

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WO9XIG

(Call Sign)

0559-EX-ST-2019

(File Number)

NAME Higher Ground LLC

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:

Test, develop, and demonstrate the feasibility of using a higher gain antenna connected to a SatPaq to provide satellite-based messaging services to terrestrial users.

Station Locations

(1) Mountain View (SANTA CLARA), CA - NL 37-24-22; WL 122-03-25

Frequency Information

Mountain View (SANTA CLARA), CA - NL 37-24-22; WL 122-03-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5925-5930 MHz	FX	5M00G1D	389 W (ERP)	

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The stop buzzer contact for this project is Mark Settle
Phone: 2023833424
Email: msettle@wbklaw.com

This authorization effective April 18, 2019 and
will expire 3:00 A.M. EST October 12, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) The operations of the 0.6 meter C-band antenna are subject to the following conditions:
- a. POINT OF COMMUNICATION: Galaxy 12 at 129° W.L. (Call Sign S2422) Geostationary-satellite orbit (GSO) C-band satellite.
 - b. The authorized stations must be in compliance with the off-axis EIRP power spectral density ("PSD") standards (the "off-axis mask") set forth in 25.218(d) for fixed C-band earth stations.
 - c. The maximum transmitter power is 1 watt and the maximum EIRP is limited to 28 dBW.
 - d. Prior to operations, licensee must complete the coordination with the terrestrial users pursuant with the procedure set forth in Section 25.203 (c) of the Commission's rules.
 - e. The stations are authorized, on a non-protected and non-harmful interference basis, to transmit to the geostationary-orbit space stations using the 5925-5930 MHz frequency band that are authorized by the Commissions. The stations authorized herein must immediately terminate operations upon notification that such operation is causing harmful interference to any other radio system lawfully operating in the 5925-5930 MHz frequency band. The stations authorized herein cannot claim protection from harmful interference from any radio system lawfully operating in the 5925-5930 MHz frequency band.
 - f. Operation pursuant to this authorization must be in compliance with the terms of coordination agreements between Galaxy 12 satellite operator operating in the 5925-5930 MHz frequency band and operators of other C-band geostationary space stations within six angular degrees of those space stations. In the event that another GSO FSS space station commences operation in the C-band at a location within six degrees of any of these space stations, earth stations operating pursuant to this temporary authority shall cease transmitting to that space station unless and until such operation has been coordinated with the new space station's operator or Licensee demonstrates that such operation will not cause harmful interference to the new co-frequency space station.
 - g. Communications between the authorized station and the Galaxy 12 must be in compliance with all existing and future space station coordination agreements reached between the Galaxy 12 and other administrations, and between the Galaxy 12 and other authorized C-band GSO operators.