

## Aircraft System

a. Aircraft Type and Model: RQ-7B Shadow 200

b. Description of Aircraft System: (Attach any info, presentations, graphics or photos and send along with application)



1. wing assembly 2. engine
3. propeller 4. empennage assembly
5. antenna system 6. arresting hook
7. landing gear system 8. flight termination system
9. electro-optical/infrared payload 10. fuselage

The RQ-7B is controlled by an automatic takeoff and landing system, it is rail catapult launched and uses a tail hook for rolling arrested recoveries, both within an area of 960' length by 50'. Emergency landings are by use of a parachute. The UA has standard aircraft red and green position lights, a white anti-collision strobe light arrangement, a remotely programmable Mode 3A/C and Mode 4 (IFF) transponder, and GPS navigation. Standard mission beacon codes for UA operations will be coordinated through Houston Center. Navigation can be preprogrammed autonomous or through direct control by the Aircraft Operator (AO). Autonomous navigation is for executing preprogrammed missions via GPS waypoints and certain emergency procedures. Recovery and landing is performed autonomously by the TALS, a process similar to an Instrument Landing System (ILS) approach for manned aircraft.

Wing Span 14 feet

Weight 375 lbs

Range ~ 125 km

Endurance 5 Hours @ 50 km

Primary Payload (s) EO / IR (up to 60 lb)

Launch / Recovery 100m x 50m Area

Transponder mode 3 A/C