

From: Claire Hoque
Sent: Tuesday, April 01, 2003 9:45 AM
To: Mike Kuo
Subject: RE: SMARTIRE SYSTEMS INC. , FCC ID:NATTX433CS-2, AN03T2688

Hi Mike,

Here is the answer for Item(3) from Smartire.

Question:Item (3) of reply mentioned the silent period (7 seconds) which is less than 10 seconds or 30 times of duration of transmission. Based upon this description, this device does not meet 15.231(e) requirements. Please address this issue.

ANSWER:

Mode 1: Standard operation while driving:

The device transmits one transmission every 5 minutes. Each transmission is 500 ms long.

Mode 2: If there is a pressure loss of more than 3 PSI.

If the device measures a pressure loss of more than 3 PSI it will transmit one transmission within 7 seconds of the pressure loss. If there was a previous transmission within the last 15 seconds, it will wait 15 seconds before transmitting one transmission.

The maximum our device will transmit is one transmission every 15 seconds. Since the transmission is 500 ms long we are allowed to transmit every $500 \text{ ms} * 30 = 15 \text{ seconds}$. The silent period between transmission will never be less than 15 seconds.

Hope this explains more clearly.

Thanks,

Claire Hoque
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-----Original Message-----

From: Mike Kuo
Sent: Monday, March 31, 2003 5:19 PM
To: Claire Hoque
Cc: Anne Liang; Thu Chan
Subject: RE: SMARTIRE SYSTEMS INC. , FCC ID:NATTX433CS-2, AN03T2688

Hi Claire :

Item (3) of reply mentioned the silent period (7 seconds) which is less than 10 seconds or 30 times of duration of transmission. Based upon this description, this device does not meet 15.231(e) requirements. Please address this issue.

Best Regards

Mike Kuo

-----Original Message-----

From: Claire Hoque

Sent: Monday, March 31, 2003 4:11 PM

To: Mike Kuo

Cc: Anne Liang; Thu Chan

Subject: Re: SMARTIRE SYSTEMS INC. , FCC ID:NATTX433CS-2, AN03T2688

Hi Mike,

Here are the answers for SMARTIRE SYSTEMS INC.(03U1767)

Question #1: Section 15.231(e) of FCC rules is used for technical assessment. As indicated in section 15.231(e) of FCC rules, the device applied to this section must 1) duration of each transmission shall not be greater than one second, and 2) the silent period between each transmission shall be at least 30 times the duration of the transmission but in no case less than 10 second. The following questions are related to above requirements:

a) page 5 of user manual with the following description:" The system operates continuously, transmitting air pressure and temperature data, At approximately 5 minute intervals when the vehicle is moving faster than 6 mph, unless pressure changes, then data is transmitted within 7 seconds." Since the duration of transmitter for total of 10 packets is .5second, $30 \times 0.5 \text{second} = 15 \text{second}$. 7 second silent period is less than the 30 times of duration of transmission and also less than 10 seconds. Please address this non-compliance issue.

ANSWER from client:

The transmitter transmits as follows:

- (1) Transmission occurs once every 4 to 6 mintues in rolling mode
- (2) One transmission consists of 10 packets (2 packets every 100 ms) for 0.5 seconds.
- (3) During a pressure drop the transmitter transmits one packet within 7 seconds unless a previous transmission ocured . If a previous transmission ocured it will transmit in 15 seconds. The 3 more packets , one packet every 15 seconds.

The device does meet the requirements of FCC. However, I think the manual may be a little misleading as to the wording.

Would the manual still need to be updated to reflect the above? Or can we just get by with the explanation I gave.

Let me know as it will take a little time to update the manual

Question #2: What is the instrument setting used for fundamental field strength measurement?

ANSWER;

RBW=100KHz VBW=100KHz

Question #3: Page 17 of test report can not be read.

ANSWER: Pls see the revised test report as attached.

Thanks,

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