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First EGNOS based LPV approach procedures **operational in the Channel Islands**

As of December 7th, two EGNOS based LPV approach procedures (RNAV GNSS approaches to LPV minima) are available at Alderney Airport (EGJA), the only airport on the island of Alderney in the Bailiwick of Guernsey, a British Crown dependency in the Channel Islands.

The publication of these procedures has been possible after the signature of an EGNOS Working Agreement (EWA) between **Guernsey Airport**, acting as the Air Navigation Service Provider and the company **ESSP**, the EGNOS Service provider, which officially declared the start of the **EGNOS Safety-of-Life Service** intended for Aviation last March 2nd, 2011.

The activities leading to the publication of these LPV procedures, in close collaboration with NATS, are part of a European project partially funded by the European Commission and EUROCONTROL.

The main advantage of this kind of EGNOS based procedures is to enable approaches equivalent to ILS approaches (down to 250 ft minima) with a limited ground infrastructure. Thanks to EGNOS, the Alderney airport will now benefit from 2 approaches with vertical guidance which increases the safety and accessibility compared to non precision approach (NPA) procedures. These LPV approach procedures complement the 2 NPA procedures based on NDB and the 2 recent NPA procedures based on GPS (RNAV GNSS approach to LNAV minima) published in the airport.

The LPV procedures at Alderney Airport will be also used **for the first time in Europe** for revenue services in commercial flights operated by Aurigny Air Services, a regional company in charge of the connection flights between the Channel Islands and the UK and France.

So far France and Switzerland have published also LPV procedures and gradually, other European Air Navigation Service Providers will start signing agreements with the ESSP in order to publish new EGNOS based LPV approach procedures within their territories.

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- **ESSP SAS:** founded in 2009 by the Air navigation services providers from France (DGAC/DSNA), Germany (DFS), Italy (ENAV), Portugal (NAV-P), Spain (Aena), Switzerland (skyguide) and UK (NATS) to act as service Provider for EGNOS.
- **EGNOS:** the European Geostationary Navigation Overlay Service, is a Satellite-Based Augmentation System (SBAS) that improves the accuracy and provides integrity to the GPS Signal over most of Europe.
- **Bailiwick of Guernsey:** <http://www.gov.gg>
- **Alderney Airport:** <http://www.alderney.gov.gg/Airport>
- **Aurigny Air Services:** <http://www.aurigny.com/>
- **NATS:** www.nats.co.uk