



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

July 6, 2006

RE: Stealth Alarm Systems Inc os Tela-Link

FCC ID: UBLSIU3A

After a review of the submitted information, I have a few comments on the above referenced Application.

- 1) Please provide a parts list for this device. As a minimum this must include the active components in the RF circuitry.
- 2) Please provide a Tune up procedure over the power range provided (2.1033(c)(9)). Note that information in the operational description explains factory calibrations. This information should be included in the Tune up procedure.
- 3) It does not appear that the application includes both DC voltages AND currents applied into the several elements of the final radio frequency amplifying device for normal operation over the power range been provided? (2.1033(c)(8)). Please provide or kindly explain where this information may be found.
- 4) If necessary, please update the confidentiality to include the parts list and tune up procedures provided.
- 5) 731 form cites frequency range of 406.1 – 470 while operational description cites 410 – 470 MHz and users manual cites 410 – 430 & 450 – 470 and test report cites 410.6 – 430 & 450 – 470 and test data shows 406.1 – 430 & 450-470. Please explain/correct these inconsistencies as necessary.
- 6) The information provided mentions both an internal and external antenna. Please update the RF exposure information to clearly explain the gains associated with each antenna and the worse case is selected for calculations. Additionally, please note that a 1.0 dBi is listed for antenna gain, however dipoles are typically 1.64 numeric (theoretical) or similar.
- 7) Kindly explain why the RF exposure shows 25.9 cm, while the manual shows much more distance. Did the manufacturer cite a larger distance on purpose?
- 8) RF exposure information in the manual should also caution against co-location, such as the following or similar:

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least ____ cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

- 9) Users Manual does not appear to address the RX portion of this system is subject to Part 15 and the manual does not appear to include information required by 15.21 and the label does not appear to include the information required by 15.19(a)(1) (for the RX).
- 10) This device utilizes a integrated antenna. Given the devices utilizes a integrated antenna (and also external antenna) and the limits are in ERP (90.279 and 90.205), the data should show compliance in ERP. Please correct.
- 11) Sections mentioning power should also cite 90.205 and 90.279 in addition to Part 2.
- 12) Please justify transmissions in the 406 – 416 band. It appears that according to certain sections of Part 90, that:

Frequencies in this band will be assigned only for transmitting hydrological or meteorological data or for low power wireless microphones in accordance with the provisions of §90.265.
- 13) It is difficult to adequately determine if the device complies with the mask portion from 3 to 4.6 kHz given the span used. Please provide an additional plot of the worse case emissions using a span

around 10-15 kHz as appropriate. Additionally, mask plots should normally show the masks on the plot itself to show compliance. Please correct.

- 14) Figure 7 appears to utilize a duty cycle for purposes of showing compliance. Duty factor is normally not applied to review of the mask. Please utilize the narrower span as given above in effort to obtain better dynamic range and also an appropriate RBW = VBW = 100 Hz.
- 15) Test report for radiated emissions mentions ANSI C63.4. This is not correct as the method should follow the substitution method of TIA-603.
- 16) For frequency stability, please compare to appropriate limits (i.e. 1 ppm FCC, 0.5 ppm IC).
- 17) For transient frequency behavior, please add appropriate limit lines.

For IC:

- 18) Please adjust the IC labeling to include the model number as being listed, according to IC labeling requirements.
- 19) Please correct the IC form to:
 - worse case TX spurious levels and worse case RX emissions.
- 20) For IC an appropriate RSS-102 attestation should be provided. Please see most recent ATCB IC forms which includes these attestations (attached). Annex B should be provided and Annex A may also need to be provided. Please review.
- 21) Please provide appropriate receiver emissions according to RSS-119 section 5.12.
- 22) Please explain if frequencies for Canada are 406-1 – 470 MHz or 406-1 – 430 MHz, and 450 – 470 MHz. Please correct the IC form if relevant.



Timothy R. Johnson
Examining Engineer

[mailto: tjohnson@AmericanTCB.com](mailto:tjohnson@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.