

May 12, 2008

Ms. Andrea L. Sterdis
Manager, Nuclear Licensing & Industry Affairs
Nuclear Generation Development & Construction
Tennessee Valley Authority
1101 Market Street
Chattanooga, Tennessee 37402-2801

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 012 RELATED TO
SRP SECTION 06.04 FOR THE BELLEFONTE UNITS 3 and 4 COMBINED
LICENSE APPLICATION

Dear Ms. Sterdis:

By letter dated September 30, 2007, as supplemented by letters dated November 2, 2007, January 8, 2008 and January 14, 2008, Tennessee Valley Authority (TVA) submitted its application to the U. S. Nuclear Regulatory Commission (NRC) for a combined license (COL) for two AP1000 advance passive pressurized water reactors pursuant to 10 CFR Part 52. The NRC staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 45 days of the date of this letter. If changes are needed to the final safety analysis report, the staff requests that the RAI response include the proposed wording changes.

If you have any questions or comments concerning this matter, you may contact me at 301-415-6191 or you may contact Joseph Sebrosky, the lead project manager for the Bellefonte combined license at 301-415-1132.

Sincerely,

/RA/

Ravindra G. Joshi, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-014
52-015

Enclosure:
Request for Additional Information

CC: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-6191 or you may contact Joesph Sebrosky, the lead project manager for the Bellefonte combined license at 301-415-1132.

Sincerely,

/RA/

Ravindra G. Joshi, Project Manager
 AP1000 Projects Branch 1
 Division of New Reactor Licensing
 Office of New Reactors

Docket Nos. 52-014
 52-015
 eRAI Tracking No. 204

Enclosure:
 Request for Additional Information

Distribution:

Public	CCox	BHughes
RidsNroDnrlNwe1	SCoffin	MComar
RidsNroLAKGoldstein	TSimms	AHodgdon
RidsOgcMailCenter	BAnderson	JLee
RidsAcrsAcnwMailCenter	SSanders	
RidsRgn2MailCenter	JMazza	
JSebrosky	PMoulding	

ADAMS Accession No. ML081330542

NRO-002

OFFICE	CPIB/BC		NWE1/PM	OGC	NWE1/L-PM
NAME	CCox*		R.Joshi*	PMoulding*	JSebrosky*
DATE	4/24/08		5/6/08	5/8/08	5/12/08

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information

Bellefonte Units 3 and 4

TVA

Docket No. 52-014 and 52-015

SRP Section: 06.04 - Control Room Habitability System

Application Section: 6.4

QUESTION from Siting and Accident Consequences Branch

06.04-1

The Bellefonte COL FSAR Table 2.3-321, "Control Room Atmospheric Dispersion Factors for Accident Dose Analysis," provides, among other release points, a release point called "Steam Vent." This term for a release point is not used in the AP1000 DCD, Rev. 16, Table 15A-6, which is the corresponding table in the AP1000 DCD for use in design basis radiological consequences analyses. Please describe which AP1000 DCD Table 15A-6 design reference release point is equivalent to the Bellefonte FSAR Table 2.3-321 release point termed "Steam Vent," and which associated design basis accident analyses use those control room atmospheric dispersion factors. In addition, make the terminology in Bellefonte Table 2.3-321 consistent with that of DCD Table 15A-6.