

Response to FCC Questions in Correspondence Dated March 8th 2001

Correspondence Reference Number: 18320
731 Confirmation Number: EA99682

1.) Please justify the .0073 power output listed on FCC Form 731.

The maximum output power for Part 15.242 and Part 95 (WMTS) is .0073W, as seen on our test report our Maximum output power is 1.2mW at 560.025-613.975MHz.

2.) Please supply and justify a complete emission designator following the prescriptions under Sections 2.201 and 2.202 of the Commission's R&R.

Per section 2.201. Emissions, modulation, and transmission characteristics.
The ApexPro Telemetry transmitter utilizes GMSK modulation (Gaussian Minimum Shift Keying).
The modulation index, (MSK) Minimum shift keying, which is binary digital FM, has a modulation index of 0.5.
The Base Band I & Q signals are Low Pass Filtered, keeping the constant envelope property with a Gaussian filter Bt of 0.3.

With this in mind the Emission designator is (G7D).

G =Phase modulation:

7 =Two or more channels containing quantized or digital information:

D =Data transmission, telemetry, telecommand:

3.) Please supply an occupied bandwidth measurement per Section 2.1049 of the Commission's R&R.

Please see exhibit titled "Occupied Bandwith Measurement" submitted 3/29/2001.
Occupied bandwidth measurement = 9500Hz

4.) Please supply frequency stability measurements for temperature and supply voltage variations per section 2.1055 of the Commission's R&R.

Please see exhibit titled "Frequency Stability Measurements" submitted 3/29/2001.
Frequency drift over temperature = 698Hz
Frequency drift over Voltage range = 10Hz

5.) Please demonstrate compliance with the RF exposure requirements under Section 2.1093 of the Commission's R&R.

Please see exhibit titled "Engineering Analysis of IEEE Standard for Safety Levels" submitted 3/29/2001.

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