

Additional Antenna and Technical Information

Northrop Grumman Systems Corporation (NGSC) submits the attached Form 442 Application for Experimental License, File No. 0332-EX-PL-2014, for the purpose of testing bi-directional airborne links (air-to-ground and ground-to-air) using equipment with a maximum transmitter output power of 5 watts and channel bandwidth of 5.5 MHz. Operations are required within 371 km of Huntsville, AL and Melbourne, FL with the airborne unit at a maximum height of 45,000 ft. AMSL.

The ground antenna is an Enerdyne EnerLinks autotracking parabolic reflector augmented with an omni dipole providing 24-27 dBi gain within a directional beamwidth of 6-8 degrees with 360 degree azimuth rotation. The aircraft antenna is a Haigh-Farr aircraft button antenna P/N 2216 with 6 dBi gain omnidirectional.