Request for Special Temporary Authority (STA)

This application is in support of the test and analysis of applied microelectronics technology and algorithm solutions as part of a risk reduction demonstration of the microelectronics-based system. This work is being done pursuant to US GOV Contract No. HQ0727-16-D-0004. POC is Dave Peterson, DMEA/MEAD 916-999-2992, david.peterson [at] dmea.osd.mil

Airborne operations will be conducted in a geographic area near Harpers Ferry, West Virginia, bounded by

33-33-22 N, 77-10-3 7W 39-41-00 N, 77-57-25 W 39-11-35 N, 78-05-50 W 39-10-34 N, 77-21-30 W



The transmitted RF energy will be emitted from a directional antenna (30 degree beam width) mounted on the flight test aircraft to a base station receiver located at the Northrop Grumman Linthicum MD facility near BWI, on an azimuth of ~ 100 degrees. Flight duration is limited to 3 hours on each of two proposed dates, March 5, 2021 and March 8, 2021. These flights are in coordination with customer supplied and controlled assets. Customer requested flight time on March 8 to be three hours between 12:00 AM and 8:00 AM.

Additional technical information:

Operating Frequency: 7.39–7.61 GHz Emission Designators: 2M00P0N; 50K0P0N; 200MQ3N Pulse Width(s): 0.5 microseconds to 20 microseconds PRF(s): 8 KHz to 15 KHz Antenna: Rozendal and Associates model RPTCNA Active Nose Cone Antenna Type: Horn Antenna Gain (dBi): 15 dBi Main Beam Width: 30 Degree Polarization: Dual, Horizontal and Vertical