

Application for Experimental License

Northrop Grumman Systems Corporation (NGSC) submits the following information in response to Question 7 on the attached Form 442. This application is for a one-year experimental license to continue the testing conducted under Special Temporary Authority (STA) callsign WP9XNW, FCC File No. 1888-EX-ST-2019.

The tests and demonstrations to be conducted are for the purpose of using signal beam forming with a new radar design. The center of the beam will be fixed on an azimuth of 115 degrees relative to true north, with an elevation of -10 to 0 degrees. The beam width will be varied up to a maximum of 60 degrees, based on the taper/spoiling employed. Antenna gain will vary from 12 to 24 dB, depending upon the beam width. Peak power requested in the application is based on the maximum gain (at the narrowest beam width).