

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

EXPERIMENTAL

(Nature of Service)

WP9XNY

(Call Sign)

XT FX MO

(Class of Station)

2038-EX-ST-2019

(File Number)

NAME O3b Limited

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:

Please see attached narrative

Station Locations

- (1) Hunt Valley, MD - NL 39-28-01; WL 76-38-30; MOBILE: Please see narrative, within 1.6 km, centered around NL 39-28-01; WL 76-38-30

Frequency Information

Hunt Valley, MD - NL 39-28-01; WL 76-38-30; MOBILE: Please see narrative, within 1.6 km, centered around NL 39-28-01; W

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28600-29100 MHz	MO		22138905.78 mW (ERP)	0.0003 %
		50M0G7D		
		6M00G7D		

Special Conditions:

- (1) 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.

This authorization effective November 18, 2019 and
will expire 3:00 A.M. EST December 19, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) Licensee is authorized to conduct on-the-ground tests of the GetSat Microsat stations (terminals) for fixed and short-range mobile operations using the 28.6-29.1 GHz frequency band. The operations are subject to the following conditions:
- a. POINT OF COMMUNICATION: O3b Limited's NGSO (non-geostationary orbit space stations) satellites.
 - b. The stations are authorized, on a non-protected and non-harmful interference basis, to transmit to the non-geostationary-orbit space stations using the 28.6-29.1 GHz frequency band that is authorized by the Commissions. The stations authorized herein must immediately terminate operations upon notification that such operation is causing harmful interference to any other radio system lawfully operating in the 28.6-29.1 GHz frequency band. The stations authorized herein cannot claim protection from harmful interference from any radio system lawfully operating in the 28.6-29.1 GHz frequency band.
 - c. Communications between authorized station(s) and the O3b NGSO space stations must comply with all existing and future coordination agreements reached between the United Kingdom and other Administrations, including all coordination agreements reached between the United Kingdom and the United States. In the absence of a coordination agreement, such communications must comply with applicable provisions of ITU Radio Regulations.
- (4) Operations of the authorized VMES stations must be in compliance with the following additional conditions:
- a. Licensee's VMES must employ a tracking algorithm that is resistant to capturing and tracking adjacent satellite signals, and each station must be capable of inhibiting its own transmission in the event it detects unintended satellite tracking.
 - b. Licensee's VMES must be monitored and controlled by a ground-based network control and monitoring center. Such stations must be able to receive "enable transmission" and "disable transmission" commands from the network control center and must cease transmission immediately after receiving a "parameter change" command until receiving an "enable transmission" command from the network control center. The network control center must monitor operation of each earth station to determine if it is malfunctioning, and each earth station must self-monitor and automatically cease transmission on detecting an operational fault that could cause harmful interference to a fixed satellite service network.
 - c. Licensee must maintain a point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein, for discussing interference concerns with other licensees, and must submit a letter to be included in its license file with the name and telephone number of the point of contact prior to commencing operation.

Special Conditions:

- (5) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (6) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (7) The stop buzzer contact for this project is Will Lewis
Phone: 7035897034
Email: will.lewis@ses.com