

## HLWYM HEmails

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**From:** James Winterle  
**Sent:** Thursday, March 15, 2007 6:56 PM  
**To:** Hakan Basagaoglu; [REDACTED]  
**Cc:** Randall Fedors; James Mancillas; Osvaldo Pensado; David Pickett  
**Subject:** RE: Problem with Test #1

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hakan,

This is a known artifact of the source term model of the code. In any single realization the difference between 10ky, 100ky, and 100ky might be significant, but is always in a manner that is conservative such that the longer times result in an overestimated dose. While the differences were significant in the plot you showed for a single realization, what we really need to assess is whether this difference is substantial in a 500 realization run. I see that Test 1 in your validation report says to check this but there is no requirement to check this in the validation plan scope for this task. Osvaldo should be checking this for the S-2 system level test, so you might consider referring to those results. Or, if you can confirm that this will be tested by the system-level team, you may consider deleting Test 1 from your planned test cases.

I think you are doing a good job of getting familiar with this code.

--Jim

-----Original Message-----

**From:** hbasagaoglu [mailto:hbasagaoglu@cnwra.swri.edu]  
**Sent:** Thursday, March 15, 2007 4:24 PM  
**To:** jwinterle@cnwra.swri.edu; [REDACTED]  
**Cc:** rwf@nrc.gov; 'James Mancillas'; Osvaldo Pensado  
**Subject:** Problem with Test #1

All,

It looks like the model results (the total doses and infiltration) vary with the simulation length chosen. Please see the plots in the attached file and let me know of your thoughts.

Should I move to the next validation test? or should I wait until this problem gets fixed?

Thanks,

Hakan

**Hearing Identifier:** HLW\_YuccaMountain\_Hold\_EX  
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**Subject:** RE: Problem with Test #1  
**Sent Date:** 3/15/2007 6:55:49 PM  
**Received Date:** 3/15/2007 6:55:49 PM  
**From:** James Winterle

**Created By:** jwinterle@cnwra.swri.edu

**Recipients:**

"Randall Fedors" <Randall.Fedors@nrc.gov>  
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Tracking Status: None  
"Hakan Basagaoglu" <hbasagaoglu@cnwra.swri.edu>  
Tracking Status: None  
"██████████" <██████████>  
Tracking Status: None

**Post Office:** cnwra.swri.edu

Files	Size	Date & Time
MESSAGE	1539	3/15/2007 6:55:49 PM

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