

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

October 6, 2003

RE: FCC ID: OWDTR-0027-E\_ATCB000816

Attention: Daryl Popowitch / Kathy Grzovic

I have a few comments on this Application.

1. Please note that while you have listed the Part 2 power measurements (ERP is addressed in 90.205), you have not listed under which Part 90 section your conducted power is allowed to be over 75 watts. Please note that fixed stations usually are only allowed a max of 75Watts conducted power. Please explain why this system is not subject to the 75 watt limit of 90.261.

Response: This base station is not used as a fixed station in the fixed service.

2. Please note that Power is ERP. In the spurious emissions data using antenna substitution, it is not made clear if the antenna gains are dB<sub>i</sub> or dB<sub>d</sub>. Please clarify the effective radiated power measurements as ERP. Please make any changes to the measured values to reflect ERP.

Response: Antenna gains are dB<sub>d</sub> as noted in table 7.1 antenna gain column. Powers listed are ERP as required for this device.

3. Emissions mask C of 90.210 states, "(3) On any frequency removed from the center of the authorized bandwidth by more than 250 percent of the authorized bandwidth: At least  $43 + 10 \log(P)$  dB."  $43+10\log(P)$  is generally -13dBm. The plot appears to show a limit of 0dBm (apparently the -50dBc form item 2 of mask C). Please explain and please correct the plots to be inline with Mask C. (See page 18 of the report).

Response: During measurement, the channel bandwidth was used instead of the authorized bandwidth, which resulted in the final limit line ( $43+10\log(P)$ ) not being displayed on the plot. Analysis of plot, however, shows that there are no unwanted emissions above the -13 dBm limit at 250% of authorized bandwidth.

4. FYI - The MPE states that the EIRP is 500 watts. However, no antenna information has been provided. Please note that a maximum ERP limit exists for this device and MPE should be done using the maximum gain antenna that will be used on this system. Please also note that MPE will be addressed at the time of licensing as well. ERP in the EMC report is simply to show the maximum ERP that the system will be emitting so as to show compliance with the HAAT ERP power limits.

Response: A revised MPE exhibit has been uploaded with this response.

5. Please separate the alignment procedure (Tune up) into a separate exhibit.

Response: The alignment procedure has been uploaded as a separate exhibit, and has been removed from the revised Operational Description uploaded with this response.

6. Please verify which emissions designators are for 90.210 designation.

Response: Section 14 of the test report, "Necessary Bandwidth and Emission Bandwidth" indicates which emissions designators are for 90.210.

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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.