

**From:** Mahendra Shah  
**To:** Bernard White  
**Date:** 12/4/02 2:49PM  
**Subject:** Re: Analysis Sequence for each Sabotage Scenario

Bernie:

I have the following comments on Jerry's Tables:

1. In the SCENARIO and ANALYTICAL SEQUENCES Tables, VSC-24, and NUHOMS 32P are included as requiring the CTH Jetliner Impact analysis. I believe the CTH analyses are not necessary because the casks would respond as a rigid element and maximum cask translational sliding velocity and radial velocity can be predicted based on the HI-STORM cask CTH analysis.
2. In the SCENARIO and ANALYTICAL SEQUENCES Tables, NAC-NLI ½ cask is included as requiring the CTH Jetliner Impact analysis. This analysis is not required for a jetliner impact but for a small plane with (SEE SOW, Rev. 1, Task 1.5). *Ex 2*
3. In the ANALYTICAL SEQUENCES Table, for Sequence no. 2B, PRONTO Impct analysis should be included.

I assume that the number of analyses shown in the Tables is the upperbound, and that some of the Source term, Fission Product Transport and MACCS analyses may not be required, depending on the structural performance of the casks.

Thanks.

Mahendra

>> "Sprung, Jeremy L" <jlsprun@sandia.gov> 11/26/02 12:57PM >>>  
Bernie:

The attached MS Word file contains two tables. The first table lists the sabotage scenarios that NRC has specified for analysis. The second table gives the sequence of calculations required to analyze each scenario. Very preliminary estimates of level of effort are also provided.

Jeremy Sprung

<<AnalSeq1.doc>>

**CC:** Daniel Huang; Jack Guttman; Robert Shewmaker; Ron Parkhill

*Return Ex 2*

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