

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

EXPERIMENTAL

(Nature of Service)

WS9XAZ

(Call Sign)

XT FX MO

(Class of Station)

0684-EX-ST-2021

(File Number)

NAME Lockheed Martin Corporation

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:

To test handheld devices for a 5G network to provide two-way communication that will relay information to a network of Unmanned Aerial Systems (UAS).

Station Locations

- (1) Grayling (CRAWFORD), MI - NL 44-35-31; WL 84-49-29; MOBILE: Within 3 km of coordinates, within 3 km, centered around NL 44-35-31; WL 84-49-29
- (2) Grayling (CRAWFORD), MI - NL 44-48-58; WL 84-34-13; MOBILE: Within 16 km of coordinates, within 16 km, centered around NL 44-48-58; WL 84-34-13

Frequency Information

Grayling (CRAWFORD), MI - NL 44-35-31; WL 84-49-29; MOBILE: Within 3 km of coordinates, within 3 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
614-698 MHz	FX	10M0W7D	38.48 W (ERP)	0.001 %
614-698 MHz	MO	10M0W7D	38.48 mW (ERP)	0.001 %

This authorization effective June 01, 2021 and
will expire 3:00 A.M. EST August 02, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Grayling (CRAWFORD), MI - NL 44-48-58; WL 84-34-13; MOBILE: Within 16 km of coordinates, within 16 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
614-698 MHz	FX	10M0W7D	38.48 W (ERP)	0.001 %
614-698 MHz	MO	10M0W7D	38.48 mW (ERP)	0.001 %

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) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/wp-content/uploads/freqcoor.pdf> to find the appropriate coordinator.
- (3) 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.
- (4) Secure consents from the Upper Microwave Flexible Use Service licensees in the proposed areas prior to accessing to the frequency range from 614 MHz to 698 MHz.
- (5) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.