



# American Telecommunications Certification Body Inc.

6731 Whittier Ave, McLean, VA 22101

December 22, 2005

RE: FCC ID: SNKHNET50BS8\_ATCB003040

Attention: Les Payne

I have a few comments on this Application. Please note that further comments may arise in response to answers provided to the questions below.

1. Please note that you have provided a photo of the radio rf board with the shields removed, but there is no photo provided of the multiplexing board which also has shields. Please provide photos of boards with shields removed (only one rf transmitter need be shown).
2. Please note that the schematics for the transmitter board states, "09-14-04 Added a circuit board to hold J3, J4, L6 and C32 for the 8 channel Base Station application. MAH". The internal photos however appear to be only of the receiver version and not of the transmitter. Please provide a photo of this circuit board and how it connects to the modified transmitter board.
3. Please explain how the modification provides connections to J3 and J4 on the transmitter board as related to the connections from the other receiver boards. The explanation does not appear to agree with the schematics. For example, the terms RF, ANT; RF, Out; and RF, in are shown from the modified TX unit in the "8C Base Schematic", while only the term RF is applied to the other boards. The multiplexer uses the terms RF, J1 etc. Are the terms RF from the receiver boards the same as the term 'RF, in' from the modified transmitter? Also, J2 is referenced as controlling TXD, RXD and GND pins on all of the spread spectrum boards. However, J2 as shown on the tx and rx schematics appears to be an antenna connector and not as indicated in the 8C base schematic (i.e. TXD, RXD, GND). Please provide an operational description that clearly explains how this works and how the other radios boards prevented from transmitting and which clearly identifies that correct jacks etc.
4. FYI – please note that units of measurement should always be applied to readings. Please note that it is assumed that the meter reading, ant factor, cable factor and am factor are in dB. In the future, please identify the units of measurements for all data columns.
5. Please note that the 731 states that the operating frequency range of the device is from 902.62 to 927.77MHz. Please note however, that the list of frequencies in the hopping sequence chart shows that for pattern 1 the frequency range is 902.8MHz to 927.6MHz and that the frequency range for pattern 8 is 903.15MHz to 927.95MHz. This means that the total frequency range for the device is from 902.8MHz to 927.95MHz. Please correct the lowest frequency range listed on the 731 to coincide with the lowest frequency listed in the hopping table (902.8MHz) and please provide data that shows compliance for the total frequency range. Alternately, please show how this device only uses pattern 1 through pattern 3 as any other pattern would exceed the highest frequency listed on the 731 and tested in the report. Alternately, please test a transmitter operating under pattern 8 to show compliance with the highest frequency listed in the hopping table.

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.