

From: Bob Hopkins

To: Hung Le

Date: October 07, 2020

Subject: Request for Info - File # 0704-EX-CN-2020

Message:

Dear Le Hung:

Below is our response to your two (2) questions regarding our Experimental License Application File Number 0704-EX-CN-2020.

Please let us know if you have any additional questions.

Regards:

Bob Hopkins
Lextrum, Inc.

Lextrum is pleased to provide the following responses to the referenced questions:

1. Explanation of how it would coordinate any usage with a Spectrum Access System (SAS).
Lextrum will coordinate frequency assignments through the CommScope/Comsearch SAS.
We have pre-arranged the process with Andrew Beck (andrew.beck@commscope.com) at CommScope.
Lextrum will notify Commscope prior to the installation and power-up power-of our test nodes.
CommScope will follow standard SAS coordination procedures and will notify other SAS operators of our experimental operation.
2. Explanation of how it would specifically avoid causing interference to incumbent and commercial operations in the band, including General Authorized Access (GAA).
To avoid causing harmful interference with incumbent and commercial operators:
 - a. Lextrum will perform an initial CBRS spectrum sweep from our building roof-top located at 5120 South Julian Drive, Tucson, AZ 85706
 - b. Based on our sweep results, Lextrum will select an initial CBRS operating frequency and submit it to CommScope for SAS coordination
 - c. Lextrum will include with its SAS coordination request:
 - • Area of operation information, including, lat/lon location of each antenna, height, azimuth, gain, and up/down tilt for our base station and UE transmit antennas
 - • The bandwidth, maximum TX output power, and emission of our test radios
 - • Expected test hours and days of the week we will conduct over-the-air (OTA) testing
 - • Lextrum 24*7 contact information of a support engineer who is pre-authorized to shut down our test nodes if requested
 - d. If CommScope determines that our initial selected operational frequency may potentially cause interference, they will recommend an initial operational frequency based on incumbent and commercial CBRS operations at the time of our coordination request
 - e. Lextrum will conduct its experimental testing on the assigned CBRS frequency and comply with all other operational characteristics specified in our experimental license application
 - f. Throughout our testing program, Lextrum will conduct periodic CBRS spectrum sweeps of our operational area and submit for SAS experimental re-coordination as necessary
 - g. Lextrum acknowledges that if any interference occurs, we will immediately shut down our test system
 - h. CommScope will notify all incumbent CBRS operators in our operational area, including:
 - • Grandfathered Fixed Satellite Service earth station operators in the 3600 to 3700 MHz portion of the band
 - • Grandfathered Wireless Broadband Service operators in the 3650 to 3700 MHz portion of the band

Lextrum's test radios can tune to any CBRS band 48 frequency, with selectable bandwidths of 5, 10 or 20 MHz. We will operate at a maximum Tx output power of 26 dBm/0.4 watts or less. Lextrum believes that by following the above process, we will select an operating frequency that is not being used by a Tier 1, 2, or 3 CBRS incumbent or commercial operator, and that we can safely and securely operate our experimental system without any harmful interference.