

May 27, 1999

ATTN: Mr. Joe Dichoso

Re: FCC ID LKTEAP-10AMP

Applicant: BreezeCom, Ltd.

Correspondence Reference Number: 7618

731 Confirmation Number: EA93721

Mr. Dichoso,

The following is in response to your e-mail sent on May 6, 1999.

Item 2: Resend a better copy of the schematics and block diagram exhibit or increase the resolution. The exhibits submitted were unreadable.

Response: The schematics have been uploaded to the FCC web page. Please see the pdf file. {Schematics_Block Diagram for Item 2.pdf}

Item 3: Submit a confidential request letter.

Response: A letter requesting confidentiality has been uploaded to the FCC web page. Please see the pdf file. {Request for Confidentiality Letter for Item 3.pdf}

Item 4: Table 4 of the test report shows failing emissions. Please explain/correct accordingly.

Response: Table 4 has been corrected and the test report uploaded to the FCC web page. Please see the pdf file. {990069 report revised.pdf}

Item 5: Table 7 indicates test with UNI-16 antenna with the 500 mW amp. This combination is not listed in the antenna/output power/amp chart in the test report.

Response: The chart in the test report has been corrected to reflect the use of the UNI-16 to obtain the data presented in Table 7. The test report has been uploaded to the FCC web page. Please see the pdf file. {990069 report revised.pdf}

Item 6: The professional installation justification references a chart that will be supplied to the installer for proper installation. Please provide the chart. The chart should list each available antenna, the antenna gain, the output power, and whether the antenna is

limited to point-to-point applications or not. The chart should match the chart in the test report.

Response: The chart has been updated and corrected to include the requested information. The test report has also been updated and uploaded to the FCC web page. Please see the pdf file. {Amp Chart for Item 6.pdf}

Item 7: Indicate how each antenna will comply with the RF safety requirements. Provide the installation instructions/warnings that will be provided to the installer for proper installation.

Response: This is included in the test report section 2.4. I have separated it from the test report and uploaded it to the FCC web page. Please see the pdf file. {Professional Installation for Item 7.pdf}

Item 8: The transmitter cannot coordinate its hopping sequence with the hopping sequence of other transmitters, or vice versa, for the purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters. Provide a description on how the device complies with this rule.

Response: Each BSS (basic service set) is independent and has no way to coordinate its hopping sequences with other BSSs. The AP is using one and only one pre-defined sequence and all other stations that are synchronized to this AP will use the same sequences. Other transmitters in the same air space will not influence or change the hopping sequence used. When interference is present the radio will back-off until the end of interference but the hopping timers are still running at the background.

Item 9: The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Indicate how the pseudorandom hopping sequence is derived. Provide a list of channel frequencies and a sample of a few sequences.

Response: The hopping sequence has been uploaded to the FCC web page. Please see the pdf file. {Hopping Sequences for Item 9.pdf}

Item 10: Each frequency must be used equally on the average by each transmitter. Each new transmission must start on a different frequency and must use all frequencies before repeating a new sequence. Therefore, describe where the next transmission starts when all frequencies are not used for a previous message. This is required because some transmissions may need only a few frequency hops to be completed. i.e. If the transmission started on the same frequency each time, this frequency would be used more than the others if many short transmissions were sent.

Response: Each sequence uses 79 channel in a cyclic way. The hopping timers/counter are always running regardless of actual transmission taking place.

Item 11: Section 15.247(a)1 indicates that the system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals. Please explain how the device complies with this rule when a packet is repeated or when multiple packets are sent. What is the receiver input bandwidth? How does the receiver shift frequencies and determine which frequency to shift to in order to synchronize with this transmitter?

Response: The receiver is always and continuously synchronized with the transmitter. When a packet is re-transmitted it will use the frequency that current based on the hopping sequence and the dwell time that is constant and never changes

With Respect,
Desmond A. Fraser
President, Rhein Tech Laboratories