

October 3, 2023

Federal Communications Commission  
Office of Engineering and Technology  
1270 Fairfield Rd.  
Gettysburg, PA 17325-7245

Request for OET Experimental License

Dear Sir:

On April 24, 2020, the FCC released a Report and Order and Future Notice of Proposed Rulemaking to expand unlicensed broadband operations into the 6GHz band, as a benefit to the public (FCC Record: FCC-20-51A1). Pursuant to said order, Horizon Satellite, LLC ("Horizon") hereby requests an Experimental License in order to test available equipment within the U-NII-5 and U-NII-7 bands.

The experimental operations would involve field deployment and testing of Cambium Networks' 6GHz radio technology on one tower throughout rural sites in the state of Alaska. The radio's throughput capabilities would be tested in the U-NII-5 band and U-NII-7 bands using 80MHz-wide channels, across approximately four access points. The antenna gain of the Sector Antenna is 18dBi.

Participants in the study will not be charged and equipment will be retrieved at the close of the study.

The experimental operations will include 50 Units of Customer Premise Equipment (CPE), which will be used as fixed client devices and installed on fixed structures located at existing customer locations. The antenna model for the CPE model is Force 4625. The antenna gain is 25 dBi.

Horizon's data collection program will operate without causing harmful interference to incumbent users. Horizon will work with any nearby licensed incumbent user that it identifies, based on data provided in the FCC's databases, to ensure that its operations will avoid harmful impact with such existing users.

If the Commission has any questions, please feel free to contact me at 312-841-9188.

Best Regards,

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