

CSMAC
Unmanned Aircraft Spectrum
Subcommittee 4

January 28, 2020

Subcommittee Members

- Audrey Allison
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- Mark Gibson
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- Mark McHenry
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NTIA Liaison: David Reed

Question:

Unmanned Aircraft Spectrum

- a. The FAA has the responsibility of ensuring the safe integrations of all classes of UAS into the national airspace, from small to large UAS. Spectrum to support command and control operations will be critical for these emerging industry applications, to include urban air mobility and transcontinental cargo delivery.
- b. What are appropriate models for ensuring timely and secure access to frequencies necessary to support UAS command and control requirements? What governance characteristics are important? Are there liability issues to consider for this function? Is it a 3rd party frequency coordinator model?
- c. What is the potential need to create an entity that supports and facilitates collaboration across the disparate federal advisory committees for UAS?
 - i. Develop alternative mechanisms and governance structures for such an entity

Scope

- Focused on spectrum to support command and control operations
- Provide complementary, value-add to other activities already going on
- Spectrum options and potential solutions
- Considering potential focus areas to better frame our subcommittee's work

Potential Focus Areas

- Overview of the environment
 - Complexities
 - Spectrum access
 - Classes of systems
 - Standards
 - Ongoing efforts
- UAS CONOPS
 - UAS classifications
 - UAS operations
 - C2 functions
 - Spectrum options
- UAS spectrum access
 - Frequency access models
 - Governance/ownership
 - Security/interoperability
 - Liability issues
 - Licensing
- Federal advisory committee collaboration
 - Different pertinent bodies
 - Areas of scope/responsibility
 - Alternative mechanisms and governance

Initial Plans

- Characterize complexities – i.e., what is different about UAS spectrum requirements?
- Identify relevant federal advisory committees, other bodies, and ongoing activities
- Conduct interviews (e.g., FAA, FCC, and NTIA) to collect additional information and requirements
- Analyze information
- Develop summary of findings and recommendations

Schedule

- Subcommittee kickoff: January 16, 2020
- Conduct interviews: February 2020 – July 2020
- Analyze information and develop a summary of findings: August 2020 – November 2020
- Iterate interim findings and conduct follow-on work: December 2020 – February 2021
- Deliver report and recommendations to NTIA: March 2021