

HSAC Preferred Airplane Equipment Fit For Aerial Observations (RP) # 2006-02

Background: Proper equipment fit is essential for safe operations involving aerial patrol surveillance and the following are recommendations from HSAC.

Airplane Equipment	
---------------------------	--

Avionics/Navigation Equipment

IFR Equipped	M
1 VHF Transceivers	
GPS (IFR TSO preferred)	
Mode C or S Transponder (or equivalent)	
Crew Headsets (GR)	
ELT with TSO 126 or equivalent preferred (1)	
Ground Proximity Warning System (RADALT, GPWS, TAWS)	MLT

Survival Equipment

First Aid Kit	M
Fire Extinguisher (pressure gauge preferred)	M
Upper Torso Restraint (2)	M
1 Raft with ability to attach to aircraft via lanyard (Extended Over Water Flights)	M
Life jackets with attached single devices, and water activated lights (Extended Over Water Flights)	M
Survival Equipment, appropriate for environment being flown (Arctic, Desert, Jungle, Sea, etc.)	M

Passenger Management/Survivability

Passenger Briefing Cards	M
Carbon Monoxide Detector in Cockpit (Visual or Electronic) (3)	
Environmental Control Unit (AC or Heater) Environment Driven	MLT

Other

Fuel Dipstick (Model Dependant)	M
Fuel Tester (Model Dependant)	
Collision Avoidance System (6)	MLT
Real Time Flight Following System (Blue Sky, etc)	
Landing Light and Wing tip Pulse Lights (4)	
Paint Scheme (5)	

M = Minimum

LT = Long Term = one year or over

- (1) 406 MHz ELT preferred
- (2) When an approved modification exists for the aircraft type.
- (3) Some type of Carbon Monoxide Detector is required in all piston aircraft.
- (4) Landing lights converted to pulse light configuration or wing tip pulse lights in high-density areas for patrol aircraft.
- (5) Aircraft should be painted in a high visibility paint scheme with appropriate markings.
- (6) Active System Preferred

Recommended Practices (RP) are published under the direction of the Helicopter Safety Advisory Conference (HSAC). RPs is a medium for discussion of aviation operational safety pertinent to the transmission of product, energy exploration and production industry in the United States. RPs are not intended to replace individual engineering or corporate judgement nor to replace instruction in company manuals or government regulations. Suggestions for subject matter are cordially invited.