SkyNet 360, LLC
Form 442
May 2022

Description of Experimental Program

In its 2020 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, SkyNet 360, LLC ("SkyNet") 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 Cambium Network's 6 GHz radio technology numerous point-to-point links in the Florida City - Homestead, FL area. These operations will evaluate the greater throughput capabilities available in these bands using 80 MHz channels.

SkyNet's data collection program will operate without causing harmful interference to incumbent users. SkyNet 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

This the experimental trial proposes point to point operation from numerous sites in and around the Miami. Florida metropolitan area. The facilities will deploy directional antennas which will transmit on the 5925 – 6135 MHz and 5925 – 6070 MHz bands. Specific parameters of proposed operation are detailed in the chart below:

From Homestead 1	
Coordinates	25° 28' 27"N, 80° 28' 16"W
Beam Width in Horizontal Plane	11 ° at half power
Orientation in Horizontal Plane	62°, 196°, 213° 213° and 218°
Beam Tilt	16 ° down tilt

From Florida City 2	
Coordinates	25° 26' 46"N, 80° 32' 06"W
Beam Width in Horizontal Plane	11 ° at half power
Orientation in Horizontal Plane	242°
Beam Tilt	16 ° down tilt

From MPOP 10 3	
Coordinates	25° 26' 51"N, 80° 29' 41.26"W
Beam Width in Horizontal Plane	11 ° at half power
Orientation in Horizontal Plane	38°
Beam Tilt	16 ° down tilt

From MPOP 11 4	
Coordinates	25° 26' 26.2"N, 80° 29' 44.87"W
Beam Width in Horizontal Plane	11 ° at half power
Orientation in Horizontal Plane	33°
Beam Tilt	16 ° down tilt

From MPOP 12 5	
Coordinates	25° 26' 26.78"N, 80° 28' 55.4"W
Beam Width in Horizontal Plane	11 ° at half power
Orientation in Horizontal Plane	16°
Beam Tilt	16 ° down tilt

From MPOP 9	
Coordinates	25° 30' 34.17"N, 80° 26' 8.38"W
Beam Width in Horizontal Plane	11 ° at half power
Orientation in Horizontal Plane	215°
Beam Tilt	16 ° down tilt

From CBANK 7	
Coordinates	25° 29' 56.46"N, 80° 26' 37.75"W
Beam Width in Horizontal Plane	11 ° at half power
Orientation in Horizontal Plane	35°
Beam Tilt	16 ° down tilt

From Channel 6 8	
Coordinates	25° 32' 23.9"N, 80° 28' 06.4"W
Beam Width in Horizontal Plane	7 ° at half power
Orientation in Horizontal Plane	85°, 135°, 228°,277 °, 328° and 349°
Beam Tilt	16 ° vertical and 0 ° down tilt

From MPOP 17 9	
Coordinates	25° 33' 02.9"N, 80° 20' 19.6"W
Beam Width in Horizontal Plane	7 ° at half power
Orientation in Horizontal Plane	265°
Beam Tilt	16 ° vertical and 0 ° down tilt

From MPOP 9	
Coordinates	25° 30' 34"N, 80° 26' 08"W
Beam Width in Horizontal Plane	7 ° at half power
Orientation in Horizontal Plane	316°
Beam Tilt	16 ° vertical and 0 ° down tilt

From MPOP 16 11	
Coordinates	25° 29' 38.9"N, 80° 31' 30.06"W
Beam Width in Horizontal Plane	7 ° at half power
Orientation in Horizontal Plane	48°
Beam Tilt	16 ° vertical and 0 ° down tilt

From MPOP 7 12	
Coordinates	25° 32' 48"N, 80° 31' 53"W
Beam Width in Horizontal Plane	7 ° at half power
Orientation in Horizontal Plane	97°
Beam Tilt	16 ° vertical and 0 ° down tilt

From MPOP 4 13	
Coordinates	25° 37' 37"N, 80° 31' 41"W
Beam Width in Horizontal Plane	7 ° at half power
Orientation in Horizontal Plane	148°
Beam Tilt	16 ° vertical and 0 ° down tilt

From MPOP 1 14	
Coordinates	25° 40' 01.7"N, 80° 29' 41"W
Beam Width in Horizontal Plane	7 ° at half power
Orientation in Horizontal Plane	169°
Beam Tilt	16 ° vertical and 0 ° down tilt