		ASN	2011-WSA-28-COA
		Case Status	APPROVED
		Date Created	02/14/2011
		Date Submitted	03/23/2011
Proponent			
Organization		Sponsor	United States Special Operations Command (USSOCOM)
		Attn Of	XXXXXXXXX Exemption 6 & Exemption 3, 10 USC 130b
		Address	100 Bartley St.
		Address2	Ste. 110 S
		City	Hurlburt Field
		State	FL
		Postal Code	32544
		Telephone	XXXXXXXXX Exemption 6 & Exemption 3, 10 USC 130b
		Email	XXXXXXXXX Exemption 6 & Exemption 3, 10 USC 130b
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of			
Contact		Representative	XXXXXXXXX Exemption 6 & Exemption 3, 10 USC 130b
		Address	100 Bartley St. Ste. 110S
		Address2	
		City	Hurlburt Field
		State	FL
		Postal Code	32544
		Telephone	XXXXXXXXXX Exemption 6 & Exemption 3, 10 USC 130b
		Email	XXXXXXXXX Exemption 6 & Exemption 3, 10 USC 130b
Operational	Requested Effective	-	
Description	Period	Beginning	
Description		End	
		Light out operation	No
		VFR operation	Yes
		IFR operation	No
		Day operation	Yes
		Night operation	Yes
			Request approval for RQ-7 Shadow operations for Pilot/Operator proficiency and integration training that will provide persistent
		Program Executive Summary	organic ISR for SOF personnel in support of U.S. Special Operations Command (USSOCOM) objectives. Training will be conducted entirely within the Pinon Canyon Military Operations Area (MOA) located approximately 27 miles northeast of Trinidad, CO. The training program curriculum is USSOCOM certified and is compliant with USSOCOM Directive 350-9 to include; hands- on system operation from fixed position, simulator training, airspace management, standard operating procedures and system malfunction troubleshooting and recovery. Flights will be conducted by USSOCOM under the direction of certified USSOCOM personnel. Aerial observers are also certified Shadow operators.
			Single Shadow UAS operations in the Pinon Canyon MOA will be conducted within the activated Pinon Canyon MOA and Class G airspace from the surface up to but not including 4,000 feet AGL. Operations will be conducted a maximum of 6 days a week and up to 12-hours per day in VFR conditions. Operations between the hours of sunset to sunrise will be isolated in an area within 3 NM from the Pinon Canyon AAF over the Fort Carson Military Reservation and observers will be aided with night vision goggles (NVGs); this area may also be used for daylight missions and below 2000' AGL without the aid of NVGs. Visual observers will remain in communication with the PIC and will be positioned so that they remain within visual line of sight of the UAS during all operations. Chase aircraft will be utilized for daylight-only missions operating above 2000' AGL and outside 3NM from the Pinon Canyon AAF and require weather minimums of 3000'/3. Chase aircraft pilots are required to be in contact with Denver ARTCC, as well as the GCS. All flights (including chase aircraft) will be conducted with functional transponders and Mode C. The Launch and

	Location	State	СО
		County	Las Animas
		Nearest Airport	PINON CANYON
		AOR	Colorado
		Class-A	
	Class Of Allspace	Class-B	
		Class-C	
		Class-D	
		Class-E	Yes
		Class-G	
Custom		Class-G	Yes
System Description		Aircraft Type	102154768 - Shadow
Description		Aircraft Type	102134706 - Silauow
		Aircraft Type And Model	
			3
			2
		Communications System	
		Attachment	
		List Certified Components	
		(TSO) Attachment	1
		Other Attachment	0
Performance			
Characteristics		Climb Rate (feet/Minute)	500
			500
		Turn Rate (Degrees/Second)	10
	Cruise Speed	Maximum	110
			50
		Approach Speed	60
	Operating Attributes	Maximum MSL	15000
		Minimum MSL	200
		Gross Takeoff Wt	380.0
		Launch/Recovery Attachment	
Airworthiness		FAA Type Certificate	
		If No FAA Certificate (Public	
		Aircraft Only) Attachment	1
		Lost Link/Mission Procedures	
Procedures		Attachment	1
		Lost Communications	
		Procedures Attachment	1
		Emergency Procedures	
		Attachment	1
Avionics/Equip			
ment		Equipment Suffix Type	G
		GPS	Yes
		Moving map indicator	
			Yes
		Tracking capability	Yes
		TCA/MCAS	No
			No
	Trananandar		Yes
	Transponder	Transponder	105

		-	
		On	Yes
		Off	Yes
		Standby	Yes
		Ident	Yes
		Mode S	Yes
		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	
		NTIA/FCC Authorization	
470		Attachment	4
ATC Communicatio	Transmitter VHF		
Ins	Band	VHF Band	Yes
113	Dana	Quantity	1
		In-Flight Retunable	Yes
	Transmitter UHF		
	Band	UHF Band	Yes
		Quantity	1
		In-Flight Retunable	Yes
	Transmitter HF		
	band	HF Band	No
		Quantity	
		In-Flight Retunable	No
	Receiver VHF Band		Yes
		Quantity	1
		In-Flight Retunable	Yes
	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
I	Dana		

	1	Quantity	
		Quantity	
	Guard (Emergency) Frequencies UHF		
	Band	UHF Band	
	Band		Yes
	1	Quantity	
	Instantaneous Two-	Disc et to will be	
	Way Voice	Direct to pilot SATCOM	Yes
			No
Et a star star		Relay via aircraft	No
Electronic			
Surveillance/D			
etection		50//B	N-
Capability		EO/IR	No No
			No
l		Radar	No
			0
			No
		Electronic detection systems	
			0
		Radar observation	Yes
		NAS Operational Capability	
		Attachment	0
Visual			
Surveillance/D			
etection	Maximum Distance		
Capability	from UA	Vertical	2000 Feet
		Horizontal	3.0 Nautical Miles
		Airborne based (Chase	
		Aircraft)	Yes
		Ground based	Yes
		Visual observation from one or	
		more ground sites	Yes
1		Forward or side looking	
		cameras	Yes
		Attachment for All	1
Aircraft			
Performance			
Recording		Flight data recording	Yes
		Control station recording	Yes
		Voice Recording	Yes
Flight Aircrew			
	Pilots	Private (Written)	Νο
	Pilots	Private (Written) Private (Certified)	No No
	Pilots	Private (Written)	Νο
	Pilots	Private (Written) Private (Certified) Instrument Commercial	No No No No
	Pilots	Private (Written) Private (Certified) Instrument Commercial Air Transport	No No No
	Pilots	Private (Written) Private (Certified) Instrument Commercial Air Transport Unique Trained Pilot	No No No No
	Pilots	Private (Written) Private (Certified) Instrument Commercial Air Transport	No No No No No

		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	All operators are required to meet medical standards.
		Duty Time Restrictions	Duty day will not exceed 8 hours.
		Single UAS Control	Yes
		UAS Description	Operators will only control one UAS at a given time.
		Total Numbers of UAS	
		Controlled	1
	Observers	Private (Written)	No
		Private (Certified)	No
		Instrument	No
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	Yes
		Unique Trained Pilot	Trained IAW AR 90-23 and the Army Shadow Course of Instruction which has been validated by USSOCOM. Airborne observers
		Description	are also Shadow Air Vehicle Operators.
		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	All observers are required to meet medical standards.
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		Controlled	1
Special			
Circumstances		Special Circumstances	Chase Plane SOP v5.1.pdf discusses Chase Aircraft re-join.
Circumstances		opecial circuitistatices	