

HLWYM HEmails

From: Randall Fedors
Sent: Thursday, June 21, 2007 5:47 PM
To: Chandrika Manepally
Cc: 'hbasagaoglu@swri.org'
Subject: RE: Action: Seepage Workshop Report - Thermal Conductivity Range in TPA

Not sure how this was resolved, I'm still concerned about using 2.30 W/m-K.

I thought I remembered asking about a TPA simulation to support multiflo's estimate using a constant thermal conductivity. Scott's plot is comparing multiflo (variable Kth) to multiflo (constant Kth). It does look like he used a constant percolation rate for the constant Kth simulation, but I thought I remember him saying otherwise. It is the TPA abstraction that needs to be matched with the TH simulation result. Scott assumes his multiflo representation with constant Kth provides the same result as the TPA abstraction.

--Randy

>>> Chandrika Manepally <cmanepally@cnwra.swri.edu> 06/21/07 5:33 PM >>>

Randy

Don't worry about calling us.. see Hakan's email sent later in the day. He took care of everything!

-Chandrika

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

From: Randall Fedors [mailto:rwf@nrc.gov]

Sent: Thursday, June 21, 2007 4:30 PM

To: Chandrika Manepally

Cc: hbasagaoglu@swri.org

Subject: Re: Action: Seepage Workshop Report - Thermal Conductivity Range in TPA

I'll call tomorrow (Friday), though I'm off again so don't call my office. Today was a sick day, tomorrow was a leave day to recuperate.

I don't have Hakan's number.

--Randy

>>> Chandrika Manepally <cmanepally@cnwra.swri.edu> 06/21/07 11:44 AM

>>>

Randy

The following email is the info used to define the range for kth. We are planning to include related text in the seepage workshop report.

Based on this, we changed the previous triangular distribution [1.20, 1.73, 2.13] to uniform [1.90-2.30].

In Scott's analysis, kwet = 2.13.

Need some text to provide technical basis for the current range and values.

Could you please call me or Hakan when you get a chance?

Thank you,

Chandrika

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

From: Scott Painter [mailto:spainter@cnwra.swri.edu]

Sent: Thursday, March 01, 2007 1:02 PM

To: 'Randall Fedors'; 'David Pickett'; 'hbasagaoglu'; 'Stuart Stothoff'; 'Chandrika Manepally'

Cc: 'Chandrika Manepally'; 'Kaushik Das'; 'Osvaldo Pensado'

Subject: RE: Seepage Workshop Summary

Randy,

See the figure below. This is temperature at drift crown for intact drift.

The blue is MULTIFLO TH result with unit-by-unit variability in K, perm, etc. The red are constant (in space and time) thermal cond, which is equivalent to the abstraction. Starting with the top curve, the red curves are k=kdry, k=0.9 kwet, k=kwet, k=1.1 kwet.

Scott

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

From: Randall Fedors [mailto:RWF@nrc.gov]

Sent: Thursday, March 01, 2007 12:31 PM

To: David Pickett; hbasagaoglu; Stuart Stothoff; 'Chandrika Manepally'

Cc: Chandrika Manepally; Kaushik Das; Osvaldo Pensado; Scott Painter

Subject: Re: Seepage Workshop Summary

Hakan,

Did these values already show up in Pickett's (EBSREL) and Myers' (NFENV)

spreadsheets for TPA parameters? I saw the Pickett sent out a spreadsheet, but I didn't check all the values for our parameters.

Can I see the plots of the metra runs compared to the conduction results; i.e., Scott could have compared two metra simulations, one with Kth being a function of saturation, and the other with a constant Kth. What we want to make sure we're doing is to compare the metra result with output from the TPA conduction model. And we don't want to compare the peaks, but rather the decay slope from about 500 to 4000 years.

Thanks,

Randy

>>> hbasagaoglu <hbasagaoglu@cnwra.swri.edu> 03/01/2007 12:02 PM >>>

All,

Attached is the most revised version of the parameter values based on the discussion at the Seepage workshop and afterwards

(the attached file includes only two changes on the version Chandrika sent out after the seepage workshop).

1) In Section A. Flow Factors

SubareaWetFraction.

It has been changed to 'loguniform', based on Stu's feedback

2) In Section D. Other Parameters

ThermalConductivityofYMRock

It has been changed to a 'uniform distribution' with values in the range of 1.9-2.3.

The changes were based on METRA simulations Scott has provided.

Thank you.

Hakan

Hearing Identifier: HLW_YuccaMountain_Hold_EX
Email Number: 148

Mail Envelope Properties (Randall.Fedors@nrc.gov20070621174729)

Subject: RE: Action: Seepage Workshop Report - Thermal Conductivity Range in TPA
Sent Date: 6/21/2007 5:47:29 PM
Received Date: 6/21/2007 5:47:29 PM
From: Randall Fedors

Created By: Randall.Fedors@nrc.gov

Recipients:
"hbasagaoglu@swri.org" <hbasagaoglu@swri.org>
Tracking Status: None
"Chandrika Manepally" <cmanepally@cnwra.swri.edu>
Tracking Status: None

Post Office:

Files	Size	Date & Time
MESSAGE	4235	6/21/2007 5:47:29 PM

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received: