

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WK9XNF

(Call Sign)

0351-EX-ST-2017

(File Number)

NAME FCL Tech, Inc.

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:

This operation will test potential new communications applications and equipment.

Station Locations

- (1) Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54
- (2) Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54
- (3) Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54
- (4) Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54
- (5) Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54
- (6) Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54
- (7) Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54
- (8) Menlo Parl (SAN MATEO), CA - NL 37-29-06; WL 122-08-54

Frequency Information

Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-29.7 GHz	FX	2G00DXD	3846 W (ERP)	0.0001 %

This authorization effective June 01, 2017 and
will expire 3:00 A.M. EST November 02, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-29.7 GHz	FX	2G00D7D	1928 W (ERP)	0.0001 %

Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
18-20 GHz	FX	2G00DXD	48434 W (ERP)	0.0001 %

Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-29.7 GHz	FX	2G00DXD	48434 W (ERP)	0.0001 %

Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-29.7 GHz	FX	2G00DXD	15316 mW (ERP)	0.0001 %

Frequency Information

Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-29.7 GHz	FX	2G00DXD	767 W (ERP)	0.0001 %

Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.7-31.3 GHz	FX	1G60DXD	48434 W (ERP)	0.0001 %

Menlo Park (SAN MATEO), CA - NL 37-29-06; WL 122-08-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24-27.5 GHz	FX	2G00DXD	767 W (ERP)	0.0001 %

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) Operation is subject to prior coordinate with the local Society of Broadcast Engineer frequency coordinator and the Fixed Microwave Service licensees prior to operation in 18-20 GHz band.
- (4) FCL Tech must insure that fixed operations in the 18.6-18.8 GHz frequency band comply with the maximum conducted output power and maximum equivalent isotropic radiated power limits specified in Footnote US254.

"In the band 18.6-18.8 GHz the fixed and mobile services shall be limited to a maximum equivalent isotropic radiated power of +35 dBW and the power delivered to the antenna shall not exceed -3 dBW."

Special Conditions:

- (5) Operation in the 27.5 - 30.0 GHz, the transmitting main beam pointing antenna is limited to azimuth angles between 280 to 360 degrees and 0 degrees to 80 degrees. Also, the transmitting main beam pointing antenna is limited to an elevation angles between -20 to -90 degrees below the horizon.
- (6) Operations in the 18-20 GHz and 24.75-25.25 GHz bands, the transmitting main beam pointing antenna is limited to elevation angle between 20 to 90 degrees above the horizon.
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (8) No automatic renewal for this authorization.
- (9) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (10) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (11) This authorization SUPERSEDES the previous issued authorization with the same call sign and file number: amend conditions.