

SAS Chair Opening & Report on REDAC Meeting

2019 Fall REDAC SAS Meeting
Atlantic City, NJ
August 19-20, 2019



REDAC Meeting Report

- April 11, 2019
- FAA Headquarters, Washington DC
- Agenda
 - Opening/Closing Remarks
 - FAA R&D Landscapes
 - Subcommittee Reports



FAA R&D Landscapes

- Aircraft Safety
 - Changed Drivers
 - Enable routine small UAS operations
 - Added Drivers
 - In-time system-wide safety assurance
 - Runway friction & braking



FAA R&D Landscapes

● Airports

- Added Drivers
 - Aviation system sustainability
 - Aviation system capacity
 - Future security technologies

● NAS Operations

- Changed Drivers
 - Increased connectivity by cyber-physical systems and spectrum



FAA R&D Landscapes

● Human Factors

- Changed Drivers
 - Human/machine teaming and new technology interfaces
 - Artificial intelligence
- Added Drivers
 - Training
 - Pilot Demographics
 - Large UAS integration



FAA R&D Landscapes

- Environment and Energy
 - Changed Drivers
 - New vehicles/components use of new technology
 - Sustainable growth of subsonic transports
 - Novel vehicle configurations
 - Operational concepts
 - New technologies



FAA R&D Landscapes

- Other Discussions
 - Changed/Added Drivers
 - Urban air mobility (UAM)
 - New vehicle technologies
 - Certification of new technologies
 - Advanced hybrid/electric propulsion
 - Security



Subcommittee Reports

- Safety
 - Review of March 6th meeting
- Airports
 - 10-year airport pavement plan update
 - Smart airports
 - Environmental contamination by per- and polyfluoroalkyl substances (PFAS)



Subcommittee Reports

- NAS Operations
 - Re-architecture of the U.S. NOTAM System – human performance issues
 - WTIC Program – weather information requirement for UAS
- Human Factors
 - HF to be addressed with emerging issues
 - HF development for operational challenges with NextGen and TBO



Subcommittee Reports

● Environment and Energy

- Develop sound policy of noise impact to NextGen, NAS Mod, and growth constraints (subsonic, UAM/UAS, supersonic, and commercial space)
- Maintain R&D to maintain U.S. leadership in ICAO CAEP
- Alternative Jet Fuels
- Funding for Public Private Partnerships like CLEEN, CAAFI, and ASCENT
- Improvements in Aviation Environmental Design Tool for airspace and airport design



- Next REDAC Meeting Date: TBD
- Questions?

