

Benefits of WAAS to Helicopters



Federal Aviation Administration

The Federal Aviation Administration is working closely with the helicopter community to provide new capabilities and benefits enabled through the use of the Wide Area Augmentation System.

The FAA is working closely with organizations within the helicopter community to:

- Develop low altitude Instrument Flight Rules (IFR) route structures for helicopters to support major airports, hospital and trauma care facilities, and heliports/helipads;
- Develop public use WAAS Localizer Performance with Vertical Guidance (LPV) approach procedures, Point-in-Space (PinS) instrument approach procedures, and departure procedures.

> Associated Aircraft Group (AAG)



Development and integration of helicopter operations in high density urban environments

Aircraft involved: Sikorsky S-76C++

The FAA is working cooperatively with Associated Aircraft Group (AAG) to enable enroute and terminal area helicopter operations at heliports and airports in the heavily congested metropolitan Manhattan, New York area. Project focus is on WAAS-equipped helicopter integration into the high density fixed wing operations of the New York City area leading to development of advanced helicopter Terminal Instrument Procedures (TERPS) criteria.

> Bell Helicopter



Development of public use helicopter LPV PinS instrument approach criteria

Aircraft involved: Bell 429

The FAA is working cooperatively with Bell Helicopter to develop TERPS public criteria for helicopter WAAS LPV PinS approaches, PinS departures, and low altitude IFR helicopter routes. Focus will be on the design of procedures to validate the current special helicopter WAAS LPV criteria for use as public criteria.

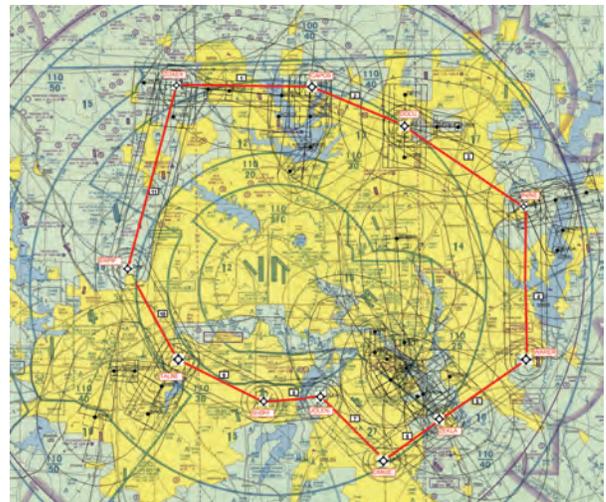
> CareFlite



Development of local urban area route structure – emergency medical service (EMS) focus

Aircraft involved: AgustaWestland A109E

The FAA is working cooperatively with CareFlite, an EMS operator in the Dallas-Fort Worth Metroplex area, to develop low level IFR routings. This will support the recently approved LPV PinS approach procedures to trauma centers being served by CareFlite.



Prototype Metroplex Low Altitude IFR Helicopter Infrastructure

The FAA WAAS Program Office, located within the Navigation Services directorate of the FAA Air Traffic Organization (ATO), is working closely with FAA Flight Standards and FAA Air Traffic Control (ATC) personnel on the coordination of these projects.