PMBelCOL PEmails

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Sent: Monday, April 21, 2008 1:53 PM
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Subject: Letter to NRC dated April 17, 2008
Attachments: Letter to NRC dated April 17 - White Paper.pdf

Attached is a copy of the Letter to the NRC dated April 17, 2008 with cover page to the The Hydrologic Analysis or White Paper

The White Paper can be found on eB at: 2008-CWP-0002 AP1000

<<Letter to NRC dated April 17 - White Paper.pdf>>

Carolyn Creek
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Hearing Identifier: Bellefonte_COL_Public_EX
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Subject: Letter to NRC dated April 17, 2008
Sent Date: 4/21/2008 1:53:02 PM
Received Date: 4/21/2008 1:56:41 PM
From: Creek, Carolyn P

Created By: cpcreek@tva.gov

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Files	**Size**	**Date & Time**
MESSAGE	428	4/21/2008 1:56:41 PM
Letter to NRC dated April 17 - White Paper.pdf	445645	

Options
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Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

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

April 17, 2008

10 CFR 52.75

Mr. Joseph M. Sebrosky
U.S. Nuclear Regulatory Commission
Two White Flint North T7E18
11545 Rockville Pike
Rockville, MD 20852-2738

In the Matter of	)	Docket Numbers 52-014 and 52-015
Tennessee Valley Authority	)	

NUCLEAR REGULATORY COMMISSION (NRC) – BELLEFONTE NUCLEAR PLANT (BLN) – REVIEW OF BLN APPLICATION - WHITE PAPER - HYDROLOGIC ANALYSIS DESCRIPTION

Reference Letters:

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 Bailey (TVA) to Mr. R. William Borchardt (NRC), TVA Plan for Addressing NRC-Identified Issues Regarding BLN's Hydrology Calculation, March 14, 2008.

The purpose of this letter is to transmit to the NRC the (BLN) whitepaper entitled, "Hydrologic Analysis Description." This whitepaper completes the corresponding commitment for a whitepaper as described in the March 14, 2008, TVA letter to NRC (Reference Letter 2). The contents of the whitepaper will be further discussed with the NRC in a public meeting on April 25, 2008.

TVA has developed the enclosed Hydrology Analysis Description to aide the NRC in their review of the probable maximum flood (PMF) calculation contained in the BLN Units 3&4 Combined License (COL) application (Reference Letter 1).

The whitepaper describes the methods, procedures, and programs (computer codes) used to determine the design basis flood level at the BLN site. TVA's model uses a total of nine computer codes to develop the inputs and outputs that produce elevation and discharge hydrographs at the BLN site including the Simulated Open Channel Hydraulic (SOCH) Code.
This whitepaper also discusses consideration of flooding from both severe hydrometeorological conditions and seismic activity to meet the criteria set forth in Regulatory Guide 1.59 Appendix A which has been replaced by American National Standards Institute (ANSI) ANSI/ANS-2.8-1992.

This submittal is intended to aide the NRC reviewer in understanding the SOCH model and expedite the review of the corresponding application sections. Further efforts are in progress to support the remaining commitments included in the March 14, 2008, TVA letter to NRC (Reference Letter 2). TVA intends to update the whitepaper to address NRC comments and questions during the week of May 26, 2008. These efforts are expected to support the June 2008 NRC site visit.

TVA respectfully requests NRC comments within two weeks of receipt of this letter. If there are any questions regarding this application, 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: See page 3.

cc (Enclosure):

T. A. Bergman, NRC/HQ
R. W. Borchardt, NRC/HQ
M. P. Cazaubon, NuStart
S. M. Coffin, NRC/HQ
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Bellefonte Nuclear Plant

White Paper

Hydrologic Analysis Description

Tennessee Valley Authority

April 18, 2008