

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

EXPERIMENTAL

(Nature of Service)

WL9XYV

(Call Sign)

XT FX MO

(Class of Station)

1546-EX-ST-2017

(File Number)

NAME University at Buffalo Nanosatellite Laboratory

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 operation is to test the communications link for a nanosatellite.

Station Locations

- (1) MOBILE: University at Buffalo and it's suburbs, Buffalo, NY, within 32 km, centered around NL 43-00-00; WL 78-47-26
- (2) Buffalo, NY - NL 43-00-12; WL 78-45-55

Frequency Information

MOBILE: University at Buffalo and it's suburbs, Buffalo, NY, within 32 km, centered around NL 43-00-00; WL 78-47-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
137.875 MHz	MO	12K0F1D	10 W (ERP)	0.001 %

This authorization effective December 28, 2017 and
will expire 3:00 A.M. EST April 26, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Buffalo, NY - NL 43-00-12; WL 78-45-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
400.75 MHz	FX	12K0F1D	2085 W (ERP)	0.001 %

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) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (4) Prior to operations in the 400.75 MHz and 137.875 MHz, licensee must notify the potentially-affected earth station operator Orbcomm License Corp (Mr. Walter H Sonnenfeldt, Phone no.: 585-461-3018 and Email: sonnenfeldt.walter@orbcomm.com) for the proposed operations.
- (5) Stop Buzzer: Ryan Szczecinski, Phone Number: 716-628-3729.
- (6) 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.
- (7) Any future use of this equipment for Nanosatellite operations in the Earth-to-Space direction complies with the frequency allocations established by FCC Rules Part 25.202(a)(3), as previously stipulated for 0818-EX-ST-2016, 1477-EX-ST-2016, 1410-EX-ST-2018, and 1418-EX-ST-2017:

148-150.05 MHz: Earth-to-space
399.9-400.05 MHz: Earth-to-space
- (8) The maximum EIRP shall be limited to 50 W in accordance with the coordination letter from ORBCOMM that was included as an attachment to the FCC request