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| | | 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 | |

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|-----------------------------|----------------------|---|-----------------------|
| | | 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 |

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| 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 |

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| | | 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 |

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| | | 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 | 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 |
| 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 | 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. |