

**FCC ID: PBPB45C101**

## **Response to TCB questions**

Good Morning Barry,

Sorry for the delay in answering your inquiries in an email to Alma Torres dated 2/22/01 as follows:

We have conducted our review of the application and the following issues have been found:

1. Excuse us if our ignorance is showing, but please explain the claimed emissions designator of 20K0 and the channel spacing of 12.5 kHz. How is a 20 kHz wide signal compatible with 12.5 kHz channelization? From the table in 90.209 we would have expected an 11K2 request. I guess our ignorance is showing.

Response - You are correct about the 11K2 designator.

2. Please comment on the unit's compliance with 90.203 (j) (3).

Response - Necessary BW (BN) = (2\* Max Deviation) + (2\* Baud/2) = (2\* 0.2) + 2\* 4800/2) = 5.2 kHz Also, see response below that the unit will only transmit at 9600 baud.

3. Please confirm that the plot on page 11 of the test report shows modulated data. The bandwidth appears extremely small.

Response - Yes , but the frequency deviation is only 0.2 kHz

4. For information only. The test report claims that the requirement for frequency stability is 5ppm. Our reading of this as a base station in the 421-512 band requires 1.5ppm (see table note 7). The unit has 0.4ppm and thus complies with either requirement.

Response - Sorry, you are correct. This just happened to be in the report template and was overlooked during review.

5. For the transient frequency behavior plots presented in the test report we need more detail to understand the information presented. Please confirm that plot one is turn off and plot 2 is turn on. Please tell us the time per division and the voltage per division of each of the oscilloscope plots. Please tell us the relationship between voltage and frequency deviation on the plots (how many kHz per volt).

Response - <<rf off.doc>> <<rf on.doc>>

6. We only have a plot for the 9600 baud modulation. Please supply a plot for the 4800 baud modulation.

Response - The unit is designed to be operated solely at 9600 Baud. We originally put

software control in to switch to 4800 in order to provide compatibility with our older equipment for engineering purposes. However, the analog conditioning circuitry does not operate at 4800. In practice our new system will operate only at 9600 Baud.

7. Do you have an expanded users as we need to check the manual to see if the method of programming the channels complies with the 90.203 (f) and (g).

Response - Since our equipment is microprocessor based, all system parameters are software controlled. System parameters include Radio Frequency, Baud Rate, and Transmission Time (key up). These parameters are typically not subject to change. In use, these parameters are programmed in the unit's FLASH memory at our facility before installation at a customer site. We continue to have control of the system parameters via a remote network connection. Neither the end user (golfer) nor the system operator (golf course) has control of any system parameters.

8. Please supply the tune up procedure.

Response - Please refer to Section 6 of "DM-3473 Tech manual.pdf" which you should have.

9. Please supply external photos.

Response - Please refer to "Flagman II User Manual - 5 Jan 2001 - Abbreviated.pdf" page one for front view. Attached is a file that you should already have showing rear view.

<<B-45C1-01 FCC Label.jpg>>

Best regards,

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