- 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 OK City. The primary point of contact resides at the OK City 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 companys end products.
- i. The stop buzzers shall be the following: Harold Prosser, (405) 248-9541 or (916) 589-7210