Northrop Grumman Systems Corporation
Experimental License Request
File No. 0984-EX-CN-2026

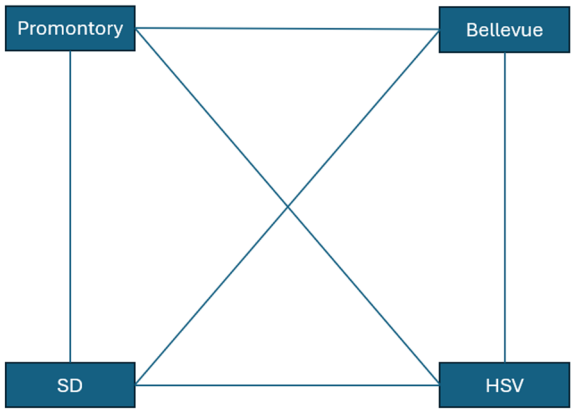
EXH. 1 - REQUEST FOR EXPERIMENTAL LICENSE

Northrop Grumman Systems Corporation ("NGSC") hereby requests a conventional experimental license[1] which will allow it to continue to conduct experimental testing and demonstrations utilizing a COTS mobile HF platform as the transport layer for projects that deal with command and control ("C2") and networking. Experimental testing and demonstrations will utilize COTS HF radios and antennas to establish a stable BLOS link between the requested sites to show the C2 capability, and the HF BLOS link will enable interconnectivity for each site as a data and voice link between geographically spaced C2 sites. Various HF frequencies ranging from 3.3 MHz to 29.97 MHz are being requested.

Three fixed and one mobile test/demo node sites are being requested, located at:

Location	Facility Name	City	County	State	Street Address	Latitude	Longitude
1	Huntsville	Huntsville	Madison	AL	7057 Old Madison Pike, Huntsville, AL 35806	34° 42' 42.0" N	86° 40' 51.0" W
2	San Diego	San Diego	San Diego	CA	9356 Spectrum Center Blvd, San Diego, CA 92123	32° 49' 34.0" N	117° 07' 40.0" W
3	Bellevue	Bellevue	Sarpy	NE	3200 Samson Way, Bellevue, NE 68123	41° 08' 22.0" N	95° 57' 37.0" W
4	Mobile 1[2]	Promontory	Box Elder	UT	Promontory test range, 50KM radius	41° 40' 24.0" N	112° 24' 06.0" W

Any node site would communicate with any other node site; however, no communications will be simultaneous. Only one link will be operational at any given time. A diagram depicting the communication sites is shown in ***Figure 1*** below.



NGSC acknowledges that all experimental operations conducted in the requested bands will be on a non-interference basis and will mitigate any potential interference concerns accordingly.

The **stop buzzer contact** for this experimental authorization will be Ryan Adams, Cell #423-883-3763, email Geoffrey.adams@ngc.com.

[1] NGSC had previously obtained STA under Call Sign WA9XWH (File #0414-EX-ST-2026). Owing to ongoing program requirements this conventional license is being requested.

[2] Although mobile, the RF transmission will be while the ground unit is parked at a given site. Then it will pack up, move sites, unpack, and broadcast again. The Northrop Grumman Promontory range is roughly a 50km radius across. Authorization is requested to broadcast within this area.