Mid-Atlantic Aviation Partnership (MAAP) FAA UAS Test Site Public Meeting

The Virginia/New Jersey/Maryland UAS Test Site

August 24, 2015

Tweet questions #askMAAPFAA
Welcome and Meeting Guidance

• Facility Safety Brief
• Please silence or turn off your cell phones
• In room questions – step up to the microphones
• Tweet your questions #askMAAPFAA
Agenda

- Opening Remarks – Rose Mooney
- FAA Welcome – Carmine Gallo
- Associate Directors – overview of each state
  - Maryland, Matt Scassero
  - New Jersey, Joe Sheairs
  - Virginia, Jon Greene
- Questions & Answers
  - Tweet questions to #askMAAPFAA
Purpose of Today’s Meeting

• Discuss MAAP innovation and opportunity
• Privacy Policy
• Answer questions – Tweet questions to #askMAAPFAA – In room microphone
• Share information to allow you to continue to reach out to us, www.maap.ictas.vt.edu

Tweet questions #askMAAPFAA
Austrian unmanned balloons loaded with explosives invaded Venice in 1849

- **WWI**
  - US Army developed flying bombs in 1916
  - Royal Air Force stated development of unmanned concepts after WWI
- **Target Drones** have been in development since the 1940’s and through today
- **Development or aircraft that return for reuse** began in the 1960’s
- **Modern UAS**
  - Early UAS military program of record- 1980’s with Pioneer and the NAVY
  - Purchased by the Intelligence Branch of the Military
  - Requirements were not aviation geared
  - Cost Effective / Expeditionary / Fast Development
  - Breaking into the commercial market –
    - Waivers – 2014
    - Research – FAA Selected UAS Test Sties
US Army - 1945 Yank Magazine

- Norma Jean Dougherty (Marilyn Monroe)
- Technician at the Radioplane Munitions Factory
- Photo taken 1944
2012 FAA Reauthorization Bill

- Designated the establishment of the six UAS Test Sites
- Program Requirements – the Administrator shall
  - Safely designate airspace for integrated manned and unmanned flights operations at test ranges
  - Develop certification standards and air traffic requirements for unmanned flight operations at test ranges

Tweet questions #askMAAPFAA
• Program Requirements – continued
  – Coordinate with and leverage the resources of NASA and DoD
  – Address both civil and public UAS
  – Ensure the program is coordinated with NextGen
  – Provide for verification of the safety of UAS and related navigation procedures.
• FAA designated six Test Ranges to support the safe and efficient integration of Unmanned Aircraft Systems (UAS) into the NAS on Dec 30, 2013
• Geographically Diverse
• 25 applicant from 24 states.
• VT/MAAP
  • MD/VA/NJ
The **safe and efficient** integration of Unmanned Aircraft Systems (UAS) into our National Airspace System

- Bring
  - Customers
  - Companies
  - Jobs
  - Public Benefit
  - Data and Research to the FAA to inform the safety case

- Safety First !!!
- Best Value – Industry, University, Government
- Collaboration
- Responsiveness
MAAP Flight Locations

Tweet questions #askMAAPFAA
Early sUAS Applications

Tweet questions #askMAAPFAA
• Highlights
  – First flight August 13, 2014
  – News Media Coalition
  – Let’s Fly Wisely
• Highlights
  – First flight December 5, 2014
    • Transponder/ATC coordination
  – Applications research flights
    • Agriculture/aquaculture
    • Acoustic sensing
    • Performance characterization
  – Summer intern program
  – Public outreach
  – Pro-UAS bill passed
  – New facility

Tweet questions #askMAAPFAA
New Jersey Update

• **Highlights**

  – First Flight: June 2015 at Cape May Airport
  – Conducted Flight Operations with ongoing USCG and General Aviation Operations
  – Research included:
    – Human Factors Assessment of UAS Ground Observer performance
    – Integration of UAS telemetry on Situational Awareness Display
    – Ground Radar Performance
    – Rutgers Aerial Surveying for public and private applications (e.g., emergency management, utility infrastructure, fish and wildlife, construction progress)

  – Planning Several Research Projects

Tweet questions #askMAAPFAA
What are we flying?

As of August 1, 2015

Data collected from the FAA COA Portal

Tweet questions #askMAAPFAA
The Unmanned Aircraft System (UAS) Test Site operated by Virginia Tech; Rutgers, The State University of New Jersey and the University of Maryland under the oversight of the Mid Atlantic Aviation Partnership (MAAP) is dedicated to the responsible integration of UAS into the National Airspace System (NAS). One aspect of this responsible integration is respect for privacy. The purpose of this policy is to provide guidance in the operation of the MAAP UAS Test Site to ensure that in the course of the research, development, test and evaluation process that the privacy of all individuals is respected.
• UAS platform data – radar, telemetry, ADS-B, weather, electromagnetic spectrum, etc
  – Generally does not have privacy concerns
• Operational and payload data – flight crews, electro optic, infrared, LIDAR and sensor data
  – May be considered private
  – Policy is focused on this type of data
Policy Highlights

• No MAAP UAS Test Site operation will have as its mission intentionally collecting the personal information of individuals in the general public where they have an expectation of privacy to include imagery, phone, wireless or other electronic emissions that might contain personal information.

• Sensor data will be treated as follows:

  – Generally speaking, sensor data not associated with FAA UAS Integration research (normally radar, ADS-B, telemetry, etc.) will be destroyed after 14 days.
Policy Highlights

• In the event that a customer requires retention of the data beyond that point, the customer or the UAS test site will be required to certify that
  
  – The data contains no personal information of anyone in the general public in which they have a reasonable assumption of privacy.
  
  – That personal information that has been inadvertently detected has been destroyed or obscured, or
  
  – That permission of the persons in question has been obtained to retain the personal data.

• Full policy available on the MAAP website

http://www.maap.ictas.vt.edu/privacy-2/

Tweet questions #askMAAPFAA
Questions and Answers

Tweet questions #askMAAPFAA