



January 23, 2007

In Reply Reference: GL07507

Federal Aviation Administration
Frequency Management Officer
ACE-474
901 Locust Street
Kansas City, Missouri 64106-2641

SUBJECT: Coordinate use of 1030 MHz

Reference: FCC Experimental License – File #0014-EX-PL-2007 (Reference Number: 4700)

Dear Sir or Madame:

Garmin received an email from FCC OET's Mr. Young, dated January 19, 2007, requesting that we report the following information to your office in a coordination effort to process the FCC Experimental License for the GTX 8xx. As such, please accept the following the information in accordance with the FCC request.

Type of antenna:

TCAS directional 4-element antenna

Transmit antenna gain:

3 dBi for omni-directional transmit pattern

6 dBi for directional pattern (110 degrees azimuth/beam width)

Elevation above sea level of the antenna site:

1070 feet above sea level (at the ground)

Height above ground of the focal point of the antenna:

124 feet above the ground, mounted on the roof of the Garmin tower building mounted below the maximum height of existing apparatus on the roof (HVAC screening, etc).

Antenna polarization:

Vertical polarization

The azimuth that the antenna is pointed or appropriate designator to indicate whether the antenna is rotation, non-directional, etc;

Fixed 4-element directional antenna.

Equipment nomenclatures:

GTS 800, GTS 820 Traffic Advisory System (TAS) with GA 58 TCAS Antenna.

Radius of operations if appropriate:

40 nautical miles.

Detailed description of the proposed operation to include any technical parameters that will be altered during operations.

Mode C and Mode S interrogations in accordance with TSO-C147 using RTCA/DO-185A as stated in TSO deviation letter and approved by the FAA on November 2, 2006. (attached)

If you have any questions regarding the above information, please feel free to contact me at (913) 440-1321, email vruggles@garmin.com. Alternately, please contact Mrs. Christine Eicove at 913-440-1428, email christine.eicove@garmin.com.

Very truly yours,

Van Ruggles
Director, Quality Assurance & Certification

Enclosures:

Garmin GTS 8XX TSO Deviation letter, Dated August 14, 2006
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FAA Response TSO C147 C166 GTS 8xx, Dated November 2, 2006
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