

# FAA REDAC Subcommittee on Environment and Energy

Findings and Recommendations  
March 2019

# E&E REDAC Subcommittee

- March 19 – 20, 2019 Meeting
- Approval of FY19 budget that included \$191.1M for RE&D funds (Thanks House and Senate)
- Overview: Impact of the recent furlough; Review R&D portfolio; Noise threat; FAA impact at ICAO CAEP; Importance of Alternative Jet Fuels
  - Noise possibly biggest threat to growth of U.S, Aviation
  - U.S. must maintain its Global Leadership position at ICAO CAEP
  - Selected deep dives and special topics
    - Increased growth in Subsonic, UAM/UAV; Supersonic and Commercial space vehicles
    - Importance of Public Private Partnership programs
    - Collaboration between FAA and NASA
    - Additional environmental research key to establishment of sound policy to support new entrants

# E&E Findings & Recommendations (1)

- Noise is an ongoing issue and possibly the biggest threat to NexGen, Modernization of the NAS and constraint to growth of U.S. Aviation industry
- Growth will come from the Subsonic, UAM/UAS, Supersonic and Commercial Space vehicles and the FAA will need to be able to address the noise, emissions and health impacts of these new entrants
- Recommend FAA aggressively move forward with its research efforts as research is the key to establishing sound policy.

## E&E Findings & Recommendations (2)

- Maintaining the U.S. Global leadership position at ICAO CAEP is essential to protecting U.S. aviation interests
- The subcommittee recommends the prioritization of all research efforts/programs that will allow the FAA and the U.S. to maintain its current global leadership at ICAO CAEP.

# E&E Findings and Recommendations (3)

- A lot of progress has been made in the development of alternative fuels and any reduction of funding for the Alternative Jet Fuel (AJF) program (including efforts in CAAFI, CLEEN and ASCENT) will have a catastrophic effect on the maturation of this fledgling industry
- Since the maturation of the Alternative Jet Fuel program will be a major environmental benefit for the public, will create a new industry within the U.S. and will benefit the U.S. aviation industry. We strongly support funding for the continuation of research on AJF.

# E&E Findings and Recommendations (4)

- Recent challenges in the grant approval process has led AEE to solicit new project ideas from a wide range of researchers in the ASCENT and CLEEN programs. These ideas will lead to new research efforts for ASCENT that should result in real-world innovation
- The Subcommittee continues to endorse the robust funding Public Private Partnerships like CLEEN, CAAFI and ASCENT that leverage scarce resources. The Subcommittee is pleased with the close collaboration between NASA and the FAA. We support the new research plan presented by AEE and encourage the FAA to adopt this plan and expedite the approval of grants associated with these partnerships.

# E&E Findings and Recommendations (5)

- Proposed improvements in Aviation Environmental Design Tool (AEDT) will enable enhanced usability and improved airspace and airport design.
- The subcommittee recommends the FAA continue the simultaneous balanced development of usability improvements and enhanced features in the near term. Work with airports to get additional emissions data to support modeling efforts.