FAA Perspectives on NCAMP

Advantages

- Studies on key factors affecting material control help efficiently stabilize the raw material resource.
- Studies on prepreg processing limitations help ensure repeatable and robust manufacturing practices.
- Shared databases and specifications help facilitate efficient certification practices.
- Test standards and associated training help minimize variability that is *not* related to the materials.
- Coordinated support to standards organizations that help take NCAMP advances to practice and maintain the technology.
FAA Perspectives on NCAMP

Regulatory Considerations

• FAA guidance on shared databases & specifications were released from 2000 to 2003
  – Minimum requirements for material qualification
  – Coordinated support from industry to release guidelines for M&P specifications
  – Equivalency sampling tests to demonstrate control and processing of materials to levels representative of shared qualification databases
  – Continuous quality control practices to maintain material control through a product’s lifetime
FAA Perspectives on NCAMP

Limitations

• Users must understand the limits of a shared database to specific product design, e.g., building blocks
  – FAA guidance for static strength substantiation, bonded structures, fatigue & damage tolerance and repair issues

• Industry must evolve to accept responsibility for standardized material control over time
  – FAA certifies aircraft products ("doesn’t certify materials")
  – Limited FAA resources support shared material qualification