

Objective: Concept Design

Actions: group examination of the airplane

1 inch steel plate, no re-inforcement


1/2 inch steel plate, need re-inforcement

mount using the exact bolt pattern

Steel cutting options

laser cut

mill

torch + 

4 concepts → get table drawn
mock up of the plane

The weight of the people should be supported

* do not have structural rigidity of the rest of the plane

* could possibly sag

Break Responsibilities

Matt → ANSYS analysis for varying steel plate thicknesses

Daniyar → motion table modeling

Andy → solid modeling of the plane

Christina → Project Plan + DR presentation

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

12/15/2011

PROPRIETARY INFORMATION

Research Computing → do they have ANSYS
How powerful the processor is for my comp

4 Concepts

Mounting styles

different plate

Framework of tubing

Frame + plate

Drop holes in steel plate if need to make it lighter

2nd Ideas

1. Mounting pattern

Different Materials

Different thicknesses

* Center of Mass of the Cockpit over the
Center of Mass of the Motion Table

Need to Discuss with the Display group their
ideas for display options

Continued to page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION