



American Telecommunications Certification Body Inc.  
6731 Whittier Ave, McLean, VA 22101

November 14, 2003

RE: FCC ID: QA5-HAB-03002  
Attention: Ellis Wu

I have a few comments on this Application.

1. The operational description states that two antennae are used with this transmitter. The description also states that reverse SMA are used on both antennae. Please note that while the end of the cable that goes to the PCMCIA card uses reverse SMA, the other end of the cable which connects to the patch antenna itself appears to be a different type. Please verify that this is a non-standard antenna connector. **x**
2. Please note that the manual (page 8) states only one 5dBi antenna is used with the device. The operational description and the photos show two antennae and the MPE is calculated using a 12dBi antenna. Please reconcile the manual, MPE and operational description antenna statements. **ok**
3. Please note that the manual says the device can be used in other than the US. While the manual says 11 channels are useable in the US, there is nothing that indicates that the device cannot be made to operate on non-US channels for US devices. Please provide evidence that the user of the device cannot make the device, by either software or other, operate on any non-US frequency. This may be done by attesting to this fact.
4. Please verify that the length of antenna wire used in radiated testing is the actual length of antenna wire that will be provided with the transmitter. **x**
5. FYI – no action needed. Please note that the reduction in power for antennae over 6dBi applies to a conducted power level of 30dBm. This means that reduction in power does not have to occur until the 36dB point. Since your device is only 20dBm the reduction does not have to occur until a 16dBi antenna is used. No reduction in power is needed if only a 12dBi antenna is used.

Dennis Ward  
<mailto:dward@AmericanTCB.com>

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the sender.