



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

December 15, 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 –REQUIRED UPDATES OF SAFETY ANALYSIS AND DEPARTURES REPORTS - Submittal No. 5

- Reference:
- 1) Letter from Ashok S. Bhatnagar (TVA) to R. William Borchardt (NRC), Application for Combined License for Bellefonte Units 3 and 4, dated October 30, 2007
 - 2) Letter from David B. Matthews (NRC) to Ashok S. Bhatnagar (TVA), Application for Combined License for Bellefonte Units 3 and 4, dated January 18, 2008
 - 3) Letter from Ashok S. Bhatnagar (TVA) to Document Control Desk (NRC), Bellefonte Combined License Application – Submittal of Revision 1 to Part 3, Applicant’s Environmental Report – Combined License Stage, And Part 9, Withheld Information, dated October 10, 2008
 - 5) Letter from Andrea L. Sterdis (TVA) to Document Control Desk (NRC), Bellefonte Combined License Application – Required Updates of Safety Analysis and Departures Reports, dated January 21, 2009

This letter provides the Tennessee Valley Authority’s (TVA) updates required by 10 CFR 50.71 (e)(3)(iii) and 10 CFR Part 52, Appendix D, subsections X.B.1 and X.B.3.b. This update includes the annual update of the Final Safety Analysis Report (Part 2 of the Bellefonte Units 3 and 4 (BLN) combined license (COL) application), and the semi-annual update of the Departures Report (Part 7 of the BLN COL application). Additionally, several other parts (i.e., Parts 4, 5, and 10) of the COL application submitted by TVA in Reference 1, accepted by NRC in Reference 2, and updated by TVA in Reference 5 are updated. Each revision to the COL application is identified by revision bars in the margin for text and tables and by the revision number for figures.

This application revision incorporates by reference Appendix D to 10 CFR Part 52 and the Westinghouse Electric Company’s (Westinghouse’s) application for amendment to portions of the AP1000 Design Control Document (DCD) Revision 17 (submitted September 22, 2008). This update includes changes identified by previous correspondence, including responses to requests for additional information and Safety Evaluation Report Open Items, from October 31, 2008 through

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October 31, 2009, as well as various other updates such as miscellaneous errata items, and standard and plant-specific changes necessary to reflect the incorporation by reference of some template revisions submitted by the Nuclear Energy Institute (NEI). The changes due to NEI templates are only updated after the final, NRC approved version of the template is issued.

The BLN COL application is composed of several parts. Each of these is identified below along with indication of any revision contained in this document update.

Part 1 - Administrative and Financial Information (Revision 1).

Part 2 - Final Safety Analysis Report (FSAR) (Revision 2 included).

Part 3 - Environmental Report (Revision 1 submitted October 2008 (Reference 3)).

Part 4 - Technical Specifications (Revision 2 included).

Part 5 - Emergency Planning (Revision 2 included).

Part 6 - [Not used. Reserved for applicants requesting Limited Work Authorization (LWA)].

Part 7 - Departures and Exemption Requests (Revision 2 included).

Part 8 - Safeguards/Security Plans (Revision 0)

Part 9 - Withheld Information (Revision 1).

Part 10 - Proposed Combined License Conditions, (including inspections, tests, analyses, and acceptance criteria [ITAAC]) (Revision 2 included).

Part 11 – Enclosures (Revision 1).

This application update contains no restricted data or national defense information requiring separation in accordance with 10 CFR 50.33.

Part 2 has been revised as described above to reflect changes due to site-specific and standard RAI responses, Revision 17 of the DCD, NEI Template revisions, and miscellaneous errata.

Part 4 has been revised to incorporate DCD and RAI-related changes and includes revision bars to show where revisions have been made to support NRC review. A clean copy will be prepared once the review is complete on a schedule necessary to support the issuance of the Combined Licenses.

Part 5 has been revised to include new and additional information in the Emergency Plan, primarily to reflect changes due to site-specific RAI responses.

Part 7 of this application revision contains requests for certain exemptions, departures from the referenced DCD.

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Part 10 of this application revision includes a listing of ITAAC beyond those identified in Tier 1 of the AP1000 DCD, as well as proposed License Conditions. This part is updated primarily to reflect changes due to standard RAI responses.

Certain portions of the new 10 CFR 73 rule package, such as cyber security, and 10 CFR 52.80(d) are not reflected in this update due to ongoing interactions with the NRC concerning guidance and standard information being developed in coordination with NEI. An update is expected to be provided in the future to reflect responses to NRC RAIs and the associated revisions to the corresponding documents.

A document identifying each change, as well as its source or basis, is being provided as an aid to the NRC reviewers and will be submitted by separate letter.


Consistent with common licensing practice and the original application, most of the updated application text is written in the present tense, active voice, including discussions of facilities and programs not yet built or implemented. Exceptions to this approach are the discussions of operating experience and completed studies and evaluations, which are written in the past tense. It should be understood, however, that statements regarding facilities (e.g., structures, systems and components) and pre-construction, pre-operational, and operational activities (e.g., procedures and programs) typically address activities that have not yet been performed and will not be performed until it is reasonable and appropriate to do so.

A complete set of the updated application documents (by Part as identified above) is provided in electronic file format on the enclosed disk (Enclosure 1). Application documents (by Part) that are not updated are not included on the enclosed disk. Appropriate pre-submission checks have been successfully performed on the files to confirm compliance with the guidelines provided on the NRC web site, which have been found acceptable for electronic submittal. The disk includes a "packing slip" describing its contents, pursuant to NRC instructions for electronic filing.

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 15th day of Dec, 2009.



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

Enclosures – Bellefonte Units 3 and 4 COL Application Update (Submittal 5)
cc: See Page 4

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cc (w/o Enclosures):

- S. P. Frantz, Morgan Lewis
- M. W. Gettler, FP&L
- R. C. Grumbir, NuStart
- P. S. Hastings, NuStart
- P. Hinnenkamp, Entergy
- M. A. Hood, NRC/HQ
- R. H. Kitchen, PGN
- M. C. Kray, NuStart
- A. M. Monroe, SCE&G
- C. R. Pierce, SNC
- L. Reyes, NRC/RII
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- R. F. Smith-Kevern, DOE/HQ
- G. A. Zinke, NuStart

cc (w/o Enclosures):

- G. P. Arent, EQB 1A-WBN
- J. A. Bailey, LP 5A-C
- A. L. Sterdis, LP 5A-C
- E. J. Vigluicci, WT 6A-K
- C. C. Chandler, WT 6A-K
- S. A. Vance, WT 6A-K
- EDMS, WT CA-K

Enclosure 1
TVA letter dated December 15, 2009
COL Application Update

Combined License (COL) Application Update

Bellefonte Units 3 and 4

in DVD format

on one DVD

Preflight Reports for the above Application Update files
are also included on a separate DVD.