

		ASN	2012-ESA-16-COA-R
		Case Status	APPROVED
		Date Created	02/13/2012
		Date Submitted	03/20/2012
Proponent Organization		Sponsor	Mississippi State University
		Attn Of	(b) (6)
		Address	617 Allen Hall
		Address2	
		City	Mississippi State
		State	MS
		Postal Code	39762
		Telephone	(662) 325-3570
		Email	(b) (6)
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	(b) (6)
		Address	70 Willcutt Block Road
		Address2	
		City	Columbus
		State	MS
		Postal Code	39705
		Telephone	(662) 373-2150
		Email	(b) (6)
Operational Description	Requested Effective Period	Beginning	
		End	
		Light out operation	No
		VFR operation	Yes
		IFR operation	No
		Day operation	Yes
		Night operation	No
		Program Executive Summary	(b) (3) (A), (b) (4)
		Operational Summary	(b) (3) (A), (b) (4)
	Location	State	MS
		County	Lowndes
		Nearest Airport	GOLDEN TRIANGLE RGNL
		AOR	Mississippi
	Class Of Airspace	Class-A	
		Class-B	
		Class-C	
		Class-D	Yes
		Class-E	
		Class-G	
System Description		Aircraft Type	102154739 - Other
		Aircraft Type And Model Description Attachment	1
		Control Station Attachment	1
		Communications System Attachment	1
		List Certified Components (TSO) Attachment	1
		Other Attachment	1
Performance Characteristics		Climb Rate (feet/Minute)	400
		Descent Rate (feet/Minute)	1000
		Turn Rate (Degrees/Second)	3.0
	Cruise Speed	Maximum	120

		Minimum	60
		Approach Speed	65
	Operating Attributes	Maximum MSL	30000
		Minimum MSL	300
		Gross Takeoff Wt	2750.0
		Launch/Recovery Attachment	1
Airworthiness		FAA Type Certificate	
		If No FAA Certificate (Public Aircraft Only) Attachment	1
Procedures		Lost Link/Mission Procedures Attachment	1
		Lost Communications Procedures Attachment	1
		Emergency Procedures Attachment	1
Avionics/Equipment		Equipment Suffix Type	A
		GPS	Yes
		Moving map indicator (Command Station)	Yes
		Tracking capability	Yes
		TCA/MCAS	No
		ELT	No
	Transponder	Transponder	Yes
		On	Yes
		Off	Yes
		Standby	Yes
		Ident	Yes
		Mode S	Yes
		Mode C	Yes
		Transponder Retuneable in Flight	Yes
Lights		Landing	Yes
		Position/Navigation	Yes
		Anti-collision	Yes
		Infrared (IR)	Yes
Spectrum Analysis Approval		Data Link	No
		Data Link Attachment	0
		Control Link(s)	No
		Control Link Attachment	0
		Operations utilizing Radio Control (R/C) frequencies as described in Title 47 CFR 95	Yes
		NTIA/FCC Authorization Attachment	1
ATC Communications	Transmitter VHF Band	VHF Band	Yes
		Quantity	2
		In-Flight Retunable	Yes
	Transmitter UHF Band	UHF Band	Yes
		Quantity	2
		In-Flight Retunable	Yes
	Transmitter HF band	HF Band	No
		Quantity	
		In-Flight Retunable	No
	Receiver VHF Band	VHF Band	Yes
		Quantity	2
		In-Flight Retunable	Yes
	Receiver UHF Band	UHF Band	Yes
		Quantity	2
		In-Flight Retunable	Yes
	Receiver HF band	HF Band	No
		Quantity	
		In-Flight Retunable	No
	Guard (Emergency) Frequencies VHF Band	VHF Band	Yes

		Quantity	1
	Guard (Emergency) Frequencies UHF Band	UHF Band	No
		Quantity	
	Instantaneous Two-Way Voice	Direct to pilot	Yes
		SATCOM	No
		Relay via aircraft	Yes
Electronic Surveillance/ Detection Capability		EO/IR	Yes
		Terrain detection	No
		Weather/icing detection	Yes
		Radar	Yes
		Other Attachment	0
		Electronic detection systems	No
		Electronic detection systems attachment	1
		Radar observation	Yes
		NAS Operational Capability Attachment	0
Visual Surveillance/ Detection Capability	Maximum Distance from UA	Vertical	2500 Feet
		Horizontal	2.5 Nautical Miles
		Airborne based (Chase Aircraft)	No
		Ground based	Yes
		Visual observation from one or more ground sites	Yes
		Forward or side looking cameras	Yes
		Attachment for All	1
Aircraft Performance Recording		Flight data recording	Yes
		Control station recording	Yes
		Voice Recording	No
Flight Aircrew Qualifications	Pilots	Private (Written)	Yes
		Private (Certified)	Yes
		Instrument	Yes
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	No
		Unique Trained Pilot Description	(b) (3) (A), (b) (4)
		DOD certified/trained	No
		Other Certified Training	No
		Trained on FAR Part 91 Requirement	Yes
		Medical Certification Class (FAA or DOD equivalent)	2
		Currency Status	(b) (3) (A), (b) (4)
		Duty Time Restrictions	Duty day will not exceed 8-hours per day
		Single UAS Control	Yes
		UAS Description	Pilot will only control one UA at a time
		Total Numbers of UAS Controlled	1
	Observers	Private (Written)	Yes
		Private (Certified)	Yes
		Instrument	Yes
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	No
		Unique Trained Pilot Description	Observers are also pilots
		DOD certified/trained	No
		Other Certified Training	No
		Trained on FAR Part 91 Requirement	Yes
		DOD Certified Training Attachment	0

		Medical Certification Class (FAA or DOD equivalent)	2
		Currency Status	(b) (3) (A), (b) (4)
		Duty Time Restrictions	Duty day will not exceed 8-hours per day
		Single UAS Control	Yes
		UAS Description	Observers will only observe one UA at a time
		Total Numbers of UAS Controlled	1
Special Circumstances		Special Circumstances	

Flight Operations Area/Plan

Type	User Defin Point	Loc ID	Degree	Distance	Latitude	Longitude	MSL Ceilin	MSL Floor
DEPARTURE					GTR-APT		0	

Total Map Attachment 1

Maximum	Minimum	Radius	SUA Description		
0	33-27-01.20N	88-35-28.90W	2500	264	

120

65

5.0