FAA Unmanned Aircraft Systems (UAS) Update

Presented to: JITI International Seminar on Drones for Transport

Presented by:

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Overview

- Who is operating UAS
- Proposed New Small UAS Rule
- Section 333 Exemptions
- Focus Area Pathfinder Program
- Safety Pathfinder Partner
- Model Operators
 - UAS Registration
 - FAA Education and Outreach





Who is Operating UAS in the U.S. National Airspace System (NAS)?

	Public Operations	Civil Operations (including Section 333)	Hobby or Recreational
Туре	Governmental	Commercial/Compensation for Hire	 Hobbyist
Requirements	 Must verify Public Aircraft Operator eligibility and be issued a Certificate of Waiver or Authorization (COA) 	 Must be granted Exemption AND Certificate of Waiver or Authorization (COA), or Special Airworthiness Certificate Restricted Category Experimental 	 Must comply with Section 336 of FAA Modernization and Reform Act of 2012
Rules	 Detailed in COA Self-certification of crew and equipment 	 Detailed in COA; restrictions outlined in Exemption 	 Generally must operate in visual line-of-sight, under 400', avoid manned aircraft, operate during daylight hours and fly according to community- based safety guidelines
Examples	Federal AgenciesState and Local Entities	 Industry Manufacturers Section 333 petitioners 	 Members of Community Based Organization General Public



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





Petitions for Section 333 Exemption

- Bridge for commercial UAS operations before finalization of small UAS rule
- More than 8,000 petitions received; more than 3,300 exemptions granted to date
- FAA responded to demand by improving process:
 - Streamlined Blanket COA (March 23)
 - Under 200', within visual line of sight, during daylight hours, certain distances away from airports and heliports
 - Streamlined evaluation process (March 30)





Focus Area Pathfinder Program

- Purpose: Identify the safety mitigations that can lead to expanded access for UAS and inform future rulemaking
- Approach: Work with industry partners to gain operational approval for key UAS operations and establish a repeatable process
- Three Focus Area Partners:
 - CNN
 - UAS in visual line of sight, urban/over people
 - Precision Hawk
 - UAS in extended visual line of sight, rural
 - BNSF Railways
 - UAS beyond visual line of sight, rural









New Safety Pathfinder Partner

- Growing concerns about potentially unsafe small UAS operations
- FAA entered into research partnership with CACI International
- Partnership will evaluate how CACI's technology may help detect, identify, and track unmanned aircraft and their groundbased operators near airports





New World for Recreational Aircraft

- New entrants into the model aircraft community
- Aircraft may be purchased at a hobby shop or online for a few hundred dollars
- Many new modelers have little or no aviation experience, may not know the law (Sec. 336) or FAA model aircraft guidelines (AC 91-57A Change 1):
 - Avoid manned aircraft
 - Remain within visual line of sight
 - Fly only for hobby/recreation







UAS Registration Requirement

- Registration requirement effective Dec. 21
 - Small UAS > 0.55 lbs. flown outside must be registered
- Over 325,000 have registered to date
- Full details available at: www.faa.gov/uas/registration



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UAS Education and Outreach



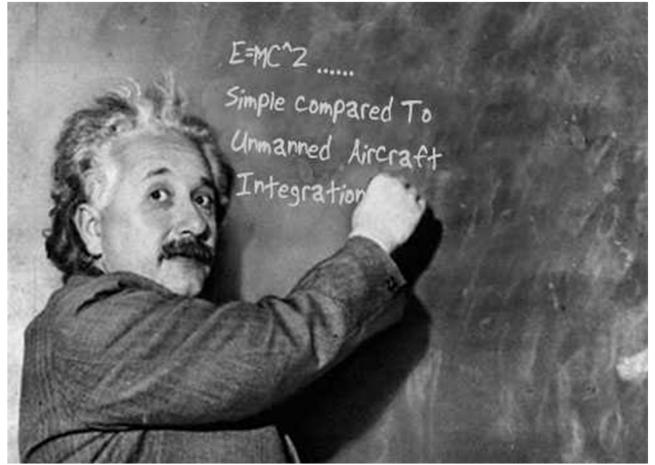




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Questions?



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