

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

EXPERIMENTAL

(Nature of Service)

WK2XCC

(Call Sign)

XT      FX MO

(Class of Station)

0107-EX-CN-2019

(File Number)

NAME General Dynamics

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) Scottsdale (MARICOPA), AZ - NL 33-27-34; WL 111-54-08
- (2) Scottsdale (MARICOPA), AZ - NL 33-27-34; WL 111-54-08
- (3) Scottsdale (MARICOPA), AZ - NL 33-27-34; WL 111-54-08
- (4) Scottsdale (MARICOPA), AZ - NL 33-27-34; WL 111-54-08
- (5) MOBILE: within 56km of the General Dynamics campus, within 56 km, centered around NL 33-27-34; WL 111-54-08

Frequency Information

Scottsdale (MARICOPA), AZ - NL 33-27-34; WL 111-54-08

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 734-746 MHz   | FX            | 5M00G7W             | 15.35 W (ERP)    | 5.0E-6 %                  |
| 1710-1755 MHz | FX            | 5M00G7W<br>5M00G7W  | 15.35 W (ERP)    | 5.0E-6 %                  |
| 2110-2155 MHz | FX            | 5M00G7W             | 15.35 W (ERP)    | 5.0E-6 %                  |

This authorization effective April 25, 2019 and  
will expire 3:00 A.M. EST May 01, 2020

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Scottsdale (MARICOPA), AZ - NL 33-27-34; WL 111-54-08

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2500-2570 MHz | FX            | 5M00G7W             | 15.35 W (ERP)    | 5.0E-6 %                  |
| 2620-2690 MHz | FX            | 5M00G7W             | 15.35 W (ERP)    | 5.0E-6 %                  |

Scottsdale (MARICOPA), AZ - NL 33-27-34; WL 111-54-08

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 824-849 MHz   | FX            | 10M0G7W<br>5M00G7W  | 7.6 W (ERP)      | 5.0E-6 %                  |
| 869-894 MHz   | FX            | 10M0G7W<br>5M00G7W  | 7.6 W (ERP)      | 5.0E-6 %                  |
| 1710-1755 MHz | FX            | 5M00G7W             | 7.6 W (ERP)      | 5.0E-6 %                  |
| 2110-2155 MHz | FX            | 5M00G7W             | 7.6 W (ERP)      | 5.0E-6 %                  |
| 2500-2570 MHz | FX            | 5M00G7W             | 7.6 W (ERP)      | 5.0E-6 %                  |
| 2620-2690 MHz | FX            | 5M00G7W             | 7.6 W (ERP)      | 5.0E-6 %                  |

## Frequency Information

Scottsdale (MARICOPA), AZ - NL 33-27-34; WL 111-54-08

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 4400-4940 MHz | FX            | 20M0G7W<br>20M0G7W  | 21.6 W (ERP)     | 0.00005 %                 |

Scottsdale (MARICOPA), AZ - NL 33-27-34; WL 111-54-08

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 4400-4940 MHz | FX            | 20M0G7W             | 21.6 W (ERP)     | 5.0E-6 %                  |

MOBILE: within 56km of the General Dynamics campus, within 56 km, centered around NL 33-27-34; WL 111-54-08

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 1780-1850 MHz | MO            | 2M50G1D             | 340 mW (ERP)     | 0.00015 %                 |
| 1920-1980 MHz | MO            | 2M50G1D             | 340 mW (ERP)     | 0.00015 %                 |
| 2380 MHz      | MO            | 20M0F1W             | 340 mW (ERP)     | 0.00015 %                 |

## Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.

**Special Conditions:**

- (4) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) General Dynamics must coordinate with the local Society of Broadcast Engineers coordinator, AWS licensees and Fixed Microwave licensees prior to operation at each location before operation.
- (6) Prior to commencing any operations in the frequencies below, General Dynamics must obtain consent from the following within 50 miles of the contours of the testing area:
  - > 700 MHz Lower Band "B" block licensees (704-710 MHz/734-740 MHz)
  - > 700 MHz Lower Band "C" block licensees (710-716 MHz/740-746 MHz)
  - > Cellular licensees (824-849 MHz/869-894 MHz)
  - > Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
- (7) Prior to commencing any operations in Aeronautical and Fixed frequencies (2360-2395 MHz), General Dynamics must coordinate with the Aerospace and Flight Test Radio Coordinating Council (AFTRCC).
- (8) Band 14 Spectrum (758-768 MHz and 788-798 MHz) use or operation is prohibited.
- (9) The Stop Buzzer POC is Gil Estrella 480-441-3725
- (10) LICENSEE SHALL PRIOR COORDINATE OPERATIONS ON 2380MHZ WITH THE AFC, FT. HUACHUCA, ARIZONA.  
COM: (520) 538-6423 DSN: 879-6423
- (11) OPERATIONS ON 2380 MHz ARE SUBJECT TO FURTHER AFTRCC COORDINATION AFTER THE EXPIRATION DATE 06/04/2019.