

		ASN	2009-WSA-136-COA
		Case Status	EXPIRED
		Date Created	12/23/2009
		Date Submitted	12/23/2009
Proponent Organization		Sponsor	US Army UAS Project Office
		Attn Of	SFAE-AV-UAS (b) (6)
		Address	Sparkman Center 2nd Floor
		Address2	
		City	Redstone Arsenal
		State	AL
		Postal Code	36898
		Telephone	(256) 842-0421
		Email	(b) (6) @us.army.mil
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	(b) (6)
		Address	SFAE-AV-UAS-TM
		Address2	5300 Sparkman Circle
		City	Redstone Arsenal
		State	AL
		Postal Code	35898
		Telephone	(256) 313-5445
		Email	(b) (6) @us.army.mil
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	The U.S. Army has a requirement to operate the Raven UAS outside of restricted and /or warning areas for the purpose of training and/or operational flights at a production facility in Simi Valley and Fillmore, CA.
		Operational Summary	Operation of Raven UAS in Class G airspace, at or below 400 feet AGL, in the vicinity of Simi Valley and Fillmore, CA. Daily, 7 days a week, up to 1500 flights per month, .3 flight hours per flight.
	Location	State	CA
		County	Ventura
		Nearest Airport	FIRST INTERSTATE BANK
		AOR	California - Southern
	Class Of Airspace	Class-A	
		Class-B	
		Class-C	
		Class-D	
		Class-E	
		Class-G	Yes
System Description		Aircraft Type	1988 - RQ-11A/B - Raven
		Aircraft Type And Model Description Attachment	0
		Control Station Attachment	1
		Communications System Attachment	1
		List Certified Components (TSO) Attachment	1

		Other Attachment	0
Performance Characteristics		Climb Rate (feet/Minute)	800
		Descent Rate (feet/Minute)	600
		Turn Rate (Degrees/Second)	15
	Cruise Speed	Maximum	60
		Minimum	25
		Approach Speed	30
	Operating Attributes	Maximum MSL	400
		Minimum MSL	0
		Gross Takeoff Wt	4.2
		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	X
		GPS	Yes
		Moving map indicator (Command Station)	Yes
		Tracking capability	Yes
		TCA/MCAS	No
		ELT	No
	Transponder	Transponder	No
		On	
		Off	
		Standby	
		Ident	
		Mode S	
		Mode C	
		Transponder Retuneable in Flight	
Lights		Landing	No
		Position/Navigation	Yes
		Anti-collision	No
		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	No
		Quantity	
		In-Flight Retunable	No
	Transmitter UHF Band	UHF Band	No
		Quantity	
		In-Flight Retunable	No
	Transmitter HF band	HF Band	No
		Quantity	
		In-Flight Retunable	No
	Receiver VHF Band	VHF Band	No
		Quantity	
		In-Flight Retunable	No
	Receiver UHF Band	UHF Band	No
		Quantity	
		In-Flight Retunable	No
	Receiver HF band	HF Band	No
		Quantity	
		In-Flight Retunable	No
	Guard (Emergency) Frequencies VHF Band	VHF Band	No
		Quantity	
	Guard (Emergency) Frequencies UHF Band	UHF Band	No
		Quantity	
	Instantaneous Two-Way Voice	Direct to pilot	No
		SATCOM	No
		Relay via aircraft	No
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	No
		NAS Operational Capability Attachment	0
Visual Surveillance/Detection Capability	Maximum Distance from UA	Vertical	400 Feet
		Horizontal	0.5 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	No
		Control station	Yes

		recording	
		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)	2
		Currency Status	IAW AR 95-23
		Duty Time Restrictions	14 Hours Daily
		Single UAS Control	Yes
		UAS Description	Raven UAS
		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)	2
		Currency Status	IAW AR 95-23
		Duty Time Restrictions	14 Hours Daily
		Single UAS Control	Yes
		UAS Description	Raven UAS
		Total Numbers of UAS Controlled	1

Special Circumstances		Special Circumstances	This is a renewal of UAS COA #2008-WSA-54. This UAS COA request replaces 2009-WSA-123 that was committed on 4 Nov 09 and released on 30 Nov 09 and had a requested start date of 1/26/10. Once released, UAS COA #2009-WSA-123 became locked and cannot be modified. Repeated attempts by the COA Online Help Desk to resolve the issue have been unsuccessful, therefore, a new case was developed. The UAS COA request applies specifically to the Raven UAS. The Flight Operations Map and Lost Link Procedures were taken from approved UAS COA #2008-WSA-54. Medical Certification is DOD Equivalent. Since a case cannot be submitted within 60 days of commencement of flight, request this UAS COA begin on 26 Feb 10 or the date depicted on pending extension.
--------------------------	--	--------------------------	--

Flight Operations Area/Plan

Type	User Define Area D	Point	Loc ID	Degree	Distance	Latitude	Longitude	MSL Ceiling	MSL Floor	Maximum Speed	Minimum Speed	Radius	SUA Description
DEPARTURE		34-19-10 00N				118-47-36 00W	1000		500	60	25		
ARRIVAL		34-19-10 00N				118-47-36 00W	1000		500	60	25		

Total Map  
Attachment 1