

DESCRIPTION OF EXPERIMENTATION

Proxim, Inc. ("Proxim") herein requests authorization to operate an experimental prototype on a permanent basis in the manner for which it has previously been authorized to operate the facility on a temporary basis under the Commission's experimental rules. Specifically, Proxim seeks to operate its equipment, which will consist of temporary-fixed base units, at various locations in the States of California and Colorado in order to demonstrate the functionality of the equipment to potential customers and to gain valuable testing information for implementation in its final product. Proxim is seeking experimental authority because the scope and duration of its proposed operations are not permitted under the procedures set forth under the testing authority in Part 15 of the Commission's rules.

Proxim's request for permanent experimental authority is supported by good cause. Proxim has been developing a new wireless-to-ethernet data communications bridge in the 4.9 GHz band, for which it ultimately expects to seek authority to manufacture and distribute its devices under the Commission's equipment certification procedures. Under the Commission's rules established for experimental Special Temporary Authority ("STA"), Proxim sought and was issued authority to begin testing and demonstration of the equipment.¹ Proxim has recently determined that, based on the results of its initial testing, it intends to commit fully to the product and thus requests permanent experimental authority to ensure that it can establish a program to bring the product to fruition.

Because of its operations in the public safety frequency pool, Proxim expects, as it has previously, to demonstrate the performance and capabilities of the system to a number of police, fire, and other public safety entities in the States of California and Colorado who would be interested in integrating the technology into their existing wireless systems. Proxim seeks statewide experimental authority for both jurisdictions because it believes that it will benefit from demonstrating and testing the equipment not only to several potential customers at various locations, but moreover in various landscapes where the collection of information regarding differing terrain will be useful for future implementation in order to enhance performance.

Demonstrations of this nature are a valuable resource for manufacturers who are seeking to develop products that will ultimately result in the more efficient use of the radio spectrum. Furthermore, the testing that Proxim would conduct with its state-wide experimental authority would allow it to receive critical feedback from public safety managers and technology officers, enabling the company to continue to make modifications to its system before marketing the device. To this end, Proxim seeks the feedback of interested parties and technology experts in order to improve the

¹ Call Sign WC9XAN; most recent renewal issued under File No. 0468-EX-ST-2005.

responsiveness of the unit before committing additional resources to final, full-scale commercial production.

Accordingly, Proxim herein requests permanent experimental authority in order to demonstrate the operation of the equipment as described herein. The operation will consist of up to ten (10) base units at various locations in the States of California and Colorado in order to demonstrate Proxim's emerging 4.9 GHz wireless bridge system. In particular, Proxim seeks to test the dynamic integration of the system within existing public safety wireless networks with especial interest to the application of the wireless bridge to emergency vehicles that would be permitted access to a network at different locations in order to tap into critical safety-of-life information.