3

Page

(j)

From:"Sprung, Jeremy L" <jlsprun@sandia.gov>To:"White, Bernard'" <bhw@nrc.gov>Date:10/25/02 12:59PMSubject:Phone topic writeups

Bernie:

Here as promised is a writeup of the topics that we discussed during our phone call this morning. Please tell us which of these proposed approaches are approved as is or with added NRC guidance (as is appropriate) and also specify where a formal contract modification will be needed (revised SOW from NRC and a revised response to the SOW from us).

## Jetliner Crash Report Schedule

We will send Boeing our jetliner model next week. If they take several weeks to review it, we won't have comments until mid November. If their comments are specific to a / and don't require extensive changes to our model, we might be ready to start rerunning our jetliner crash calculations by the last week in November, which might mean we could complete at them by the end of the first week in December. That would give us two and a half weeks before the Christmas break to rewrite the current draft of our jetliner report. So the optimistic scenario is next draft by 20 December 2002 (many Sandians will take the two days before Christmas as vacation; so in effect we will be shutting down for the Christmas break by 20 December). Conversely, if Boeing takes three weeks to get back to us and (to avoid providing specific engineering data) provides recommended changes to out model that apply to a "generic" large jetliner, then it will probably take at least a week of work and probably two weeks of elapsed time to decide how \_ to apply the recommendations for a "generic" large jetliner to our model. Rerunning the calculations would then take a week, and rewriting two more weeks. So given that Sandia closes for the week from Christmas to New Year's day, we wouldn't get our next draft to you until 13 January 2003.

## Scenario/Cask Pairs for Analysis

The attached MS Word file contains a table which lists the casks in your Vulnerability Project SOW across the top or the table and the proposed threats down the left side of the table. To plan the schedule for Tasks 3 through 8 and also to decide what additional computational support we need to acquire by placement of contracts, we need to develop with you the combinations of a cask and a threat that we are going to analyze. Task Numbers have been placed in the table to indicate cask/scenario pairs already specifically called out in your SOW and in our response to that SOW. An X in the table indicates a cask/scenario pair that we propose should be analyzed.

## MACCS Analyses

Stephanie Bush-Goddard and David Chanin have been discussing three types of work that would support the performance of consequence calculations for the Vulnerability Study: (1) Updated costs for cleanup of contaminated land and buildings, (2) review of the customery input used in MACCS that is not related to dosimetry or health effects (e.g., plume rise, wind borne transport, and dry and wet particle deposition parameters; structure shielding and evacuation parameters; washoff, runoff, and food pathway

Portions Ex 7



Imperiation       Superiation       Superiation       Tensori       Other BAST Transmit Fockster         Imperiation       Historiki       Nice Cash       Tensori       Anion       Discretion         Imperiation       Historiki       Nice Cash       Tensori       Anion       Discretion       Tensori         Imperiation       Historiki       Nice Cash       Tensori       Anion       Discretion       Tensori         Addition       Historiki       Nice Cash       Tensori       Anion       Discretion       Tensori         Addition       Historiki       Nice Cash       Tensori       Anion       Anion       Anion       Anion         Addition       Historiki       Nice Cash       Anion       Anion       Anion       Anion       Anion         Property       Historiki       Historiki       Anion       Anion       Anion       Anion       Anion         Property       Historiki       Historiki       Historiki       Historiki       Historiki       Historiki       Historiki         Property       Historiki       Historiki       Historiki       Historiki       Historiki       Historiki         Property       Historiki       Historiki       Historiki       Historiki <th></th> <th>d White - Scenari</th> <th>o_Cask_</th> <th>Matrix.doc</th> <th>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</th> <th></th> <th></th> <th>·····</th> <th></th> <th>.<u></u></th> <th>·</th> <th></th> <th>·</th> <th></th> <th></th> <th>Pa</th>		d White - Scenari	o_Cask_	Matrix.doc	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			·····		. <u></u>	·		·			Pa		
Transport         Transport         Integration of the package of the package is not likely to lead to significant dispersal of contents.         Transport         Transpo	•	-																
Transpect         Transpect         Interster         Interster       Inters														-				
Transpect       Transpect         Interpret         Interpret       Interpret         Interpret       Interpret         Interpret       Interpret       Interpret         Interpret <th c<="" td=""><td></td><td colspan="8">Spent Fuel Casks</td><td colspan="8">Other RAM Transport Backson</td></th>	<td></td> <td colspan="8">Spent Fuel Casks</td> <td colspan="8">Other RAM Transport Backson</td>		Spent Fuel Casks								Other RAM Transport Backson							
Impact       1.1       X       1.4       X       1.4         Small rune       X       1.3       1.5       1.4       1.4         Tot       X       X       X       X       X         Iffer       X       X       X <td< td=""><td></td><td></td><td colspan="4">Storage</td><td></td><td></td><td colspan="6"></td><td></td><td></td></td<>			Storage															
i biller       13       X       14         X       X       X       X         Small Pane       X       13       15       14         Small Pane       X       X       X       X         If       It delivery vehicle doen't affect the CTH calculation.       X       X       X         A       This package can carry U/Go powder which can be dispersed easily but poses line dose hazard because U is an alpha eminer.       K         C       On package with Pu in pipe overpacks.       Y       K         d       The Co metal in this package migh be dispersed by'       Y       K			HI-STORM	NUHOMS 32P	TN-68	VSC-24*	NAC-UNIS	NAC-NLI-1/2		A-0109	BUSS	UNC-2901*	C1-20WC-2	CNS	TRUPACT			
Yeadi Franc       X       X       X       X       X         Total Franc       X       X       X       X       X       X         Fire       X       X       X       X       X       X       X         Fire       X       X       X       X       X       X       X       X         For       Ibe delivery vehicle doesn't affect the CTH calculation.       X       X       X       X       X       X         For       Ibe delivery vehicle doesn't affect the CTH calculation.       X		Jediner Fall from bridge	1.1	x			1.4 X											
Small rune       1	42	Crush_						x		<u> </u>								
Image: Second		Small Flanc		X			1.5	1.5	1.6									
For,							X						X*					
<ul> <li>For, the delivery vehicle doesn't affect the CTH calculation.</li> <li>This package can carry U<sub>3</sub>O<sub>3</sub> powder which can be dispersed easily but poses little dose hazard because U is an alpha emitter.</li> <li>the Co metal in this package might be dispersed by ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '</li></ul>	(	1 :												X'	X			
<ul> <li>a. This package can carry U<sub>1</sub>O<sub>8</sub> powder which can be dispersed easily but poses little dose hazard because U is an alpha emitter.</li> <li>b. , on package with Pu in pipe overpacks. , for Corneral in this package might be dispersed by .</li> <li>f. Deliberate collision of another vehicle into any of these packages is not likely to lead to significant dispersal of contents.</li> <li>g. We believe this package is very similar to the HI-STORM cask and thus analysis will yield no new information.</li> </ul>	إترا	1			x		x			x.	x							
<ul> <li>a. This package can carry U<sub>1</sub>O<sub>5</sub> powder which can be dispersed easily but poses little dose hazard because U is an alpha eminer.</li> <li>b. , on package with Pu in pipe overpacks. , for the Co metal in this package might be dispersed by for the dispersed by for the Co metal in this package might be dispersed by for the believe this package is very similar to the HI-STORM cask and thus analysis will yield no new information.</li> <li>g. We believe this package is very similar to the HI-STORM cask and thus analysis will yield no new information.</li> </ul>		-	<u> </u>		<u> </u>		<u> </u>	}		<b> </b>					├			
	Fx:	b. c. ( d. The Cometal in	this package	, on package with might be dispers	n Pu in pi ed by <sup>f</sup>	pe overpa	<sup>.ks.</sup> )	хJ		-		er.						
		۰.			•			•										

.

· .

· · · · ·

.

•