



June 15, 2010

To:
Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD

Subject:
Response to FCC Inquiry 38923, for FCC ID: KA336WAN2

Dear Mr. Bonilla:

In your email dated June 8, 2010, the FCC has asked the following two questions:

1) Please submit test results that demonstrate threshold parameters. In this test you should use a single tone interference signal in and out of band. Tests may include spectrum analyzer screen captures and tabulated data.

2) Please clarify how 64 usecs is enough listening time period under light load conditions. Does your device only listen 64 usecs under light load conditions?

In response, Solectek provides the following information:

Regarding Question 1: The FCC inquiry is referencing the Class II permissive change application for KA336WAN2. This is a wireless subscriber device also known as a CPE (client premises equipment). This device is under the full control of the centralized Base Station (KA336WAN1) and as such does not transmit until authorized by the Base Station. The risk of a hidden node effect is virtually non-existent as explained in Solectek's description of its Unrestricted Protocol, copied here for convenience:

The fixed-node WiMAX system uses a Master (Base Station) located at central high point to perform threshold detection. The Base Station is connected to client devices through predominantly radio line-of-sight links. Client devices are aimed with directional antennas back to the Base Station. With this configuration, the risk of hidden node effects and thus the possibility of having a client-based interference scenario is almost non-existent.

Due to these facts, there is no threshold system required on the CPE and in Solectek's Class II permissive change documents.

Regarding Question 2: Our sampling time of 64 μ s is sufficient to sample the wireless channel and to determine with reasonable accuracy the amount of power present in the operating bandwidth, due to the presence of other wireless equipment within the area. Our equipment will conduct this

sample under all radio load conditions, light, heavy or otherwise. The effectiveness of the sample is in no way affected by the real-time radio load conditions.

I hope this information has helped to answer your questions.

Regards,

A handwritten signature in black ink, appearing to read 'D. Gell'.

David Gell
VP Engineering
Solectek Corporation