From: Gustavo Ruiz

To: Behnam Ghaffari
Date: January 03, 2018

Subject: FCC File No. 0888-EX-CN-2017

Message:

a. The GPS Re-radiator will be for indoor use only. The GPS re-radiator will reside within a commercial office building.

b. All of our product deliveries include a GPS receiver and require current GPS data while testing is in progress. The GPS re-radiator will allow multiple users within the Kratos facility to access GPS signals to test hardware and software.

c. The setup is similar to what is used at Kratos (Composite Engineering Inc) Sacramento facility.
The Sacramento facility call sign is WE2XUS, and file number 0282-EX-CR-2017.

d. Kratos is requesting a 2 years license with a possible extension after two years

e. The GPS re-radiator is controlled by the Kratos Communications group that resides in Roseville and Sacramento. The primary point of contact resides at the Roseville facility.

f. Link budget
P_Tmax=P_R+20?log?_10 f+20?log?_10 (30+d)-27.55
P_Tmax=P_R+20?log?_10 1575.42+20?log?_10 (30+15.24 meters)-27.55
P_Tmax=40 pW= -44 dBm
-44 dBm=P_R+20?log?_10 1575.42+20?log?_10 (30+15.24 meters)-27.55
=>P_R= -114 dBm
The GPS Low Noise Amplifier has a potentiometer where the gain can be adjusted

g. A sign will be posted on the door to the lab where the GPS Re-radiator resides stating the following, “GPS re-radiator is in use and the GPS information you receive may be in error.”

h. The GPS Re-radiator shall only be used for the test of GPS receivers used on our company’s end products.

i. The stop buzzers shall be the following: Gus Ruiz, 916-915-2353 (cell), 916-504-5547 (office); Phil Manno, 916-468-8062 (cell), 916-751-2876 (office)