

Bill,

We concur with ARINC's assessment and we authorize the use of this configuration for development, flight test applications.

Best regards,

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cc

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Subject

RE: FCC Developmental License Approval

Zbig,

We received the letter below from ARINC following the recent testing of our UL-801 CMU and VDR at their AQP facility. If you agree with these findings we need your confirmation which we forward to ASRI to support the application for a developmental FCC license.

Please call if you have any questions.

Regards,
Bill Calderhead

A VHF, AOA, VDL, and Iridium Phase 3 Avionics Qualification Policy (AQP) test for the Universal Avionics/Unilink UL-801 ACARS avionics configuration (Part number 10801-01 with software version SCN 30.0A) was completed at ARINC headquarters on August 12, 2010. This configuration used an embedded VDR with SCN 10.0D.

Final AQP problems identified:

1. Uplink Success with Co-channel Interference: In POA, although the receiver performance has improved, it is still substandard at many RF

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levels. The standard AQP criterion is 98% or better uplink success at levels from -20 to -100 dBm.

2. Permission to Send: In POA, when using the embedded radio, the CMU did not assume permission to send when good uplink traffic was heard. A link test was sent only when a squitter was received. This issue will delay initial communications.

3. Adjacent Channel Rejection: In AOA VDL, the embedded radio did not meet performance standards when interference appeared on the fourth adjacent channel.

4. Rejection in Aero Band: The radio had trouble with the rejection in aero band test with a CW signal at 136.875 MHz with a power level of -33 dBm. The BER was a borderline pass/fail.

5. Media Advisory: Sometimes when both AOA and SATCOM were in COMM, the media advisory message was incorrect. The available medium field in the SA was a V instead of a 2.

Based on the Phase 3 test results, the configuration did not meet minimum AQP and AEEC standards and cannot be authorized for customer use and broad deployment on the ARINC operational GLOBALink network. So as to not impede Universal's development, ARINC is willing to approve short term and limited use such as integration lab and limited engineering flight testing. The issues identified may affect the comm performance of this configuration, but is not expected to interfere with the communications of other fielded aircraft. Once the issues are addressed, another AQP test is required before AQP approval and customer use.

Thank you for your cooperation. Participation in the AQP process will help insure that your avionics and the ACARS system operate reliably and efficiently. Please contact us if you any questions regarding this letter or the attached reports.

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