

11/13/02 7^h

38. SFPO VULNERABILITY ASSESSMENT IS FOCUSED INTO THREE TEAM EFFORTS AS DESCRIBED BELOW.

The bold face text has been added and the underlined text is to be deleted per Shewmaker's comments.

H. Status of Spent Fuel Storage Vulnerability Study
(Last updated 11/18/2002 - Robert Shewmaker, Ext. 2842, SFPO)

The study will assess the damage to a representative dry storage cask system and ISFSI from large and small aircraft threats and to assess the damage to other selected dry storage cask systems from a range of threats and scenarios and determine the resulting dispersion and consequences for all study cases. An assessment of the costs of property damage and cleanup will also be made. The identification of protective measures that may minimize or eliminate vulnerabilities to terrorist threats including cost/benefit analyses are also to be included. The team has selected casks to be analyzed. A contract with Sandia National Laboratories (SNL) is in place. *The work effort is mainly contract work being performed by SNL.*

The airborne threat will involve using a aircraft. The damage effects to be studied will include aircraft impact with maximum pay loads/fuel for the and resulting fire effects, and for small aircraft the aircraft impact with a mix of fuel and. For the small aircraft there has been an extensive database created by the contractor of aircraft generally in this category. NRC staff will provided guidance on selection of aircraft for use in the study. The contractor has provided a preliminary report in draft form relative to the impact. The NRC staff has provided comment to the contractor and work is proceeding to address the NRC staff comments. The small aircraft has been selected in conjunction with SNL and represents a high performance aircraft capable of transporting. The analysis is scheduled to be completed by end of Calendar Year 2002.

Ex 2

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Portions Ex 2

Other threats and scenarios against these cask systems will be staged with the first stage to be single threat scenarios resulting from high energy explosive induced damage from devices such as etc. or from penetrator type high energy devices such as etc. Since no specifics for the threats such as the quantity of the and the associated scenario have been specifically defined within NRC, the studies at the current time are to be carried out as single event studies or parametric type studies. The second stage studies will address a larger range of types of threats and threats in combination, both with various scenarios. As a result of a coordination meeting with NSIR on 11/6/02, a series of vulnerability assessment threat characteristics have been provided that will guide these studies and the information has been coordinated with the contractor. The current target date for the initial results for other events should allow for preliminary results by mid-March 2003.

EX 2

SNL is be preparing a methodology to evaluate effects for NRC concurrence. NRC staff is monitoring the contractor progress and periodically meets with SNL personnel to obtain status reports and to provide technical direction to the project.

EX 2

Staff is currently reviewing a draft report regarding the contractors large plane analysis for storage and transportation casks

EX 2 portions