

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

EXPERIMENTAL

(Nature of Service)

WJ9XPL

(Call Sign)

XT FX MO

(Class of Station)

1396-EX-ST-2016

(File Number)

NAME Google 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:

STA extension will enable continued testing of radios in a way that is likely to contribute to the development, extension, expansion, or utilization of the radio art.

Station Locations

- (1) Mountain View, CA; MOBILE: Transportable FX, within 2.41 km, centered around NL 37-25-24; WL 122-04-40

Frequency Information

Mountain View, CA; MOBILE: Transportable FX, within 2.41 km, centered around NL 37-25-24; WL 122-04-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.9-28 GHz	FX		231.27365 W (ERP)	
		100MD1D		
		15M0G1D		
		100HK0N		
31-31.3 GHz	FX		278.05208 W (ERP)	
		300MD1D		
		15M0G1D		

This authorization effective September 25, 2016 and will expire 3:00 A.M. EST March 25, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Mountain View, CA; MOBILE: Transportable FX, within 2.41 km, centered around NL 37-25-24; WL 122-04-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
31-31.3 GHz	FX	100HK0N	278.05208 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) Google must take all practicable steps, per US342, to protect the radio astronomy service, in the 31.2 to 31.3 GHz band, from harmful interference as emissions from space borne or airborne stations can be particularly serious sources of interference to the radio astronomy service.
- (4) The main beam of radiation must remain below 5° above the local horizon.
- (5) Prior to operation, licensee must coordinate with Part 25 stations authorized to operate in these frequency bands that are located within a within a 40 km radius of the transmitter.