

**From:** Goutam Bagchi, *NRL*  
**To:** INTERNET:tomusafa@aol.com *Tom O'Hara, Duke Engineering*  
**Date:** Tue, Aug 29, 2000 2:40 PM  
**Subject:** Re: IInI figure

Tom,

You are always so responsible and timely! I am grateful. We also produced the same plot from the spread sheet. I really need to understand the headings of the different columns. Column # 7 is half of the maximum of the spectral values at 2.5, 5, 10 Hz, Column # 8 is EPRI spectral ordinate at some Hz (PGA value ?). I need to understand this answer. Also, it looks as though your plot is Column # 7 values arranged from the lowest to the highest, whereas we need the probability of failure of the pool structures. There is a lot of short hand meanings to the columns of numbers. May be you are using the simplification that the prob of failure is  $0.5 \times \text{Prob of exceeding spectral acceleration of } 1.784 \text{ g(?)}$ ! Then the use of Column #8 with A-mean and G-mean does make sense to me. Please get back to me on this.

Do not feel frustrated on the hazard. We have a better understanding of the hazard and are a lot closer in result than you are giving yourself credit for.

Thank you,  
Goutam  
301-415-3305

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>>> <Tomusafa@aol.com> 08/29 11:57 AM >>>

Goutam - Here is the LLNL figure that you requested. I have inserted it into a Word document so that you can readily print it out. I hope this is what you wanted. Do not hesitate to call if there is anything else that I can provide you.

Tom O'Hara

**CC:** George Hubbard, Robert Rothman

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