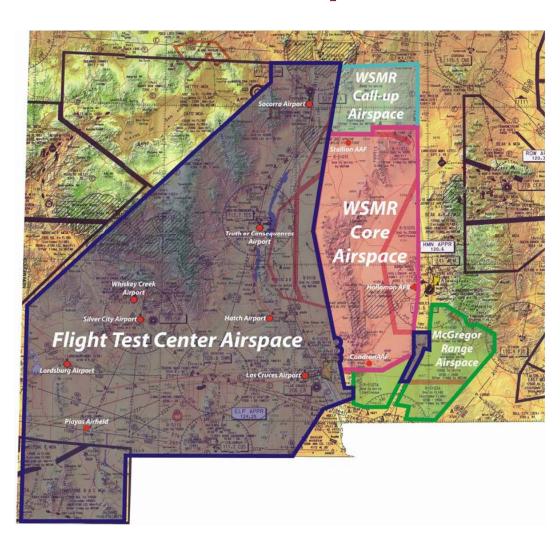


Southwest New Mexico Airspace

- Over 15,000 square miles of available airspace
- Excellent year-round flying conditions
- Uncongested airspace
- Highly varied terrain
- Available Special Use Airspace from "surface to space"



NMSU/TAAC UAS One-Stop Shop for

- UAS Operations
- Flights in Civil Airspace
 - Airspace
 - Personnel
 - Relationships
 - Operational Record
 - Facilities

- Certification and Regulatory Research and Validation
- Platform and Subsystem Demonstrations



UAS Flight Test Center (FTC)

- FTC relevant to all classes of UAS
- FAA-approved process
 - Assess system capabilities
 - Identify and mitigate risks
 - Establish operating limits tailored to UAS capabilities
- Collect and archive data for the FAA
 - System and component information
 - Flight performance
 - Will lead to development of UAS standards and regulations



Who Can Fly Public & Civil UAS

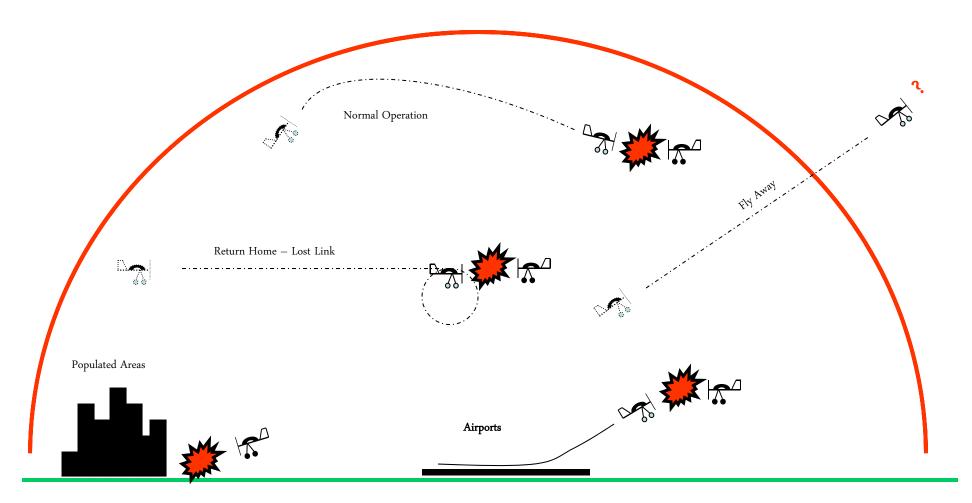
- Government –
 DOD -DOJ -DHS –ARS- DOI- Police etc
- Manufacturers
- Private persons
- Commercial Operators

Expertise/Experience

- 12 years operating UAS in the NAS (non-segregated airspace)
- Special-use airspace experts (NAS High Altitude Ballooning Program)
- UAS experience
 - Three current COAs
 - Assisted DoD with initial domestic and overseas Global Hawk flights; Altair in 2004 from SOCAL to AK and return for Coast Guard demonstration
- Three classes of UAS (tactical, medium, and small) that are used for RDT&E
- International Airspace Coordination

NMSU UAS Pictures





Applicant Provides:

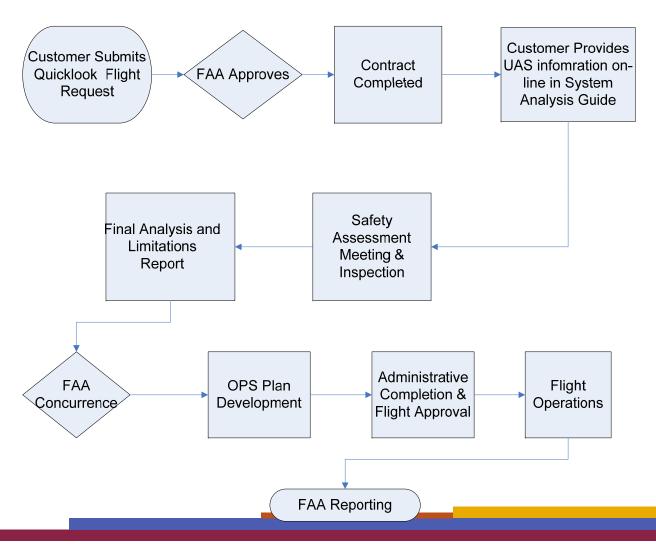
Applicant's Requested Operational Area Description of Operational Area

Description of UA Operations

Description of System Performance



UAS FTC Process Basic





FTC Benefits

- Flexibility to execute wide range of UAS RDT&E operations
 - 15,000 square miles of airspace
 - Access to numerous public airports and private airfields
 - More than one UAS flying (5 mile separation)
- Time from initial inquiry to first flight can occur in matter of weeks depending on complexity of the system
- "File and fly" within COA airspace once initial operating limits established



UAS Flight Operations

Coordinate with

FAA - HQ, Region, ARTCC
DOD Area Freq Coordinator & FCC

- Restrictions General & Platform Specific UAS FTC Imposed FAA Imposed
- Advantages

Scheduling

Terrain – Mountains, Desert, Forest, even Water

More than one UAS as long as separation requirements met

Flight Testing, Training & Demonstrations

- DHS DOI & DOD
- AAI Shadow
- LEA Demo
- Sensors
- UAS Demos
- CONOPS Validation
- Classified & Unclassified

Flight testing













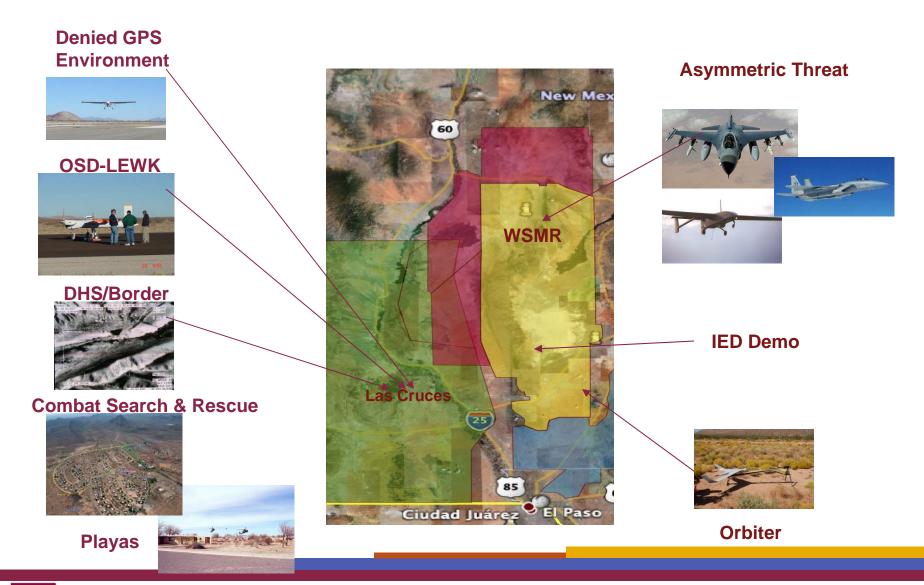




Las Cruces

RDT&E

WSMR



FAA & 6 New UAS Test Ranges

FAA Modernization & Reform Act

- FAA to Select 6 new UAS FTR's for UAS Testing Behind Sched: RFP July –Selection in Dec 12
- Different Regions to address climate and other Factors
- Must be in the NAS Not Segregated Airspace
- Possibly for different UAS types/sizes/capabilities
- NMSU not one of the 6 to be selected
- NMSU "Grandfathered in (7th?)

NMSU UAS FTC "Certified" & "Gold Standard"



TAA TEST Ranges Misconceptions

- All Ranges will be the Same
- All Ranges will be Different
- FAA will Grant Ranges with Airworthiness Authority & Determination
- FAA will Grant File & Fly Authority
- There are Billions of Dollars to be had
- FAA will meet the original timelines



Test Range Timeline Issues

- Personal PRIVACY
 Election Year
- New Congressional Legislation
 One Senate 4 House on UAS/Privacy
 May stop selection of UAS Test Ranges
- New Legislation to Provide FAA with Funds to support and more realistic guidance with monetary support.

Summary

- UAS FTC Location Processes Capabilities
- Experience and purpose
- FAA Involvement
- Flight Procedures
- Congressionally Directed Test Ranges
 Requirements
 Timelines
 Issues

Further Discussions at TAAC UAS Conference 3-7 December 2012 Tamaya Resort Albuquerque, NM

Point of Contact

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