

PMBelCOL PEmails

From: Sebrosky, Joseph
Sent: Friday, October 09, 2009 10:20 AM
To: 'Spink, Thomas E'
Cc: PMBelCOL PEmails
Subject: FW: Summary of October 8, 2009, Phone Call With the Tennessee Valley Authority (TVA) to Discuss the Status of the Bellefonte 3/4 Hydrology Review

[Tom - for your information - joe](#)

From: Sebrosky, Joseph
Sent: Friday, October 09, 2009 6:26 AM
To: PMBelCOL PEmails
Cc: Cook, Christopher; Brown, Eva; Fetter, Allen; See, Kenneth
Subject: Summary of October 8, 2009, Phone Call With the Tennessee Valley Authority (TVA) to Discuss the Status of the Bellefonte 3/4 Hydrology Review

Memo To: 52-14, and 52-15 Docket File

From: Joe Sebrosky, Project Manager
AP1000 Projects Branch 1 (NWE1)
Division of New Reactor Licensing
Office of New Reactors

Subject: Summary of October 8, 2009, Phone Call With the Tennessee Valley Authority (TVA) to Discuss the Status of the Bellefonte 3/4 Hydrology Review

The purpose of the call was to discuss TVA's plans for updating the staff regarding the status of the Bellefonte 3 and 4 hydrology reanalysis and to discuss near term (next 5 month interactions).

The NRC attendees were: Chris Cook, Ken See, Allen Fetter, Eva Brown and Joe Sebrosky
TVA attendees were: Tom Spink, Perry Maddux, Gary Curtis, Ken Spates, Tom Ryan, Andrea Sterdis, Penny Selman
Barge Waggoner (TVA consultant): Kerry Stokes

The topics discussed during the meeting were as follows:

1) Whether or not TVA will provide a status letter to the NRC regarding the hydrology reanalysis similar to what they have done in the past (see TVA hydrology status updates dated 5/15/09, and 7/8/09 (ADAMS accession number ML091390057, and ML091910253, respectively)).

Answer: During the call TVA informed the staff that it was their intention to provide a status letter update by October 16, 2009. The status letter update will include when TVA expects to finish its reanalysis effort and schedules for when the revised request for additional information responses and changes to the final safety analysis report based on the results of the reanalysis will be provided to the staff.

2) Discuss TVA's request to brief the staff on the use of U.S. Army Corp of Engineers' (USACE) Hydrologic Engineering Centers Hydrologic Modeling System (HEC-HMS) code in conjunction with TVA's Simulated Open Channel Hydraulics (SOCH) code to support the reanalysis. TVA used SOCH to calculate the probable maximum flood (PMF) and dam breach flood levels for the Bellefonte 3/4 site.

Answer: TVA indicated that it used the HEC-HMS tool to validate their unit hydrograph inputs and used the USACE's Hydrologic Engineering Centers River Analysis System (HEC-RAS) code to obtain a steady state profile to compare to SOCH as part of its calibration of SOCH. TVA and the staff agreed that a face-to-face meeting with TVA to discuss how TVA used HEC-HMS, and HEC-RAS, as well as how other parts of the Tennessee River watershed were modeled would be helpful.

3) Whether TVA remains on track to complete the reanalysis in December 2009 and can support an inspection in January 2010.

Answer: TVA indicated that it was on track to complete its reanalysis by mid-December and should be able to support an inspection by January 2010.

4) What is 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.

Answer: TVA indicated that portions of the input data would be available to the staff within the next week or two, with other portions of the input information provided to the staff by late October or early November

5) What is 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 guidance.

Answer: TVA is working the NRC's document control desk to correct the problem and will provide a revised version of the letters that meet NRC guidance. TVA indicated that they hope to have the problem corrected in the near term. TVA also indicated that some of the input data that was previously provided to the NRC has changed. TVA indicated that it will provide a separate letter detailing the information that has changed and the reason that the information changed.

6) What are the future interactions envisioned regarding TVA's PMF and dam breach reanalysis.

Answer: 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. There was also a discussion that a future face-to-face meeting to discuss TVA's hydrology reanalysis was appropriate. Both TVA and the staff agreed that a face-to-face meeting was appropriate to discuss how the reanalysis was performed and the results of the reanalysis. TVA indicated that because the final results will not be available until December, a face-to-face meeting to discuss the results of the reanalysis would have to be performed after this date. TVA indicated that if the staff believed there is benefit in having a meeting on the input data used to support the reanalysis, TVA could support a meeting earlier than December. The staff stated that there maybe some benefit in combining a face-to-face meeting with the QA inspection tentatively scheduled for January. The staff and TVA agreed that for the interim, attempts would be made to answer questions regarding the input data over the phone. A face-to-face meeting will be considered if the staff's questions are better answered using this forum.

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Tracking Status: None
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