Responses to E01-000003-1

1) New confidentiality letter uploaded.

2) Revised Product Information Sheet uploaded.

3) Photo showing label & placement has been uploaded. This was an application where I had to upload 3 times before the files would take. I could see where the label & loc file only had 2 check marks next to it, so I guess I missed it on the third attempt. Customer's reasoning for not being able to apply the FCC statement onto the device: We are in the process of having new molds made for the Slimline tags whilst the length and width are staying as it was we are reducing the height of the tag from 5 mm down to 3 mm. The same moulding material (ABS plastic) and existing circuit board will be used but we are embossing the different certification authority logo's as part of the mould (FCC, CE. C-tick etc.). At the moment it is already a problem to put everything required on the label so we will definitely have to put the FCC id number on the label but there won't be enough space left to put the whole statement on. Note: They are aware the changes they are doing will require retesting and possible permissive change submittal.

4) Future submittals will have these files separated.

5) 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.

6) Comments from customer:

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.

Joyce Walker
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