

Application for Experimental License

This application for Northrop Grumman Systems Corporation (NGSC) is to enable continued development and testing of a small mobile robotic system pursuant to a contract with the U.S. Navy (information below). Work began under STA 0562-EX-ST-2016, call sign WJ9XUK, and this application is for identical authorization for continued longer-term development.

The robotic system is composed of an Unmanned Ground Vehicle (UGV) and a handheld control (OCU) that will be used in remote locations or in support of forces anticipating an incident involving, for example, an Improvised Explosive Device (IED). The system will be used for initial reconnaissance and threat characterization as well as to transport and place small disrupters or countercharges, or to physically engage a threat item.

Communications between the UGV and OCU will use 20 MHz wide channels in the 1350-1390 MHz range based upon WiFi 802.11 technology shifted in frequency to the requested band. Channel centers will be located between 1360 and 1380 MHz. The antennas to be used are manufactured by Linx Technologies, ANT-1.4-CW-HW-SMA on the OCU (0.7 dBi gain) and ANT-1.4-CW-HWR-SMA on the UGV (2.4 dBi gain).

This work is being performed pursuant to a contract with the U.S. Navy, Contract Number N00174-15-D-0011. Contract USGOV POC is: Jamie Brown, NSWC IHEODTD, 4072 North Jackson Rd Ste 132, Indian Head, MD 20640 (W) 301-744-6623; (FAX) 301-744-6567.