

FAA REDAC Subcommittee on Environment and Energy

Findings and Recommendations
October 2016

E&E REDAC Subcommittee

- August 30 – 31 Meeting
- Focus: Strategic guidance to the FAA to develop current FY+3 research portfolio
 - Based on selected deep dives and past year activities and accomplishments
 - CAEP tools usage and further development
 - Aircraft technology modeling and assessment
 - Noise exposure trend analysis

E&E Finding (1)

- E&E RE&D program has a strong strategic content:
 - Goals established to achieve environmental protection for sustainable aviation system growth
 - RE&D Plan considers balancing between
 - Improved scientific understanding and tools
 - Environmental impact reduction technology
 - Operational efficiency improvement
 - Sustainable alternative aviation fuel development
 - US leadership in global aviation environmental policy and market based measures

E&E Recommendation (1)

- E&E RE&D program has a strong strategic content:
 - Recommend priority focus on:
 - Noise and operations
 - Environmental technology maturation (CLEEN)
 - Alternative aviation fuels
 - Tools for US leadership in policy development

E&E Finding (2)

- Environmental assessment tools (AEDT tool suite) developed and delivered:
 - Used for informed policy decisions
 - Demonstrated US's global leadership in ICAO environmental agenda
 - External user base growing
 - Many usability and functionality related improvements identified
 - F&E funds that enabled this development zero for 2017 and beyond

E&E Recommendation (2)

- Environmental assessment tools (AEDT tool suite) developed and delivered:
 - Review AEDT development needs
 - Prioritize based on consideration of value and urgency
 - Important since this development will have to be funded out of RE&D which support other high-priority research
 - Improving usability for a broader stakeholder group may be preferred

E&E Findings and Recommendations (3)

- The subcommittee recognizes the continuing collaboration between FAA and NASA and other agencies
 - NASA's revamped aeronautics program provides additional collaboration opportunities
 - Work with NASA to gather noise and emissions data that may help projects in the FAA portfolio
- Subcommittee concerned about staff availability at FAA-AEE to execute the program efficiently
 - Continue to feed engineer pipeline