

## REQUEST FOR SPECIAL TEMPORARY AUTHORITY

Lockheed Martin Corporation (“Lockheed Martin”) hereby requests Special Temporary Authority, effective December 1, 2018, for a period of six months to permit to test and demonstrate a developmental technology in and around the area of Buckeye, AZ.

Through its Advanced Development Programs, Lockheed Martin is conducting research on the effective use of RF Spectrum and installed airborne RF equipment by combining federated systems into integrated systems sharing common front-end RF components. Experiments will focus on integration and testing of Commercial-Off-The-Shelf (COTS) components in a test pod carried externally on a military fighter jet aircraft.

Control and command of the experiments integrated into the test pod will be over a datalink from the test pod to a ground station. The measured performance of the datalink signal in conjunction with the other RF test signals are part of the overall data collection measurement necessary to evaluate the experiment.

The following parameters apply to the instant request:

*Locations:*

- 1) Goodyear (MARICOPA), AZ - Fixed - 33 25' 50"N / 112 21' 55"W
- 2) Buckeye (MARICOPA), AZ - Mobile - Flight altitude up to 18,000 ft in area of operations defined as
  - 33° 48.08 N / 113° 42.83 W
  - 33° 35.44 N / 113° 52.99 W
  - 32° 37.94 N / 111° 12.01 W
  - 32° 20.68 N / 111° 24.99 W

*Frequencies:*

Fixed:	2364 - 2384	/	5M00M1D	/	100 W ERP
			1M00D1N	/	100 W ERP
Mobile:	2364 - 2384	/	5M00M1D	/	100 W ERP
			1M00D1N	/	100 W ERP