



June 1, 2002

NMCNEIL@FCC.GOV

Mr. N. McNeil,

It was a pleasure speaking with you on the phone. As per our conversation here's the proposal/request we discussed for experimental licensing for 2.4Ghz 802.11b.

What we are looking to provide is a Wireless Internet System for use in rural American communities which are deprived and depressed from a technological standpoint, and an industrial standpoint economically - due to the lack of broadband internet availability.

We are beginning to work closely with the North Carolina Rural Internet Initiative which is a body addressing these very concerns. More information is available at <http://www.e-nc.org/>.

Our proposed system is simple. It uses a base station router(s) and multiple array's designed to bring out a "no noise" induced broadcast on a specific frequency (1-11) for point to multi-point in an area of coverage typically seen as cellular in nature, from tower cell to client @ 4-5 miles from initial site. The biggest problem with achieving our goal is that with the current point to multi-point restrictions we would have to install at every home and business in the rural target community's - a tower of equal height in order to obtain a signal that is navigable on the Internet. Customer's site's would require the full installation of all equipment and would produce rather unsightly installs. Not to mention the environmental impact and multiple hazard's.

We are seeking to obtain an experimental license and exception to the point to multi-point rules of the 2.4 ghz spectrum for use in rural communities. The exception we are seeking would be to allow for the use of the same ruling of the point to point (64 WEIRP) in our special systems designed for point to multi-point.

Whereas:

A system designed for us in the rural American projects has the following specifications:

15db Omni or Panel Antenna powered by a max cap of 1Watt with a receive amplifier of 15db Gain, basically $1\text{Watt}=30\text{db}$ Antenna=15db EIRP @45, $30-6=24$ $15-6=11$ $/3 = 3.67$ MAX 39db effect on system.

If we are allowed to produce tightly filtered (low/high pass) cavity filters at the maximum of 48EIRP for point to multi-point, it would be sufficient to do the job without impact to the environment, adjacent frequencies, or induced noise sufficient to cause harmful interference to any others in the spectrum.

The antenna array's we have designed use a down tilt of 12-18° from the site in order to deter long distances over the estimated 4 to 5 miles of coverage area desired, and provide highly effective coverage for clients in their rural homes or businesses.

These systems have the ability to be reproduced and deployed in communities far faster than DSL, or CaTV can dig trenches in the ground, and have little or no environmental impact, as they can be co-located on existing tower sites around the rural communities. Our endeavors are to set a standard which other ISP's can follow and perhaps

bring in a far accelerated manner - broadband Internet to communities that are in great need of this access NOW!

The proposed experimental systems to be tested will be providing to a group of beta testers in a rural community under a no charge basis during the test stage as we seek to prove out any interference issues in these rural communities and attempt to set a standard in which we can use the data and petition for special purpose use in the desired frequency ranges using equipment currently manufactured under different rulings. Your commission has identified in many forums that certain groups of consumers and citizens are very vulnerable to not receiving service in a timely fashion, this project may be able to pave the way for rural American community's not serviced now nor in the near and evident future due to Large Corporate decisions to stay out of smaller markets the ability to have service and to have the ability to compete in economic and educational means. We have been told in the past by your commission that if the consideration is the depressed rural community's and this project has a benefit towards those community's that the commission may be able to process some special spectrum available for these type of projects or modify rulings to allow such a process in the rural community's.

If I can answer any additional questions you may have or you desire any additional information please do not hesitate to call me at (336) 629-4247. I appreciate your taking the time to consider what was touched upon in our earlier conversation. I look forward to hearing your response.

Sincerely,

John Savage III
Chairman/CEO
GetOnTheAir, Inc.

2027 Mack Rd.
Asheboro, NC 27205
(336) 629-4247