

Narrative Statement

Description of Proposed Experimental Operation

AirInfinite, Inc., (“AirInfinite”) a leading provider of fixed wireless services for metro Atlanta 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, AirInfinite is requesting an authorization to conduct system performance trials in the Atlanta, GA area 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 Atlanta, GA area.

AirInfinite proposes to utilize 6 MHz-wide channels utilizing Quadrature Amplitude Modulation with an EIRP not to exceed 37.5 dBm (5.6 watts). All transmission devices will be fixed and located within a 16 km radius area. Primary base station and remote equipment for these trials will be the PacketWave® system developed by Aperto Networks and configured by the manufacturer for transmissions in the 3650 MHz band. All base stations and remote devices utilized by AirInfinite for these tests will be professionally installed and will operate in compliance with Part 15 and within the parameters and power levels considered in the Notice of Proposed Rule Making, ET Docket No. 04-151.

To assure protection of existing FSS earth stations and Federal Government operations in this band, a search of the IBFS database was conducted to identify facilities in the 3650 - 3700 MHz band located within 180 km of the proposed service area. This separation distance is the maximum radius of the FSS Protection Zone as considered in the NPRM (NPRM at 45 - 47). The nearest facilities were found to be well outside the protection zones proposed in the NPRM. Due to the distance separation of the proposed operations to the existing facilities in the database, no interference to FSS earth stations and Federal Government operations is expected to occur. Should interference from these experimental operations occur to existing authorized facilities, the tests will be suspended pending resolution of the interference.

AirInfinite already holds significant experience providing wireless high speed two-way data services to customers in other frequency bands in a variety of markets. AirInfinite has learned how the local geography, land clutter, atmospheric conditions and frequency of operation affect propagation characteristics of these systems. Along with the technical characteristics of its existing operations, AirInfinite also has learned the business and communications demands of its customers within its service areas. From this technical and market experience, AirInfinite 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, business and educational customers.