

Unmanned Aircraft – Evolving Issues for North American Airports

Presented to: Airports Council International

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Federal Aviation
Administration



Overview

- **Authorizing UAS Operations**
 - Section 333 Exemptions
 - Small UAS Proposed Rule
 - Micro UAS ARC
- **UAS Registration**
- **Education and Outreach**
- **UAS Detection Initiative**
- **UAS Airport Notifications**
- **Discussion Questions**



Enabling Commercial Operations via Section 333



FILMING | POWER LINE INSPECTION | PRECISION AGRICULTURE | FLARE STACK INSPECTION



Proposed Small UAS Rule

- **Currently in DRAFT**
 - Notice of Proposed Rulemaking (NPRM) Published to Federal Register on February 23, 2015
 - Public comment period concluded on April 24, 2015
 - Produced approximately 4,500 public comments
- **Expected to be finalized in late spring 2016**



Micro UAS Rulemaking

- **Aviation Rulemaking Committee (ARC) met for two weeks in March**
- **FAA asked for recommendations on:**
 - Performance-based standards for the classification and operation of certain UAS that can be operated safely over people
 - How manufacturers demonstrate compliance with the requirements
 - Additional operational parameters based on the requirements



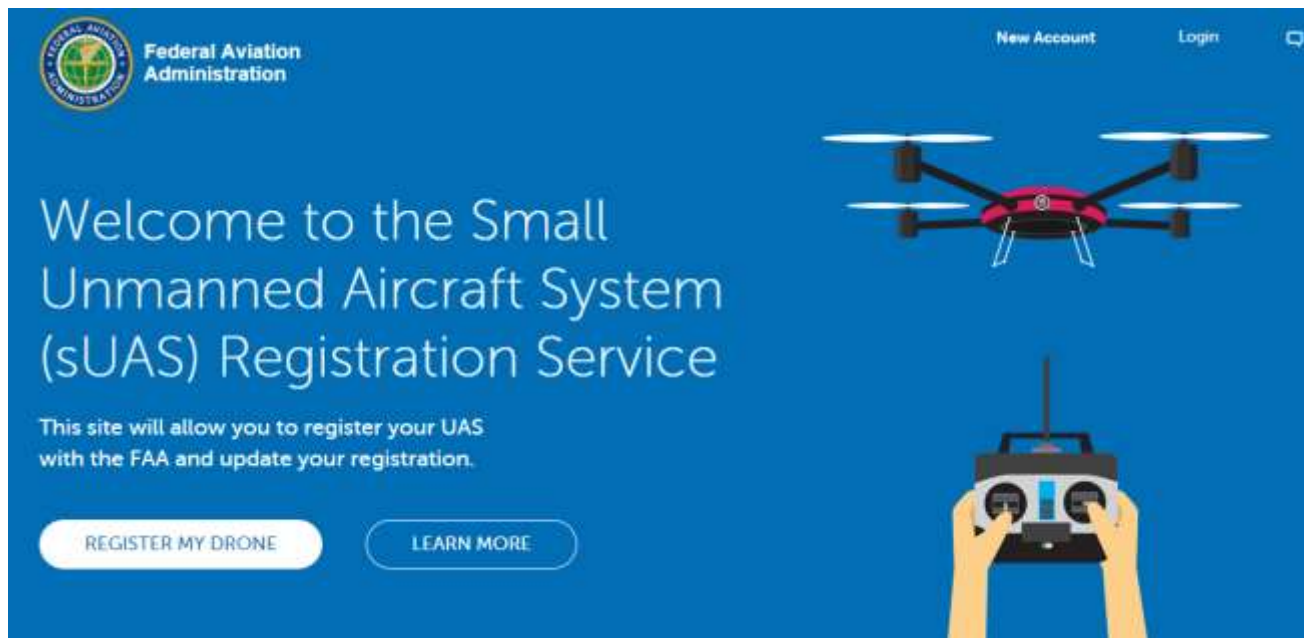
Micro UAS Rulemaking

- **ARC delivered final report to FAA**
- **Report outlines four small UAS categories for operations over people**
 - Defined primarily by level of risk of injury posed
 - Subject to the restrictions of proposed part 107
- **Category 1 = 250 grams or less**
- **Category 2, 3, 4 = impact energy thresholds based on industry-consensus test methods**



UAS Registration Requirement

- **Registration requirement effective Dec. 21**
 - Small UAS > 0.55 lbs. flown outside must be registered
- **Full details available at:** www.faa.gov/uas/registration



UAS Outreach and Education



I FLY SAFE

All drones are aircraft—even the ones at the toy store. So when I fly a drone I am a pilot. Before I fly I always go through my pre-flight check list. I regularly check the safety guidelines at faa.gov/uas

FLY SMART, FLY SAFE, AND HAVE FUN! knowbeforeyoufly.org
faa.gov/uas

PRE-FLIGHT CHECKLIST

- I fly below 400 feet
- I always fly within visual line of sight
- I'm aware of FAA airspace requirements: faa.gov/go/uas/tra
- I never fly over groups of people
- I never fly over stadiums and sports events
- I never fly within 5 miles of an airport without first contacting air traffic control and airport authorities
- I never fly near emergency response efforts such as fires
- I never fly near other aircraft
- I never fly under the influence

Federal Aviation Administration



UAS Detection Initiative

- **Growing concerns about potentially unsafe small UAS operations**
- **FAA entered into research partnership with CACI International**
- **FAA co-leads interagency group with DHS**
 - Interagency group currently includes DoD, Federal Bureau of Investigation (FBI), U.S. Secret Service and Department of Energy
- **Partnership evaluates how CACI's technology may help detect, identify, and track unmanned aircraft and their ground-based operators near airports**

CACI

UAS Detection Initiative

- **Appropriations enacted: December 16, 2015**
- **Federal Aviation Administration (FAA) was directed to:**
 - Assess the feasibility of integrating proven UAS mitigation technology with airport operations to detect, identify and track both the UAS and operator
 - Review techniques to defeat an errant or hostile UAS without causing any collateral damage in the airport environment
 - FAA UAS Center of Excellence must be an evaluator
- **Report due: June 16, 2016**

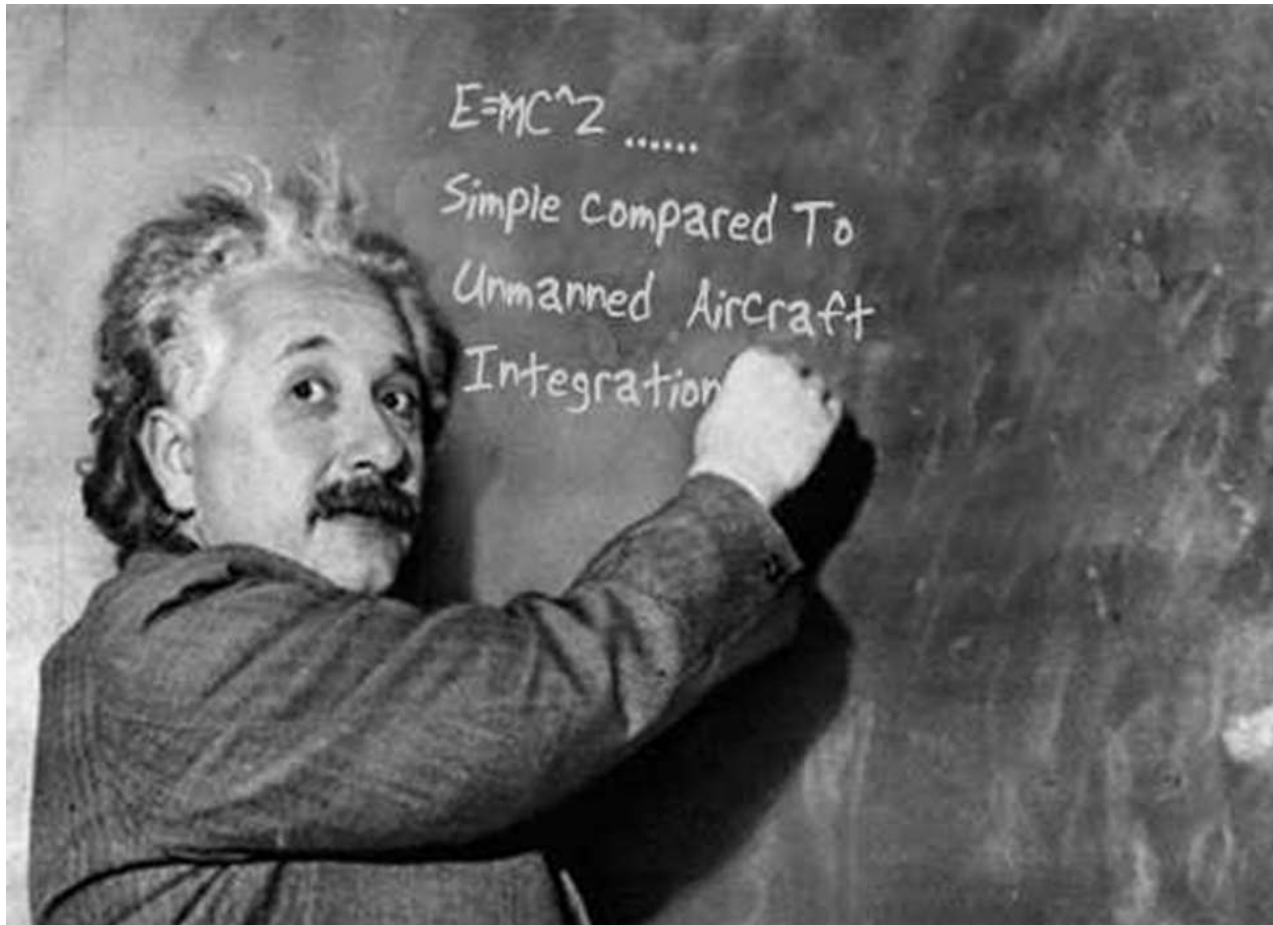


Airports and UAS

- All UAS operators (hobby or otherwise) are required to notify airports when flying within certain distances of the airport
- The FAA recently released guidance for airport operators about this airport notification requirement
 - Civil/Public Operators
 - http://www.faa.gov/airports/special_programs/uas_airports/
 - Model Aircraft Operators
 - http://www.faa.gov/airports/special_programs/uas_airports/model_airplane_faqs/



Questions?



www.faa.gov/uas