

## Northrop Grumman Request for Special Temporary Authority

This application for Special Temporary Authority (STA) 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. Any single channel within the 2200-2290 MHz band would work. This work is being performed pursuant to U.S. Government contract No. FA8750-19-C-0084, government contact John Malowicki, 315-330-3634.

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.