

## HLWYM HEmails

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**From:** James Winterle  
**Sent:** Thursday, September 04, 2008 8:55 AM  
**To:** Osvaldo Pensado; David Pickett  
**Cc:** Ronald Janetzke; LSNReviews  
**Subject:** FW: availability of TPA 5.1 user guide and TPA5.1a code  
**Attachments:** FW: availability of TPA 5.1 user guide and TPA5.1a code

FYI. Please see below and attached regarding different approach for estimating glass dissolution rates in LA compared to what we used in our TPA.

--Jim

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**From:** Bret Leslie [mailto:Bret.Leslie@nrc.gov]  
**Sent:** Thursday, September 04, 2008 6:58 AM  
**To:** James Winterle  
**Cc:** LSNReviews; Bret Leslie  
**Subject:** RE: availability of TPA 5.1 user guide and TPA5.1a code

Jim,

I got back to Jun (attached). Note that two different approaches were used between the two versions of the AMR (I reviewed them this AM). It would appear that TPA greatly overestimates the dissolution rate of glass at a pH five, relative to the approach used in the LA. Please forward this note to Center staff reviewing the DOE glass dissolution model so that if they run independent calculations with TPA, and if the values differ greatly, they can understand a potential reason for that difference.

thanks,

Bret

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**From:** James Winterle [mailto:jwinterle@cnwra.swri.edu]  
**Sent:** Wednesday, September 03, 2008 5:04 PM  
**To:** Bret Leslie  
**Subject:** RE: availability of TPA 5.1 user guide and TPA5.1a code

Bret:

I can't really make sense of the question. He mentions different values on page 108 of the 2004 DOE report, but there is no page 108. The 108<sup>th</sup> page in the pdf file for that report would be page 7-12, which does not have any discussion of the parameter ranges he is discussing. We do cite the 2001 version (Rev 00) of the report in TPA manual, and he should look on the LSN to get that version.

--Jim

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**From:** Bret Leslie [mailto:Bret.Leslie@nrc.gov]  
**Sent:** Wednesday, September 03, 2008 2:41 PM  
**To:** James Winterle  
**Subject:** FW: availability of TPA 5.1 user guide and TPA5.1a code

Jim,

feedback on TPA5.1. Please review with appropriate Center staff and get back to me by phone. I would like to be able to get back to him next week.

thanks,

bret

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**From:** Jun Li [mailto:junli@unc.edu]  
**Sent:** Thursday, August 28, 2008 6:14 PM  
**To:** Bret Leslie  
**Cc:** junli@unc.edu  
**Subject:** RE: availability of TPA 5.1 user guide and TPA5.1a code

Dear Mr. Bret Leslie:

How are you doing?

Thanks again for your help to get the TPA5.1 code.

I am working on glass form waste issue recently where the glass form waste dissolution model is used. The default parameters included in the TPA5.1 package seems to be out of date. Please see the attached document for the details.

Please knowledge me if I am wrong.

Thanks.

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**From:** Bret Leslie [mailto:BWL@nrc.gov]  
**Sent:** Monday, October 08, 2007 7:44 AM  
**To:** jli7@ncsu.edu  
**Cc:** Sitakanta Mohanty; yim@ncsu.edu; Bret Leslie; Christopher Grossman  
**Subject:** availability of TPA 5.1 user guide and TPA5.1a code

Dear Dr. Li,

I received your inquiry about obtaining the "new" version of the TPA code. Dr. Mohanty's reply to you on the newness of the code was correct. Total-system Performance Assessment (TPA) Version 5.1a was made publicly available October 4, 2007.

A new version of the TPA code (5.1a) and a user guide has been made publicly available through the U.S. Nuclear Regulatory Commission Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible thru the internet at <http://www.nrc.gov/reading-rm/adams.html>, and the ADAMS accession numbers, i.e., "MLxxxxxxx", for the user guide and code are ML072710060, and ML072770577, respectively. I should note that the user guide is .pdf file and will be downloadable. The code itself is on a CD-ROM, which I will transmit to you via letter, later this week or early next week. At that time I will also enclose a CD-ROM copy of the user guide.

The TPA Version 5.1a computer code was developed through a joint effort between the NRC and the Center for Nuclear Waste Regulatory Analyses (CNWRA) staff. TPA Version 5.1a is a review tool developed to assist staff in precicensing activities and reviewing a potential U.S. Department of Energy license application.

I also wanted to inform you that NRC staff will be discussing TPA Version 5.1a in an upcoming public meeting. NRC staff will brief the Advisory Committee on Nuclear Waste and Materials (ACNW&M) in Rockville, Maryland at their 183<sup>rd</sup> Meeting on the morning of October 17, 2007. More information on the ACNW&M meeting is available at <http://www.nrc.gov/reading-rm/doc-collections/acnw/agenda/2007/183.pdf>.

If I can be of further assistance, please let me know.  
Bret Leslie, Senior Project Manager

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**Subject:** FW: availability of TPA 5.1 user guide and TPA5.1a code  
**Sent Date:** 9/4/2008 8:55:22 AM  
**Received Date:** 9/4/2008 8:56:53 AM  
**From:** James Winterle

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

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Tracking Status: None  
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