

		ASN	2010-ESA-5-COA
		Case Status	EXPIRED
		Date Created	01/12/2010
		Date Submitted	01/22/2010
Proponent Organization		Sponsor	Camp Shelby Joint Forces Training Center (CSJFTC)
		Attn Of	DPTMS-AVN
		Address	1001 Lee Avenue
		Address2	
		City	Camp Shelby
		State	MS
		Postal Code	39407-5500
		Telephone	(601) 558-2256
		Email	(b) (6) @us.army.mil
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	(b) (6)
		Address	1001 Lee Avenue
		Address2	
		City	Camp Shelby
		State	MS
		Postal Code	39407-5500
		Telephone	(601) 826-9465
		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	Yes
		Program Executive Summary	Request a renewal of Certificate of Authorization (COA) certificate (2008-ESA-45) signed 9 March, 2009.Units will conduct RQ-7B Shadow 200 Tactical Unmanned Aircraft System (TUAS)operations from Camp Shelby's Hagler Army Airfield (HAAF) into restricted area R-4401. Restricted area entry point for Unmanned Aircraft (UA) is approximately .75 NM North East of the airfield (Check Point Alpha, 31°18.512N 089°06.216W). Operation will be conducted day and night, VFR, at yet to be determined prescheduled periods. Operations are conducted for proficiency and evaluation of operators and also for preparation of operators and systems for overseas deployment.
		Operational Summary	Launch and recovery operations for the RQ-7B will be conducted from HAAF which is located in Class G airspace (See attached map in "Flight Operations Area/Plan" tab). Flights departing from HAAF will transition directly to R-4401 at or below 1,000' MSL. Recovery operations terminating at HAAF will exit R-4401 at 1,000 MSL via a direct route and return to HAAF. Route of flight to and from R4401 is less than 1 NM. Flights will be conducted daily, intermittently, 24 hours a day. Three holding areas have been established for holding UA clear of the HAAF traffic pattern and Camp Shelby Air Traffic if required for deconfliction with manned aircraft activities. (see attachments in "Flight Operations Area/Plan" tab) Operators will monitor CTAF frequency and ensure that the airspace is clear of non-participating aircraft prior to launch and recovery.
	Location	State	MS
		County	Forrest
		Nearest Airport	HAGLER AAF
		AOR	Mississippi
	Class Of Airspace	Class-A	

		Class-B	
		Class-C	
		Class-D	
		Class-E	
		Class-G	Yes
System Description		Aircraft Type	8063 - Shadow - RQ-7B
		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)	600
		Turn Rate (Degrees/Second)	6
	Cruise Speed	Maximum	118
		Minimum	60
		Approach Speed	70
	Operating Attributes	Maximum MSL	3000
		Minimum MSL	0
		Gross Takeoff Wt	375.0
		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	No
		Mode C	Yes
		Transponder Retuneable in Flight	Yes

Lights		Landing	Yes
		Position/Navigation	Yes
		Anti-collision	Yes
		Infrared (IR)	No
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	5
		In-Flight Retunable	Yes
	Transmitter UHF Band	UHF Band	Yes
		Quantity	5
		In-Flight Retunable	Yes
	Transmitter HF band	HF Band	No
		Quantity	
		In-Flight Retunable	No
	Receiver VHF Band	VHF Band	Yes
		Quantity	5
		In-Flight Retunable	Yes
	Receiver UHF Band	UHF Band	Yes
		Quantity	5
		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	No
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	No
		NAS Operational Capability Attachment	0
Visual Surveillance/Detection Capability	Maximum Distance from UA	Vertical	1000 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	1
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	Operators and Pilots are trained and certified in accordance with DOD regulations.
		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	Operators and Pilots maintain currency in accordance with DOD regulations.
		Duty Time Restrictions	Duty time restriction are maintained in accordance with DOD regulations.
		Single UAS Control	Yes
		UAS Description	Operators and observers will be responsible for one UAS per mission.
		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	Operators and Pilots are trained and certified in accordance with DOD regulations.
		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
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Special Circumstances		Special Circumstances	<p>CSJFTC is a mobilization and deployment site for units deploying to CENTCOM area of responsibility.</p> <p>NOTAMS will be submitted 72 hours prior to conducting TUAS operations from HAAF.</p> <p>Night operations mitigation:</p> <ol style="list-style-type: none"> 1. Position/navigation/anti-collision strobe lights shall be activated at all times during flight. Pilots and observers are trained to identify the lighting configuration of the Shadow RQ-7B. 2. Multiple observers used to monitor UAS during night operations. Night vision goggles will be utilized if necessary. 3. Operations will not be conducted until 1 hour after official sunset to allow observers time for night vision adaptation.

Flight Operations Area/Plan

Type	User Define Area ID	Point	Loc ID	Degree	Distance	Latitude	Longitude	MSL Ceiling	MSL Floor	Maximum Speed	Minimum Speed	Radius	SUA Description
DEPARTURE		SLJ-APT	0	0		31-10-25.64N		89-11-28.20W	3000	0	120	60	1.0
SUA	Restricted area - 4401A: BEGINNING AT LAT. 31-12-55N, LONG. 89-11-3W; TO LAT. 31-11-49N, LONG. 89-0-0W; TO LAT. 31-10-16N, LONG. 88-56-34W; TO LAT. 31-4-37N, LONG. 88-56-34W; TO LAT. 31-4-37N, LONG. 89-11-0W; TO POINT OF BEGINNING.												