

		ASN	2009-CSA-74-COA
		Case Status	APPROVED_EXT
		Date Created	10/07/2009
		Date Submitted	12/18/2009
Proponent Organization		Sponsor	US Army - Fort Hood
		Attn Of	IMWE-HOD-PLA-ATA
		Address	Air Traffic and Airspace
		Address2	Bldg 90067 Clarke Road
		City	Fort Hood
		State	TX
		Postal Code	76544-5032
		Telephone	(254) 288-1424
		Email	(b) (6) @us.army.mil
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	(b) (6)
		Address	Air Traffic and Airspace
		Address2	Bldg 90067 Clarke Rd
		City	Fort Hood
		State	TX
		Postal Code	76544-5032
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Operational Description	Requested Effective Period	Beginning	
		End	
		Light out operation	No
		VFR operation	Yes
		IFR operation	No
		Day operation	Yes
		Night operation	Yes
		Program Executive Summary	This is a Renewal COA for 2008-CSA-64. The Hunter UAS (RQ-5/MQ-5) operations from Robert Gray AAF in support of operator currency and training.
		Operational Summary	Operations of the Hunter UAS in the Robert Gray Army Airfield Class "D" and adjacent Class "E" airspace at or below 3500ft MSL. The UAS will launch/recover to/from Robert Gray AAF, taxiway "A", transition to/from R-6302, then return via the same route. Closed traffic pattern operations will also be conducted within the Robert Gray AAF Class "D" airspace. Both Day and Night launch and recovery operations will be conducted only on Saturday through Sunday. Detailed flight path and operations are provided in the Flight Operations Area/Plan section. Risk mitigation for Night Operations: Locally, the UAS Night Schedule shall be published at the Base Operations for visibility to Manned Aircraft pilots. Mitigations of manned aircraft schedules and UAS schedules (ATC shall be involved in the visibility of these schedules) shall be done locally prior to the time of execution. Both ATC and the UAS Operators shall be proactive during all phases of Night Operations. Local NOTAMs shall be published to the public about UAS Ops during night time. UAS Flight Operations will be monitored by Robert Gray ARAC (Flight Checked Radar) at all times. The unit will have more ground observers during night operations by the unit. All UAS Operations shall strictly be in the Restricted Area.
	Location	State	TX
		County	Coryell
		Nearest Airport	METROPLEX HOSPITAL
		AOR	Texas - Central
	Class Of Airspace	Class-A	

		Class-B	
		Class-C	
		Class-D	Yes
		Class-E	Yes
		Class-G	
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)	500
		Descent Rate (feet/Minute)	1000
		Turn Rate (Degrees/Second)	3
	Cruise Speed	Maximum	110
		Minimum	55
		Approach Speed	60
	Operating Attributes	Maximum MSL	12000
		Minimum MSL	5000
		Gross Takeoff Wt	1800 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	B
		GPS	Yes
		Moving map indicator (Command Station)	Yes
		Tracking capability	No
		TCA/MCAS	No
		ELT	No
	Transponder	Transponder	Yes
		On	Yes
		Off	Yes
		Standby	Yes
		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	0
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	Yes
		Relay via aircraft	Yes

Electronic Surveillance/Detection Capability		EO/IR	Yes
		Terrain detection	Yes
		Weather/icing detection	No
		Radar	No
		Other Attachment	1
		Electronic detection systems	No
		Electronic detection systems attachment	0
		Radar observation	Yes
		NAS Operational Capability Attachment	1
Visual Surveillance/Detection Capability	Maximum Distance from UA	Vertical	3000 Feet
		Horizontal	1.0 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	3
Aircraft Performance Recording		Flight data recording	Yes
		Control station recording	Yes
		Voice Recording	Yes
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	DOD certified and trained Operators.
		DOD certified/trained	Yes
		Other Certified Training	Yes
		Trained on FAR Part 91 Requirement	Yes
		Medical Certification Class (FAA or DOD equivalent)	3
		Currency Status	Medical Class 3 is in compliance with Army Regulations. Currency requirements mandated by proponent IAW AR 95-23
		Duty Time Restrictions	Max length of duty 12 hours with a minimum 8 hours of crew rest. See attachment.
		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	DOD certified and trained Operators.
		DOD certified/trained	Yes
		Other Certified Training	Yes
		Trained on FAR Part 91 Requirement	Yes
		DOD Certified Training Attachment	0
		Medical Certification Class (FAA or DOD equivalent)	3
		Currency Status	Medical Class 3 is in compliance with Army Regulations. Per DOD Requirements
		Duty Time Restrictions	Per DOD Requirements
		Single UAS Control	Yes
		UAS Description	
		Total Numbers of UAS Controlled	1
Special Circumstances		Special Circumstances	This is a Renewal COA for 2008-CSA-64. Medical Class 3 for pilots and observers are in compliance with Army Regulations.

Type	User Define Area D	Point	Loc ID	Degree	Distance	Latitude	Longitude	MSL Ceiling	MSL Floor	Maximum Speed	Minimum Speed	Radius	SUA Description
DEPARTURE		31-07-01 64N		97-51-38.66W		3500		500	1.0				
WAYPOINT		31-07-01 64N		97-51-38.66W		3500		500	1.0				
WAYPOINT		31-09-26.78N		97-51-46.08W		3500		500	1.0				
ARRIVAL		31-11-24 32N		97-48-36.86W		3500		500	1.0				