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From: Dominique Kwong [Kwong@Sierrawireless.com]
Sent: Wednesday, November 17, 1999 9:47 AM
To: Errol Chang [ECHANG@fcc.gov]

Subject: RE: EA94629

>> Dominique Kwong <kwong@SierraWireless.com> 11/16/99 07:35PM >>>
Re: FCC ID N7NAB300A
Applicant: Sierra Wireless Inc.
Correspondence Reference Number: 10696
731 Confirmation Number: EA94629
Date of Original E-Mail: 11/16/1999

-1. The new MPE tests are O.K. MPE tests were performed for two antennas, a 3.4 dBd Larsen antenna and a 3.0 dBd Antenna World antenna, both with a 4.5 meter section of cable connected between the antenna and the transmitter. The warning statement in the latest uploaded manual info has a 3.0 dBd limit for antennas and a minimum cable length of 3.8 m, which do not match those tested for MPE.

The users manual has been updated with the revised cable length. I would like to state that the 3.8m length will meet our system spec. of 2dB of cable loss if RG58 cable is used. RG58 cable has a loss/ meter of .692dB/ meter @ 900MHz.

Therefore, 3.8 meters of RG58 cable will give us a loss of 2.63 dB. We will comply with your request regarding the cable length, but please advise on whether or not we can state a minimum length of 3.0 (2.1dB loss) meters if using a cable with a loss of .7dB/ meter or greater.

2. In the MPE report, the highest measured output is 36.5 dBm (4.46 W) conducted. This does not agree with the 3.0 Watt described in the users manual. Was this intentionally raised to above 3.0 W to further ensure compliance?

In the specifications section of the user manual, we have stated that this device has an output power of 4.5W ERP.
Please refer to document AB350D2.pdf for details.

3. Please clarify above issues and revise the manual info accordingly with respect to the following suggested grant conditions - this device is approved for operation with specific Sierra Wireless modem transmitters using a 3.0 dBd or a 3.4 dBd vehicle-mount antenna with at least 2 dB cable loss, as described in the filing. The antenna installation must provide a separation distance of 20 cm or more between the antenna and all persons to satisfy MPE compliance.

All the issues listed above have been addressed in the user manual.

If you have any further questions, please don't hesitate to call.

Thanks for your time.

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