From: Barbara Levy

To: Leann Nguyen Date: September 24, 2015

Subject: FCC file 0465-EX-PL-2015

Message:

Below are Ball Aerospace responses for section 8.3.28 a, and e-i:

- a. The repeaters at Ball Aerospace are only used indoors.
- e. Ball facilities are under Ball control.
- f. Our procedures direct the power going into the GPS repeater antenna to be less than -120 dBm. Loss = 32.45+20Log(d)+20Log(f). In our case, d=100ft=0.03km, and f = 1575.42 MHz, so loss at 100ft = 109 dB, and the power at 100ft is -229 dBm.

- g. We are not aware of any GPS users in the area.
- h. We use the repeater only for testing our satellites and instruments that need a GPS input to operate.
- i. Rob Osborne can serve as the 'Stop Buzzer' point of contact.