

Northrop Grumman Request for Experimental License

This application for an Experimental License is for temporary use of one 5-megahertz channel in the 2200-2290 MHz band for the purpose of validating an S-band communications system pursuant to a contract with the U.S. Government. We request 2240 MHz in the application because that frequency was approved earlier at the same location for an STA, WR9XHG, FCC File No. 1750-EX-ST-2020. If 2240 MHz is not available, we request a center frequency of 2210, 2220, 2260 or 2280 MHz. This work is being performed pursuant to the U.S. Government contract specified in the application.

Antenna information: The antenna is a dual-pol blade antenna with the below characteristics.

- Vpol: 2.5 dBi gain, 3dB beamwidth of 78 degrees in the vertical direction, 360 degrees in the horizontal direction.
- Hpol: 5.5 dBi gain, 3dB beamwidth of 55 degrees in the vertical direction, 71 degrees in the horizontal direction.
- Power is 80 watts output on each polarization, with ERP of 142 watts on Vpol and 284 watts ERP on Hpol.