

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WG2XFY

(Call Sign)

XT FX MO

(Class of Station)

0100-EX-PL-2012

(File Number)

NAME Cosmogia Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(d i) of the Commission's Rules

Station Locations

- (1) Nongeostationary, SP; MOBILE: Nadir pointing on a cubesat in elliptical LEO orbit (290 km x 575 km)
- (2) Nongeostationary, SP; MOBILE: Nadir pointing on a cubesat in elliptical LEO orbit (290 km x 575 km)
- (3) Stanford, CA - NL 37-24-11; WL 122-10-06

Frequency Information

Nongeostationary, SP; MOBILE: Nadir pointing on a cubesat in elliptical LEO orbit (290 km x 575 km)

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2401.6-2441 MHz	MO	280KF1D	3.2 W (ERP)	0.001 %
2421-2429 MHz	MO	5M50G1D	6 W (ERP)	0.001 %

This authorization effective January 31, 2013 and
will expire 3:00 A.M. EST February 01, 2014

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Nongeostationary, SP; MOBILE: Nadir pointing on a cubesat in elliptical LEO orbit (290 km x 575 km)

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
401.3 MHz	MO	40K0F1D	1.6 W (ERP)	0.001 %
8.221-8.229 GHz	MO	5M50G1D	6 W (ERP)	0.001 %

Stanford, CA - NL 37-24-11; WL 122-10-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450 MHz	FX	60K0F1D	791 W (ERP)	0.002 %
2056 MHz	FX	60K0F1D	18.884 kW (ERP)	0.002 %

Special Conditions:

- (1) Satellite is Dove 2.
- (2) This license supersedes previous grant to include 2.4 GHz bands previously approved.