		ASN	2011-WSA-111-COA
		Case Status	APPROVED
		Date Created	09/18/2011
		Date Submitted	10/28/2011
Proponent Organization		Sponsor	US Army UAS Project Office
		Attn Of	(b) (6)
		Address	5300 Sparkman Circle
		Address2	Sparkman Center 2rd Floor
		City	Redstone Arsenal
		State	AL
		Postal Code	36898
		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	Yes
		Program Executive Summary	US Army Warrior ERMP Unmanned Aircraft Systems operations and training conducted at Libby Army Airfield and FT Huachuca and R-2303.
		Operational Summary	The Department of the Army has tasked USA AMCOM,PEO-AV-PM-UAS to conduct new equipment training for USA TRADOC-Unmanned Aircraft Systems Battalion, Fort Huachuca soldiers and DOD designated operators on Warrior ERMP UAS. Due to the operating characteristics of the Warrior ERMP Unmanned Aircraft the UA must operate from a paved runway that is a minimum of 4,000 feet in length with required approach and departure safety zones. Libby Army Airfield is the only site at Fort Huachuca that meets this requirement. Libby AAF underlies R-2303A and is excluded from that restricted area. The flight operation will launch/recover to/from Libby AAF, transition to R-2303, then return via same route and including traffic pattern training at Libby AAF. Aircraft maximum altitude is 25,000 MSL (while operating within restricted airspace) with normal airport traffic pattern altitude during training flights. Continuous operations, 7 days a week. Normal duration of flight is 10 hours. UAS flights will not be conducted when Libby ATC is closed.
	Location	State	AZ
		County	Cochise
		Nearest Airport	SIERRA VISTA MUNI-LIBBY AAF
		AOR	Arizona
	Class Of Airspace	Class-A	
		Class-B	
		Class-C	
		Class-D	Yes
		Class-E	
		Class-G	
System Description		Aircraft Type	
		Aircraft Type And Model Description Attachment	2
		Control Station Attachment	1
		Communications System Attachment	1
		List Certified Components (TSO) Attachment	1
		Other Attachment	0
Performance Characteristics		Climb Rate (feet/Minute)	700
		Descent Rate (feet/Minute)	600
		Turn Rate (Degrees/Second)	40.0
	Cruise Speed	Maximum	120
		Minimum	66
		Approach Speed	75
	Operating Attributes	Maximum MSL	25000

		Minimum MSL	1200
		Gross Takeoff Wt	2250.0
		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	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 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	2

	Guard (Emergency) Frequencies UHF Band	UHF Band	Yes
		Quantity	2
	Instantaneous Two-Way Voice	Direct to pilot	Yes
		SATCOM	Yes
		Relay via aircraft	Yes
Electronic Surveillance/ Detection Capability		EO/IR	Yes
		Terrain detection	No
		Weather/icing detection	Yes
		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	1.74 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)	No
		Private (Certified)	No
		Instrument	No
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	No
		Unique Trained Pilot Description	
		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	IAW AR 95-23
		Duty Time Restrictions	IAW AR 95-23
		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/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	IAW AR 95-23
		Duty Time Restrictions	IAW AR 95-23
		Single UAS Control	Yes
		UAS Description	
		Total Numbers of UAS Controlled	1
Special Circumstances		Special Circumstances	Army Operators and Observers are medically certified IAW DOD Standards. See Air Worthiness Release for specific configuration of this aircraft. This Block of UAS will be used for training and configuration will remain stable. Night Operations Mitigation is addressed in the attached Special Circumstances Document titled "Night Operations Mitigation". This request is a replacement of UAS COA #2010-WSA-62-COA.

Flight Operations Area/Plan

Type	User Defin Point	Loc ID	Degree	Distance	Latitude	Longitude	MSL Ceilin
USER DEFINED ARE	KFHU		1				
SUA							
SUA							
SUA							
USER DEFINED ARE	KFHU		1				

Total Map Attachment 1

MSL Floor	Maximum	Minimum	Radius		SUA Description
			31-35-00.00N	110-20-00.00W	7000
			31-35-00.00N	110-20-00.00W	7000

0	120	60	3.0
				Restricted a
				Restricted a
				Restricted a
0	120	60	3.0

area - 2303A: BEGINNING AT LAT. 31-40-40N, LONG. 110-11-2W; TO LAT. 31-34-0N, LONG. 110-8
area - 2303B: BEGINNING AT LAT. 31-45-0N, LONG. 110-20-2W; TO LAT. 31-41-0N, LONG. 110-12
area - 2303C: BEGINNING AT LAT. 31-35-0N, LONG. 110-0-2W; TO LAT. 31-24-0N, LONG. 110-0-2

3-32W; TO LAT. 31-34-0N, LONG. 110-22-2W; TO LAT. 31-33-0N, LONG. 110-23-2W; TO LAT. 31-29
2-2W; TO LAT. 31-40-40N, LONG. 110-11-2W; TO LAT. 31-34-0N, LONG. 110-8-32W; TO LAT. 31-34
W; TO LAT. 31-24-0N, LONG. 110-25-2W; TO LAT. 31-29-0N, LONG. 110-25-2W; TO LAT. 31-29-0N

-0N, LONG. 110-23-2W; TO LAT. 31-29-0N, LONG. 110-41-32W; TO LAT. 31-34-0N, LONG. 110-43-
-0N, LONG. 110-22-2W; TO LAT. 31-33-0N, LONG. 110-23-2W; TO LAT. 31-29-0N, LONG. 110-23-2
, LONG. 110-23-2W; TO LAT. 31-33-0N, LONG. 110-23-2W; TO LAT. 31-34-0N, LONG. 110-22-2W;

32W; TO LAT. 31-38-30N, LONG. 110-42-2W; TO LAT. 31-38-30N, LONG. 110-39-32W; TO LAT. 31-
W; TO LAT. 31-29-0N, LONG. 110-25-2W; TO LAT. 31-24-0N, LONG. 110-25-2W; TO LAT. 31-24-0N
TO LAT. 31-34-0N, LONG. 110-8-32W; TO LAT. 31-40-40N, LONG. 110-11-2W; TO THE POINT OF I

-41-0N, LONG. 110-33-32W; TO LAT. 31-41-0N, LONG. 110-12-2W; TO THE POINT OF BEGINNING

I, LONG. 110-45-2W; TO LAT. 31-45-0N, LONG. 110-45-52W; TO THE POINT OF BEGINNING.

BEGINNING.

.