



Tim Dwyer <rfspectrum@gmail.com>

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## FW: Revised quotation 1100002291 ->> Reference: Novatel 13U16221 // AN13T0577

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**Kuwatani, Soledad U.** <Soledad.U.Kuwatani@ul.com>

Fri, Dec 20, 2013 at 2:09 PM

To: "Dwyer, Timothy" <Timothy.Dwyer@ul.com>

Cc: "Briggs, Mark" <Mark.Briggs@ul.com>, "Gonzalez, Carmen" <Carmen.Gonzalez@ul.com>

Hi Tim,

We finally have a response from this client. See answers below with the attachment.

I also saved in TCB cert upload.

Let me know if you need anything.

Regards,

Sol

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**From:** Todd Gallagher [mailto:[tgallagher@nvtl.com](mailto:tgallagher@nvtl.com)]

**Sent:** Wednesday, December 18, 2013 2:07 PM

**To:** Rincand, Grace

**Cc:** Martin, Kenwood; Gonzalez, Carmen

**Subject:** RE: Revised quotation 1100002291

Good afternoon Grace,

I have the following response to the questions below. Sorry for the delay.

Thank you.

Todd Gallagher

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**From:** Rincand, Grace [mailto:[Grace.Rincand@ul.com](mailto:Grace.Rincand@ul.com)]

**Sent:** Monday, October 28, 2013 12:22 PM

**To:** Todd Gallagher

**Cc:** Martin, Kenwood; Gonzalez, Carmen  
**Subject:** RE: Revised quotation 1100002291

Hi Todd,

Please see reviewer questions for Project: 13U16221 , MIVGSM0308/Grant Change to a Single Modular Approval:

1. MPE Report / Integrator Manual: MPE reports submitted are identical to those submitted with the original application in all respects including antenna gains of 2 and 4.5 dBi for 1900 and 850 MHz bands respectively. Revised integrator instructions, page vii specify maximum antenna gains of 7 and 1.4 dBi respectively.

-The revised 850 MHz antenna gain of 1.4 dBi is not a problem for EMC or exposure compliance since it is a lower gain than originally proposed, however the value is not consistent with the value presented in the MPE evaluation.

-The revised 1900 MHz antenna gain of 7 dBi is greater than originally proposed and is not consistent with the value used in the MPE evaluation. Based original grant power of 1.3 W for 1900 MHz, an antenna gain of 7 dBi would result in a radiated output power of 6.5 W. The radiated power limit for Part 24 is 2W, so the maximum gain allowed in order to maintain compliance with the radiated limit of 2 W EIRP is 2 dBi as shown in the original application. Additionally, please also consider item 2 below when resolving this issue.

(NVTL – The incorrect guide was submitted in support of this request. Please see attached for the proper guide with the proper antenna gain information. This guide has been updated to provide integration instructions (see page vii and viii) ).

2. Tune Up Procedure: Maximum Conducted Power values in the revised Tune Up procedure (1 W+2 dB and 2 W +1dB for 1900 MHz and 850 MHz respectively) are not consistent with and exceed the powers listed on the original grant. They are also inconsistent with power values used in the MPE evaluation. Please revise all documents as necessary so that maximum power values are consistent throughout, and so that compliance with both RF Exposure and Maximum Radiated Power limits is demonstrated.

(NVTL – Please see attached for the proper tune up procedure.).

3. The original integration instructions included very clear instructions on warnings, labeling and other information to be provided by the integrator to the end product user. The original instructions have not been carried forward to the revised integration instructions. Please revise the integration instructions in order to comply with "Comprehensive Integration Instructions" in Section I of KDB 996369 D01 Module Certification Guide v01r03.

(NVTL – The incorrect guide was submitted in support of this request. This guide has been updated to provide integration instructions (see page vii) ).

4. The photo on the cover of the integration manual appears to show some differences from the external photo on file with the original application. Please submit current external and internal photos together with any explanation or test results needed to support changes.

(NVTL – The pictures are an accurate representation of the modem. There have been some minor PCB changes (non RF affecting, Class I changes) that have occurred over the years. We have included internal and external photos as requested.).

If you have any questions please let me know.

Sincerely,

Grace Rincand

Administrative Assistant I

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UL Verification Services Inc.

Fremont, CA USA

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Email: [Grace.Rincand@ul.com](mailto:Grace.Rincand@ul.com)

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**From:** Todd Gallagher [<mailto:tgallagher@nvtl.com>]  
**Sent:** Friday, October 04, 2013 10:00 AM  
**To:** Martin, Kenwood; Rincand, Grace; Gonzalez, Carmen  
**Subject:** RE: Revised quotation 1100002291

Hi Ken,

It appears I missed it the first time around. Please see attached.

Thanks,

Todd

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**From:** Martin, Kenwood [<mailto:Kenwood.Martin@ul.com>]  
**Sent:** Friday, October 04, 2013 9:48 AM  
**To:** Rincand, Grace; Gonzalez, Carmen; Todd Gallagher  
**Subject:** RE: Revised quotation 1100002291

Thanks Grace

Hi Todd

Can you help on this?

Thanks,

Ken

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**From:** Rincand, Grace  
**Sent:** Friday, October 04, 2013 11:36 AM  
**To:** Martin, Kenwood; Gonzalez, Carmen  
**Subject:** RE: Revised quotation 1100002291

Hi Ken,

We will need a modular approval letter. The C2PC letter indicates you have one but it was not with the submittal documents. I have attached a form for your convenience.

Sincerely,

Grace Rincand

Administrative Assistant I

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Email: [Grace.Rincand@ul.com](mailto:Grace.Rincand@ul.com)

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**From:** Martin, Kenwood  
**Sent:** Thursday, October 03, 2013 3:36 PM  
**To:** Gonzalez, Carmen  
**Cc:** Rincand, Grace  
**Subject:** RE: Revised quotation 1100002291

I just happen to have one J

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**From:** Gonzalez, Carmen  
**Sent:** Thursday, October 03, 2013 4:21 PM  
**To:** Martin, Kenwood  
**Cc:** Rincand, Grace  
**Subject:** RE: Revised quotation 1100002291

Hi Ken,

Could you please help with grace request. Not sure do you have a copy of the grant.

If you have any questions or concerns, please do not hesitate to contact me.

Thank you,

Carmen Gonzalez  
Account Representative II  
UL Fremont  
47173 Benicia Street, Fremont, CA 94538  
Direct: [510-771-1109](tel:510-771-1109)  
Main: [510-771-1000](tel:510-771-1000)  
Fax: [510-661-0888](tel:510-661-0888)  
Email: [Carmen.Gonzalez@ul.com](mailto:Carmen.Gonzalez@ul.com)

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**From:** Rincand, Grace  
**Sent:** Thursday, October 03, 2013 1:42 PM  
**To:** Gonzalez, Carmen  
**Cc:** Martin, Kenwood  
**Subject:** RE: Revised quotation 1100002291

Hi Carmen,

Can you request the customer provide the original grant? Since the FCC website is down I cannot get it.

Thank you in advance!

Sincerely,

Grace Rincand

Administrative Assistant I

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### 3 attachments

 **GSM0308\_Photos.pdf**  
631K

 **GSM0308 UG.pdf**  
3363K

 **GSM0308 -Tune Up Procedure r2.pdf**  
17K