



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

November 26, 2003

RE: FCC ID: PL6-CPE-25R_ATCB000944
Attention: Dustin Oaks

I have a few comments on this Application.

1. Please complete section IV items 1 and 2 of the 731 form. This is the anti drug attestation and the applicant / agent attestation/certification information.
2. Please note that while block diagrams are not required for licensed devices, if they are provided they must meet the requirements of 2.1033. This requires that clocks and frequency paths be clearly shown and identified. Please provide a block diagram in accordance with 2.1033.
3. Please note that the only items on the confidentiality request are schematics and block diagram. Please note that the tune up procedures are not listed as confidential and will be open for public view. If the tune up and cal procedures are considered confidential, please provide a new confidentiality request document to include these items.
4. Please provide the parts list for this licensed device. Please include this parts list on the confidentiality request if the exhibit is to be confidential.
5. Please provide the MPE report for this device.
6. FYI – no action required for the licensed device application. Please note that while this application is for the licensed device portion, the device is also FCC B for the digital portion. Please note that as FCC B the 2 condition statement is required to be on the device. As there appears to be more than sufficient room, this statement should be on the device itself and not in the manual.
7. Please note that set up photos are not required for licensed devices. Please note that in the setup photos provided the device was not in the case. Please verify that the case has no EMC characteristics that would affect radiated emissions measurements (what is it made of, and is there any conductive aspect to the case?). Was this to allow resistive termination of the antenna ports, or for other reason? Please explain.
8. Please explain why the frequency tolerance section 21.101 is referred to for occupied bandwidth measurements.
9. Please note that as this device connects to the computer in a customers premise and since the customer can 'relocate' this device, it should be considered a mobile device with a separation distance requirement of at least 20 cm. Please explain why on page 6 of the report you have stated "The transceiver is not intended to be a mobile device.
10. Please note that the block diagram in the report and manual appears to be the block diagram in the block diagram exhibit. Please note that the confidentiality request states the block diagram is confidential. Please note that as this is in the report and manual, it will be for public view. If the block diagram is to be confidential, you will have to remove it from the report and manual, otherwise you will have to remove it from the confidential exhibits list. Please explain and or correct as needed.
11. Please note that while a diagram of the rf power test and antenna spurious emissions is shown, no information on the actual method used is given. Please provide an explanation of the test procedure used to perform antenna conducted power measurements and antenna conducted spurious emissions measurements. Please include sample calculations of affecting parameters (how are these parameters included?).
12. Please note that radiated limits in part 21 are EIRP not ERP. Please correct your report to show EIRP limits and measured results.
13. Please note that the radiated spurious emissions, power out, OBW data is over 1 year old. The first page of the report indicates testing and approval as done on 10/31/2003. Please explain.
14. Please note that some equipment used in the testing of this device show an out of calibration condition as they have approximately 1 year or older calibration dates. Please explain and test using properly calibrated test equipment.

15. Please note that conducted power measurements and antenna spurious emissions were made using a directional coupler (see page 36 and 37 of the report). Since the accuracy of the attenuation of the coupler has a direct bearing on the accuracy of the data, the directional coupler must be calibrated (i.e. factory attenuation data is not appropriate). Please show the calibration date of this measurement device. Please show how this factor is included in the data.
16. Please note that according to 2.1033 "The dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range" is to be provided at the time of certification. While I have found general specification on the device the above information is not evident. Please provide the dc voltages and currents into the final amplifier stages of this device.



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.