From: Osvaldo Pensado
Sent: Tuesday, February 27, 2007 12:16 PM
To: Randall Fedors; Hakan Basagaoglu; James Winterle
Cc: Chandrika Manepally
Subject: RE: SeepageThresholdT[C]

Few comments ...

For triangular(100,102,125), CDF=0.5 is located at 108.044C (see the second plot in Hakan's attachment). Thus, there has to be something wrong with the attachment formula to compute the median.

I got the point, there is nothing special about 105C other than being a judgement value.

Although corrosion formulas are extrapolated, my opinion is that extrapolation is okay whithin certain bounds. Up to 120C, extrapolation is okay, but not far beyond.

If the only thing we are seeking is loading the distribution to the left, then we should use triangular(100,101,120) or triangular(100,101,125).

Do not try the logarithmic alternatives (log-uniform or log-triangular) as those are nearly identical to the linear counterparts in that temperature range. Any other distribution requires information we do not have.

Thus, please vote triangular(100,101,120) or triangular(100,101,125)?

I am okay with either choice.

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-----Original Message-----
From: Randall Fedors [mailto:RWF@nrc.gov]
Sent: Tuesday, February 27, 2007 10:43 AM
To: 'hbasagaoglu'; James Winterle; Osvaldo Pensado
Cc: Chandrika Manepally
Subject: Re: SeepageThresholdT[C]

Osvaldo,

If I follow the argument, then the distribution should bounded by 110 C; e.g., [100, 105, 110]. The supporting basis would then have to include an explanation of the limits on the corrosion equation. I am not proposing we do this.

Note there is nothing supporting the 105, other than the staff judgement that distribution between 100 and 120 should be biased towards the low end. We still have to address the

thermocouple data, which is the only quantitative information we have (the rest of the breaching observations cannot be nailed inconclusively to a temperature).

--Randy

>>> Osvaldo Pensado <opensado@cnwra.swri.edu> 02/26/2007 6:19 PM >>>
The distribution SeepageThresholdT[C]=triangular(100, 105, 125) is centered around 110°C (see attachment).

I'd prefer a distribution more centered close to 105°C (as originally intended). I cannot accomplish that unless the lower bound is moved a bit. See the attachment for another proposal.

My main concern is with the extrapolation of the corrosion equations. Beyond 110°C, corrosion equations are extrapolated.

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-----Original Message-----
From: hbasagaoglu [mailto:hbasagaoglu@cnwra.swri.edu]
Sent: Monday, February 26, 2007 9:37 AM
To: Osvaldo Pensado; James Winterle
Cc: Chandrika Manepally
Subject: Seepage Workshop Phase 2- Summary and Action Items_Version2-Feb23

Osvaldo and Jim,

I just wonder if you have any concerns and/or suggestions on the parameter list, values, and the technical basis included in the attached file Chandrika e-mailed you last week. Thanks,

Hakan

Hearing Identifier: HLW_YuccaMountain_Hold_EX
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Subject: RE: SeepageThresholdT[C]
Sent Date: 2/27/2007 12:15:31 PM
Received Date: 2/27/2007 12:13:00 PM
From: Osvaldo Pensado

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"Chandrika Manepally" <cmanepally@cnwra.swri.edu>
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