PMBelCOL PEmails

From: Creek, Carolyn P [cpcreek@tva.gov]
Sent: Tuesday, May 20, 2008 10:21 AM
To: AGAUGHTM@SOUTHERNCO.COM; AMONROE@scana.com; David.Waters@pgnmail.com; erg-xl@cox.net; fbeck@enercon.com; fredwanz@enercon.com; Joseph Sebrosky; jrcassid@duke-energy.com; MCNolan@duke-energy.com; neilhaggerty@comcast.net; Ray, Phillip M; skowkabany@enercon.com; Steve_Franzone@fpl.com; twilli2@entergy.com; William_Maher@fpl.com; x2gabeck@SOUTHERNCO.COM
Cc: crpierce@SOUTHERNCO.COM; don lindgren @ westinghouse ; garry.miller@pgnmail.com; georges.serviere@edf.fr; gzinke@entergy.com; marilyn.kray@exeloncorp.com; Martha.Shields@nuclear.energy.gov; martin_gettler@fpl.com; michael.cazaubon@exeloncorp.com; phinnen@entergy.com; pshastings@duke-energy.com; R Sisk @ Westinghouse ; RCLARY@scana.com; Rebecca.Smith-Kevern@nuclear.energy.gov; rgrumbir@gmail.com; Richard.Reister@nuclear.energy.gov; robert.kitchen@pgnmail.com; sfrantz@morganlewis.com
Subject: Letter to NRC Dated May 16, 2008
Attachments: Reactor Vessel Pressurized Thermal Shock Final.pdf

Find attached the Letter to NRC Dated May 16th - Reactor Vessel Pressurized Thermal Shock

<<Reactor Vessel Pressurized Thermal Shock Final.pdf>>

Carolyn Creek
Management Assistant
Nuclear Generation Development
1101 Market Street, LP 5A
Chattanooga, Tn. 37402
(423) 751-6518 Fax: (423)-751-6509

Hearing Identifier: Bellefonte_COL_Public_EX
Email Number: 819

Mail Envelope Properties (28921B76CDD05940A918AEEC9EBCA7C007B4BEBC)

Subject: Letter to NRC Dated May 16, 2008
Sent Date: 5/20/2008 10:21:05 AM
Received Date: 5/20/2008 10:26:04 AM
From: Creek, Carolyn P

Created By: cpcreek@tva.gov

Recipients:
"crpierce@SOUTHERNCO.COM" <crpierce@SOUTHERNCO.COM>
Tracking Status: None
"don lindgren @ westinghouse " <lindg1da@westinghouse.com>
Tracking Status: None
"garry.miller@pgnmail.com" <garry.miller@pgnmail.com>
Tracking Status: None
"georges.serviere@edf.fr" <georges.serviere@edf.fr>
Tracking Status: None
"gzinke@entergy.com" <gzinke@entergy.com>
Tracking Status: None
"marilyn.kray@exeloncorp.com" <marilyn.kray@exeloncorp.com>
Tracking Status: None
"Martha.Shields@nuclear.energy.gov" <Martha.Shields@nuclear.energy.gov>
Tracking Status: None
"martin_gettler@fpl.com" <martin_gettler@fpl.com>
Tracking Status: None
"michael.cazaubon@exeloncorp.com" <michael.cazaubon@exeloncorp.com>
Tracking Status: None
"phinnen@entergy.com" <phinnen@entergy.com>
Tracking Status: None
"pshastings@duke-energy.com" <pshastings@duke-energy.com>
Tracking Status: None
"R Sisk @ Westinghouse " <sisk1rb@westinghouse.com>
Tracking Status: None
"RCLARY@scana.com" <RCLARY@scana.com>
Tracking Status: None
"Rebecca.Smith-Kevern@nuclear.energy.gov" <Rebecca.Smith-Kevern@nuclear.energy.gov>
Tracking Status: None
"rgrumbir@gmail.com" <rgrumbir@gmail.com>
Tracking Status: None
"Richard.Reister@nuclear.energy.gov" <Richard.Reister@nuclear.energy.gov>
Tracking Status: None
"robert.kitchen@pgnmail.com" <robert.kitchen@pgnmail.com>
Tracking Status: None
"sfrantz@morganlewis.com" <sfrantz@morganlewis.com>
Tracking Status: None
"AGAUGHTM@SOUTHERNCO.COM" <AGAUGHTM@SOUTHERNCO.COM>
Tracking Status: None
"AMONROE@scana.com" <AMONROE@scana.com>
Tracking Status: None
"David.Waters@pgnmail.com" <David.Waters@pgnmail.com>

Tracking Status: None
"erg-xl@cox.net" <erg-xl@cox.net>
Tracking Status: None
"fbeck@enercon.com" <fbeck@enercon.com>
Tracking Status: None
"fredwanz@enercon.com" <fredwanz@enercon.com>
Tracking Status: None
"Joseph Sebrosky" <Joseph.Sebrosky@nrc.gov>
Tracking Status: None
"jrcassid@duke-energy.com" <jrcassid@duke-energy.com>
Tracking Status: None
"MCNolan@duke-energy.com" <MCNolan@duke-energy.com>
Tracking Status: None
"neilhaggerty@comcast.net" <neilhaggerty@comcast.net>
Tracking Status: None
"Ray, Phillip M" <pmray@tva.gov>
Tracking Status: None
"skowkabany@enercon.com" <skowkabany@enercon.com>
Tracking Status: None
"Steve_Franzone@fpl.com" <Steve_Franzone@fpl.com>
Tracking Status: None
"twilli2@entergy.com" <twilli2@entergy.com>
Tracking Status: None
"William_Maher@fpl.com" <William_Maher@fpl.com>
Tracking Status: None
"x2gabeck@SOUTHERNCO.COM" <x2gabeck@SOUTHERNCO.COM>
Tracking Status: None

Post Office: TVACOCXVS1.main.tva.gov

Files	**Size**	**Date & Time**
MESSAGE	319	5/20/2008 10:26:04 AM
Reactor Vessel Pressurized Thermal Shock Final.pdf	477586	

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

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

May 16, 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 NUCLEAR PLANT (BLN) COMBINED LICENSE APPLICATION – RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION (RAI) – REACTOR VESSEL PRESSURIZED THERMAL SHOCK

Reference: Letter from Ravindra G. Joshi (NRC) to Andrea L. Sterdis (TVA), Request for Additional Information (RAI) Letter No. 004 Related to SRP Section 05.03.03 for the Bellefonte Units 3 and 4 Combined License Application, dated April 22, 2008.

This letter provides the Tennessee Valley Authority response to the Nuclear Regulatory Commission RAI items included in the reference letter. The items address the reactor vessel pressurized thermal shock requirements.

The enclosure provides responses to the RAI and identifies changes that will be made in a future revision of the BLN application.

If you should have any questions, please contact Phillip Ray at 1101 Market Street, LP 5A, Chattanooga, Tennessee 37402-2801, by telephone at (423)751-7030, or via email at pmray@tva.gov.

Sincerely,

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

Enclosure

cc: T. A. Bergman, NRC/HQ
R. W. Borchardt, NRC/HQ
M. P. Cazaubon, NuStart
S. M. Coffin, NRC/HQ
S. P. Frantz, Morgan Lewis
R. C. Grumbir, NuStart
P. S. Hastings, NuStart
G. M. Holahan, NRC/HQ
R. H. Kitchen, PGN
M. C. Kray, NuStart
D. B. Matthews, NRC/HQ
V. M. McCree, NRC/RII
E. M. McKenna, NRC/HQ
A. M. Monroe, SCE&G
C. R. Pierce, SNC
L. R. Plisco, NRC
J. M. Sebrosky, NRC/HQ
M. E. Shields, DOE/HQ
R. F. Smith-Kevern, DOE/HQ
G. A. Zinke, NuStart
P. L. Hiland, NRC/NRR/ADES/DE
K.A Kavanagh, NRC/NRO/DCIP/CQVP
J. D. Peralta, NRC/NRO/DCIP/CQVP
C. B. Cook, NRC/NRO/DSER/RHEB
M. Concepcion, NRC/NRO/DCIP/CQVP
K. R. See, NRC/NRO/DSER/RHEB
Y. Malave, NRC/NRO/DSER/RHEB

Enclosure
TVA letter dated May 16, 2008
RAI Responses

Responses to NRC Request for Additional Information
Letter No. 004 Dated April 22, 2008
(3 Pages, including this list)

Subject: Reactor Vessel Pressurized Thermal Shock in the Final Safety Analysis Report

RAI Number	Date of TVA Response
05.03.03-01	This letter – see following pages

Attachments / Enclosures
Pages Included

None

NRC Letter Dated: April 22, 2008

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 05.03.03-01

The as-procured reactor vessel material properties would be available to the COL holder after the acceptance of the reactor vessel. In order to enable timely NRC review of the pressurized thermal shock (PTS) evaluation using the as-procured reactor vessel material properties, please describe whether a more specific and timely milestone for submitting the PTS evaluation to the NRC can be established. If so, please provide.

BLN RAI ID: 0104

BLN RESPONSE:

As indicated in the question, as-procured reactor vessel material properties will be available to the COL holder after the acceptance of the reactor vessel. Related to this subject is the ITAAC in DCD Table 2.1.3-2, item 11, to provide the Charpy upper-shelf energy for the reactor vessel.

The as-procured reactor vessel material properties are expected to be available sufficiently in advance of fuel loading to allow for NRC review of the PTS evaluation. However, in order to provide the more specific and timely milestone requested, the PTS evaluation will be made available at least 18 months prior to fuel load. This commitment will be included as a part of proposed license condition number 6.

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

ASSOCIATED BLN COL APPLICATION REVISIONS:

COLA Part 10, Proposed License Conditions, item 6, will be revised to include an additional specific item such that it reads (the "x" will be replaced with appropriate next letter):

"6. OPERATIONAL PROGRAM READINESS:
The NRC inspection of operational programs will be the subject of the following license condition in accordance with SECY-05-0197: