

PMBelCOL PEmails

From: Spink, Thomas E [tespink@tva.gov]
Sent: Wednesday, December 30, 2009 12:50 PM
To: Spink, Thomas E; Sebrosky, Joseph; Comar, Manny
Cc: Sterdis, Andrea Lynn; erg-xl@cox.net; Ryan, William T III; Curtis, Gary W
Subject: RE: Hydrology Status Report - With Attachment
Attachments: BLN Letter on Hydrology 12 28 09 w_signature.pdf

Sorry

From: Spink, Thomas E
Sent: Wed 12/30/2009 10:04 AM
To: Joseph Sebrosky; Comar, Manny
Cc: Sterdis, Andrea Lynn; Eddie Grant (erg-xl@cox.net); Ryan, William T III; Curtis, Gary W
Subject: Hydrology Status Report

Joe and Manny,

Please find attached as a courtesy the updated hydrology status report. This letter should be delivered via FedEx today. Also, I am pleased to inform you that the Bellefonte PMF calculation has been approved. Reaching this milestone is a significant accomplishment and should ensure that updated FSAR Section 2.4 will be submitted as indicated in the status letter.

If you have any question, please call me.

Hearing Identifier: Bellefonte_COL_Public_EX
Email Number: 1746

Mail Envelope Properties (B648F67990B15146B8646584D20B8DD10A27D57E)

Subject: RE: Hydrology Status Report - With Attachment
Sent Date: 12/30/2009 12:49:31 PM
Received Date: 12/30/2009 12:50:48 PM
From: Spink, Thomas E

Created By: tespink@tva.gov

Recipients:

"Sterdis, Andrea Lynn" <alsterdis@tva.gov>
Tracking Status: None
"erg-xl@cox.net" <erg-xl@cox.net>
Tracking Status: None
"Ryan, William T III" <wtryan@tva.gov>
Tracking Status: None
"Curtis, Gary W" <gwcurtis2@tva.gov>
Tracking Status: None
"Spink, Thomas E" <tespink@tva.gov>
Tracking Status: None
"Sebrosky, Joseph" <Joseph.Sebrosky@nrc.gov>
Tracking Status: None
"Comar, Manny" <Manny.Comar@nrc.gov>
Tracking Status: None

Post Office: TVACOCXVS2.main.tva.gov

Files	Size	Date & Time
MESSAGE	675	12/30/2009 12:50:48 PM
BLN Letter on Hydrology 12 28 09 w_signature.pdf		261995

Options

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



L58 091228 001

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

December 28, 2009

10 CFR 52.3

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

In the Matter of)
Tennessee Valley Authority)

Docket Nos. 52-014 and 52-015

**BELLEFONTE COMBINED LICENSE APPLICATION – PERIODIC UPDATE–
HYDROLOGY**

References: (1) April 29, 2009 meeting summary from J. Sebrosky (NRC), “Summary of March 30, 2009, Public Meeting to Discuss Hydrology Review Associated with the Bellefonte combined License Application.”

(2) Letter from Andrea L. Sterdis (TVA) to Document Control Desk (NRC), Bellefonte Combined License Application-Periodic Update-Hydrology, Dated October 16, 2009.

The enclosure to this letter provides Tennessee Valley Authority’s (TVA’s) update to the status information provided in reference (2) for the BLN Units 3&4 Hydrology Probable Maximum Flood (PMF) Confirmation Project (Reference 1).

If you should have any questions, please contact Tom Ryan at 1101 Market Street, LP5A, Chattanooga, Tennessee 37402-2801, by telephone at (423) 751-2596, or via email at wtryan@tva.gov.

Sincerely,

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

Enclosures
cc: See Page 2

Document Control Desk

Page 2

December 28, 2009

cc: (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 Enclosures)

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
L. Raghavan, NRC/HQ
T. Boyce, NRC/HQ

BLN Hydrology Project Status (05.11.2009)

On March 30, 2009, the NRC and TVA met to discuss TVA's ongoing efforts to confirm the hydrology probable maximum flood (PMF) level calculation utilized in the BLN 3&4 COL application (Reference 1). During that meeting, TVA presented the status of the confirmation project, including a listing of the input calculations that had been completed and approved by TVA, as well as the target schedule for the remaining calculations.

Consistent with the commitment made at the March 30, 2009 meeting, the updated status information is provided as Enclosure 2. The updated status utilizes the table provided at the March 30, 2009 meeting (refer to slide 10 from the presentation material included in the referenced meeting summary). Footnotes are provided to briefly describe the deliverables and to explain any changes from the status provided on March 30, 2009.

Consistent with commitments made at the March 30, 2009 meeting, TVA is providing the following discussion of an identified issue resulting from ongoing PMF confirmation work. Accordingly, TVA is adding Wheeler Reservoir to the BLN PMF model to determine the Guntersville Dam tailwater effect. The original plan was to take a conservative approach to account for the tailwater effect at Guntersville. While this approach was expected to provide conservative results, modeling the Wheeler reservoir will provide a more defined tailwater effect at Guntersville. The inclusion of Wheeler reservoir has added calculations to document 15 UHs, Wheeler dam rating curves, approximately 43 channel geometry cross sections, as well as revisions to precipitation data, reservoir storage tables, and operating guidelines. This scope increase is being factored into the project P3 schedule in a manner that will avoid delaying completion of the BLN PMF confirmation project.

BLN Hydrology Supplementary Status (12.28.2009)

In addition to the schedule status update, TVA is providing the following information to address the actions documented in the NRC meeting summary for March 30, 2009 (Reference 1):

- 1) Action for TVA to provide the staff with updates regarding its reanalysis effort every six weeks (note this timeframe is an approximation rather than committed frequency).

TVA Response - This letter is the third update. The next update is anticipated to be by letter on or around February 17, 2010, if necessary.

2) The NRC requested on the phone call held on October 8, 2009 the date when TVA intends to provide revised RAI responses and also FSAR Revisions to Chapter 2.4 of the BLN COLA.

TVA-Response-TVA plans to submit the FSAR Section 2.4 Revision by January 15, 2010. This will include sections 2.4.1, 2.4.2 and 2.4.3. Section 2.4.4 will be made available by February 26, 2010. RAI 62, 084, 145 and 158 revisions are currently scheduled for January 29, 2010. RAI 110 will be submitted by February 26, 2010.

3.) The NRC requested on the phone call held on October 8, 2009 an update on the status of TVA's resubmittal of SOCH input data that has been provided to the staff. Several of the letters containing the input data have been rejected by the NRC's document control desk because the disks that accompany the submittal do not comport with NRC expectations.

TVA Response- TVA has currently submitted and docketed with the NRC's document control desk RAI's 160 Supplement 1 and 2. TVA also recently submitted RAI 160 Supplement 3. TVA plans to resubmit, in similar format, RAI responses RAI 145 and RAI 158 so as to be acceptable by the NRC's document control desk by January 29, 2010.

5) The NRC requested on the phone call held on October 8, 2009 feedback to whether TVA remains on track to complete the reanalysis in December 2009 and can support an inspection in January 2010.

TVA Response- Recent schedule revisions by the NRC have moved the planned inspection from January to May of 2010. TVA can support the inspection in the planned May 2010 timeframe.

6) The NRC requested on the phone call held on October 8, 2009 the status of TVA's RAI response to provide information related to the Wheeler reservoir so that the staff can develop its confirmatory model for this portion of the river.

TVA Response- RAI 160 Supplement 1, Supplement 2 and Supplement 3 have been submitted to the NRC.

7) The NRC requested on the phone call held on October 8, 2009 what future interactions envisioned regarding TVA's PMF and dam breach reanalysis. The staff indicated that it had some questions regarding TVA's input data. The staff stated that the questions centered around files that were present on the disks and how they were used. The staff stated that it would develop the questions and email the questions to TVA. The questions would serve as an agenda for a phone call with TVA. The phone call results would be documented in a phone call summary. The staff intends to issue a separate RAI if any of the questions require a formal written response from TVA.

Enclosure 1
TVA letter dated December 28, 2009

TVA Response-TVA requested a future face-to-face meeting to discuss TVA's hydrology reanalysis. TVA is available to discuss questions on inputs and calculations after the middle of November 2009. There has been no change in this item.

8) During the phone call held on October 8, 2009, the need was raised for TVA to provide a table showing the calculations submitted to date, the current revisions numbers and the pending revisions.

TVA Response-This item was provided in an email provided from Tom Spink to Joe Sebrosky on December 3, 2009 at 1552 EST.

Reference 1

Deliverable	TVA Approved (06/30/09)	Completion Projection^h
V&V Documents ^a	16 of 16 docs	Complete
Unit Hydrograph (UH) Calculations - Rev 0 ^b	17 of 17 calcs	Complete
UH Calculations - rev 1 ^c	5 of 5 calcs	Complete
Dam Rating Curves Calculations	20 of 20 calcs	Complete
Channel Geometry Calculations ^d	7 of 7 calcs	Complete
SOCH Calibration Calculations ^e	6 of 6 calcs	Complete
Precipitation Data Processing (1997-2008 NWS) - Rev 1	1 of 1 calc	Complete
Precipitation Data Processing (1973 Storm)	1 of 1 calc	Complete
Reservoir Storage Tables	1 of 1 calc	Complete
Rain Runoff Index ^f	1 of 1 calc	Complete
Operating Guidelines ^g	1 of 1 calc	Complete
Wheeler Work Scope ⁱ	11 of 11 items ¹	Complete

^a Complete

^b Complete

^c Complete

^d Complete

^e Complete

^f Complete

^g Complete

^h Complete

ⁱ Complete.