

# Unmanned Aircraft Systems (UAS)

**Presented to:** Emergency Preparedness Conference

**Presented by:** Scott Gardner, Acting Manager,  
Emerging Technologies, UAS Tactical  
Operations,

**Date:** June 5, 2018



## Public vs Civil

### Public

- More up-front work results in more airspace access
- Self certify airworthiness, pilot
- Air Traffic Control (ATC) Services Specified in Certificate of Authorization/Waiver (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 (Small Unmanned Aircraft Systems) 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.



## UAS Options

	Aircraft Requirements*	Pilot Requirements	Airspace Requirements	Types of Operation
<b>Part 107</b>	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
<b>Public Aircraft</b>	Self-certification by public agency	Self-certification by public agency	Blanket COA or Standard COA for specific airspace	Public Aircraft Operations ( <a href="#">AC 00-1.1A</a> ); UAS Test Site operations



## Airspace Authorization Requirements

### Public

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

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

### Civil

(14 CFR Part 107)

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



## Special Governmental Interest (SGI) Addendum (formerly e-COAs)

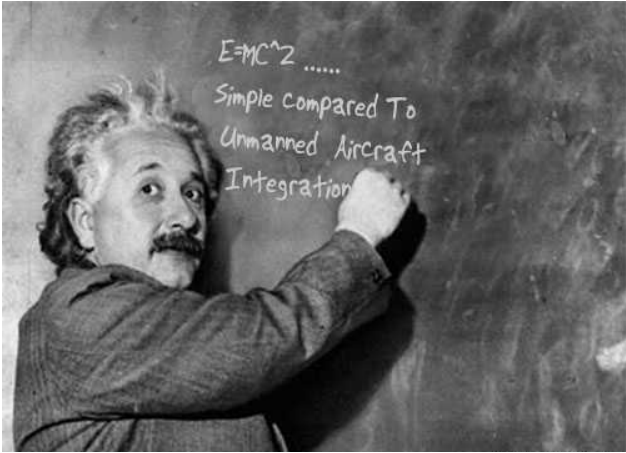
- Requested operations must be flown by a government entity or sponsored by a government entity
- Qualifying proponents contact System Operations Support Center (SOSC) for assistance
  - A component of System Operations Security (SOSC)
  - Contact number: (202) 267-8276
- Temporary Flight Restriction
  - Authorization granted through SOSC



# Summary

- 14 CFR 107 – civil
  - No Authorization in Class G
  - Authorization required in controlled airspace
  - LAANC
  - SGI outside of LAANC
- Public
  - Limited operations
  - Need Certificate of Authorization or Waiver (COA)
  - SGI if location not covered in COA

# Questions?



[www.FAA.gov/UAS](http://www.FAA.gov/UAS)