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**THE FAI INTERNATIONAL GLIDING COMMISSION (IGC)
GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS)
FLIGHT RECORDER APPROVAL COMMITTEE (GFAC)**

References:

FAI web site: <http://www.fai.org>

IGC web site: <http://www.fai.org/gliding>

IGC GNSS web site: <http://www.fai.org/gliding/gnss>

IGC GNSS site for software: <http://www.fai.org/gliding/gnss/freeware.asp>

To: IGC GNSS web site under "List of Approvals"

Notification to: IGC email mailing list <igc-discuss@fai.org>

Internet newsgroup rec.aviation.soaring

Copy: Manufacturer concerned

25 April 2010

ANNEX C TO IGC-APPROVAL FOR GNSS FLIGHT RECORDER

Level of Approval: Badge flights up to and including Diamonds

Recorder Name: EW Avionics EWFR Models A-D

This annex should be read together with the main IGC-approval document for these recorders and its other two annexes. These recorders take GPS information from a separate GPS receiver connected by cable to the recorder unit. This document is published separately so that other GPS receiver units can be added without needing amendment of the main approval document.

C1 GPS Receiver Units used with EW A-D recorders. The NMEA output data from GPS units to be used under the conditions of this IGC-approval must fulfil the following criteria:

C1.1 Fix Stream. A regular stream of 4-D fixes must be available at a fix interval not more than 2 sec., although the Recorder unit may be set to record fixes in the IGC file at longer intervals.

C1.2 Geodetic Datum. The Geodetic Datum for the fixes must either be included in the output data (together with any changes of datum), or the GPS unit design must be such that the output fixes cannot be changed from WGS84. In all cases it must be shown that the WGS84 datum was used for all fixes in the claimed performance.

C1.3 Construction. It must not be easy to dismantle the GPS unit and to make unauthorised internal changes (such as re-programming output data).

C2 List of GPS Receiver units for use with EW A-D recorders. The current list of GPS units that IGC understands that fulfil the above criteria is given below. Individuals who believe that other GPS units fulfil the criteria, and who wish to use such GPS units with the above models of FRs under the terms of this approval, are invited to send details (including the GPS specifications) to GFAC and the FR manufacturer.

C2.1 EW firmware 97XX or later may be used with the NMEA output from the following GPS receiver units:

Garmin GPS 12 XL

Garmin 80-Mil, 89, 90 and 95

Garmin GPS 55 with software versions 1.12 or later

C2.2 EW firmware 98XX or later may be used with the NMEA output from the GPS receiver units above and also with the following:

Garmin GPS II, II plus, III, III pilot, IIIPlus

Garmin 12, 12CX, 48, 92

Garmin eTrex, eMap

Garmin GPS60, GPSCOM 190

Garmin GPSMAP 195, 295