Responses to Non-Conformities FCC ID: O6XLTG500 (Ref # E01-000003-1)

Item 1:   Please upload the schematics, operational description and block diagrams to their appropriate exhibit. The confidentiality letter will have to updated.

Revised confidentiality letter provided January 30, 2001.

Item 2:   §15.21 Information to user. - The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Revised manual statement provided January 30, 2001.

Item 3:   Please provide a photo of the label and a photo or diagram showing label placement. The device appears to be large enough to fit the statements required in 15.19. Please explain/provide.

Label provided January 30, 2001.

Item 4:   In the future, please submit the block diagram and schematics in a separate file. I have separated these files as Block Diagram of circuit.doc and Schematics.doc.

Future submittals will have these files separated.

Item 5:   In the equipment list provided, there appears to be a type on items 4 and 8. Please explain/provide accordingly.

Response received January 30, 2001 - Item 4 has a typing error. The calibration due date should read November 2, 2001. The last item also has a typing error. The calibration due date should read August 11, 2001.

Item 6:   Please provide a description of the duration of the pulse. Only a description of the length between pulses was provided.

Response received January 30, 2001.

This device is an active tag. This means it will transmit its data in short bursts at pre programmed intervals. These intervals can be:
a) once every 15 seconds
b) once every 30 seconds
The pulse length is approximately 9mS long. The pulse varies between 7 and 9 milli seconds.

The transmit repetition rate of the tags are programmable at the AIT program office in South Africa. The repetition rate will be set at a minimum transmit frequency of once every ten seconds and a maximum of once in ten minutes. This minimum applies to the requirements stipulated in section 15.231(e) of the FCC regulations.
Modulation Characteristics and Timing
The modulation type for both the tags is On-Off Keying (OOK). The encoding technique for the binary data is indicated in the figure below. The slew rates insure that the frequency bandwidth does not exceed the specified limits. Altogether 23 bytes are transmitted, with transmission duration of 10,5 milli-seconds. This means that the duty cycle is less that 0.001% for a given minimum interval of 10 seconds.