Notat/Note

OCAS™

Prosjekt/Project

FCC Approval VHF Radio

Fra/From

Jostein Sund Jensen

Til/To

FCC

Emne/Topic

Cover letter FCC filing OCAS VHF Radio:
VWB 142005   FCC ID: VE8142005

Postal Address:
OCAS AS
P.O. Box 434 Økern
N-0531 Oslo
Norway

Visiting address:
Brobekkveien 80
N-0582 Oslo
Norway

Tel: +47 22 07 10 00
Fax: +47 22 07 10 09
E-mail: post@ocas-as.no

Organization Number:
NO 981 868 838 MVA

Short description of the OCAS system:

The Ocas Obstacle Avoidance System (OCAS) is a warning system for traffic obstacles for aero plane. 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 only or light and audio message on the VHF radio, depending on time-to-impact with obstacle(s) speed, course and altitude. The OCAS unit consists of three major units VHF aeronautical warning unit, Radar unit for detecting aero planes and UHF internal link to communicate between nearby OCAS systems and stand-alone strobe lights.

The VHF Warning radio is a multi carrier VHF transmitter for transmitting the pre recorded Warning Messages in the Aeronautical VHF band from 118 MHz to 136 MHz. The transmitter can transmit on any combination of carriers in this frequency band, the maximum RF output power on each channel is 1 mW (0 dBm).

The output level of the radio is set to give a range of about 5 km from the obstacle and the typical output power is –7 dBm to give this approximate 5km range. The minimum output lever is –50 dBm.

Certification request:

OCAS is requesting for a certification that allows use of the VHF warning radio on a single frequency. OCAS will need to request for license to use the chosen frequency from FAA.

OCAS will seek for the potential in the future to use several frequencies on coordination with FAA. The inducement for transmitting on several VHF channels is to improve the safety for the pilot if he or she should have tuned into wrong traffic channel for the specific area.

Best Regards

Jostein Sund Jensen
OCAS AS