

Northrop Grumman Systems Corporation

Northrop Grumman Systems Corporation (NGSC) applies for an experimental license, FCC File No. 0638-EX-CN-2020, for the purpose of continuing development and tests of future S-Band shipboard navigation radar. This application is identical to the parameters in Special Temporary Authority (STA) WO9XPY, 2135-EX-ST-2019, that was granted in 2019. The radar hardware is based on a software-defined solid state transceiver and a mechanically rotated active patch-array antenna. This hardware is designed to meet the following standards:

47CFR80.273(a) Radar installations on board ships that are required by the Safety Conventions or the U.S. Coast Guard to be equipped with radar.

ITU-R M.1177-4 (2011)

ITU-R SM.329 -12 (2012)

ITU-R SM.1541-06 (2015)

IMO MSC.192(79) (2005), IEC 62388 Ed.2 (2013).

The radar is capable of sector blanking. For the purposes of this test, the radar will be located at the Northrop Grumman facility near Annapolis, MD, lat/lon 39-0- 21N; 76-24-28W. The desired search sector is due south of the fixed location, with an azimuth limited to 165 to 195 degrees true.