be STANDARD for the S-COLAs.

ASSOCIATED BLN COL APPLICATION REVISIONS:

1- COLA Part 2, FSAR Chapter 9, Subsection 9.1.6 will be revised from:

STD COL 9.1-7 A spent fuel rack Metamic coupon monitoring program is to be implemented when the plant is placed into commercial operation. This program includes tests to monitor bubbling, blistering, cracking, or flaking; and a test to monitor for corrosion, such as weight loss measurements and or visual examination.

To read:

STD COL 9.1-7 A spent fuel rack Metamic coupon monitoring program is to be implemented when the plant is placed into commercial operation. This program includes tests to monitor bubbling, blistering, cracking, or flaking; and a test to monitor for corrosion, such as weight loss measurements and / or visual examination. The program will also include tests to monitor changes in physical properties of the absorber material, including neutron attenuation and thickness measurements.

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2- COLA Part 10, License Conditions, COL Item No. 9.1-7 will be revised from:

A spent fuel rack Metamic coupon monitoring program is to be implemented when the plant is placed into commercial operation. This program includes tests to monitor bubbling, blistering, cracking, or flaking; and a test to monitor for corrosion, such as weight loss measurements and or visual examination.

To read:

A spent fuel rack Metamic coupon monitoring program is to be implemented when the plant is placed into commercial operation. This program includes tests to monitor bubbling, blistering, cracking, or flaking; and a test to monitor for corrosion, such as weight loss measurements and / or visual examination. The program will also include tests to monitor changes in physical properties of the absorber material, including neutron attenuation and thickness measurements.

ASSOCIATED ATTACHMENTS/ENCLOSURES:

None