

## Chris Harvey

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**From:** Marie Confroy [Mconfroy@metlabs.com]  
**Sent:** Thursday, October 19, 2006 11:34 AM  
**To:** Chris Harvey  
**Cc:** Len Knight; Kevin Mehaffey  
**Subject:** RE: Additional Information needed Richardson/Spectrum FCC ID: NBI-MTAG216C, MT#19678  
**Importance:** High  
**Attachments:** FCC Letter Modulation-TPC.pdf; EMC19678 Form 731 Application 29 Aug 2006.doc; FCC Letter Tune-up Procedure-TPC.pdf; PCB Under U3 and U4.pdf; TPV DRW Pkg 11-4-05.pdf; TRACPAC C - VHF MODULE BLK DIA.pdf; FCC BW CAL-TP V-TPC.pdf; Old Report Justification.pdf; FCC Letter Req-Conf TPC-Sign.pdf; FCC TRAC\_PAC\_C\_SCH\_V2.3.pdf

Hello Chris,

In response to your requests for additional information for this project, please see my comments in red font below. The network has been updated to reflect the revised exhibits, and all out dated exhibits have been archived as necessary. Please continue your technical review for the FCC TCB filing of the Richardson/Spectrum FCC ID: NBI-MTAG216C. If you have any questions or concerns, or require additional information, please contact me. Thank you!

Best Regards,

Marie Ann Confroy

Quality and Certifications Administrator

MET Laboratories

☎ (410) 949-1910

📠 (410) 354-3313

[mconfroy@metlabs.com](mailto:mconfroy@metlabs.com)

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**From:** Chris Harvey [mailto:charvey@ieee.org]  
**Sent:** Wednesday, September 13, 2006 8:50 AM  
**To:** Marie Confroy  
**Cc:** Igor Kekovski; Len Knight  
**Subject:** Additional Information needed Richardson/Spectrum FCC ID: NBI-MTAG216C, MT#19678

Marie, I have reviewed the exhibits for the above referenced application and find that the following items need to be addressed before the review can be completed:

1. The Form 731 submitted contains the incorrect FCC ID in field 12c. Please correct the Form 731. Please see revised Form 731 application attached.
2. Please correct the TCB name and address on the Confidentiality letter to reflect the MET Laboratories TCB as well as reference the FCC Confidentiality Rules of 0.457 & 0.459 in the letter. Please see revised Confidentiality Letter Attached.
3. Please note that the Users Manual exhibit has been included in the confidentiality request. The FCC does not routinely allow the Users Manual exhibits to be held as confidential. Please provide further justification for including this exhibit as confidential or remove this exhibit from the confidentiality

request list. Please see revised Confidentiality Letter Attached.

4. Please correct the FCC ID number on the Modulation Description and the Tune-up Procedure exhibits. Please see updated Modulation Description and Tune-up Procedure Documents attached.

5. Please provide:

a. internal photograph that shows the PC Board under the PCS Module and the VHF module, Please see file entitled: PCB Under U3 and U4.pdf attached. This has been added as a separate exhibit to the Customer Information folder on the network.

b. a Parts List per 2.1033(c), the DC voltages and Currents of the final RF stages per FCC 2.1033(c)(8), Please see the attached files entitled: TPV DRW Pkg 11-4-05.pdf and TRACPAC C - VHF MODULE BLK DIA.pdf. These files have been added to the Customer Information folder for this job as separate exhibits for upload.

c. a justification of the Emission Designator 900HA1D in accordance with FCC Rules 2.201, 95.631 and 2.1033(c)(4). Please see updated Modulation Description Exhibit Attached. In addition, as per Len Knight.... please see the document entitled FCC BW CAL-TP V-TPC.pdf attached. This item has been saved in the Customer Information folder for this job as a separate exhibit to be uploaded to the FCC.

6. Apparently you are submitting an old test report for FCC ID: NIB-MTAG216V as support for this application. Please provide an explanation as to the applicability of all or portions of the data from that test report for this application. . Please see the attached file entitled: Old Report Justification.pdf for justification.

Additionally, please provide an explanation as to the compliance of the co-located CDMA modem (FCC ID: O9EQ2438F-M is apparently getting a Class II PC application to address the co-location with this device)

As per Len Knight...The CDMA Modem (FCC ID number O9EQ2438F-M) is incorporated onto the TracPac as a MODEM generating automated "distress" calls in the PCS band only. According to the original grant for the O9EQ2438F-M, "must not be co-located or operating in conjunction with any other antenna or transmitter." A Class II Permissive Change was filed in order to allow operation with the Part 95 LPRS transmitter. With this Permissive Change filing, testing was performed (See MET Test Report EMC19678-FCC24.pdf) to ensure that there was no conflict when both transmitters were working simultaneously. Both EIRP and Spurious Radiated Emissions were made. Both were found to be within compliance when both transmitters were operating.

7. The Users Manual submitted with this application does not contain the required RF Exposure notices required for the transmitters on this device. Users must be warned to maintain a 20cm or greater separation to this device and/or its antennas while transmitting as well as not to co-locate this device with other transmitters or antennas. Please update the Users Manual. Please see updated Users Manual. Due to size; I have not attached it to this e-mail. It is located under the following file directory and is labeled "E TracPac User Guide-TPC.pdf ". The old Users Manual has been moved to the historical folder.

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8. The Schematic Diagram exhibit appears not to include the VHF module circuitry. Please update the Schematic exhibit to include the RF portion of this device. Please note that the CDMA module schematic diagram (co-located device) does not need to be submitted with this application. Please see Schematic Diagram exhibit attached.

9. The test report and Form 731 indicate that the center of the lowest channel is 216.000 MHz, however the LPRS Rules do not allow operation at the center frequency of 216 since the emissions on the lower half of the bandwidth of that signal would be out of band. Please confirm the operating frequencies of the lower channel and update the appropriate exhibits. The test report has been revised to incorporate the revision to the Frequency Range of Operation. Due to size, I have not attached it to this e-mail. It is located under

the following file directory and is labeled "EMC19678-FCC95 Rev 1.pdf". The old test report has been moved to the historical folder.

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Please contact me if you have any questions. Please also consolidate all final responses into a single communication.

Best regards,

Chris Harvey