RFRL Briefing – GTR UAS Seminar

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UAS Program Manager, Safety Officer
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Madison Dixon

Current:

• UAS Program Manager, Safety Officer
  MSU Raspet Flight Research Lab.

• UAS Consultant and Aerial Photographer,
  Dixon-Drone

Former:

• Graduate Research Assistant - MSU Raspet Flight Research Lab
• GIS Analyst / UAS Specialist
  – Landpoint, LLC. Bossier City, LA.
  – EMC Surveying & Mapping. Grenada, MS.
• GIS Mapping Technician - Delta State University.
RFRL Roots
History of Aviation Incubation

Aurora Flight Science

Honda Jet

Airbus Helicopter

Stark

GE Aviation
RFRL Today - Nation’s Leading UAS Research Laboratory
The Team

• RFRL is a talented group of engineers, scientists, and aviation operations professionals focused exclusively on unmanned systems
• We own and operate a fleet of the largest and most advanced unmanned aircraft in civil use today
• Our operations staff are some of the most highly-experienced in the nation
  • Our pilots are required to hold FAA-licenses in manned aircraft
  • Our maintainers are required to hold FAA Airplane and Powerplant licenses
  • Our engineers are doing the most advanced RDT&E in the UAS
What We Do

[Image of a drone and a trailer with the text "MSU UNMANNED SYSTEMS" on it.]

Mississippi State University
Raspet Flight Research Laboratory
Raspet Focus Areas

Unmanned Aircraft Systems

Advanced Composites
Trusted Federal Research Partner
DHS National UAS Test Site
What We Fly
NASC Tigershark XP Block 3

- 515 lb. GTOW
- 95 lb. payload
- 21-ft wingspan
- 8+ hour endurance
- 15,000’ Ceiling
- Day/night Operation
Griffon Aerospace Outlaw G2F

- 150 lb. GTOW
- 25 lb. payload
- 14-ft wingspan
- 6 hour endurance
- 50+ NM range
- Day/night Operation
Summary

Raspet Flight Research Laboratory is the nation’s leading academic UAS RDT&E institution.

- National Lead for the FAA’s ASSURE UAS Center of Excellence
- FAA-Designated UAS Test Site
- National Lead for the Department of Homeland Security’s Common UAS Test Site
- $40M in FY19/20 DoD-sponsored UAS research & test
- 100,000 ft² of climate-controlled laboratory, test & hangar facilities

- All focused on growing aerospace technology in Mississippi