

Statement of Proposed Operation

xG Technology, LLC (xG Technology) is seeking an Experimental Service authorization for testing and development of its xMax technology. xMax is the company's innovative modulation and encoding technology that dramatically improves transmission of radio frequency signals in both wired and wireless environments. The result is the ability to transmit high speed data over greater distances using ultra low RF power output levels.

Unlike other wireless technologies that move as much power as possible from the carrier into the information bearing sidebands, xMax does just the opposite, placing more than 99 percent of its power within a narrowband carrier while keeping the sideband energy at micro-power levels. Typically -60 dB to -100 dB below the carrier, xMax's information-bearing sideband, dubbed xG Flash Signal™, can be as much as 100,000 times below the FCC's Part 15 permissible power levels. xMax only requires a narrow segment of unoccupied spectrum in order to place its carrier signal, while its proprietary xG Flash Signal is sent at such unusually low power levels that it can operate far below the point of impacting other systems, allowing it, in effect, to share spectrum with existing users. Further technical information concerning xMax, including spectrum analyzer plots, may be found in the company's web site at www.xgtechnology.com.

xG Technology has been demonstrating its technology to potential investors under an Experimental Special Temporary Authority, call sign WC9XDU. In November, the company held its first public demonstration of the xMax technology for media and investors in Ft. Lauderdale. In that demonstration, an xMax equipped transmitter broadcast a 3.67 Mbps signal more than 18 miles using only 35 milliwatts of RF output power. The equipment used in that demonstration underwent testing by an FCC authorized laboratory. The equipment was found to be compliant with FCC regulations Part 15.249 conducted test requirements. These results showed the xMax signal to meet both conducted power and conducted bandwidth requirements for operation within the ISM 900 MHz unlicensed band. An xMax unit also was used to transmit full motion video a distance of 100 feet using only 300 nanowatts of transmitted power.

The company now seeks a 2-year Experimental Service license for further testing and experimentation leading toward the development of the equipment and future licensing.