

Q: Please describe how the transmitter meets the 5sec transmission limit.

From: Pederson, Glenn [mailto:GPederson@magnetek.com]
Sent: Friday, April 28, 2006 2:08 PM
To: Teresa White
Cc: Jim Blaha; Beilfuss, Daniel; Jahn, Ron
Subject: RE: Part 15.231

Teresa,

In regards to the TCB request, below, our longest duration command is the OFF command. When the OFF pushbutton is depressed and released, the OFF command is sent 40 times, before the transmitter is deactivated and power is turned off. The OFF command is 100msec in duration, so this means that the transmitter will be deactivated within 4 seconds (100msec x 40) of depressing the OFF button.

Any other commands, such as HOIST, TROLLEY or BRIDGE, when released, will deactivate the transmitter within 1second (100msec x 10).

Glenn Pederson

Q: The response mentions a 100msec duration for the OFF signal. Is this the signal seen on Pg 17 of the report (first plot) or is it different from that? Please clarify with your client.

Hi Yunus,

Here is Ken's response to your issue:

After conferring with Glenn Pederson at Magnetek, we have confirmed that ALL commands from the 430SLTX transmitter are comprised of groupings of 8 millisecond pulses, which are spaced randomly over varying durations. The plot given on page 17 of the report (305515) which shows a total of four pulses in a 100 millisecond window was the highest density of pulses that could be inspected over a continuous period, where all the commands were repeatedly transmitted. This comprises the worst case, and is not necessarily the 'off' command. The April 28 email refers to the off command as being of 100 milliseconds in duration, and this is, as related by Magnetek, the duration of the 'window' within which there will be at least one, but no more than 4, of the 8 millisecond pulses. The page 17 plot therefore, illustrates the worst case on-time for the transmitter.

Ken Boston PE
L S Compliance.