

From: Tyler Armbruster

To: Doug Young

Date: January 14, 2014

Subject: Request for Info - File #0727-EX-PL-2013

---

Message:

Sorry for the confusion. What we need this license for is two things: 1. to demonstrate signals that we are currently creating to our potential customers in our lab. This may not always be the same signal, so we may not have a post experimental stage. 2. As for the balloon part, we will wait to work that out until we get this first part sorted out.

Detailed description of the experiment:

AS mentioned above, the experiment is to effectively demonstrate signals that we are working on to potential customers. Most of these signals would interfere with real world applications if we broad casted them at the frequency they were meant for. Therefore, we are trying to pick 1 frequency that we can use for all the demonstrations, and use hardware to change the frequency to the correct frequency for that demonstration on the receiver side. The signal that we currently have in ind would require at least 5MHz of bandwidth. Therefore, we could go in the center of the 2025-2110MHz band (2067MHz) and not interfere with anyone else at this point, according to the FCC spectrum dashboard for El Paso county. I have picked the frequencies that I have so far as we would like to have a frequency that is used by as few others as possible so when we do need to coordinate with others, it is easier. As for the power of 96 W, we can go lower, that is just the max that our equipment can go. We have attenuators available, but we do need the signal to go through multiple walls (about 60 yards of offices).

With that said, I am not asking the FCC to pick a frequency, though any recommendations would be greatly appreciated.

Thanks

Tyler Armbruster