

Statement of Proposed Operation

xG Technology, LLC (xG Technology) is seeking an experimental license for development, testing and demonstration of a new RF-based modulation and encoding technique, which applicant has designated as xG™, that enables transport of high bit-rate data in narrow channels. The technology has an unusual ability to operate with low signal strengths and high noise levels and yet recover data with much better accuracy than traditional methods and the ability to pack much more useable data into the allocated channel. In various tests, xG™ has been able to deliver more than 20 times the data rate of other modern modulation systems. Thus, it has the potential to greatly expand the use of existing radio frequencies.

This technology can be used in both narrow and wide radio channels. It is a fully digital system that dramatically expands the capacity of current wired and wireless equipment. For example, an 800 MHz cell phone will be able to transmit far more data using one standard analog channel than the best current digital systems.

xG Technology has now reached a point where on the air testing of the equipment is necessary, and also demonstration of the equipment to interested parties. We seek Commission authorization to conduct tests from low power (5 watt) transmitters for brief periods of time over a 90-day period.