

From: David Comstock

To: John Kennedy

Date: June 03, 2005

Subject:

FCC File # 0289-EX-ST-2005

Message:

To John Kennedy,

the following is copy of information I received from the OCAS:

The OCAS radar is a FMCW radar so the terminology for traditional pulse radars is not directly applicable.

However the equivalent terms are

Pulse Radar	FMCW radar
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Pulse Repetition Rate	<-> Sweep Repetition Rate (672 us for sweep 1, 975 us for sweep 2)
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Pulse Duration	<-> 1.0/SweepBandwidth (4.0 us for sweep 1, 2.8 us for sweep 2)
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Also, copied from OCAS reply to me concerning point-of-contact : please keep in mind that the determination for keeping one frequency, preferably 122.8, in service for continued testing has not yet been made by the FAA. Also this unit is the prototype. Future application for a permanent unit will be submitted upon testing and certification approval by the FAA. Testing is currently scheduled for July/August 2005.

Further, our point of contact in the US, is:

Bob Feerst (US liaison for OCAS), Mobile: 219-741-3391, office: 219-662-8175. We(OCAS) will arrange the required set up for Bob as soon as possible. It should be noted that his possibilities are the same as ours(OCAS), remote control on a short reaction time. If required, he need to drive to the actual site, and deactivate the whole system. The following information is applicable. Note that we plan the B+(commercial unit after testing) version to have a Stop Buzzer switch easily available and described to involved/contracted personnel:

Remote shutdown of the units can be done by two methods – the normal and the hard way:

Normal shutdown : remote controlled from an OCC – at present this is not set up in the US but could be set up with Bob Feerst or at customer's premises in the future. Technically, this demands a PC with an internet connection and some software / setup delivered by OCAS, and some training for the user. This shutdown is referred to as setting the unit in "service mode", where the radar and VHF transmitters are disabled, while the GSM connection is maintained.

The hard way: to shut down a unit that has lost the normal remote control option by some error, the mast must be accessed in the upper hatch where 3 connectors are disconnected. The operation itself takes 30 seconds and disables any possibility of radio transmission by physical