

PMBelCOL PEmails

From: Tanya Simms
Sent: Wednesday, March 11, 2009 11:43 AM
To: 'rgrumbir@gmail.com'; 'alsterdis@tva.gov'; 'erg-xl@cox.net'; 'pshastings@duke-energy.com'; 'Ray, Phillip M'; 'kslays@duke-energy.com'; 'Bob Hirmanpour'; 'tespink@tva.gov'
Cc: Joseph Sebrosky; PMBelCOL PEmails
Subject: RAI Letter No. 151 Related SRP Section 8.2 for Bellefonte Units 3 and 4
Attachments: BEL-RAI-LTR-151.pdf

To All,

Attached is RAI Letter No. 151 related SRP Section 8.2 for Bellefonte Units 3 and 4. The ADAMS accession number is ML090700362.

Tanya Simms
Project Manager
New Reactor Licensing
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Maryland 20852-2738
301-415-1387
Tanya.Simms@nrc.gov

Hearing Identifier: Bellefonte_COL_Public_EX
Email Number: 1406

Mail Envelope Properties (B4ECC0E252653F48B3F57C3B833465E80E353D8611)

Subject: RAI Letter No. 151 Related SRP Section 8.2 for Bellefonte Units 3 and 4
Sent Date: 3/11/2009 11:42:30 AM
Received Date: 3/11/2009 11:42:31 AM
From: Tanya Simms

Created By: Tanya.Simms@nrc.gov

Recipients:

"Joseph Sebrosky" <Joseph.Sebrosky@nrc.gov>
Tracking Status: None
"PMBelCOL PEmails" <PMBelCOL.PEmails@nrc.gov>
Tracking Status: None
"rgrumbir@gmail.com" <rgrumbir@gmail.com>
Tracking Status: None
"alsterdis@tva.gov" <alsterdis@tva.gov>
Tracking Status: None
"erg-xl@cox.net" <erg-xl@cox.net>
Tracking Status: None
"pshastings@duke-energy.com" <pshastings@duke-energy.com>
Tracking Status: None
"Ray, Phillip M" <pmray@tva.gov>
Tracking Status: None
"kslays@duke-energy.com" <kslays@duke-energy.com>
Tracking Status: None
"Bob Hirmanpour" <bobhirman@live.com>
Tracking Status: None
"tespink@tva.gov" <tespink@tva.gov>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	Size	Date & Time
MESSAGE	400	3/11/2009 11:42:31 AM
BEL-RAI-LTR-151.pdf	128716	

Options

Priority: Standard
Return Notification: No
Reply Requested: Yes
Sensitivity: Normal
Expiration Date:
Recipients Received:

BellefonteRAIsPEm Resource

From: Tanya Simms
Sent: Wednesday, March 11, 2009 11:08 AM
To: BellefonteRAIsPEm Resource
Subject: Request for Additional Information Letter No. 151 Related To SRP Section 08.02 for the Bellefonte Units 3 and 4 Combined License Application
Attachments: BEL-RAI-LTR-151.doc

Hearing Identifier: Bellefonte_COL_RAI_Public
Email Number: 138

Mail Envelope Properties (B4ECC0E252653F48B3F57C3B833465E80E353D860E)

Subject: Request for Additional Information Letter No. 151 Related To SRP Section 08.02
for the Bellefonte Units 3 and 4 Combined License Application
Sent Date: 3/11/2009 11:08:05 AM
Received Date: 3/11/2009 11:08:07 AM
From: Tanya Simms

Created By: Tanya.Simms@nrc.gov

Recipients:
"BellefonteRAIsPEm Resource" <BellefonteRAIsPEm.Resource@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	Size	Date & Time
MESSAGE	3	3/11/2009 11:08:07 AM
BEL-RAI-LTR-151.doc	57338	

Options
Priority: Standard
Return Notification: No
Reply Requested: Yes
Sensitivity: Normal
Expiration Date:
Recipients Received:

March 11, 2009

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. 151 RELATED TO
SRP SECTION 08.02 FOR THE BELLEFONTE UNITS 3 AND 4 COMBINED
LICENSE APPLICATION

Dear Ms. Sterdis:

By letter dated October 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 301-415-1387 or you may contact Joseph Sebrosky, the lead project manager for the Bellefonte combined license at 301-415-1132.

Sincerely,

/RA/

Tanya Simms, 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 301-415-1387 or you may contact Joesph Sebrosky, the lead project manager for the Bellefonte combined license at 301-415-1132.

Sincerely,

/RA/

Tanya Simms, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-014
52-015
eRAI Tracking No. 2108

Enclosure:
Request for Additional Information

Distribution:

Public	RJoshi	BHughes
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RidsRgn2MailCenter	RidsNroDnrlNwe2	BMozafari

NRO-002

OFFICE	EEB/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	RJenkins*	TSimms*	JMartin*	JSebrosky*
DATE	2/10/09	2/24/09	2/24/09	3/11/09

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information No. 2108 Revision 1
Bellefonte Units 3 and 4
Tennessee Valley Authority
Docket No. 52-014 and 52-015
SRP Section: 08.02 - Offsite Power System
Application Section: 08.02

QUESTION from Electrical Engineering Branch (EEB)

08.02-10

RAI-SRP 8.2-EEB-10

The applicant's response to RAI 08-02-02 is inadequate in the following areas:

- a) The applicant stated that the offsite power circuit conductors are designed to withstand a high temperature (normally 120 degrees C) before violating sag clearances, and transmission lines are designed for high winds, typically 110 mph, and for appropriate levels of snow and ice. Specify the levels of snow and ice that these structures and systems may be subjected to during operation based on worst case environmental conditions at the Bellefonte site. Also, describe how structures, systems, and components associated with offsite power system are protected from the effects of missiles that may result from equipment failures (breakers, insulators, etc., that could fail and damage adjacent equipment) in the switchyard area.
- b) With regard to maintenance and testing of the offsite power circuits, the staff notes that the test to verify (automatic and manual) transfer of AC power sources from the normal offsite circuit to an alternate offsite circuit is not included. Include this test in your testing program for switchyard components or provide your justification for not including this test.
- c) With regard to meeting the requirements of 10 CFR 50.65, the applicant referred to FSAR Section 17.6, which incorporates by reference technical report NEI 07-02, "Generic FSAR Template Guidance for Maintenance Rule Program Description for Plants Licensed Under 10 CFR Part 52," for implementation of 10 CFR 50.65. The applicant stated that the program description of this report will determine the applicability of the maintenance requirements for the offsite power system and that this document is currently under review by the NRC staff. It appears from the above statement that the offsite power system and its components will be evaluated for inclusion into the maintenance rule program based on the outcome of the Staff's review of NEI 07-02. The staff requests that the applicant confirm the applicability of the maintenance rule to switchyard components, discuss actions to be taken to limit the risk associated with transmission system degradation and discuss actions required before performing grid-risk-sensitive maintenance activities of switchyard components.
- d) Bellefonte Units 3 and 4 share a common switchyard, please demonstrate that such sharing will not significantly impair the ability of the switchyard components to perform their functions and that the capacity and capability of incoming lines for each required circuit and other switchyard components will be adequately sized.