

**From:** Randall Fedors  
**To:** "Jin-Ping Gwo" <jxg4@nrc.gov>  
**Date:** 2/28/2008 5:01:47 PM  
**Subject:** Re: UZ2 SER comments  
**cc:** "Eugene Peters" <EMP2@nrc.gov>,"John Bradbury" <JWB@nrc.gov>,<LSN Reviews@nrc.gov>

Thanks.

1. I modified the integration part of UZ2 slightly, but also am cc:'ing Bradbury to make sure he accounted for the linkage of UZ3 with SZ2 for water table rise and it's connection to radionuclide transport.
2. Already changed because of your verbal comment yesterday.
3. From our perspective, we can use our own experiments and models to give us confidence in our evaluation of DOE's results. Thus, we need to mention them in the SER as part of our evaluation of the DOE UZ model results. I think the picture is different than that for how TPA is to be used.

--Randy

>>> Jin-Ping Gwo 02/28/08 9:07 AM >>>  
Randy,

I think you did an admirable job on the outline. The following are a few comments which may not affect the overall contents of the outline:

Introduction: Output to SZ1 - In DOE's TSPA, is output to SZ1 methodologically consistent among various climate states? In particular, under groundwater table rise scenarios, how consistently does DOE treat the recharge and how it may impact source term input to SZ2?

Ambient Mountain-Scale Flow: Above Repository - There are four flow fields under each climate state in TSPA-SEIS and I assume it will remain so with LA.

Capillary Diversion Around Drifts and Moisture Transfer and Condensation: regarding the use of NRC alternative model and experimental and model results - it's not clear how you are going to use them in the SER. I guess this is a topic we need to have some discussion and strategy as to what extent and in what format that we want to use our data and calculations in addressing our concerns regarding DOE's technical basis and credits taken. My understanding from PA's position is that our data and calculations are to inform our review, but we did not get into the details of 'informing' in terms of writing up the SER.

Please let me know when the UZ1 outline is ready and where to find it. Thanks.

Regards,  
Jack

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**From:** Randall Fedors

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**Recipients**

"Eugene Peters" <EMP2@nrc.gov>  
"John Bradbury" <JWB@nrc.gov>  
<LSN Reviews@nrc.gov>  
"Jin-Ping Gwo" <jxg4@nrc.gov>

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