

HLWYM HEmails

From: Hakan Basagaoglu
Sent: Monday, February 25, 2008 12:33 PM
To: James Myers
Cc: David Brooks; Christopher Markley
Subject: questions

All,

I have attached my brief responses to the questions below. Thank you.

Hakan

1) What FEP(s) for each topic is (are) most important to estimating performance?

[2.1.08.07.OA \(Unsaturated Flow in the Engineered Barrier System\)](#)

2) What are the significant uncertainties for the FEPs significant to performance?

[Uncertainties in water volume \(and rate\) diverted at the drip shield ceiling and waste packages](#)

3) What FEP(s) has DOE excluded that might be expected to be controversial?

[I agree with DOE for the exclusion of 2.1.08.14.OA \(condensation on underside of drip shield\)](#)
[2.1.08.09.OA \(saturated flow in the EBS\)](#)

[I need to talk with the corrosion people/group regarding 2.1.01.10.OA and 2.1.03.10.OB \(the healing process mentioned in these FEPs are beyond my expertise\)](#)

4) What aspect(s)/FEP(s) of each topic/abstraction has (have) the strongest technical basis?

[2.1.08.07.OA \(Unsaturated Flow in the Engineered Barrier System\)](#)

5) What aspect (s)/FEP(s) of each topic/abstraction has (have) the weakest technical basis?

[2.1.08.06.OA \(Capillary effects \(wicking\) in EBS.](#)

[At this point, I am not totally convinced about the underlying physical mechanism and its importance to the risk.](#)

[I asked PA's to check the relative magnitude of the capillary driven flow from invert to waste package in comparison to the unsaturated EBS flow from GOLDSIM base-case simulations, but we have not located this information yet.](#)

6) What information (related to significant FEPs) are you expecting from other review teams (See Table 1A)?

[Infiltration approaching the drip shield \(from UZ1 + UZ2\)](#)

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