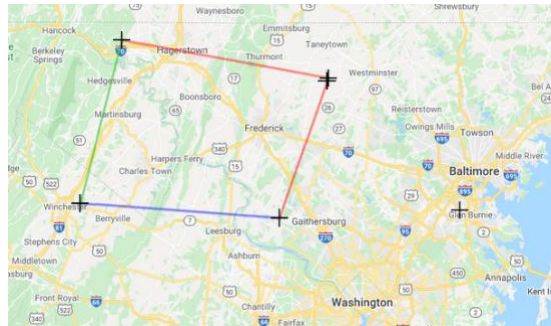


Request for Special Temporary Authority (STA)

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. This request is identical to that granted under callsign WR9XRC, 0234-EX-ST-2021. Additional time is needed to complete work.

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

33-33-22 N, 77-10-37 W
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 any single day.

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 Degrees
Polarization: Dual, Horizontal and Vertical