



FAA UAS SYMPOSIUM

Conducting Public Aircraft Operations



Federal Aviation
Administration



#UAS2018

Conducting Public Aircraft Operations



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Public vs Civil



Public

- More up front work results in more airspace access
- Self certify airworthiness, pilot
- ATC Services Specified in COA
- Requires letter from Attorney General
- Requires detailed concept of operations which speeds up coordination later
- Limited operations

Civil

(14 CFR Part 107)

- Less up-front work
- Requires aircraft registration & operator certification
- No Authorization required in Class G Airspace
- Requires separate waivers for operations outside of rule
- All sUAS public operations can be done under 107.

Public Aircraft Requirements



49 USC §40102(a)(41)

(Public Aircraft Definition)

- An aircraft owned and operated by the federal government, U.S. military or government of a State
- State governments that lease aircraft have an additional statutory limitation of minimum lease length (90 continuous days)

49 USC §40125

(Restrictions on Operations)

- No public aircraft operations (PAO) may be for a commercial purpose (compensation).
- Each PAO must have a governmental function as defined by the statute (Activity by a government, such as national defense, intelligence, firefighting, search and rescue, law enforcement).

Current UAS Options



	Aircraft Requirements*	Pilot Requirements	Airspace Requirements	Types of Operation
Part 107	UAS < 55 lbs.	Part 107 remote pilot certificate with small UAS rating	Airspace waiver or authorization for Class B, C, D, E airspace	VLOS, daytime, Class G, 400 ft., not over people OR waiver provisions
Section 333	As specified in exemption	Part 61 airman certificate	Blanket COA or Standard COA for specific airspace	UAS > 55 lbs.
Experimental Aircraft	Experimental Special Airworthiness Certificate	Part 61 airman certificate	Standard COA for specific airspace	Research and development, crew training, and market survey
Type Certificated Aircraft	Restricted type or special class certification	Part 61 airman certificate	Part 91 airspace requirements	Specified in operating authorization
Public Aircraft	Self-certification by public agency	Self-certification by public agency	Blanket COA or Standard COA for specific airspace	Public Aircraft Operations (AC 00-1.1A); UAS Test Site operations
Part 101 Model Aircraft	UAS < 55 lbs.	Community-based organization (CBO) standards	Notification requirement within 5 miles of an airport	Hobby or recreational, VLOS, Part 101 operating rules, CBO standards

*Note: All UAS greater than 0.55 pounds must be registered (see part 47 and part 48 requirements)

Airspace Authorizations Required



Public

- Certificate of Authorization or Waiver (COA) for any airspace
 - Blanket COA for Class G
 - Jurisdictional COA
 - Site Specific COA

Civil

(14 CFR Part 107)

- Authorization under 107.41 for controlled airspace
- Future-Low Altitude Authorization and Notification Capability (LAANC)
- All sUAS public operations can be done under 107.

Can't mix public and Part 107 operation – it's either one or the other.