Response to TIMCO TCB questions

1. BLOCK DIAGRAM: The frequencies of all thee clocks and oscillators must be on the block diagram, please provide a current block diagram.

   A block diagram was provided by the client and passed on with the current revision of the test report.
2. Label Location: Please provide a drawing or a photo showing the location of the label.

   The client has provided an exhibit photo showing the location of the label.
3. Part 2.1033(c)(10) Please provide a parts list BOM.

   The client has provided an exhibit BOM list.
4. Part 2.1033(c)(9) Please provide tune-up procedure over the power range, or at specific operating power levels.

   This is not applicable.
5. Operating Frequency – part 90.103(b) and (d), and 2.106:
   According to 2.106, please find below the frequency allocation breakdown in MHz for the pband requested on form 731.
   9500-10000 nc radiolocation
   The unit performs radiolocation.
   10000-10550 pt 90 – Pulsed emissions prohibited in 10500-10550
   There are no pulsed emissions.
   10550-10680 pt 101
   The unit operates from 9500-10550.
   10680-10700 nc radioastronomy etc.
   The unit operates from 9500-10550.
   Only the band 9,500-10,550 can be authorized under part 90 without conflicting with other rule parts. Particularly, please provide details about intended used in non-part 90 bands, e.g., some details for possible known government uses. Alternatively, please revise the filing.
   The filing has been revised.

6. Part 90.103(c)(24): Please explain compliance with this paragraph.
   The unit is compliant as it is not a field disturbance sensor.

7. Form 731 – part 90.205(r) The output power shall not exceed by more than 20 percent either the output power shown in the Radio Equipment List [available in accordance with 90.203(a)(1) for transmitters included in this list or when not so listed, the manufacturer's rated output power for the particular transmitter specifically listed on the authorization. The maximum measured power is 0.138W while the rated power is 0.1W. Please explain or revise accordingly.

   The power has been revised by the client to 0.2 Watts and has been noted throughout the test report.

8. RF output power – ERP: The maximum measured value is ~2Watt where the conducted power is ~0.14W. Please explain this difference of about 13 dB (e.g. provide antenna gain in dBd…).

9. Conducted spurious emission: Column "level, dBc" contains errors. Most of the Emission levels reported in this column are exceeding the limit of 33dBc. Please revise. FYI – adding a negative sign in front of a level expressed in terms of dBc is not relevant.

   The data in the report has been revised.

10. Please provide test data as required under part 2.1055 – Frequency stability. Please note that although there is no frequency stability limit, this test still required per part 2.1033(c)(14).

    The frequency stability has been added to the report.

11. Form 731: Please provide the emission designator and the frequency stability measured.

    The emission designator has been added to the report. The second part of this question is redundant to question 10.

12. Occupied bandwidth plot. Thee plot is blurry and difficult to read. Please provide a new plot with spectrum analyzer settings and comments where appropriate (i.e. mode of operation, power, modulation if any etc.)

    Occupied bandwidth plot has been cleaned up.

13. Part 90.203(e) – programming capability: Please provide an attestation of compliance with this section.

    An attestation has been added to the report. Please note that there is NO user programming capability.

14. Part 90.103(c)(24): Please explain compliance with this paragraph.

    Redundant to question 6.

15. FYI – Once we have completed our review of this application we will up load all of the files to the FCC Website including the confidential ones and we will stop before we issue the Certification and send you the TC# so that you can view the files as they will appear on the FCC website indicating that they are OKAY or telling us what is wrong. After you have confirmed everything is correct then we will issue the Certification.

Respectfully submitted,

Michael Wyman
Engineer