

Northrop Grumman Systems Corporation
Experimental STA Request
File No. 1252-EX-ST-2026

EXH. 1 - REQUEST FOR EXPERIMENTAL STA

Northrop Grumman Systems Corporation ("NGSC") hereby requests experimental Special Temporary Authority ("STA") for a six-month period beginning July 20, 2026 to enable testing of a communications subsystem for the Cannon/Gun Based Aerial Defense (CBAD) product. STA is required to provide bi-directional connectivity between Northrop Grumman developed radio communication equipment on the ground and attached to the CBAD product developed by Northrop Grumman.

Experimental testing will utilize an Epiq Design Solution X40 ES054-112-01 transmitter coupled with the following antennas: A-Info Horn Antenna LB-CH-90-25-R02-C-SFSP0 & LB-CH-90-25-L02-C-SFSP0; & Northrop Grumman Swift Urchin.

Technical Parameters:

Output Power at transmitter connector expressed in watts:

10W Output Power

25dBi Antenna Gain

ERP = 1928 Watts (32.852 dBW)

(Peak)

Emission Designator: 5M00G1D

Modulating signal: BPSK

The proposed testing will be a ground-based stationary system that proposes to operate at a fixed location within the specified radius on the frequency range of 11-11.5 GHz at the following locations:

-15120 Innovation Dr. San Diego, CA (1km)	32° 59' 27" N 117° 04' 44" W
-Elk River, MN (10km)	45° 23' 30" N 093° 29' 43" W
-Yuma, AZ (10km)	32° 51' 44" N 114° 20' 24" W
-Dahlgren, VA (10km)	38° 19' 37" N 077° 01' 34" W
-White Sands, NM (10km)	33° 47' 01" N 106° 28' 55" W
-Dugway, UT, Dugway Proving Grounds (10km)	40° 13' 45" N 112° 43' 36" W

NGSC acknowledges that all experimental operations conducted in the requested bands will be on a non-interference basis. Although no harmful interference is expected, NGSC is providing the following stop buzzer contacts in the event any interference was to occur:

Stop buzzer contacts

Primary: Claudio Marino, T: (858) 592-3969, E: Claudio.Marino@ngc.com

Secondary: Oscar Guerrero, T: (206) 471-9859, Oscar.Guerrero@ngc.com