

Description of Proposed Experimental Operation

Cascade Networks, Inc. (CNI) is a Wireless Internet Service Provider (WISP) that provides affordable, fixed-wireless broadband internet access to residential and commercial clients.

CNI 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 CNI is requesting an authorization to conduct system performance trials. 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 typically found in many areas around the United States.

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.

CNI has extensive experience providing wireless high speed two-way data services to customers in other frequency bands in a variety of markets. CNI has been in operation for over 8 years and currently provides service to over 3,000 subscribers in rural and suburban areas.