

**Dward ATCB**

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**From:** Mark Briggs [mbriggs@elliottlabs.com]  
**Sent:** Monday, June 06, 2005 2:38 PM  
**To:** Dave Guidotti; dward@atcb.com  
**Subject:** Re: Fwd: FCC Equipment Authorization System - FCC ID: KL7-654T-V2  
**Attachments:** ATCB Form 731 revised.doc; ATT00052.txt

Dennis -

Responses below

Re: FCC ID: KL7-654T-V2

Applicant: Savi Technology Inc  
 Correspondence Reference Number: 20675  
 731 Confirmation Number: TC573267  
 Date of Original Email: 06/06/2005

Subject: FCC Equipment Authorization System

1) The device is operating under 15.231(e), the proper equipment codes should be "DSR". Please explain/correct.

Please correct to DSR as in the attached.

2) The device operates under 15.231(e) and has two signals, a signpost signal and a data signal. It appears that the signpost signal occurs first followed by the data signal. The filing does not indicate the time between the signpost signal and the data signal. Compliance with the automatic silent period of at least 30 times the duration of the transmission or no less than 10 seconds has not been shown. Please verify and explain.

The device transmits three different signals - the id code transmission, the signpost id transmission and data transmissions.

- The id transmission is a single pulse of duration less than 10ms. The device is programmed such that this transmission will occur only once in any 10 second period to meet 15.231e. The transmission occurs as a single transmission in response to a "Hello" command from a reader or transmissions at intervals of between 10 seconds and 9 hours when instructed by a signpost device.
- The signpost signal is in response to a low frequency signal transmitted by a signpost device that activates the tag and causes it to transmit its ID and two other pulses. The total duration of the transmission is 330ms, with each pulse lasting 10ms and with a 100ms period between each pulse. The device is programmed such that this transmission will occur only once in any 10

second period to meet 15.231e.

- Data signals consist of a series of 10ms pulses lasting up to 1 second in duration and with a 10% duty cycle (one pulse in every 100ms). There is a quiet period of at least 30 seconds between transmissions. Data signals may be transmitted in response to a reader interrogation.

the above is detailed in the Theory of Operations

3) During testing, the device was sent a series of signals from the reader to transmit every 3 seconds, so it appears that the device does not automatically limit operation to the required silent period. Please explain.

The mode described above was used during EMC testing for Europe and was a purpose built test mode to enable testing against the European standard EN 301 489. This mode was not used for FCC testing and is not a normal operational mode.