

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WK2XCC

(Call Sign)

XT FX MO

(Class of Station)

0570-EX-ST-2019

(File Number)

NAME General Dynamics

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

All have associated backhaul to a central node. GDMS will verify proper integration into vehicle systems and basic radio functionality. Vehicles will be stationary and mobile during operation.

Station Locations

- (1) Florence (MARICOPA), AZ - NL 33-09-41; WL 111-21-17
- (2) Florence (MARICOPA), AZ - NL 33-09-41; WL 111-21-17
- (3) Florence (MARICOPA), AZ - NL 33-09-41; WL 111-21-17
- (4) Florence (MARICOPA), AZ - NL 33-09-41; WL 111-21-17
- (5) MOBILE: Remote desert area @ Florence, within 8 km, centered around NL 33-09-41; WL 111-21-17

Frequency Information

Florence (MARICOPA), AZ - NL 33-09-41; WL 111-21-17

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	15.35 W (ERP)	5.0E-6 %

This authorization effective April 15, 2019 and
will expire 3:00 A.M. EST June 15, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Florence (MARICOPA), AZ - NL 33-09-41; WL 111-21-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1755 MHz	FX	5M00G7W	15.35 W (ERP)	5.0E-6 %
2110-2155 MHz	FX	5M00G7W	15.35 W (ERP)	5.0E-6 %
2500-2570 MHz	FX	5M00G7W	15.35 W (ERP)	5.0E-6 %
2620-2690 MHz	FX	5M00G7W	15.35 W (ERP)	5.0E-6 %

Florence (MARICOPA), AZ - NL 33-09-41; WL 111-21-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
824-849 MHz	FX	10M0G7W 5M00G7W	7.6 W (ERP)	5.0E-6 %
869-894 MHz	FX	10M0G7W 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 %

Frequency Information

Florence (MARICOPA), AZ - NL 33-09-41; WL 111-21-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2500-2570 MHz	FX	5M00G7W	7.6 W (ERP)	5.0E-6 %
2620-2690 MHz	FX	5M00G7W	7.6 W (ERP)	5.0E-6 %

Florence (MARICOPA), AZ - NL 33-09-41; WL 111-21-17

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

Florence (MARICOPA), AZ - NL 33-09-41; WL 111-21-17

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

MOBILE: Remote desert area @ Florence, within 8 km, centered around NL 33-09-41; WL 111-21-17

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

Frequency Information

MOBILE: Remote desert area @ Florence, within 8 km, centered around NL 33-09-41; WL 111-21-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2370-2390 MHz	MO	20M0F1W	340 mW (ERP)	0.00015 %

Special Conditions:

- (1) 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.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (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) Licensee must secure consents from the Advance Wireless Service licensees prior to accessing to 1710-1755 MHz and 2110-2155 MHz bands.
- (9) Licensee must obtain consents from the Educational Broadband Service and the Broadband Radio Service licensees prior to accessing to 2500-2570 MHz and 2620-2690 MHz bands.
- (10) GENERAL DYNAMICS MUST NOTCH OUT THE FOLLOWING FREQUENCY BANDS:
 - a. 1780 - 1850 MHz band
 - b. 4440 - 4480 MHz band
 - c. 4647 - 4693 MHz band
 - d. 4701 - 4890 MHz band

Special Conditions:

- (11) Prior to all operations, contact the Western Area Frequency Coordinator (WAFC)
 - > Jamie Heaton at Jamie.heaton@navy.mil or 760-939-6832

- (12) Prior to any transmissions in the un-notched portions of the band 4400 - 4940 MHz:
 - > contact the Western's Desert Southwest District.
 - (a) Rob Reynolds (602) 605-2570
 - (b) Silvia Perez (602) 605-2469

- (13) Prior to any transmissions in the un-notched portions of the band 4400 - 4940 MHz:
 - > Provide a stop buzzer to:
 - (a) David Campbell 202-680-3917 or DAVID.CAMPBELL@HQ.DHS.GOV

- (14) STOP Buzzer POC: Gil Estrella 480-441-3725 Gil.Estrella@gd-ms.com