

## Timco Engineering, Inc.

**From:** Andrew Marles [amarles@tranzeo.com]

**Sent:** Wed 7/12/2006 6:31 PM

**To:** Timco Engineering, Inc.

**Cc:**

**Subject:** RE: TIMCO-TCB/Request for additional info - TRANZEO WIRELESS TECHNOLOGIES, INC. - FCC ID: QRF-2458NT2G

**Attachments:**  [TR-Multi int photos\\_Confidential.pdf\(5MB\)](#)  [TR-Multi Operational Description.pdf\(82KB\)](#)  [C\\_ZCOM AG-621\\_Block Diagram\\_030729\\_CONFIDENTIAL REV.pdf\(1MB\)](#)  [Multi\\_UG\\_v1\\_100706.pdf\(2MB\)](#)  [TR-Multi\\_EMReportRev1.pdf\(874KB\)](#)

- 1) Revised exhibit is attached.
- 2) Manual is attached.
- 3) Please file this as a change in FCCID as per section 2.933(b). Conducted output power measurements are attached.
- 4) The bands that will be authorized with this device are the DTS bands of 2400-2483.5 and 5725-5850, plus the UNII band 5250-5350. Revised test report and operational description are attached.
- 5) Revised Block Diagram is attached. Please note that while the hardware is capable of this functionality, the firmware in the device prevents operation on channels that are not authorized in the US.
- 6) Revised test report is attached.
- 7) The wording of the test report has been revised. To clarify, the device was tested while transmitting at low, middle and high channels in each individual frequency band, ie, 3 channels at 2400-2483.5, 3 channels at 5250-5350 and 3 channels at 5725-5850. The spurious emissions shown were measured while the transmitter was operating at a center frequency of 2462 MHz.
- 8) Band edge test data is attached.

Thanks very much.

Andrew

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**From:** Bruno [mailto:[bruno@timcoengr.com](mailto:bruno@timcoengr.com)]

**Sent:** Tuesday, July 11, 2006 1:24 PM

**To:** Andrew Marles

**Subject:** TIMCO-TCB/Request for additional info - TRANZEO WIRELESS TECHNOLOGIES, INC. - FCC ID: QRF-2458NT2G

**Importance:** High

**TIMCO** ENGINEERING INC.

849 NW State Road 45

Newberry, Florida 32669

**TCB & FCB**

*FCC Approvals*

*Industry Canada Approvals*

888.472.2424 F 352.472.2030 email: [tei@timcoengr.com](mailto:tei@timcoengr.com)

7/11/2006

MR. ANDREW MARLES

TRANZEO EMC

604-460-6002; 778-838-4800 604-460-6005

AMARLES@TRANZEO.COM

SUBJECT: TRANZEO WIRELESS TECHNOLOGIES, INC. - FCC ID: QRF-2458NT2G

REFERENCE: JOB 2049UC6, 2050UC6, & 2051IC6

Dear MR. MARLES:

**This application is on hold until these questions are resolved.** Please answer all question(s) together and only respond to [tei@timcoengr.com](mailto:tei@timcoengr.com). Any other method will cause **unnecessary delay. DO NOT HIT REPLY!** Responses should also contain the Reference information, as shown at the top of this message. If acceptable response is not received within 2 week the job will be closed & there will be additional charges to reopen.

Based upon our review of this application we have the following questions:

1. INTERNAL PHOTOS: Please supply us with clear photos that do not contain hot spots. Thanks.
2. USERS MANUAL: The Users Manual was not received. Please submit. Thanks.
3. Filing – form 731: According to the cover level, it appears that it would be necessary to file as a change in FCCID + C2PC per section 2.933(b). We could do the change in FCCID+C2PC in one filing per 2.933(b) and (c). Otherwise, filing a new application for certification requires a complete filing as described in section 2.1033(b). Particularly, the FCC requires a new application for certification to be evaluated on its own merit, and as such does not allow referring data and/or supporting documentation from another FCCID already approved. Please comment. 2.933(b) is conditional to re-measured output power within +/-0.5dB from the original power as listed on grant.
4. The test report and Operation description exhibits list the operating frequency bands 2400-2483.5MHz and 5250-5850MHz. Please list only the bands that are/or will be authorized for use with this device.
5. Part 15.215 - Block diagram: It shows frequencies (2.4GHz band) that are not available for operation in the US (i.e. Channel 12-14). Please revise accordingly.
6. Test report – section 2.4: The limit is wrong. Please revise the limit and associated margin.
7. Test report – section 3.4.2 – part 15.31(m): Please explain whether the minimum number of channel as required under part 15.31 were tested in each of the band 2.4 and 5GHz bands.
8. Band-edges: Please provide data showing compliance with the band-edges.

Sincerely,

Gretchen Torres

& Bruno Clavier