Christopher Bjornson, 1330 Connecticut Avenue, NW, Washington, D.C., DC 20036,

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL	WK9XNF
(Nature of Service)	(Call Sign)
XT FX	1534-EX-ST-2016
(Class of Station)	(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:
The purpose of this operation is to test potential new communications applications and equipment in a controlled, rooftop-to-ground environment.

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

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	3846 W (ERP)	0.0001 %

This authorization effective December 09, 2016 and will expire 3:00 A.M. EST May 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	48417 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."

(5) Operation is subject to prior coordinate with the Fixed Microwave Service licensees prior to operation in 27.5-29.7 GHz band.

Special Conditions:

(6) Prior to operating, FCL Technologies, Inc., must notify licensees of earth stations operating in the band 18-20 GHz within 25 kilometers of the locations from which experimental operations will occur. FCL Technologies, Inc. must also provide such notification to the National Spectrum Managers Association frequency coordinators by email. (see http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, antenna patterns, eirp density) and day and times of each test. Consult the IBFS database to identify licensed earth station above 18 - 20 GHz band.

(7) Operation in the 27.5 – 29.7 GHz, the maximum elevation angle of the antennas main beam pointing is 5 degrees below the horizon (or -5 degree elevation angle).

(8) Operations in the 18-20 GHz, the minimum elevation angle of the antenna main beam pointing is 7 degrees above the horizon (or 7 degree elevation angle).