

Form 442 - Exhibit A

Universal Avionics Systems Corporation, FRN 0019471663, Form 442 File Number 0097-EX-PL-2010 and Confirmation Number EL482804, will conduct Flight Test of the UniLink Communications Management Unit (UL-801), VHF Data Radio (VDR).

Introduction

The UL-801 provides a two-way digital data link that allows an aircraft to exchange data with a ground host computer. The links used to exchange data are very high frequency (VHF) signals (via a VHF data radio [VDR]), airborne telephones, and satellite communications (SATCOM). VHF includes both the legacy aircraft communications addressing and reporting system (ACARS) via 2,400 baud minimum shift keying (MSK) signaling/modulation and next-generation VHF digital link (VDL) Mode 2 via 31,500 baud differentially encoded 8-phase shift keying (D8PSK) signaling/modulation. The UL-801 includes a VDR Module embedded within the UL-801 chassis. The UL-801 supports both Plain Old ACARS (POA) and VDL Mode 2

General

VHF Data Radio frequencies are specifically assigned for data communications and are not shared with voice communication.

The Engineering Development will take place in Redmond, Washington and the flight test will be conducted, in the Continental US, originating from Tucson, Arizona. Operating frequencies will be used as follows:

ACARS, 13K0A2D on 131.550 and 136.850 Mhz
VDL2, 14K0G1D on 136.975 Mhz

Transmitter power is 20W with a unity gain, blade antenna on the aircraft.

Development will be for a period of 12 months with possibility of extension.

FAA Certification

Universal Avionics Systems Corporation (UASC), UniLink Communications Management Unit, part number 10801-XX (UL-801). UASC intends to satisfy the environmental requirements of applicable Technical Standard Orders (TSOs) and the Minimum Operational Performance Standards (MOPSS) that govern the design of airborne area navigation equipment. The test procedures applicable to a determination of equipment performance under environmental test conditions are set forth in RTCA/DO-160F, *Environmental Conditions and Test Procedures for Airborne Equipment*. UASC will certify the UniLink UL-801 under TSO-C160, *VDL Mode 2 Communications Equipment*.