

United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
RADIO STATION CONSTRUCTION PERMIT  
AND LICENSE

EXPERIMENTAL  
(Nature of Service)  
  
XT      FX MO  
(Class of Station)

WM2XGL  
(Call Sign)  
  
0908-EX-CR-2025  
(File Number)

NAME Northrop Grumman Systems Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(J) of the Commission's Rules

Station Locations

- (1) MOBILE: max altitude 60,000 feet Mojave, CA, within 185 km, centered around NL 35-03-59; WL 118-09-03
- (2) MOBILE: Redondo Beach, CA, within 5 km, centered around NL 33-53-32; WL 118-22-26
- (3) Cincinnati (HAMILTON), OH - NL 39-18-08; WL 84-28-28; MOBILE: max altitude 60,000 ft AMSL, within 185 km, centered around NL 39-18-08; WL 84-28-28

Frequency Information

MOBILE: max altitude 60,000 feet Mojave, CA, within 185 km, centered around NL 35-03-59; WL 118-09-03

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 80-86 GHz     | MO            | 500MG7D             | 100 W (ERP)      |                           |
| 92-93.95 GHz  | MO            | 500MG7D             | 100 W (ERP)      |                           |
| 94.05-100 GHz | MO            | 500MG7D             | 100 W (ERP)      |                           |

This authorization effective January 01, 2026 and  
will expire 3:00 A.M. EST January 01, 2028

FEDERAL  
COMMUNICATIONS  
COMMISSION



## Frequency Information

MOBILE: Redondo Beach, CA, within 5 km, centered around NL 33-53-32; WL 118-22-26

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 80-86 GHz     | MO            | 500MG7D             | 100 W (ERP)      |                           |
| 92-93.95 GHz  | MO            | 500MG7D             | 100 W (ERP)      |                           |
| 94.05-100 GHz | MO            | 500MG7D             | 100 W (ERP)      |                           |

Cincinnati (HAMILTON), OH - NL 39-18-08; WL 84-28-28; MOBILE: max altitude 60,000 ft AMSL, within 185 km, centered arc

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 80-86 GHz     | FX            | 500MG7D             | 100 W (ERP)      |                           |
| 80-86 GHz     | MO            | 500MG7D             | 100 W (ERP)      |                           |
| 92-93.95 GHz  | MO            | 500MG7D             | 100 W (ERP)      |                           |
| 92-93.95 GHz  | FX            | 500MG7D             | 100 W (ERP)      |                           |
| 94.05-100 GHz | FX            | 500MG7D             | 100 W (ERP)      |                           |
| 94.05-100 GHz | MO            | 500MG7D             | 100 W (ERP)      |                           |

**Special Conditions:**

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) The 93.95-94.05 GHz frequency band shall be excluded from operation
- (4) Northrop Grumman Systems Corporation avoid out-of-band emissions into the 86-92 GHz and 100-102 GHz ranges.
- (5) Northrop Grumman Systems Corporation shall coordinate operations with the VLBA point of contact, prior to operation: Dan "Mert" Mertely nrao-rfi@nrao.edu phone: (575) 835-7128
- (6) Experimental licensee must successfully coordinate with the Fixed Microwave Service licensees operating in 81-86 GHz and 92-95 GHz bands in the proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to commencing the experimental operations.