



Agenda

- Acknowledgements
- Perspective
- Summary comments
- Immediate action
- Industry needs (Spirit Perspective)



Perspective

- Large Tier 1 supplier to the aviation industry
 - Largest supplier to Boeing and Airbus
- Design, manufacture, test and certify
- Growing use of advanced materials
 - Section 41 on Boeing 787
 - Cab and cabin on CH-53

Summary Comments

- Great work on repair and bonding and surface contamination evaluation
- Good data from the teardowns of the horiz stab and Starship
 - Would have been nice to have original NDI scans
 - Looking fwd to test results from the Starship
- Work on damage tolerance is important
 - Work on fluid ingress will be interesting
- Work on out-of-autoclave processes is very important
- Certification by analysis is key to reducing test costs
- Structural health monitoring needs further development
 - What should we be looking for
- Work on industry standards is important
- Course development on CompositeExperimentation.com

Immediate Action

- Investigate shear test methods presented by the University of Utah
- Look at incorporating the modified CV approach into our material testing/qualification

Industry Needs (Spirit Perspective)

- Continue emphasis on repair and bonding
- Industry standards
- Methods to reduce testing required to develop allowables and show compliance to the regulations
- Development of analysis templates for complex problems