

January 15, 2024

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, X-Tech hereby requests an Experimental License in order to test available equipment within the U-NII-5 band.

The experimental operations would involve field deployment and testing of Mimosa Networks' 6GHz radio technology on one tower in the state of Minnesota. The radio's throughput capabilities would be tested in the U-NII-5 band using 80MHz-wide channels, across approximately 8 access points and 35 subscriber modules. The antenna gain of the subscriber Antenna is 17dBi.

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

The model of each sector antenna, for the access points are as follows :

- 270* azimuth – sector antenna is KPP-5DP90S-45 with 17dBi gain
- 0.42* azimuth - sector antenna is KPP-5DP90S-45 with 17dBi gain
- 181* azimuth - sector antenna is KPP-5DP90S-45 with 17dBi gain
- 238* azimuth – sector antenna is HG3-TP-S30 with 18.4dBi gain
- 208* azimuth – sector antenna is AH90-CC with 16.0dBi gain
- 305* azimuth – sector antenna is N5-X25 with 25dBi gain
- 58* azimuth - sector antenna is UltraDish TP 24 with 24.4dBi gain
- 125* azimuth – sector antenna is UltraDish TP 24 with 24.4dBi gain

X-Tech's data collection program will operate without causing harmful interference to incumbent users. X-Tech 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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