

Application for Experimental License

By this application Northrop Grumman Systems Corporation (NGSC) applies for an experimental 2-year license for the purpose of supporting development of protocols for potential Defense Department and related foreign government contracts for secure ship-to-shore communications. Active transmissions over water are necessary to develop and test communications links and techniques.

Tests will be conducted from a laboratory in Annapolis, MD, to communicate with a boat on the Chesapeake Bay located 10 to 20 km distant. Omni-directional antennas will be used to provide wide area coverage without the need to provide tracking and pointing.

The hardware consists of a commercial Harris SeaLancet RT-1944/U transmitter coupled with a commercial antenna. The transmitter maximum power output is 10 watts. The antenna gain of 6 dBi results in a maximum ERP of 24.2 watts.

The transmitter is capable of operating over a wide band of frequencies. We request permission to use the bands 2212–2277 MHz, 2412–2427 MHz, and 2452–2467 MHz. The waveforms under investigation will use BPSK, QPSK, 16 QAM or 64 QAM with an emission designation of 12M0A2D. The radio will select a band separated by 5 MHz channelization,

The Stop Buzzer POC is James Pierce, 410-260-5346.

Questions regarding this application should be directed to: Kevin Nekula, 410-765-6567, kevin.nekula@ngc.com.