

Narrative Statement

Description of Proposed Experimental Operation

Exhibit 1The Blue Zone Utah
Draper, UT

The Blue Zone Utah (TBZ UT) is a Wireless Internet Service Provider (WISP) that provides affordable, fixed-wireless broadband internet access to residential and commercial clients along the Wasatch Front in Utah. TBZ UT desires to develop and deploy systems for the delivery of efficient, affordable high-speed internet access to homes and businesses utilizing radio spectrum in the 3650 – 3700 MHz band. To support this advanced system development, TBZ UT is requesting an authorization to conduct system performance trials in the SLC, UT area. The purpose of these trials is to determine the relationship between theoretical performance predictions and actual system performance of new technology for high speed Non-Line Of Sight (NLOS) wireless broadband service under signal propagation conditions typical in the areas along the Wasatch Front in Utah.

The objective of the system trials proposed herein is to determine the feasibility and optimum equipment configuration requirements for utilization of the 3650- 3700 MHz band to deploy high speed NLOS wireless data services to indoor and outdoor installations in SLC, Utah using Time Division Duplex (TDD) technology. The results of these tests will be used to establish the minimum system parameters and hardware required to provide reliable, affordable high speed wireless data services to our customers.

TBZ UT proposes to utilize 7 MHz-wide channels in 3.5 & 7 MHz steps utilizing QAM 64 with an EIRP not to exceed 40 dBm (10 watts). All transmission devices will be fixed and located within a 20 km radius of the primary base station. The primary base station and remote equipment used during these trials will be the AN-100 manufactured by Redline Communications. The planned equipment has an excellent compliance record from its deployment in the licensed 3.5 GHz bands utilized outside the United States.

All equipment utilized by TBZ UT during these trials will be professionally installed and will operate in compliance with Part 90 and within the parameter levels in the Report and Order, ET Docket No. 04-151. Information provided by the manufacturer for the antennas and transmission equipment is attached for reference as Exhibit 2 and Exhibit 3.

Should interference from these experimental operations occur to existing authorized facilities, the tests will be suspended immediately pending resolution of the interference.

An important aspect for TBZ UT to determine during these trials is the coverage capabilities of this band for fixed wireless communications systems to both indoor and outdoor installations, as this band is currently being used for this type of service in Europe. TBZ UT is planning deployment in Europe as part of its overall business model to expand services to emerging markets.

Parameters to be determined by the system tests will include the following:

- Maximum coverage area from a single hub site
- Signal reliability over time
- Signal penetration losses through foliage and other obstructions
- Changes in signal propagation due to weather conditions
- System durability based on the number of users simultaneously accessing the network

Up to 20 test sites may be utilized at various distances from the hub site. Locations currently utilizing TBZ UT's service on other spectrum will be employed for test transmissions. By using TBZ UT's extensive customer base for these tests, the impact of an actual full system deployment can be experienced for this spectrum. Once service is verified at a test site, the trial of service availability at that site continues on a 24 hour basis for at least 120 hours. Among other collection procedures, reports from volunteer users at each site will be utilized to determine overall system performance and reliability.

TBZ UT has extensive experience providing wireless high speed two-way data services to customers in other frequency bands in a variety of markets. TBZ UT has been in operation for over 4 years and currently provides service to over 4,000 subscribers in rural and suburban areas along the Wasatch Front. TBZ UT has learned how the local geography, topology, terrain, weather conditions, and frequency of operation affect propagation and interference characteristics of these systems. Along with the technical specifications of its existing operations, TBZ UT also has learned the business and communications demands of its customers within its service areas. From this technical and market experience, TBZ UT is uniquely qualified to model operation in the 3650 – 3700 MHz spectrum to determine its ability to match the reliability and quality of service expected by residential and commercial customers.