

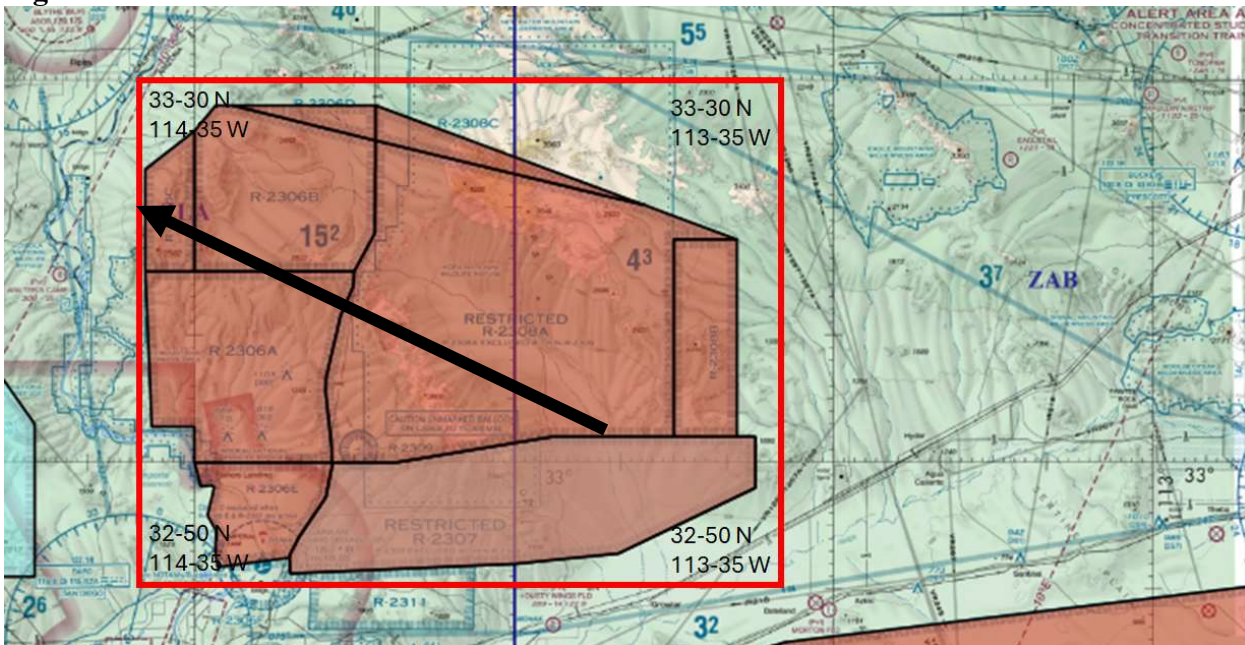
EXH. 1 - REQUEST FOR EXPERIMENTAL LICENSE

Northrop Grumman Systems Corporation ("NGSC") hereby requests an experimental license¹ to enable experimental flight testing and demonstration to a potential government customer of a Developmental, Prototype eight Tile Array (AESA) and one Digital Array Interface Unit (DAIU). The DAIU includes the Reference generator, Processor, Recorder and Digital Antenna Data Manager.

The flight testing will take place in government-controlled airspace (warning areas and MOAs). This is an area bounded as shown in the map illustration of Figure 1 at Yuma Proving Ground, Arizona and includes restricted areas 2306A, 2306B, 2306C, 2306E, 2307, 2308A, 2308B, 2308C and 2311. The test aircraft will remain in US Airspace and will not cross the international border with Mexico.

Operational restricted areas 2306A, 2306B, 2306C, 2306E, 2307, 2308A, 2308B, 2308C and 2311 bounded by:
33-30-00 N; 114-35-00 W
33-30-00 N; 113-35-00 W
32-50-00 N; 114-35-00 W
32-30-00 N; 113-35-00 W

Figure 1



Waveform Information:

Frequency requested: 420-450 MHz

Nomenclature/Name: ABMS Array Assembly

Antenna Type: Tile based, digital AESA, Planar Array

Emission Designators: 10M0P0N, 1M20Q1N, 20M0Q3N

Transmitter Output Peak Power (watts): 18.9 kW, 628 kW Peak ERP

Antenna Gain: 18.05dBi

¹ NGSC had previously obtained STA under Call Sign WA9XNT (File #0026-EX-ST-2026). Owing to program requirements this conventional license is being requested.

Polarization: H & V
Scan Rate: AESA

NGSC acknowledges that all experimental operations conducted in the requested bands will be on a non-interference basis and that it will not conduct Jamming, Spoofing, Electronic Attack, and/or Directed Energy Attack under this experimental authorization.

The **stop buzzer contact** for this project will be Josh Lehnert, 410-370-2047.