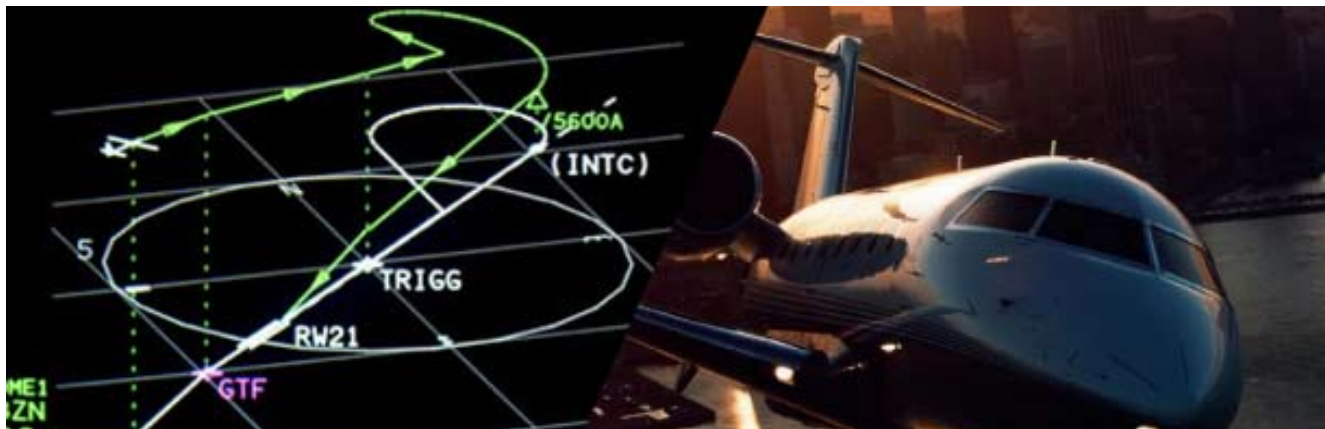


Now Available at Penta Aviation Localizer Performance with Vertical Guidance (LPV) FMS Upgrade for Challenger 604



With the LPV upgrade, you have increased flexibility to land more places and more often by access lower LPV Decision Altitudes on RNAV instrument approaches.

LPV minimums as low as 200 feet with ½ mile of visibility are now published on RNAV approach charts and the flight deck operation is very similar to Category 1 ILS approaches. LPV takes advantage of the Satellite-Based Augmentation System (SBAS). Wide Area Augmentation System (WAAS) is the United States implementation of SBAS, which also provides signal coverage and operational benefits in Canada. WAAS uses a combination of satellites and ground stations to dramatically improve the GPS's performance as measured by accuracy, availability, and integrity to enable vertical navigation by the GPS. The vertical navigation, when flying LPV approaches, is satellite-derived and not affected by the outside air temperature, thus not affected by cold temperature limitations. There are currently 1000 LPV approaches published in the US, with FAA plans of adding 300 a year.

Key Benefits of LPV FMS Version 4.0

- Access to LPV minimums on RNAV approaches
- Decision altitudes as low as 200 feet
- Visibility minimums as low as ½ mile
- Satellite-based vertical guidance supports high repeatable, stabilized approaches
- LPV operations similar to those for ILS approaches
- RNAV approaches with LPV to runways with existing ILS provide an additional back-up in the event that either localizer or glide-slope is out-of-service.

Note: prior to the FMS LPV upgrade, the aircraft must have S/B 604-34-31 (Precision Plus – Mid-Life Upgrade) already embodied.

The Upgrade consists of the following key component changes:

- Replacement/Upgrade of the existing Dual GPS-4000 GPS Sensor Units
- Replacement of existing GPS Antennae with GPS WAAS Antennae
- Upgrade of Input/Output Concentrators
- Upgrade FMC-6000 Flight Management System Computer
- Replacement of Data Base Unit with USB Data Loader

Two Options for Upgrades:

- Upgrade existing components through a scheduled upgrade program
- Schedule the upgrade via the exchange pool, which will allow for a quick-turn upgrade. Anticipated downtime is two business days if the quick-turn option is selected. The upgrade is performed and certified to a FAA STC. A post-modification test flight to fly one LPV approach is recommended.

**Substantial Penta Discount,
Limited time Only!**

Call 604.273.4649 for details

