



Global Product Certification
EMC-EMF Safety Approvals

EMC Technologies Pty Ltd

ABN 82 057 105 549
Unit 3/87 Station Road
Seven Hills NSW 2147 Australia

Telephone +61 2 9624 2777
Facsimile +61 2 9838 4050
Email syd@emctech.com.au
www.emctech.com.au

Timco Engineering, Inc
TCB Application Form 731

14th April 2011

Application for FCC Certification Part 15 Class B, FCC ID: MOQ-LF700, Battle suit Additional Information Request, Reference: JOB 689AU11

Dear Sir or Madam:

I refer to your email on 13th April 2011 about the additional information requested.

1. CONFIDENTIALITY REQUEST: Please include the following in the confidentiality request "Pursuant to Sections 0.457 & 0.49 of the Commission's Rules"
2. USER MANUAL: The user manual is for starting a business. Please provide a user manual for the Battle Suit.
3. TEST REPORT & GRAPHS EMI:
 - a. Please provide test data, to the tenth harmonic, for all three fundamental frequencies.
 - b. Please provide plots and data to show emissions at 2400 MHz, are 20 dB or more below the fundamental, when transmitting at 2400.54 MHz.
 - c. Please provide plots and data to show emissions, in the adjacent lower restricted band 2310-2390 MHz, are at 54 dBuV/m average or lower, when transmitting at 2400.54 MHz.
 - d. Please provide plots and data to show emissions, in the adjacent upper restricted band 2483.5-2500 MHz, are at 54 dBuV/m average or lower, when transmitting at 2480.56 MHz.
4. COMPUTER PERIPHERAL: The external photos show a Laptop as auxiliary equipment. Please provide a JBP Part 15.109 filing for the Battle suit or a Letter of Attestation from the applicant that DoC testing will be performed

Reply:

- 1: An amended Confidential Request file is attached with the requested reference to Pursuant to Sections 0.457 & 0.49 of the Commission's Rules
- 2: An amended User Manual is attached
- 3a: Testing was performed with the lowest, the highest and with a middle range channel, from 30MHz up to 25GHz. Only the highest results were reported in the final report. We have amended Section 4.5 of the report to clarify this.
- 3b: Please refer to Graph number 7. The limit shown is 54dBuV/m outside and 94dBuV/m within the allocated band. Testing was performed in average mode (above 1GHz). The peak was measured at 88.6dBuV/m and the spurious emissions outside the band was below 54dBuV/m (= more than 20dB below the fundamental).
- 3c: Refer to reply 3b and 3a. There were no emissions found above 54dBuV/m in the restricted band 2310-2390MHz. Graph 3 and 4 show the worst case emissions for the 1-18GHz frequency range.
- 3d: Refer to reply 3a. There were no emissions found above 54dBuV/m in the restricted band 2483.5-2500MHz. Graph 3 and 4 show the worst case emissions for the 1-18GHz frequency range, Graph 9 shows the carrier with surrounding levels.
- 4: The Battle suit is not connected to a PC. No Lap top is needed for the Battle suit. We have removed the auxiliary photo of the lap top.

Best regards,

Ch. Kai

Christian Kai
Facility Manager
EMC Technologies Pty Ltd

Melbourne

176 Harrick Road
Keilor Park Vic 3042
Tel: +61 3 9365 1000
Fax: +61 3 9331 7455

Sydney

Unit 3/87 Station Road
Seven Hills NSW 2147
Tel: +61 2 9624 2777
Fax: +61 2 9838 4050

Brisbane

1/15 Success Street
Acacia Ridge Qld 4110
Tel: +61 7 3875 2455
Fax: +61 7 3875 2466

Auckland (NZ)

47 MacKelvie Street
Grey Lynn Auckland
Tel: +64 9 360 0862
Fax: +64 9 360 0861