

## **PMBelCOL PEmails**

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**From:** Ray, Phillip M [pmray@tva.gov]  
**Sent:** Tuesday, September 30, 2008 8:27 AM  
**To:** Joseph Sebrosky  
**Cc:** Sterdis, Andrea Lynn  
**Attachments:** BLN Errata Rev 3 Final 20080923.pdf; RAI-LTR-096 S-1.pdf

Joe,

Attached is a courtesy copy of our update to the Bellefonte Errata Report. Also, find a courtesy copy of our supplemental response to RAI letter 96. The official submittals to the Document Control Desk have been shipped via Federal Express.

If you have any questions, please call me.

*Phillip M. Ray*

Nuclear Generation Development & Construction  
Tennessee Valley Authority  
423-751-7030

**Hearing Identifier:** Bellefonte\_COL\_Public\_EX  
**Email Number:** 1177

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**From:** Ray, Phillip M

**Created By:** pmray@tva.gov

**Recipients:**  
"Sterdis, Andrea Lynn" <alsterdis@tva.gov>  
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"Joseph Sebrosky" <Joseph.Sebrosky@nrc.gov>  
Tracking Status: None

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

September 29, 2008

10 CFR 52.75

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 – STANDARDIZATION ERRATA  
REPORT REVISION 3

- Reference:
1. Letter from Ashok Bhatnagar (TVA) to Mr. R. William Borchardt (NRC), Application for Combined License for BLN Units 3 and 4, dated October 30, 2007.
  2. Letter from Jack A. Bailey (TVA) to Mr. R. William Borchardt (NRC), AP1000 Combined License Application Standardization, dated March 14, 2008.
  3. Letter from Jack A. Bailey (TVA) to Document Control Desk (NRC), AP1000 Combined License Application Standardization Errata Report Letter Revision 1, dated March 28, 2008.
  4. Letter from Andrea L. Sterdis (TVA) to Document Control Desk (NRC), AP1000 Combined License Application Standardization Errata Report Letter Revision 2, dated April 28, 2008.

The purpose of this letter is to identify updates to the Bellefonte (BLN) combined license application.

TVA submitted an application for two AP1000 advanced passive pressurized water reactors in the Reference 1 letter. The BLN application has been designated by the AP1000 Design-Centered Working Group (DCWG) as the reference application (R-COLA) for the AP1000 DCWG; accordingly, the information designated therein as "standard content" is expected to be used in subsequent AP1000 applications (S-COLAs).

Enclosure 1 contains the portion of the Revision 3 R-COLA Errata Report that updates the standard content of the BLN application identified during the preparation of the Levy S-COLA. To maintain proper configuration management of standard content between the R-COLA and S-COLAs, the errata in Enclosure 1 documents updates to the R-COLA standard content being tracked by the AP1000 DCWG. The AP1000 DCWG members, including members submitting S-COLAs, have acknowledged these updates as standard content for an AP1000 application. TVA, in consultation with the AP1000 DCWG, has concluded that none of the updates described

in Enclosure 1 require an immediate change to the BLN application. These updates will be incorporated into a future revision of the BLN application.

Enclosure 2 contains updates to site-specific content of the BLN application. TVA has concluded that none of the updates described in Enclosure 2 require an immediate change to the BLN application. These updates will be incorporated into a future revision of the BLN application.

Errata in both enclosures are identified with a unique tracking number for each entry. While the entries are generally sequential, beginning with entries in Revision 0, they do not include updates that were proposed but not adopted; consequently, the individual tracking numbers are not consecutive in all cases. Revision 3 is inclusive of the Revision 0 (Reference 2), Revision 1 (Reference 3), and Revision 2 (Reference 4) entries previously provided (as indicated above), and these previous revisions remain valid but are not repeated in this letter.

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 29<sup>th</sup> day of Sep, 2008.



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

Enclosure  
cc: See Page 3

September 29, 2008

cc: (w/ Enclosures)

J. P. Berger, EDF  
J. M. Sebrosky, NRC/HQ  
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B. C. Anderson, NRC/HQ  
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B. Hughes/NRC/HQ  
R. G. Joshi, NRC/HQ  
R. H. Kitchen, PGN  
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L. Reyes, NRC/RII  
T. Simms, NRC/HQ

Enclosure  
TVA Letter dated September 29, 2008

**AP1000 R-COLA**

**ERRATA Report Rev 3**

**Standard Content Changes**

**Enclosure 1**

**(5 pages)**

**Enclosure 1**  
**AP1000 R-COLA Errata Report Rev 3**  
**Standard Content Changes**

Change No.	COLA Part	Chapter	Section/ Page	Text Change	Reason for Change
AP-STD- 0255	Pt 02	FSAR 01	Table 1.6-201	Revise NEI 07-08 to Revision "1" with a Document Transmittal of "February 2008" and ADAMS No of "ML080640459"	NEI submittal of February 26, 2008
AP-STD- 0256	Pt 02	FSAR 01	Table 1.6-201	Revise NEI 07-03 to Revision "5" with a Document Transmittal of "March 2008" and ADAMS No of "ML080860403"	NEI submittal of March 25, 2008
AP-STD- 0257	Pt 02	FSAR 01	Table 1.9-201	For RG 1.21, add new FSAR Subsection listing of "11.5.1.2"	Inadvertent omission from Rev 0
AP-STD- 0258	Pt 02	FSAR 01	Table 1.9-201	For RG 1.76, add new FSAR Subsection listing of "Table 2.0-201, footnote (e)"	Inadvertent omission from Rev 0
AP-STD- 0259	Pt 02	FSAR 01	Table 1.9-202	Revise Title of SRP 6.2.1.1.B to read "Ice Condenser Containments, Rev. 2, 07/1981"	Current reference is a draft document. FSAR should assess conformance to approved documents.
AP-STD- 0260	Pt 02	FSAR 01	Table 1.9-202	Revise Title of SRP 6.5.4 to read "Ice Condenser as a Fission Product Cleanup System, Rev. 4, 12/1988"	Current reference is a draft document. FSAR should assess conformance to approved documents.
AP-STD- 0261	Pt 02	FSAR 01	Table 1.9-202	Revise Title of SRP 6.7 to read "Main Steam Isolation Valve Leakage Control System (BWR), Rev. 2, 07/1981"	Current reference is a draft document. FSAR should assess conformance to approved documents.
AP-STD- 0262	Pt 02	FSAR 01	Table 1.9-204 Sheet 1	For Bulletin 80-15, include in Comment column an additional subsection listing of "9.5.2.2.3.1"	Inadvertent omission from Rev 0
AP-STD- 0263	Pt 02	FSAR 01	Table 1.9-204 Sheet 4	Add listing for "Generic Letter 88-14 Instrument Air Supply System Problems Affecting Safety-Related Equipment (8/88)" 9.3.7"	Inadvertent omission from Rev 0
AP-STD- 0264	Pt 02	FSAR 01	Table 1.9-204 Sheet 5	Add listing for "Generic Letter 89-08 Erosion/Corrosion-Induced Pipe Wall Thinning (5/89)" 10.1.3.1"	Inadvertent omission from Rev 0
AP-STD- 0265				Deleted	
AP-STD- 0266	Pt 02	FSAR 01	Table 1.9-203 Sheet 4	Revise item II.B.5(1) to read "Behavior of Severely Damaged Fuel" - Correct from "Damages"	WEC DCD TR134 Rev 4 update per DCD change item NRC210
AP-STD- 0267	Pt 02	FSAR 01	Table 1.9-203 Sheet 7	Revise item III.C.2(2) to add an "s" to the word "Member" to read "Provide Training for Members of the Technical Staff"	WEC DCD TR134 Rev 4 update per DCD change item NRC210
AP-STD- 0268				Deleted	
AP-STD- 0269	Pt 02	FSAR 01	Appendix 1AA	For RG 1.197 entry add the following text between the number and title entry and the "General Conforms" line item - "Conformance of the design aspects is as stated in the DCD. Conformance with Revision 0 of this Regulatory Guide for programmatic and/or operational aspects is documented below."	WEC DCD TR134 Rev 0 update per DCD change item NRC140
AP-STD- 0270	Pt 02	FSAR 03	3.7.2.8.1	Revise "safety related" to "seismic Category I" to read "The annex building is designed so that it will not collapse and damage the seismic Category I auxiliary building and shield building."	Correct the terminology.
AP-STD- 0271	Pt 02	FSAR 03	3.7.4.2.1	Revise text to remove "within the protected area"	Allow more flexibility - the instrumentation need not be limited to the protected area.
AP-STD- 0272	Pt 02	FSAR 11	11.2.1.2.5.2	Revise second sentence to read "When confirmed through sampling that the radioactive waste contents do not exceed the A2 quantities for radionuclides specified in Appendix A to 10 CFR Part 71, the liquid effluent may be processed with mobile or temporary equipment in the Radwaste Building."	Consistency with the third sentence.
AP-STD- 0273	Pt 02	FSAR 12	12.3.4 page 12.3-4	Revise second sentence of second paragraph to read "Samples which cannot be analyzed on-site are forwarded to an off-site laboratory or a contractor for analysis; or, the DAC percentage may be hand calculated using appropriate values from 10 CFR Part 20, Appendix B."	Some utilities have off-site labs that can do the analysis without sending to a contractor.

**Enclosure 1**  
**AP1000 R-COLA Errata Report Rev 3**  
**Standard Content Changes**

Change No.	COLA Part	Chapter	Section/ Page	Text Change	Reason for Change
AP-STD- 0274	Pt 02	FSAR 12	page 12AA-3 and 12AA-4	Revise 12AA.5.4.13 Groundwater Monitoring Program to 12AA.5.4.14 Groundwater Monitoring Program, and 12AA.5.4.14 Record of Operational Events of Interest for Decommissioning to 12AA.5.4.15 Record of Operational Events of Interest for Decommissioning.	NEI 07-03, Rev4 FEB 2008 added a new section 12.5.4.13 Records to the document
AP-STD- 0275	Pt 02	FSAR 14	14.2.8 new section	Add new Section "14.2.8 Test Program Schedule" with text to read "A site-specific initial test program schedule will be provided to the NRC after issuance of the COL. This schedule will address each major phase of the test program (including tests that are required to be completed before fuel load), as well as the organizational impact of any overlap of first unit initial testing with initial testing of the second unit." Include LMA of STD SUP 14.2-1	Address guidance of RG 1.206, C.III.1 - 14.2.11.
AP-STD- 0276	Pt 02	FSAR 19	19.59.10.5	Revise plant specific LMA for COL item 19.59.10-2 (BLN COL 19.59.10-2 in BLN COLA) to STD COL 19.59.10-2	Wording is Standard wording for all AP1000 COLAs
AP-STD- 0277	Pt 02	FSAR 13	13.7	The wording of the DCD 13.7 STD DEP 1.1-1 information is revised to read "DCD Section 13.7 is redistributed to include DCD Section 13.7 references 7, 8 and 10 with COLA Subsection 13.5.4 and DCD Section 13.7 references 2, 3, 4 and 5 with COLA Subsection 13.6.2."	The COLA identified section 13.8 was not generated; instead References were redistributed to appropriate X.Y section.
AP-STD- 0278	Pt 04	FSAR 02	2.1.1	In TS 2.1.1.1, remove the "s" from the end of "correlations"	WEC DCD TR134 Rev 4 update per DCD change item NRC213
AP-STD- 0279	Pt 04	FSAR 03	3.8.1	For Required Action B.3, add Completion Time of "7 days"	WEC DCD TR134 Rev 4 update per DCD change item NRC214
AP-STD- 0280	Pt 02	FSAR 01	Table 1.9-202	For SRP 14.3, add ", Initial Issuance, 03/2007" For SRP 14.3.5, 14.3.6, 14.3.7, and 14.3.8, revise "03/07" to "03/2007"	Consistency
AP-STD- 0281	Pt 02	FSAR 05	5.3.6.2	Revise text to read "This COL Item is addressed in Subsections 5.3.2.6 and 5.3.2.6.3."	Consistency
AP-STD- 0282	Pt 02	FSAR 12	12AA	On page 12AA-1, delete the revision to the first paragraph of NEI 07-03 Section 12.5. On page 12AA-2, delete the revision to the first paragraph of NEI 07-03 Section 12.5.4.6.	These revisions were incorporated into NEI 07-03 Rev 4.
AP-STD- 0283	Pt 02	FSAR 11		Revise FSAR subsections 11.2.3.5.3 and 11.3.3.4.3 to address standard and site-specific cost-benefit analysis information following NRC rejection of NEI 07-11 for review.	Revise per generic and site-specific wording developed and addressed by responses to RAIs 420 (liquid) and 422 (gaseous)
AP-STD- 0284	Pt 02	FSAR 13	13.1.4, 13.5.3	Add STD DEP LMAs for 13.1.4 and 13.5.3 to address changes for COL information item sections from standard DCD format	Consistency
AP-STD- 0285	Pt 02	FSAR 01, FSAR 13	TOC, Table 1.9-201, Chapter 13	Remove Appendix 13BB and all references to it in FSAR due to issue of NEI 06-13A Rev. 1	Per recommendation of Training team and to provide single source for information
AP-STD- 0286	Pt 02	FSAR 01	Table 1.8-202	Change the title of COL Item 6.3-2 to read, "Verification of Containment Resident Particulate Debris Characteristics"	Correction of COL Item 6.3-2 title to match title in TR134, Rev. 2, Table 1.8-2
AP-STD- 0287	Pt 10		LC#2	Change the title/subject of COL Holder Item 6.3-2 to read, "Verification of Containment Resident Particulate Debris Characteristics"	Correction of COL Holder Item 6.3-2 title/subject to match title in TR134, Rev. 2, Table 1.8-2
AP-STD- 0288				Deleted	
AP-STD- 0289	Pt 04		B	TS5.3.1, change "prior to commercial operation" to "through the first refueling outage"	Change consistent with NEI 06-13A, Revision 1
AP-STD- 0290	Pt 04		B, Bases Page B3.7.1-6	Change the title of Reference 5 to read, ASME OM Code-1995 and Addenda through the 1996 Addenda, "Code for Operation and Maintenance of Nuclear Power Plants."	Consistency - change per TR134, Rev. 5, Item NRC343



**Enclosure 1**  
**AP1000 R-COLA Errata Report Rev 3**  
**Standard Content Changes**

Change No.	COLA Part	Chapter	Section/ Page	Text Change	Reason for Change
AP-STD- 0291	Pt 04		B, Bases Page B3.9.7-1	In the second paragraph of the section titled Applicable Safety Analyses, third line, change "100 hours." to "48 hours."	Consistency - change per TR134 Rev. 5, Item NRC236
AP-STD- 0292	Pt 02	FSAR 02	Table 2.0-201	Revise the air temperature parameters to read as follows: Maximum Safety 115°F dry bulb/86.1°F coincident wet bulb 86.1°F wet bulb (noncoincident) <sup>(b)</sup> Maximum Normal 101°F dry bulb/80.1°F coincident wet bulb	Change per TR134, Rev. 5, Item NRC 263 (Tier 1, Table 5.0-1) and 264 (Tier 2, Table 2-1)
AP-STD- 0293	Pt 02	FSAR 02	Table 2.0-201	Add a note (h) to the Notes at the end of the table to read: "The containment pressure response analysis is based on a conservative set of dry-bulb and wet-bulb temperatures. These results envelop any conditions where the dry-bulb temperature is 115°F or less and wet-bulb temperature of less than or equal to 86.1°F."	Change per TR134, Rev. 5, Item NRC 264 (Tier 2, Table 2-1)
AP-STD- 0294	Pt 02	FSAR 02	Table 2.0-201	Under the Soil category, revise the Maximum Allowable Dynamic Bearing Capacity for Normal Plus SSE parameter to add the following: ", or Site-specific analyses demonstrate factor of safety appropriate for normal plus safe shutdown earthquake loads"	Change per TR134, Rev. 5, Items NRC 223 (Tier 1, Table 5.0-1) and 224 (Tier 2, Table 2-1)
AP-STD- 0295	Pt 02	FSAR 02	Table 2.0-201	Under the Precipitation category, change the Rain parameter to read: "20.7 in./hr [1-hr 1-m <sup>2</sup> PMP]"	Change per TR134, Rev. 5, Items NRC 265 (Tier 1, Table 5.0-1) and 266 (Tier 2, Table 2-1)
AP-STD- 0296	Pt 02	FSAR 19	TOC and Appendices	Add APP. 19F MALEVOLENT AIRCRAFT IMPACT (Page) 19F-1, to the TOC. Add a page to the end of Chapter 19 that contains the following: "APPENDIX 19F MALEVOLENT AIRCRAFT IMPACT This section of the referenced DCD is incorporated by reference with no departures or supplements."	Change per TR134, Rev. 5, NRC Item 248
AP-STD- 0297	Pt 02	FSAR 01	Table 1.8-202	Add a new COL Item 13.6-5, as follows: 13.6-5 Cyber Security Program 13.6.1 13.6, 13.6.1 H	Conforming change per TR134, Rev. 5, Item NRC 268
AP-STD- 0298	Pt 02	FSAR 13	13.6	Revise the second sentence of the first paragraph of 13.6 to read, "The Security Plan is submitted to the Nuclear Regulatory Commission as a separate licensing document in order to fulfill the requirements of 10 CFR 52.79(a)(35) and 52.79(a)(36)." In 13.6, add a new third paragraph to read, "An operational program following the guidance of NRC endorsed NEI 04-04 Revision 1 will be implemented prior to fuel load." In Section 13.6.1, revise STD COL 13.6-1 to read, "Information for the Security Plan portion of this COL item is addressed in 13.6." In Section 13.6.1, add STD COL 13.6-5 as a new paragraph to read, "Information for the cyber security program portion of this COL item is addressed in 13.6." In Section 13.6.2, Reference 201, capitalize the word, "During"	Conforming change per TR134, Rev. 5, Item NRC 268
AP-STD- 0299	Pt 10		LC-1	Revise the last sentence of the first paragraph of LC#2, COL Holder Items, to read as follows: "These include COL information item numbers 3.11-1, 9.5-6, 10.1-1, and 13.6-5."	Conforming change per TR134, Rev. 5, Item NRC 268. This change is necessary in order to treat the cyber security program as a COL information item that is resolved by the holder in the FSAR.

**Enclosure 1**  
**AP1000 R-COLA Errata Report Rev 3**  
**Standard Content Changes**

Change No.	COLA Part	Chapter	Section/ Page	Text Change	Reason for Change
AP-STD- 0300	Pt 10		LC#2	Revise COL Holder Item 14.4-6, second paragraph, to read as follows: "The Combined License holder(s) for the first AP1000 plant (or first three plants) available for testing will perform the tests defined during preoperational and startup testing as identified in subsections 14.2.9 and 14.2.10. Combined License holders referencing the results of the tests will provide the report as necessary. The schedule for providing this information will be provided prior to preoperational testing." Also change the fourth cell in the first line from "Prior to initial fuel load" to "Prior to preoperational testing"	Conforming change per TR134, Rev. 5, Item NRC 254
AP-STD- 0301	Pt 02	FSAR 01	1AA (RG 1.28, RG 1.33)	In Appendix 1AA, for RG 1.28, add the following sentences after the title that state, "Conformance of the design and construction aspects is as stated in the DCD. Conformance with Revision 3 of this Regulatory Guide for programmatic and/or operational aspects is documented below." For RG 1.33, add the following sentences after the title that state, "Conformance of the design aspects is as stated in the DCD. Conformance with Revision 3 of this Regulatory Guide for programmatic and/or operational aspects is documented below."	RG 1.33 - TR134, R5 item NRC247.  RG 1.28 - conforming change to correct omission of DCD reference in Appendix 1AA
AP-STD- 0302	Pt 02	FSAR 14	14.4.6	Revise last sentence to read "If the tests are not performed, the justification is provided prior to preoperational testing."	TR134, R5 item NRC254.
AP-STD- 0303	Pt 02	FSAR 01	Table 1.6-201	Revise WEC APP-GW-GLR-134 revision to "5" and Document Transmittal to "June 2008" and ADAMS Accession Number to "TBD"	TR135, R5, Submittal of June 27, 2008
AP-STD- 0304	Pt 02	FSAR 01	Table 1.6-201	Revise NEI 06-13A Revision to "1" and Document Transmittal to "March 2008" and ADAMS Accession Number to "ML080910051"	NEI Submittal of March 2008
AP-STD- 0305	Pt 02	FSAR 18	18.8.3.6	Revise title to read "Operations Support Center Mission and Major Tasks"	TR134, R5 item NRC245.
AP-STD- 0306	Pt 04		A.2, 2	Revise second sentence of initial paragraph to read "PSTS pages reflecting each PSTS change to the DCD GTS and Bases are provided in the Section B clean copy." Also remove all PSTS page in Section A from 3.1.4-4 through 5.6-2.	Duplicating these pages in A.2 and B (clean copy) is confusing.
AP-STD 0307	Pt 02	FSAR 02	Page 2.0-1	Add hyperlink to introductory information in DCD	Consistency with other IBR statements
AP-STD 0308				Deleted	
AP-STD 0309				Deleted	
AP-STD 0310				Deleted	
AP-STD 0311				Deleted	
AP-STD 0312				Deleted	
AP-STD 0313				Deleted	
AP-STD 0314				Deleted	
AP-STD 0315	Pt 02	FSAR 01	Table 1.9-201	Add RG 1.110 to table and identify FSAR sections 11.2.3.5.3 and 11.3.3.4.3	Conforming change per AP-STD-0283
AP-STD 0316	Pt 04		B, Figure 4.3-1	Replace Technical Specification Figure 4.3-1 shown in TR134 R0 with Figure 4.3-1 shown in TR134 Rev. 5	Conforming change based on TR134, R5 item NRC256

**Enclosure 1**  
**AP1000 R-COLA Errata Report Rev 3**  
**Standard Content Changes**

Change No.	COLA Part	Chapter	Section/ Page	Text Change	Reason for Change
AP-STD 0317	Pt 02	FSAR 12	Appendix 12AA	Revise 12AA, 4th full paragraph on page 12AA-1, from: "Subsections 12.5.3, 12.5.3.1 and 12.5.3.2 of NEI 07-03 are not incorporated into Appendix 12AA. Facilities, instrumentation, and equipment are described in DCD Subsection 12.5.2." to: "Subsections 12.5.3 and 12.5.3.1 of NEI 07-03 are not incorporated into Appendix 12AA. Facilities, instrumentation, and equipment are described in DCD Subsection 12.5.2."	Subsection 12.5.3.2 of NEI 07-03 provides the details required from Regulatory Guide 1.206 regarding health physics monitoring instrumentation and equipment. DCD Subsection 12.5.2 addresses the facilities for storing, issuing, calibrating and using the equipment, but does not address the capabilities of the instruments as was done in NEI 07-03. The wording, as currently stated in the FSAR, leaves an unintended gap in material to be described. Cross-references to fixed instruments is provided in the cited DCD Subsection, but not to operational radiation protection instrumentation.
AP-STD 0318	Pt 02	FSAR 14	14.3.2.3	In the first paragraph, heading for the second column of the ITAAC table, revise from "Inspections, Tests, Analysis" to "Inspections, Tests, Analyses"	Editorial - Consistency with the definition of ITAAC
AP-STD 0319	Pt 02	FSAR 05	5.2.1.1	In the introductory sentence, add the word "of" between the words "sentence" and "the"	Editorial
AP-STD 0320	Pt 02	FSAR 05	5.2.4.1	In the first full paragraph on Page 5.2-3 (starts with, "NRC First Revised Order..."), fifth sentence, insert the word "of" between the phrases "perform the inspection" and "the AP1000 reactor vessel pressure head." In the sixth sentence, change "Globe" to "Grobe."	Editorial
AP-STD 0321	Pt 02	FSAR 01	Table 1.6-201	Revise NEI 07-02A ADAMS Accession Number to "ML080910149"	NEI Submittal of March 2008
AP-STD 0322	Pt 02	FSAR 01	Table 1.9-201	Add Regulatory Guide 1.26, with a FSAR Chapter, Section or Subsection of 5.2.4.1	Cross-reference was missed in construction of table for R-COLA
AP-STD 0323	Pt 02	FSAR 01	Table 1.9-201	Add Regulatory Guide 1.60, with a FSAR Chapter, Section, or Subsection of Table 2.0-201	Cross-reference was missed in construction of table for R-COLA
AP-STD 0324	Pt 02	FSAR 01	Table 1.9-204, Sheet 6 of 6	Generic Letter 06-03 is referenced to FSAR Section 9.5.1, and should be referenced to Section 9.5.1.8	Correction of referenced FSAR section.
AP-STD 0325	Pt 02	FSAR 01	Table 1.9-201	Remove cross-reference to Appendix 12AA from the following Division 8 Regulatory Guides: 8.2, 8.4, 8.5, 8.6, 8.7, 8.9, 8.13, 8.15, 8.27, 8.28, 8.29, 8.34, 8.35, 8.36, 8.38	Conforming change based on removal of paragraph from Appendix 12AA in errata AP-STD-0282

Enclosure  
TVA Letter dated September 29, 2008

**AP1000 R-COLA**

**ERRATA Report Rev 3**

**Plant Specific Content Changes**

**Enclosure 2**

**(2 pages)**

**Enclosure 2**  
**AP1000 R-COLA Errata Report Rev 2**  
**Non-Standard Content Changes**

Change No.	COLA Part	Chapter	Section/ Page	Text Change	Reason for Change
BLN- 0017	Pt 02	FSAR 02	Table 2.0-201 Sheet 2 & Notes on last sheet	Add superscript note "(g)" to BLN Site Characteristic entry of "Peak ground acceleration = 0.24g" - Also revise last Notes item from "(f)" to "(g)" so that there are not two note (f)'s	Correct error in Rev 0
BLN- 0018	Pt 02	FSAR 02	Table 2.0-201 Sheet 2	For Seismic - SSE parameter, revise "AP1000 DCD Site Parameter" column to match TR134 revision 4 change to DCD Tier 1 Table 5.0-1 and Tier 2 Table 2-1 for SSE.	WEC DCD TR134 Rev 4 update per DCD change item NRC 205 and 207
BLN- 0019	Pt 02	FSAR 02	Table 2.0-201 Sheet 3	For Soil - Lateral Variability parameter, revise "AP1000 DCD Site Parameter" column to match TR134 revision 4 change to DCD Tier 1 Table 5.0-1 and Tier 2 Table 2-1 for SSE.	WEC DCD TR134 Rev 4 update per DCD change item NRC 205 and 207
BLN- 0020	Pt 02	FSAR 02	Table 2.0-201 Sheet 3	For Soil - Liquefaction Potential parameter, revise "AP1000 DCD Site Parameter" column to match TR134 revision 4 change to DCD Tier 1 Table 5.0-1 and Tier 2 Table 2-1 for SSE.	WEC DCD TR134 Rev 4 update per DCD change item NRC 205 and 207
BLN- 0021	Pt 02	FSAR 02	Table 2.0-201 Sheet 3	Add new parameter entry of "Minimum Soil Angle or Internal Friction" - a corresponding new AP1000 DCD Site Parameter entry of "Greater than or equal to 35 degrees below footprint of nuclear island at its excavation depth" - with a corresponding BLN Site Characteristic entry of "46 degrees" - with a corresponding BLN FSAR Reference entry of "Subsection 2.5.4.10.2" - and with a corresponding BLN Within Site Parameter entry of "Yes"	WEC DCD TR134 Rev 0 update per DCD Tier 2, Table 2-1 change item NRC 171
BLN- 0022	Pt 02	FSAR 02	Table 2.0-202 Sheet 3	Reformat Table to address Condenser Air Removal Stack and revise notes (e) and (f) and add new note (g)	WEC DCD TR134 Rev 4 update per DCD Tier 1, Table 5.0-1 change item NRC201 and Tier 2, Table 2-1 change item NRC 202
BLN- 0023				Deleted	
BLN- 0024	Pt 02	FSAR 02	Table 2.3-320 Sheet 3	Revise Table to address revised release point locations.	WEC DCD TR134 Rev 4 update per DCD change item NRC200
BLN- 0025	Pt 02	FSAR 02	2.5.2.4.3	Revise first sentence of fourth paragraph to refer to "Dames and Moore" team for sources 4 and 4a rather than the "Bechtel" team	Correct error in Rev 0
BLN- 0026	Pt 02	FSAR 02	2.5.7, 2.5-185	Revise Reference 269 to read: Geomatrix Consultants, Inc., Dam Safety Seismic Hazard Assessment, Report prepared for the Tennessee Valley Authority, Volume 1 (text and tables of Sections 1, 2, and 3) and Volume 2 (figures of Sections 1, 2, and 3), September 2004.	Response to seismic RAI 2.5.2-01(d) on March 19, 2008.
BLN 0027	Pt 02	FSAR 02	2.1.3.3.2.1	Move "Reference 213" from 2nd line of page 2.1-8 to end of page 2.1-7, after "third week of May"	Editorial - Reference placed in incorrect location
BLN 0028	Pt 02	FSAR 03	3.3.3	Add the following three paragraphs to the current text of Section 3.3.3: "Subsection 1.2.2 discusses differences between the plant specific site plan (see Figure 1.1-202) and the AP1000 typical site plan shown in DCD Figure 1.2-2. There are no other structures adjacent to the nuclear island other than as described and evaluated in the DCD. Missiles caused by external events separate from the tornado are addressed in Subsections 2.2 through 2.2.3, 3.5.1.5, and 3.5.1.6."	TR134, R5 item NRC258. Although the LMA for this information is site-specific, due to use of the plant name, the information is standard for all plants falling within the AP1000 typical site plan. Note that the referenced figure number is also site-specific.

**Enclosure 2**  
**AP1000 R-COLA Errata Report Rev 2**  
**Non-Standard Content Changes**

Change No.	COLA Part	Chapter	Section/ Page	Text Change	Reason for Change
BLN 0029	Pt 02	FSAR 03	3.5.4	Revise Section 3.5.4 to read as follows: *Add the following text to the end of DCD Subsection 3.5.4. The BLN site satisfies the site interface criteria for wind and tornado (see Subsections 3.3.1.1, 3.3.2.1 and 3.3.2.3) and will not have a tornado-initiated failure of structures and components within the applicant's scope that compromises the safety of AP1000 safety-related structures and components (see also Subsection 3.3.3). Subsection 1.2.2 discusses differences between the plant specific site plan (see Figure 1.1-202) and the AP1000 typical site plan shown in DCD Figure 1.2-2. There are no other structures adjacent to the nuclear island other than as described and evaluated in the DCD. Missiles caused by external events separate from the tornado are addressed in Subsections 2.2 through 2.2.3, 3.5.1.5, and 3.5.1.6.*	TR134, R5 item NRC258. Although the LMA for this information is site-specific, due to use of the plant name, the information is standard for all plants falling within the AP1000 typical site plan. Other sites should replace BLN with the site designation (e.g., WSL, VEGP, VCS, LNP, HAR). Note that the referenced figure number is also site-specific.
BLN 0030	Pt 02	FSAR 01	1.2.2	Add LMAs of NPP COL 3.3-1 and BLN COL 3.5-1 to the wording of this section	TR134, R5 item NRC258. Although the LMA for this information is site-specific, due to use of the plant name, the information is standard for all plants falling within the AP1000 typical site plan. Other sites should replace BLN with the site designation (e.g., WSL, VEGP, VCS, LNP, HAR)
BLN 0031	Pt 02	FSAR 02	2.2, 2.2.1	Add LMAs of BLN COL 3.3-1 and BLN COL 3.5-1 to the wording of these sections	TR134, R5 item NRC258. Although the LMA for this information is site-specific, due to use of the plant name, the information is standard for all plants falling within the AP1000 typical site plan. Other sites should replace [NPP] with the site designation (e.g., WSL, VEGP, VCS, LNP, HAR)
BLN 0032	Pt 02	FSAR 03	3.3.1.1, 3.3.2.1, 3.3.2.3	Add LMA of BLN COL 3.5-1 to the wording of these section	TR134, R5 item NRC258. Although the LMA for this information is site-specific, due to use of the plant name, the information is standard for all plants falling within the AP1000 typical site plan. Other sites should replace BLN with the site designation (e.g., WSL, VEGP, VCS, LNP, HAR)
BLN 0033	Pt 02	FSAR 03	3.5.1.5, 3.5.1.6	Add LMA of BLN COL 3.3-1 to the wording of these section	TR134, R5 item NRC258. Although the LMA for this information is site-specific, due to use of the plant name, the information is standard for all plants falling within the AP1000 typical site plan. Other sites should replace BLN with the site designation (e.g., WSL, VEGP, VCS, LNP, HAR)
BLN 0034	Pt 02	FSAR 01	Table 1.8-202	For COL Information Item 3.3-1, add the following FSAR Sections: 1.2.2, 2.2, 2.2.1, 3.5.1.5, 3.5.1.6 For COL Information Item 3.5-1, add the following FSAR Sections: 1.2.2, 2.2, 2.2.1, 3.3.1.1, 3.3.2.1, 3.3.2.3	Conforming change based on TR134, R5 item NRC258
BLN 0035	Pt 02	FSAR 01	Table 1.9-201	Add Subsection 12.4.1.9.3 to the list of subsections containing reference to this Reg Guide	Reference was missed in construction of table for R-COLA



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

September 29, 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 – ONSITE METEOROLOGICAL MEASUREMENTS PROGRAMS

- Reference:
1. Letter from Joseph Sebrosky (NRC) to Andrea L. Sterdis (TVA), Request for Additional Information Letter No. 096 Related to SRP Section 02.03.03 for the Bellefonte Units 3 and 4 Combined License Application, dated August 4, 2008.
  2. Letter from Andrea L. Sterdis (TVA) to Document Control Desk (NRC), Bellefonte Combined License Application – Response to Request for Additional Information – Onsite Meteorology Measurements Programs, dated September 3, 2008

This letter provides the Tennessee Valley Authority’s (TVA) supplemental response to the Nuclear Regulatory Commission’s (NRC) request for additional information (RAI) item 02.03.03-05 included in Reference 1.

Although a response to each NRC request in Reference 1 was addressed in the enclosure to Reference 2, the NRC requested an appropriate format change to two Figures (2DD-204 and -205). The enclosure contains a response for RAI item 02.03.03-05 as discussed with the NRC regarding the reformatted figures. The reformatted figures will be substituted in a future revision of the application. Neither response wording nor data has been changed with this format change.

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 29<sup>th</sup> day of Sep, 2008.

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

Enclosure  
cc: See Page 2

Document Control Desk

Page 2

September 29, 2008

cc: (w/Enclosures)

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  
K. N. Slays, NuStart  
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 September 29, 2008  
RAI Response

Response to NRC Request for Additional Information letter No. 096 dated August 4, 2008.  
(2 pages, including this list)

Subject: Onsite Meteorological Measurements Programs in the Final Safety Analysis Report

<u>RAI Number</u>	<u>Date of TVA Response</u>
02.03.03-02	September 3, 2008
02.03.03-03	September 3, 2008
02.03.03-04	September 3, 2008
02.03.03-05	Revised figures with this letter – see following pages

<u>Associated Additional Attachments / Enclosures</u>	<u>Pages Included</u>
ATTACHMENT 02.03.03-05B	51-52

Enclosure  
TVA letter dated September 29, 2008  
RAI Response

**NRC Letter Dated: August 4, 2008**  
**NRC Review of Final Safety Analysis Report**  
**NRC RAI NUMBER: 02.03.03-05**

The NRC notified TVA that the wind rose figures (2DD-204 and -205), contained in the original response to this RAI, are not in accordance with typical direction oriented figures. They should be revised to match the compass headings, rather than alphabetically arranged.

**BLN RAI ID: 1965**  
**BLN RESPONSE:**

TVA agrees with the NRC and is providing the attachment with the reoriented figures. No data has been changed.

This response is PLANT-SPECIFIC

**ASSOCIATED BLN COL APPLICATION REVISIONS:**

COLA Part 2, FSAR, Chapter 2, will be revised to incorporate a new Appendix 2DD as provided in the original response and the replacement of the two reoriented figures.

**ASSOCIATED ATTACHMENTS/ENCLOSURES:**

Attachment 02.03.03-05B

Attachment 02.03.03-05B  
TVA letter dated September 29, 2008  
RAI Response

Attachment 02.03.03-05B

(Cover and pages 51 and 52)

FSAR Section 2.3 Appendix 2DD

Figure 2DD-204  
BLN Lower Level (10-m) Wind Direction

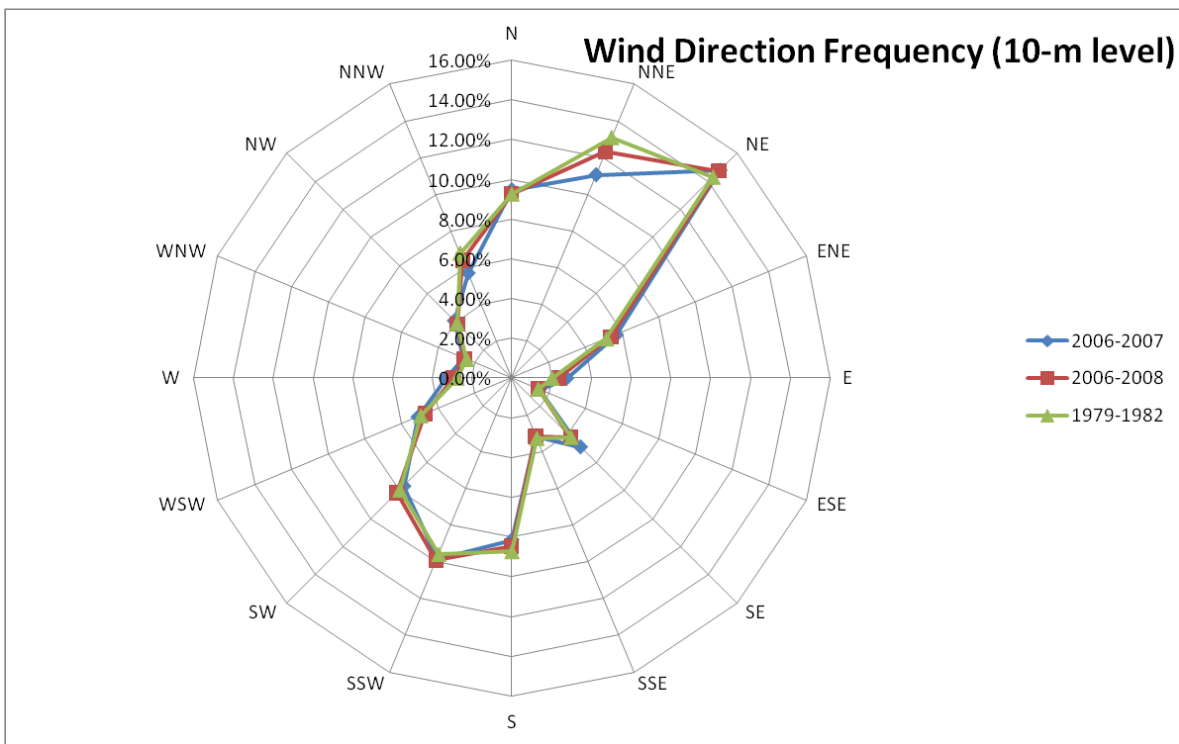
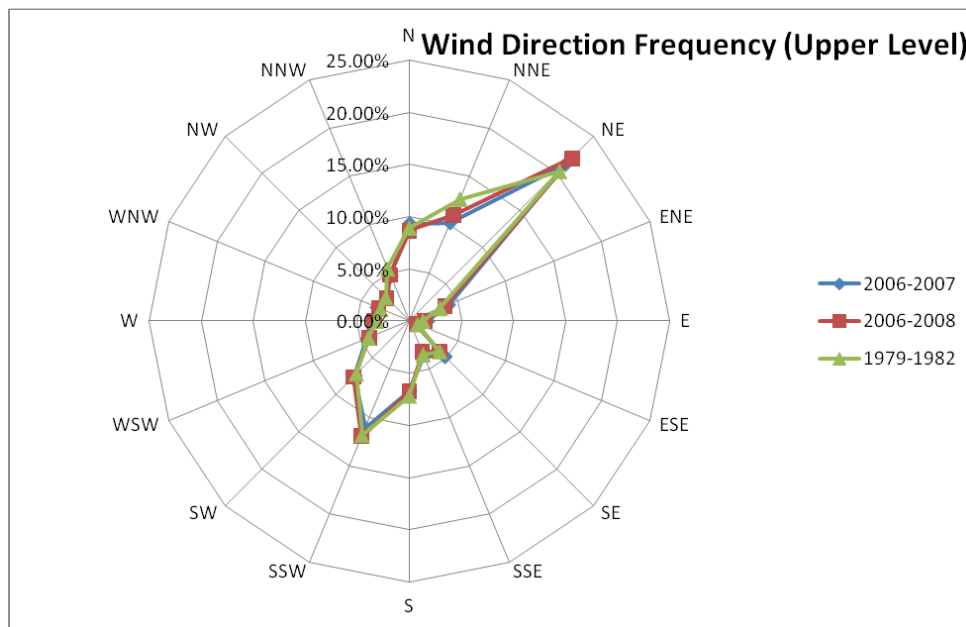


Figure 2DD-205  
BLN Upper Level Wind Direction



Upper Level (1979-1982) = 60-m  
Upper Level (2006-2008) = 55-m