

		ASN	2011-WSA-103-COA
		Case Status	APPROVED
		Date Created	08/10/2011
		Date Submitted	10/07/2011
Proponent Organization		Sponsor	US Army UAS Project Office
		Attn Of	(b) (6)
		Address	Sparkman Center 2rd Floor
		Address2	
		City	Redstone Arsenal
		State	AL
		Postal Code	35898
		Telephone	(256) 313-3843
		Email	(b) (6)
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	(b) (6)
		Address	SFAE-AV-UAS-AI
		Address2	5300 Sparkman Circle
		City	Redstone Arsenal
		State	AL
		Postal Code	35898
		Telephone	(256) 313-3843
		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	Project Manager Unmanned Aerial Systems requests renewal for the Cochise College Hunter Certificate of Authorization.
		Operational Summary	Operations are conducted at Cochise College, AZ. during daylight hours, 7 days per week. Normally, 2 flights per day, and as many as 10 flights per day. Duration is subject to conducting flight operations up to 12 hours a day, Sunrise to Sunset.
	Location	State	AZ
		County	Cochise
		Nearest Airport	COCHISE COLLEGE
		AOR	Arizona
	Class Of Airspace	Class-A	
		Class-B	
		Class-C	
		Class-D	
		Class-E	Yes
		Class-G	Yes
System Description		Aircraft Type	1987 - MQ-5A/B, RQ-5A - Hunter
		Aircraft Type And Model Description Attachment	1
		Control Station Attachment	1
		Communications System Attachment	1
		List Certified Components (TSO) Attachment	1
		Other Attachment	0
Performance Characteristics		Climb Rate (feet/Minute)	435
		Descent Rate (feet/Minute)	700
		Turn Rate (Degrees/Second)	8.0
	Cruise Speed	Maximum	110
		Minimum	54
		Approach Speed	60
	Operating Attributes	Maximum MSL	18000
		Minimum MSL	2000
		Gross Takeoff Wt	1950.0
		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	U
		GPS	Yes
		Moving map indicator (Command Station)	Yes
		Tracking capability	Yes
		TCA/MCAS	No
		ELT	No
	Transponder	Transponder	Yes
		On	Yes
		Off	Yes
		Standby	No
		Ident	Yes
		Mode S	No
		Mode C	Yes
		Transponder Retuneable in Flight	Yes
Lights		Landing	No
		Position/Navigation	Yes
		Anti-collision	Yes
		Infrared (IR)	Yes
Spectrum Analysis Approval		Data Link	Yes
		Data Link Attachment	0
		Control Link(s)	Yes
		Control Link Attachment	0
		Operations utilizing Radio Control (R/C) frequencies as described in Title 47 CFR 95	No
		NTIA/FCC Authorization Attachment	2
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	Yes
		Quantity	1
	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	No
		Radar	No
		Other Attachment	0
		Electronic detection systems	No
		Electronic detection systems attachment	0
		Radar observation	Yes
		NAS Operational Capability Attachment	0
Visual Surveillance/ Detection Capability	Maximum Distance from UA	Vertical	3000 Feet
		Horizontal	1.0 Nautical Miles
		Airborne based (Chase Aircraft)	Yes
		Ground based	Yes
		Visual observation from one or more ground sites	Yes
		Forward or side looking cameras	No
		Attachment for All	1
Aircraft Performance Recording		Flight data recording	Yes
		Control station recording	Yes
		Voice Recording	No
Flight Aircrew Qualifications	Pilots	Private (Written)	No
		Private (Certified)	No
		Instrument	No
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	No
		Unique Trained Pilot Description	N/A
		DOD certified/trained	Yes
		Other Certified Training	No
		Trained on FAR Part 91 Requirement	Yes
		Medical Certification Class (FAA or DOD equivalent)	3
		Currency Status	60 Day currency requirements consisting of one take-off, one landing/recovery, one hour of flight time and an annual check ride.
		Duty Time Restrictions	12 hours, of which only 10 hours can be at the UAS controls/station.
		Single UAS Control	Yes
		UAS Description	
		Total Numbers of UAS Controlled	1
	Observers	Private (Written)	No
		Private (Certified)	No
		Instrument	No
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	No
		Unique Trained Pilot Description	N/A
		DOD certified/trained	Yes
		Other Certified Training	No
		Trained on FAR Part 91 Requirement	Yes
		DOD Certified Training Attachment	0
		Medical Certification Class (FAA or DOD equivalent)	3
		Currency Status	60 Day currency requirements consisting of one take-off, one landing/recovery, one hour of flight time and an annual check ride.
		Duty Time Restrictions	12 hours, of which only 10 hours can be at the UAS controls/station.
		Single UAS Control	Yes

		UAS Description	
		Total Numbers of UAS Controlled	1
Special Circumstances		Special Circumstances	<p>Operations are from Sunrise to Sunset, Day, VFR.</p> <p>Medical Certification Requirements: IAW DOD Standards</p> <p>This application is a replacement for ASN: 2010-WSA-23-COA</p> <p>See attached document for Traffic Pattern Procedures-V3.</p> <p>See attached document for Standard Route of Flight.</p> <p>See attached document for defined Operational Area, supports Flight Operations Area/Plan</p> <p>See attached document for Flight Operations, LOP with Cochise and Ft. Huachuca. Verified that both documents are current.</p>

Flight Operations Area/Plan

Type	User Defin Point	Loc ID	Degree	Distance	Latitude	Longitude	MSL Ceilin
DEPARTURE					P03-APT		0
WAYPOINT					P03-APT		0
USER DEFINED ARE CochiseAO			1				
			2				
			3				
			4				
			5				
			6				
			7				

Total Map Attachment 1

MSL Floor	Maximum ! Minimum S	Radius	SUA Description	
0		31-22-15.90N	109-41-25.30W	17999
0		31-22-15.90N	109-41-25.30W	17999
		31-21-22.00N	109-05-32.00W	17999
		31-20-52.00N	110-00-10.00W	17999
		31-33-53.00N	110-08-36.00W	17999
		31-40-27.00N	110-11-03.00W	17999
		31-49-58.00N	109-59-51.00W	17999
		32-26-59.00N	110-00-02.00W	17999
		32-33-42.00N	109-06-12.00W	17999

[illegible]