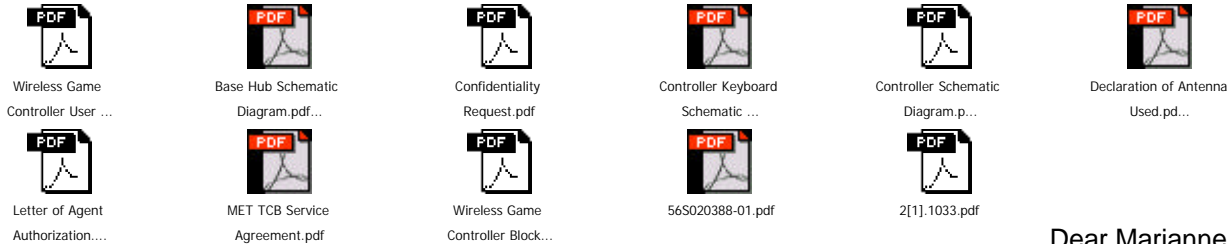


Marianne Bosley

From: natarajan-s.suresh@psbcorp.com
Sent: Wednesday, November 20, 2002 12:05 AM
To: GCzumak@metlabs.com; MBosley@metlabs.com
Cc: cher-hwee.lim@psbcorp.com
Subject: RE: Fountech Wireless Game Controller FCC Submission Administrative and Technical requests



Dear Marianne, Please find

attached revised submission. We will issue PO for USD 1250 soon.
Regards

Suresh
Sr Consultant
EMC & Telecom
Ph: 68851445
Fax: 67776409

----- Forwarded by Natarajan S SURESH/SP/Psb on 11/20/02 01:03 PM -----

Cher Hwee LIM

To: Natarajan S SURESH/SP/Psb@Psb
11/20/02 12:18 PM cc:
Subject: RE: Fountech Wireless Game Controller FCC Submission Administrative and Technical requests
(Document link: Natarajan S SURESH)

Hi Suresh,

Attached all the resubmissions of the FCC reports and relevant documents.

(See attached file: Wireless Game Controller User Manual.pdf)(See attached file: Base Hub Schematic Diagram.pdf)(See attached file: Confidentiality Request.pdf)(See attached file: Controller Keyboard Schematic Diagram.pdf)(See attached file: Controller Schematic Diagram.pdf)(See attached file: Declaration of Antenna Used.pdf)(See attached file: Letter of Agent Authorization.pdf)(See attached file: MET TCB Service Agreement.pdf)(See attached file: Wireless Game Controller Block Diagram.pdf)(See attached file: 56S020388-01.pdf)

Also, the following remeasurements / changes have been done as per request:

1. The 15.105 statement that you used in the manual was for Class A (commercial use). Is the device to be used for residential setting? If so, please replace the statement with the 15.105 Class B statement.
>> Have been replaced with Class B statement and reflected in the user manual.

2. Schematics Diagrams - None were submitted (this is also mentioned in technical request).

>> Submitted. See attached the schematic diagrams.

3. Photos and label and location - The test report had all of these requirements in there. However security was placed on the report. Therefore, I could not extract the necessary items to be used as exhibits for the FCC. Please resubmit test report without security, or submit separate pdf exhibits for internal photos, external photos, test setup photos, label and label location.

>> Report security removed.

4. Please ensure that the document you sent to fill the requirement of operational description meets the requirements of 2.1033. I have attached an excerpt of this rule part for your easy access.

>> All required documents submitted.

RT questions:

This system consists of 2 separate devices- the controller and the base. These are 2 different devices, and, as such, must obtain separate FCC ID numbers. Two applications are required. However, as the test report contains data for both devices, the same test report may be used in each application. Please inform us as to which of these devices, the controller or the base, the current FCC ID will be applied, and then submit a separate application (with a different FCC ID) for the other device.

>> Game Controller FCC ID: QPPFTGC1000

>> Base Hub FCC ID: QPPFTGC1000A

>> Relevant documents submitted

Even though you have requested confidential treatment for the schematics, they must still be submitted with the applications. Once submitted, they are withheld from public access, however, they are necessary for the technical review of the applications.

Please submit frequency plots of the highest and lowest channels (902.1 and 927.9 MHz) in order to demonstrate compliance with the band edge requirements

of Section 15.249(d).

>> Submitted. Note, all the transmission frequencies for base hub have been shifted by 0.6MHz (initial transmit frequencies + 0.6MHz) in order to meet the band edge requirement. Likewise for the the game controller transmit frequencies (initial transmit frequencies - 0.6MHz). As the transmit frequencies for both base and controller have been changed, the radiated emissions and conducted emissions for all parts had been remeasured to ensure the compliance. Only EUT firmware change for shifting the transmission frequencies and no hardware change were involved.

Please state the RBW and VBW used to make the field strength measurements of the spurious emissions.

>> Reflected in the report

>> 30MHz - 1GHz: RBW=120kHz, VBW=1MHz

>> >1GHz: RBW=1MHz, VBW=3MHz

How were average measurements made?

>> As the pulse train cycle is 285.6us, the average measurement was done over the complete cycle of the pulse train, including the blanking interval, according to the requirement stated in 15.35.

FYI- the AC Line conducted test was performed to the old Section 15.207 specifications. The new Section 15.207 specifications are equivalent to those of CISPR 22. You may retest the AC Line Conducted emissions to the

new specs, and submit that data, in order to demonstrate compliance. If you do not, then, pursuant to Section 15.37(h), the grant of authorization will expire in July of 2005 unless new test data is submitted prior to then demonstrating compliance with the new Section 15.207 specifications.
>> Remeasure conducted emissions based on new FCC limit line (CISPR 22).
See results in the report.

Thanks and regards,
Lim Cher Hwee
PSB Corporation Pte Ltd
Engineer
Telecoms & EMC
Tel: (65) 6885 1459
Fax: (65) 6774 1459
Pg: 93022949

Natarajan S
SURESH
08/11/2002 09:04 AM
cc: Cher Hwee LIM/SP/Psb@Psb
Subject: RE: Fountech Wireless Game Controller FCC
Submission Administrative and Technical requests

fyi
Regards

Suresh
Sr Consultant
EMC & Telecom
Ph: 68851445
Fax: 67776409

----- Forwarded by Natarajan S SURESH/SP/Psb on 11/08/02 09:07 AM -----

MBosley@metlabs.com
To: Natarajan S SURESH/SP/Psb@Psb
cc: GCzumak@metlabs.com, MBosley@metlabs.com
11/08/02 02:42 AM Subject: RE: Fountech Wireless Game Controller FCC
Submission Administrative and Technical requests

Hello,

Your application has been reviewed for administrative and technical issues. Please respond to, and forward where necessary, all necessary items for review to continue and Grant to be issued. Any questions, please let me know.

Administrative Questions:

1. The 15.105 statement that you used in the manual was for Class A (commercial use). Is the device to be used for residential setting? If so, please replace the statement with the 15.105 Class B statement.

2. Schematics Diagrams - None were submitted (this is also mentioned in technical request).

3. Photos and label and location - The test report had all of these requirements in there. However security was placed on the report. Therefore, I could not extract the necessary items to be used as exhibits for the FCC. Please resubmit test report without security, or submit separate pdf exhibits for internal photos, external photos, test setup photos, label and label location.

4. Please ensure that the document you sent to fill the requirement of operational description meets the requirements of 2.1033. I have attached an excerpt of this rule part for your easy access.

RT questions:

This system consists of 2 separate devices- the controller and the base. These are 2 different devices, and, as such, must obtain separate FCC ID numbers. Two applications are required. However, as the test report contains data for both devices, the same test report may be used in each application. Please inform us as to which of these devices, the controller or the base, the current FCC ID will be applied, and then submit a separate application (with a different FCC ID) for the other device.

Even though you have requested confidential treatment for the schematics, they must still be submitted with the applications. Once submitted, they are withheld from public access, however, they are necessary for the technical review of the applications.

Please submit frequency plots of the highest and lowest channels (902.1 and 927.9 MHz) in order to demonstrate compliance with the bandedge requirements

of Section 15.249(d).

Please state the RBW and VBW used to make the field strength measurements of

the spurious emissions. How were average measurements made?

FYI- the AC Line conducted test was performed to the old Section 15.207 specifications. The new Section 15.207 specifications are equivalent to those of CISPR 22. You may retest the AC Line Conducted emissions to the new specs, and submit that data, in order to demonstrate compliance. If you

do not, then, pursuant to Section 15.37(h), the grant of authorization will expire in July of 2005 unless new test data is submitted prior to then demonstrating compliance with the new Section 15.207 specifications.

Again, if you have any questions, please let me know.

Have a good evening, '

regards,

Marianne

(See attached file: 2[1].1033.pdf)

[This e-mail is confidential and may also be privileged. If you are not the intended recipient, please delete it and notify us immediately; you should not copy or use it for any purpose, nor disclose its contents to any other person. Thank you.]