

Return address: P.O. Box 15, 9822 ZG Niekerk, The Netherlands

ATCB  
Attn.: Mr. Timothy R. Johnson  
Examination Engineer  
6731 Whittier Avenue, Suite C110  
McLean, Virginia 22101  
USA

Dear Mr. Johnson,

Related to your comments based on our request for certification for the following product,

FCC ID : V4Q-102020A (has been changed into: W6O-102020A!!)  
Brand : NOFIQ Systems BV  
Model : N20-BASE\_HUB  
Description : 2.4 GHz IEEE 802.15 ZigBee Fire control & indicating apparatus

we would like to provide you with the following information:

Question 1:

*This application has been submitted for grantee code "V4Q". However currently the FCC site cites:*

**"There are no grantees on file that match the search criteria specified."**

**Grantee Code: V4Q"**

*This issue needs to be resolved quickly. Many times this may mean the grantee code is lost and they may need to obtain a new one. This may affect many of the documents provided. Please review*

Answer 1:

The grantee code has been changed due to the fact that the applicant did not pay the previous registered Grantee Code. Grantee code has been changed from V4Q into W6O. All Documents have been modified and a new package of documents with correct FCC ID have been uploaded.

Question 2:

*The block diagram should show the frequencies of all oscillators in the TX device (CFR 2.1033(a)(5)). Please provide as the current block diagram is only for an upper level diagram*

Answer2:

The new and adjusted block diagram has been updated with a second page describing the block diagram of the Tx module and the frequencies used. This Tx module is an IC and has been assembled on a PC Board. See details of the filing. For all uploaded models (3 in total) the same RF Tx IC has been used and configured the same way. The PC Boards may appear similar, but are different in smaller details, like interfaces.

(see 07\_W6O-102020A\_Blockdiagram.pdf)

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**Subject**  
Comments

**Date**  
March 13, 2008.

**Our reference**  
17\_W6O-102020A  
\_comments-and-answers

**Your reference**  
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**Question 3:**

*Antenna information mentions Reverse SMA connection for the antenna. However schematics themselves state SMA. Please clarify as a standard SMA connector will not be considered compliant to the FCC's unique antenna requirement.*

**Answer 3:**

The antenna as described in the document 05\_W6O-102020A\_Antenna-info.pdf is the correct antenna used. Other documents have been corrected (user manual and schematics) with proper antenna reference and gain. The schematic has been changed and indicates REV-SMA meaning reversed SMA connector.

(See: 08\_W6O-102020A\_Circuit-diagram.pdf, and 15\_W6O-102020A\_User-manual.pdf)

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**Question 4:**

*Section 36.7 of the manual mentions a 3 dBi gain antenna. However other documentation provide suggests the gain is different. Please review.*

**Answer 4:**

See answer on question 3

**Question 5:**

*Section 3.2 of the test report appears to show compliance to radiated band edge requirements – but the test is cited as an RF conducted test. Kindly review as compliance needs to be shown in field strength terms and performed as a radiated measurement (or radiated – delta band edge method). Simply RF conducted with antenna gain corrected is not sufficient..*

**Answer 5:**

Measurements have been performed and corrected Test report has been added.

(see 13\_W6O-102020A\_FCC15-test-rapport.pdf)

**Remark 6:**

*FYI....Your RF exposure information appears to suggest 20 cm. Given the output power, it would seem that something similar to the attached may be more appropriate as it will not limit you to the 20 cm given the current FCC requirements and output power. Please review, comment or adjust ad desired. Note if you desire to remove the 20 cm requirement – page 168 of the manual may need to be adjusted to remove spacing requirement.*

**Answer 6:**

Knowing that the power does not require the limitation of 20 cm, the manufacturer just wants to keep this in the manual. According the manufacturer it will not be incorrect to warn even if there will be compliance at shorter distances to the device. The equipment will not be used at shorter distances ever during normal operations. So it will not limit the manufacturer nor the user.

**Remark 7:**

*FYI....Once the grantees code issue is resolved, we need to ensure that the authorization letter has been signed by the POC for this grantees as given on the FCC. Currently we can not determine this given items 1) above but will re-address when issue 1 is resolved.*

**Answer 7:**

This should be correct now.

(see 04\_W6O-102020A\_Form731.pdf)

**Question 8:**

*FYI....731 form and IC form for unlicensed devices should list the frequency range as the actual tunable frequencies and not just the band of operation. Please take care for future applications.*

**Answer 8:**

We have corrected the frequency range and the lowest and highest used channel frequency have been indicated on the 731 form.

(see 04\_W6O-102020A\_Form731.pdf)

**Question 9:**

*FYI... The 731 form cites an equipment type of DXT but 15.247 devices should either be DSS or DTS device*

**Answer 9:**

The 731 form has been changed into DSS. However, could you indicate where I can find code DTS?

(see 04\_W6O-102020A\_Form731.pdf)

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Best regards,  
TÜV Rheinland EPS B.V.



P. de Beer  
Approvals & Quality Manager