

Application for Modification to Experimental License WG2XSO

Northrop Grumman Systems Corporation (NGSC) files this application to modify experimental license WG2XSO, FCC File No. 0524-EX-RR-2015, to add frequencies 5690-5720 MHz. This request is for the purpose of testing radar transmission techniques to enhance a tactical radar performance, including its ability to detect targets in a hostile threat environment. The radar technologies studied under this license are being developed by Northrop Grumman for sale to the U.S. Government for defense purposes.

Additional technical information: within the 5690-5720 MHz band fixed center frequencies of 5695, 5705 and 5715 MHz will be used for signals of 10 MHz bandwidth and average radiated power of 100 mW ERP. The following three types of emissions will be tested: (1) Unmodulated Pulse, 10M0P0N, pulse duration 1 *usec*, IPP 10 *usec* or 100 kHz PRF; (2) 13 bit Barker Coded Pulse (phase modulated), 10M0Q1N, pulse duration 13 *usec*, IPP 130 *usec* or 7692 Hz PRF; and (3) Linear FM Pulse, 10M0Q3N, pulse duration 10 *usec*, IPP 100 *usec* or 10 kHz PRF.