

**From:** Shannon Marie Rohrer <srmarie@nuc.berkeley.edu>  
**To:** Michael Cheok <MCC2@nrc.gov> *NRR*  
**Date:** Wed, Mar 22, 2000 11:52 AM  
**Subject:** Re: Draft Final Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Nuclear Power Plants

Mr Cheok,

Here are my findings.

for the fire event (boiling 3ft frequencies)

I calculated                      report says

7.8e-9	2.213e-8
2.3e-10	6.461e-10
2.19e-10	2.19e-10

for the loss of sfp cooling

I calculated                      report says

1.7e-9	1.197e-8
2.17e-11	2.17e-11
5.07e-13	2.255 e-9

for the loss of inventory event

I calculated                      report says

8.206e-11	9.75e-10
1.892e-13	2.254e-12
2.703e-13	1.175e-9
2.41e-10	8.29e-10
1.0807e-11	3.699e-11
1.38e-12	1.38e-12

I hope this information is useful to you. Please send me your corrections, you can e-mail them (microsoft work), or snail mail them 180 Brannan St. #426 San Francisco, CA 94107

or fax them 510 643 9685

Thank You,

Shannon M. Rohrer

At 04:51 PM 4/17/00 -0400, you wrote:

>Shannon:

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>I am replying to your e-mail concerning the draft study on Spent Fuel Pool

>Accident Risks. We are aware that, in the draft report, there are some

*B/241*

>transcription errors in the description of the basic event data values and  
>the event tree sequence frequencies. These errors will be corrected  
>before the report is issued in final form. However, in the meantime, we  
>will be glad to provide you with the updated numbers. Also, to ensure  
>that we have caught all the errors, please e-mail me back with a more  
>detailed description of your findings and comments. If you prefer, I can  
>also be reached by phone at 301-415-8380. (Alternately, you can e-mail me  
>your phone number, and a preferred time to call, and I will call you back).

>

>Thank You.

>

>Mike Cheok

>NRC/NRR/DSSA/SPSB

>e-mail: mcc2@nrc.gov

>phone: 301-415-8380

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> >>> Shannon M. Rohrer <srmarie@nuc.berkeley.edu> 03/15 3:22 PM >>>

>Comments: I am using some information from this report for my Master's  
>project. In order to better understand it, I used the failure  
>probabilities from the report in the the fault trees and calculated  
>probabilities for input to event trees, and then calculated frequencies  
>for those trees. I did this for the internal fire and loss of spent fuel  
>pool cooling initiating events. My results matched for some sequences and  
>were off by 1 to 2 orders of magnitude for others, I double checked my  
>results. I also found several places in the report that refer to  
>uncovering the core, when it is clear that the authors mean to say  
>uncovering the fuel.

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>Submit2: Submit comments

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