



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

February 25, 2005

RE: FCC ID: SNKHNET50BS\_ATCB002182

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 the 731 frequency must be the the center of the lowest channel to the center of the highest channel. Please clearly identify these frequencies on the 731.
2. Please note that the report (Part 1 page 4) states the frequency range is between 900-928MHz and is a FHSS system. Please explain if this is supposed to be 902-928MHz. Please correct as necessary.
3. The description of the device in the report (part 1) and the operational description calls this a "single channel" device. Documentation presented calls this a FHSS system. Please explain. Is this a FHSS device or is this a single channel device?
4. Please note that your report states that the .0555sec pulse only repeats a frequency every 15 seconds. Please note that assuming equally spaced and distributed hops of 55.5ms each, and with 65 or 66 frequencies the repeat frequency time (dwell) of a single frequency would appear to be less than once every 3.5 or 4 seconds and not once every 15 seconds. This would mean that the channel hop sequence has a non transmitting time of about 170ms between hops (i.e. 55ms on + 170ms off between hops). Please explain where the 15 seconds comes from on page 10 of the report. Please recalculate the dwell time for the actual time each channel dwells during the allotted time frame.
5. Please note that power measurements for a FHSS device needs to be done with the hopping stopped. Also, a low mid and high frequency power measurement should be made. Please provide power measurements with the hopping stopped but with a modulated carrier (channel).
6. Please note that for power measurements of FHSS devices the resolution bandwidth used must be greater than the 20dB bandwidth of the emission. This would mean that the resolution bandwidth used to make power measurements in this situation would be at least 390kHz. Please provide power measurements using the proper resolution bandwidths.
7. Page 1 of part 3 of the test report states that the frequency range is 2.4 to 2.48GHz. Please note that this appears to be a 902-928MHz device. Please explain and please provide a corrected report stating the actual frequency range of the unit.
8. Please provide the required radiated spurious emissions data. Please pay attention to the restricted bands specified in Part 15.
9. Please note that this device is significantly large enough to have the 2-condition statement as required by 15.19. Please provide a sample label with this statement.
10. Please provide a sample of the pseudorandom hopping sequence. Please include all useable hopping frequencies in this pseudorandom list. Please provide some information on how the pseudorandom sequence is generated.
11. Please note that the statement "HNET 5.0 Single Channel Base station was designed to be the controlling hub for the HNET 5.0 radio system" does not adequately explain what the device is. Please provide an operational description that more clearly describes what this device is. i.e. what is it used for, what is the HNET 5 radio system and how is it used?
12. Please address the required rf exposure requirements in the user manual.

*Dennis Ward*

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.