

## PMBelCOL NPEmails

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**From:** Simms, Tanya  
**Sent:** Tuesday, January 19, 2010 9:31 AM  
**To:** 'tespink@tva.gov'  
**Cc:** Chuang, Tze-Jer; Comar, Manny; PMBelCOL NPEmails  
**Subject:** Proposed write-up for Bellefonte Open Item 9.2-1

Thank you for the call. Following is the write-up that Jerry has indicated he will submit as a revision. He wants you to be mindful that this open item is still contingent on the resolution of hydrologic engineering issues identified as Open Item 2.4-1.

There is, however, a possibility of external flooding caused by severe environmental events such as hurricanes or tornadoes. The staff has evaluated the RWS intake structure described in BLN COL FSAR Section 9.2.11.2.2, "Component Description," and concluded that the failure of the intake structure would not impact the ability of safety-related systems to perform their intended functions. The applicant is currently performing an evaluation of the PMF, the results of which will be available in December 2009. **In addition, review of Sections 3.3.2, 3.4.2, and 3.5.3 in the AP1000 DCD Rev. 17 FSAR showed that an additional one-foot flood level on top of Probable Maximum Flood (PMF) could result as a consequence of failure of water tanks in the radwaste building during a tornado or hurricane event (see DCD OI-SRP3.7.2-SEB1-02).** Under this scenario, the RWS pumps and ancillary raw water pumps will likely not function well as they will be emerged in water. The site-specific PMF level was addressed in BLN COL FSAR Section 2.4.1. The resolution of hydrologic engineering issues is identified as **Open Item 2.4-1**. The staff cannot come to a conclusion regarding the acceptability of the intake structure until Open Item 2.4-1 is resolved. This is **Open Item 9.2-1**.

The open item on PMF is indeed related to OI 2.4-1 which belongs to hydrology. However, you mentioned the TVA concern on tank failure which is an open item in DCD OI-SRP3.7.2-SEB1-02. (The concern from TVA is an extra one foot of flood level on top of PMF).

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**From:** Simms, Tanya

**Created By:** Tanya.Simms@nrc.gov

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