

Kjeller September 10, 2007

Federal Aviation Administration
Spectrum Engineering Division
800 Independence Avenue S.W.
Washington, DC 20591

Ref (a): OCAS AS, FCC ID: **VE8142005**

(b): FCC Rules part 87.147(d)

To Whom it may Concern:

The applications for the approval of OCAS VHF ground to air equipment listed in this letter will be submitted to the Federal Commission upon completion of the test reports. Our Laboratory has tested these devices in accordance with the FCC rules part 87 and found that they comply with the relevant requirements.

This VHF unit is a part of a system called Obstacle Collision Avoiding System (OCAS). The OCAS is a warning system for traffic obstacles for aeroplane. The radar placed near the obstacle detects aircrafts with course towards the obstacle. A configurable set of rules is applied to define whether the aircraft must be alarmed, or not. Select warning signals, light and audio, depending on time-to-impact with obstacle(s) speed, course, and altitude. This unit consists of three major units VHF aeronautical warning unit, Radar unit for detecting aeroplanes and UHF internal link to communicate between nearby OCAS systems.

Specifications of the VHF equipment are listed below:

Modell type	141 001
FCC ID	VE8142005
Frequency Range (MHz):	118 – 137
Channelling Capability	Multi carrier simultaneously*
Rated RF Power in Watts:	5
Frequency Tolerance (PPM):	±1.0 synchronised with GPS ± 5.0
Emission Bandwidth	25kHz
Emission Designator for AM modulation:	6K00A3E
Antenna **:	External

*This VHF is not a standard VHF unit. It has no audio input for signals to modulate. It Transmits only pre-programmed voice signals (stored digitally) such “Power line” or “wire”.

And secondly it can transmit at all channels simultaneously, in the range 118 – 136.975 MHz.. The maximum out-put RF power on each channel is 1mW.

** Standard VHF/AM Antenna

See the attachment frequency plan table, concept and spectral plots for more information.

Do not hesitate to contact us if you have any questions.

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Yours sincerely


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