

Use of Dynamic Analysis Methods in Aircraft Certification

29-30 Aug 2019

Day 1 1-5:00

- Introductions, announcements, and opening comments – Joseph Pellettiere -FAA (15) 1:00 – 1:15
 - a. Welcome to Meeting
 - b. Goals, plans, agenda review
- AC 20-146A Review – Joseph Pellettiere – FAA (30) 1:15 – 1:45
- SAE ARP Updates - Prasanna Bhonge – Gulfstream (30) 1:45– 2:15
- LS-DYNA Aerospace Working Group and LSTC Updates – Gunther Blankenhorn – LSTC (30) 2:15 – 2:45
- Break** 2:45 – 3:15
- ASME V&V with example - David Moorcroft – FAA (30) 3:15 – 3:45
- Rotorcraft Applicability – Martin Crane – FAA (15) 3:45 – 4:00
- “Certification by Analysis,” or: Modeling and Simulation – Wim Doeland - EASA (1:00) 4:00 – 5:00

Day 2 9-5:00

- Recap and plan for the day – Joseph Pellettiere (15) 9:00 – 9:15
- TSO Discussion – Ken Cook/Joseph Pellettiere – FAA (30) 9:15 – 9:45
- Cautionary Tale when using Computational Simulation to Inform Regulatory Decisions- Recommendations to Mitigate the Risk- Martin Pilch (1:00) 9:45 – 10:45
- Break** 10:45 – 11:00
- AIAA CQbA Status Review - Wim Doeland - EASA (30) 11:00 – 11:30
- Enhance AC20-146 for Airplane Structural Crashworthiness and Occupant Safety Simulation- A Model-Based Engineering Approach- Humayun Kabir – Boeing (30) 11:30 – 12:00
- Lunch** 12:00 – 1:15
- Aerospace Analysis Methods and Tools – Franck Njilie – Altair (30) 1:15 – 1:45
- Dynamic Certification Methods: Verification and Validation Process (bird strike and seat) – Gerardo Olivares – NIAR (1:00) 1:45 – 2:45
- Break** 2:45 – 3:15
- EASA Perspective – Enzo Canari - EASA (30) 3:15 – 3:45
- AC 20-146A/Change 1 Review - Joseph Pellettiere – FAA (30) 3:45 – 4:15
- Current Progress/Master AC and Final Thoughts - Joseph Pellettiere – FAA (15) 4:15 – 4:30