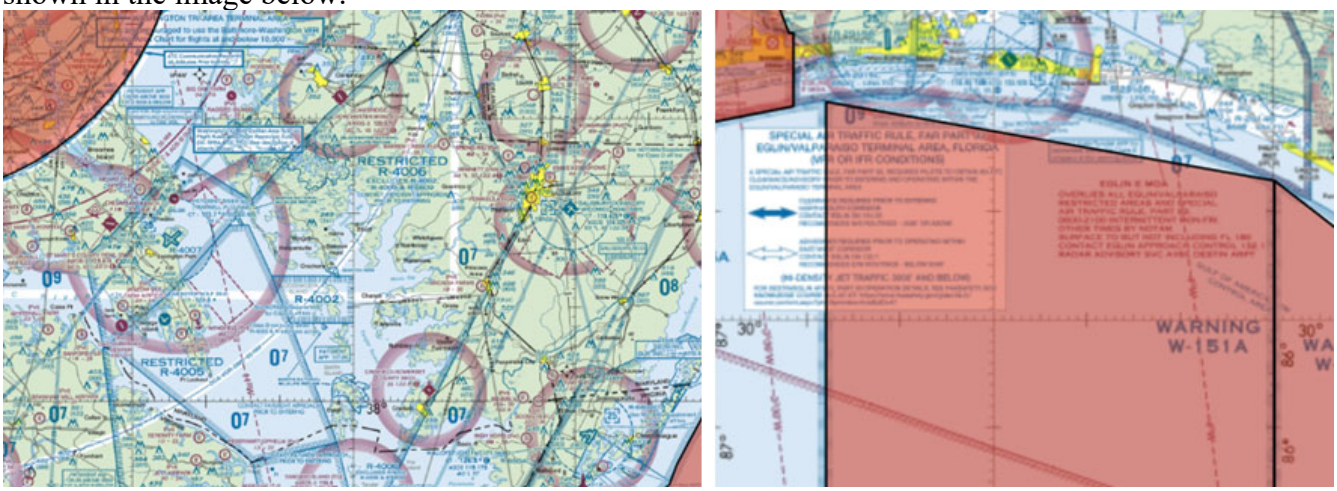
Northrop Grumman Systems Corporation
Experimental STA Request
File No. 1733-EX-ST-2026

EXH. 1 - REQUEST FOR EXPERIMENTAL STA

Northrop Grumman Systems Corporation ("Northrop") hereby requests experimental Special Temporary Authority ("STA") for a six-month period beginning September 27, 2026 to enable airborne testing of a hybrid radio transceiver and Northrop designed antenna in the 92-97 GHz band frequency range to assess experimental radar waveforms and potential communication applications. Airborne testing will be conducted in specific areas at the Patuxent River NAS and Eglin Air Force Base as further described below in **Figure 1**.

Figure 1

Authorization is requested to operate from an airborne platform with a maximum altitude of 30,000 feet MSL at two locations. The first uses the R4005 and R4006 restricted areas at the Patuxent River NAS, Maryland, centered on 38-16-12 N and 75-45-30 W with a radius of 70 km. The second is the W-151A warning area at Eglin Air Force Base, Florida, centered on 30-27-49 N and 86-33-12 W again with a radius of 70 km. These locations are shown in the image below.



Operational area at Patuxent River NAS MD (left) and Eglin AFB (right).

Waveform Information:
Frequency requested: 92-97 GHz
Emission Designators: 600MF1N
Duty Cycle (%): 0.4 to 2 %
Modulation Code / Signal: Frequency Modulation
Transmitter Output Power (watts): 10 W average; 77 Kw ERP average
Antenna Gain: 41dBi
Polarization: RHC

Northrop 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 STA.

The **stop buzzer contact** for this project will be Mike Rabens, 661-524-1431.