

Narrative

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

This experimental license will be used during the Phase 1 "pilot" project for the New York Citywide Mobile Wireless Network. Northrop Grumman was selected as one of the two finalists for this project and will use IPWireless equipment operating in 10 MHz of contiguous spectrum in the 2.5 GHz band.

b) The specific objectives to be accomplished:

During the Phase 1 "pilot", Northrop Grumman will demonstrate their secure, mobile, broadband wireless network in lower Manhattan. Included will be an extensive testing program featuring applications for NYPD, FDNY, the Office of Emergency Management, and the Department of Transportation (traffic signals). Upon completion of the pilot effort by the Department of Information Technology and Telecommunications (DoITT), one Integrator will be awarded a contract to build, operate, and maintain a secure, high-speed wireless network across all five boroughs of New York City.

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 lines not already investigated.

This "pilot" program will demonstrate the required coverage provided from new 4G technology in an urban environment. This is the first major metropolitan area deploying this type of broadband wireless technology for the applications requested by New York City and if it is successful, this solution will be replicated in other major metropolitan areas of the United States.