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ATCB
Attn.: Mr. Richard Fabina
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Subject

Response on filing comments

Date

September 01, 2008

Our reference

07092006.B03

Your reference

ATCB006616

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Our General Terms and Conditions, as filed at the Chamber of Commerce in Groningen, are applicable to all orders given to TÜV Rheinland EPS B.V.

TÜV Rheinland EPS B.V. is registered at the Chamber of Commerce in Groningen with no. 27247331.

Dear Mr. Fabina,

Making reference to your comments ATCB00006616 related to the following applications for FCC and IC grants:

FCC ID : JQ6-EDOC
IC : 2236B-EDOC
Brand : HID / Integrated engineering
Model : 800-8251
Description : A Desktop ISO 14443-4 reader with OCR operating on 13.56 MHz

the following responses should be noted:

Answer on your Question related to number 1:

"..Please provide an Annex B of RSS-102 for this device"

This Annex B of RSS-102 has been uploaded on your server.

Item number 2:

"..... Please describe how radiated emissions above 30 MHz were maximized from this transmitter....."

The test report has been modified and includes statements like:

The antennas used above 30 MHz were raised and lowered between 1 and 4 meters in height and the EUT was placed in three orthogonal axes during testing to maximize radiated emission levels.

Item number 3:

".....Please describe how radiated emissions below 30 MHz were maximized from this transmitter....."

The test report has been modified and includes statements like:

The loop antenna was placed in both horizontal and vertical orientations and rotated about these axes during testing and the EUT was placed in three orthogonal axes during testing to maximize radiated emission levels.

Item number 4:

".....Please provide the resolution bandwidth of the measuring instrument used during radiated emissions testing below 30 MHz...."

The test report has been modified and the resolution bandwidth has been included.

Item number 5:

".....Please provide the resolution bandwidth of the measuring instrument during AC line conducted emissions testing...."

The test report has been modified and the resolution bandwidth has been included.

Item number 6:

".....Note 3 of Section 3.1 (Radiated field strength measurement) of the FCC and IC test reports states that an 80 dB correction factor was used to correct the results from a 3 meter to 30 meter measurement distance but the results indicate that only 40 dB was used in determining the calculated results....."

The note of Table 1 of the test report has been modified. line 3 of the notes has been changed into:

The computation method for calculation of the field strength at different distances can be found in Appendix 1. The extrapolation factor of 40 dB/decade was used for 3m to 30m (80 dB for 3m to 300m, only applicable for 9 kHz to 490 kHz range)

Item number 7:

".....Frank De Vall is listed as the contact person for HID Global Corporation (HID) on the FCC Grantee Code Database. As such, he is the authorized person to sign the FCC agent letter and the cover letter for HID....."

The proper authorization letter has been uploaded.

Item number 8:

".....The model number shown on the IC application form does not match the model number shown on the IC label or the model number in the IC test report...."

The application form has been updated with the correct model number. We can see how this could be confusing. As specified by our customer, the Art. Code on the label contains V3.0 though it is not part of the Model Number. It is a software revision designation that does not affect compliance. The model number is 800-8251.

Item number 9:

"..... Please correct the field strength and transmitter spurious emissions shown on page 2 of the IC application form to the actual levels that were measured at 3 meters...."

The IC application form has been updated with the correct field strength values.

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Item number 10:

"... No contact name and email address are provided for the Canadian Representative on the IC application form...."

The IC application form has been updated with the contact name and email address for the Canadian representative.

All relevant and modified documents as indicated above have been uploaded on the ATCB server.

Best regards,
TÜV Rheinland EPS B.V.



P. de Beer
Approvals & Quality Manager

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