

From: William Mueller

To: Leann Nguyen

Date: July 23, 2018

Subject: Request for Info - File # 0566-EX-CN-2018

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Message:

The Experimental License is requested for the purpose of testing GPS receivers on aircraft within a Boeing Hangar. The re-radiation of the GPS signal will allow for aircraft instruments to receive GPS data. The equipment will be used indoors only.

Link Budget:

#### GPSS Link Budget L1

Received power	-128.43 dBm
gain of received antenna	3.19 dB
RF losses from antenna to Amplifier	0
LNA Gain on Active antenna	30 dB
Gain of adjustable Amplifier	19 dB
Cable Loss from the amplifier to the antenna	-3 dB
Gain of transmit antenna	3.194 dB
Signal	-76.046
Path loss to 30 Meters	65.938 dB
RF Power Level at 100 ft distance	- 141.984 dBm

#### GPSS Link Budget L2

Received power	-128.43 dBm
gain of received antenna	3.19 dB
RF losses from antenna to Amplifier	0
LNA Gain on Active antenna	30 dB
Gain of adjustable Amplifier	17 dB
Cable Loss from the amplifier to the antenna	-3 dB
Gain of transmit antenna	3.194 dB
Signal before Path Loss	-78.046 dBm
Path loss to 30 Meters	63.77 dB
RF Power Level at 100 ft distance	-141.816 dBm