

Nextlink Wireless, Inc.
Experimental License Application

Include as an exhibit a narrative statement describing in detail the following items:

- a. The complete program of research and experimentation proposed including description of equipment and theory of operation.

The wireless links we seek to deploy will be configured to support a number of critical applications. While in the initial test mode, we will install a base station on a building in an area of a certain city and a remote radio terminal at the other end of the link, perhaps 1-5 miles away. We will research the area to determine that there are no obstructions or other interference-making devices in our path. We will install the test links and run a series of tests or experiments to determine link quality from that location as well as from other locations in our requested area. This experimentation will last for several weeks and months, will be done using standard test gear and processes and will be documented so the results can be published and tracked.

The theory of operation is that a base station radio unit will be installed at Point A and aimed in the direction of the remote terminals (video camera locations for instance). Remote radio terminals will be installed where the application devices are (cameras for instance). The units will have power and grounding and will be installed per the manufacture specs. The theory of operation is that given certain conditions (which we desire to test) we plan to attain 10mbps to 30mbps throughput as well as extremely low latency and very little noise resulting in a very secure high quality link from point A to Point B.

- b. The specific objectives sought to be accomplished.

Our goal is to test the XXGHz spectrum radio systems in a rugged metro environment so we can determine how the units perform related to distance, throughput, latency, packet loss, jitter and stability. Distances and quality of link are all matters of great concern so we can provide a quality product/signal for the customer's critical application. Our objective is to deploy our test procedures and monitor and track/ document the results of the signal link. This needs to be done over an extended period including periods of heavy precipitation as well as ideally both heat and cold.

- c. How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion or utilization of the radio art, or is along line not already investigated.

This testing and experimentation will help us understand the nature of the radio's performance under certain adverse conditions and distance conditions. Once we have

fully tested a suite of radios, links and test parameters, we will then consult with the radio manufacture to make recommendations based on our findings. Since the radios have been in working test mode for some time, we believe that this final field testing on our part will result in small but critical changes to the radio systems design and software to improve it for use here in the US, where this type of service is very much in demand.