

**From:** "Moorer, Tom C." <TCMOORER@southernco.com>  
**To:** "Mark Notich" <mdn@nrc.gov>, "Michael R Sackschewsky" <michael.sackschewsky@pnl.gov>  
**Date:** 8/7/2007 2:57:14 PM  
**Subject:** FW: VOGTLE ESP AVERAGE INDIVIDUAL 1-2 MILE RISK

Mark/Mike: Al Toblin's response to Van's latest set of questions. Please advise if you need anything else.  
TCM

2. *Thomas C. Moorer*

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**From:** Alan Toblin [mailto:altoblin@comcast.net]  
**Sent:** Tuesday, August 07, 2007 5:19 AM  
**To:** Moorer, Tom C.  
**Cc:** Karen Patterson (Aiken)  
**Subject:** VOGTLE ESP AVERAGE INDIVIDUAL 1-2 MILE RISK

Tom,

I've attached the revised vogtle esp maccs "early" file (the only maccs input file that changes due to adding the average individual risk) and the resulting output file. These results are the same as the previous version; "average individual risk" (1-2 miles as agreed on during this afternoon's call and 0-1 mile for additional information) has been added to the output. The average individual risk is an average over the 16 directions. The output includes the "overall" (i.e., 95% population evacuating, 5% population not evacuating), evacuating cohort and not evacuating cohort average risks.

I've also attached a spreadsheet which summarizes the "overall" average individual risk from 1-2 miles. Cells c9:c14 give the conditional average individual risk copied from the maccs output file, v.out; cells c19:c24 give the sequence frequency weighted risk, with cell c25 giving the total risk. The corresponding cells in Column e give the population weighted risk (based on the population distribution), also copied from the maccs output file, that we have reported previously. The total overall average individual risk, 1.64E-12, is 15% larger than the total overall population weighted risk we reported in the most recent writeup, 1.42E-12.

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**Mail Envelope Properties** (46B8C071.D0F : 17 : 11535)

**Subject:** FW: VOGTLE ESP AVERAGE INDIVIDUAL 1-2 MILE RISK  
**Creation Date** 8/7/2007 2:54:33 PM  
**From:** "Moorer, Tom C." <TCMOORER@southernco.com>  
**Created By:** TCMOORER@southernco.com

**Recipients**

nrc.gov  
TWGWPO01.HQGWDO01  
mdn (Mark Notich)

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michael.sackschewsky (Michael R Sackschewsky)

**Post Office**  
TWGWPO01.HQGWDO01

**Route**  
nrc.gov  
pnl.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	1861	8/7/2007 2:54:33 PM
TEXT.htm	4157	
VEarly.inp	13655	
V.OUT	462733	
1-2 MILE EARLY FATALITY RISK.xls		15872
Mime.822	683052	

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