## **Description of Experimental Program**

In last year's 6 GHz Report & Order, the Commission designated additional spectrum for unlicensed operations, envisioning its use for "new innovative technologies and services that will advance the Commission's goal of making broadband connectivity available to all Americans, especially those in rural and underserved areas." Unlicensed Use of the 6 GHz Band, 35 FCC Rcd 3852, 3853 (2020). Through this application for an experimental license, 281 Communications Corporation Inc seeks to advance these goals by testing available equipment across the UNII-5 band for potential delivery of enhanced fixed wireless broadband services.

The experimental operations will involve field deployment and testing of Mimosa Network's 6 GHz radio technology on 7 towers at rural sites in Marble Falls, Texas. These operations will evaluate the greater throughput capabilities available in these bands using 80 MHz channels. The program will also use up to 200 remote units at customer locations.

281 Communications Corporation Inc data collection program will operate without causing harmful interference to incumbent users. 281 Communications Corporation Inc will work with any nearby licensed incumbents that it identifies, based on information provided in the FCC's databases, to ensure that its operations will avoid any harmful impact on such existing users. **Deployment Parameters** 

The current stage of the experimental trial proposes operation from two sites. Each location will deploy directional antennas which will transmit on the 5850 – 6400 MHz band. Specific parameters of proposed operation are detailed in the chart below:





Additionally, the trial will deploy up to 200 end users located with a 5-mile radius of the fixed locations, with maximum power of 250MW/4.0 W ERP.