



September 14, 2006

FAA Headquarters
Spectrum Policy and Management ASR1
800 Independence Ave. SW
Washington, DC 20591

Gentlemen:

We will be manufacturing an aircraft ATC radio that operates in the band of 108.000 MHz to 137.000 MHz and we are filing a certification application with the FCC. The equipment is TSO'd under TSO-C169.

Description of Equipment:

The VHF communications transceiver is manufactured for aircraft installation and is a remote mounted transceiver. The transceiver provides voice communications between the aircraft and ground facilities over a frequency range of 118.000 MHz to 136.975 MHz. The extended frequency range units provide voice communications from 118.000 MHz to 151.975 MHz. The transceiver is designed to operate in systems with 25 kHz and/or 8.33 kHz channel spacing.

Manufacturer's Identification:

CVC-151 VHF Communications Transceiver

Antenna Characteristics:

While no specific antenna is specified; the antenna must have an Ohm characteristic input impedance and be able to handle 25 Watts. Receive and transmit signals horizontally polarized in the 118-136 MHz band (118-152 MHz antenna required for extended range units), operable with 50-ohm co-axial RF cable. VSWR = 3 : 1 maximum.

Rated Output Power:

20 Watts

Emission Type and Characteristics:

6K00A3E – 6kHz occupied bandwidth Double Sideband – Single Channel Analog – Telephony
6K00A9W – 6kHz occupied bandwidth Double sideband – Single Channel Analog/Digital Telephony/Data.

5K00A3E – 5kHz occupied bandwidth AM Double Sideband – Single Channel Analog Telephony.

Frequencies of operation:



The range of frequencies is 118-152 MHz settable at the control head. Channels of operation for 8.33 kHz and 25 kHz spacing mode are the standard channels as allowed by TSO-C169 with FAA approved extended range beyond 137 MHz.

Essential Receiver Characteristics:

Receiver Sensitivity	20µV max. For 6 dB (S+N)/N
Noise Level	30 dB min (S+N)/N for 100 µv
Selectivity	6 dB max. at ± 10 kHz 60 dB min at ±25 kHz

If the FAA objects to the equipment authorization it is understood that the FAA will mail its objection showing that the equipment is incompatible with the National Airspace System to:

Office of Engineering and Technology Laboratory
Authorization and Evaluation Division
7435 Oakland Mills Rd
Columbia, MD 21046

TSO coordination is being handled through the FAA LA ACO in Long Beach, CA.

Please consider this letter as our notification to apply for FCC equipment authorization per CFR 87.147 (d).

Best regards,

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