Northrop Grumman Systems Corporation (NGSC) Application for STA

Northrop Grumman Systems Corporation (NGSC) applies for this special temporary authority to test reception employing a commercial signal generator to simulate a satellite communications signal transmitted to an active electronically scanned array (AESA) antenna. The signal will be transmitted from a fixed ground location to the AESA located on a ground-mounted motion table approximately 300 meters away.

The antenna is an ATM standard gain horn, part number 42-441-06. Gain is 15 dB with E-plane beam width of 31.3 degrees and H-plane beam width of 31.5 degrees. Both horizontal and vertical polarization will be used. The output power generated by the signal generator is 3.16 mW (+5 dBm). Accounting for system gain and losses, ERP is 12 mW (+11 dBm).

This work is being performed pursuant to a U.S. Government contract, xxx-16-C-0102. Government point of contact is Spencer Turner, spencer.e.turner2.mil@mail.mil.