Will Lewis, 900 17th Street, NW, Suite 300, Washington, DC 20006,

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

EXPERIMENTAL	WI2XXZ
(Nature of Service)	(Call Sign)
XT MO	0359-EX-CR-2019
(Class of Station)	(File Number)

NAME O3b Limited

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(J) of the Commission's Rules

Station Locations

(1) MOBILE: United States

Frequency Information

MOBILE: United States

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.6-28.4 GHz	MO	216MG7D 1M00G7D	3350 W (ERP)	0.0003 %
28.6-29.1 GHz	MO	1M00G7D 216MG7D	745 kW (ERP)	0.0003 %

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.

(3) All operations must be at fixed locations.

This authorization effective July 01, 2019 and
will expire 3:00 A.M. EST July 01, 2021

FEDERAL COMMUNICATIONS COMMISSION

Special Conditions:

(4) License must successfully coordinate with the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.10(d) prior to operation in the proposed frequency bands.

(5) The stop buzzer contact for this project is Name: Suzanne Malloy
Phone: 202-813-4026 E-mail: Suzanne.malloy@o3bnetworks.com

(6) O3b Limited is authorized to operate 10 units of Viasat 2.4m fixed Ka-band antennas to conduct tests in the contiguous United States, Hawaii, Puerto Rico, and the U.S. Virgin Islands using the 27.6-28.4 GHz and 28.6-29.1 GHz frequency bands. The operations are subject to the following conditions:

a. POINT OF COMMUNICATION: O3b Limited's NGSO (non-geostationary orbit space stations) satellites.

b. Operations in the 27.6-28.4 GHz frequency band must be in compliance with the equivalent power Flux-density limit (-162 dBW/m2/40 KHz) in Article 22.5D of the ITU Radio Regulations.

c. Operations in the 27.6-28.4 GHz frequency band must be in compliance with the following:

Frequency	Emission Designator	Maximum Authorized Power	Maximum EIRP
27.6-28.4 GHz	216MG7D	4731.51 W (ERP)	38.9 dBW
27.6-28.4 GHz	1M00G7D	22.0 W (ERP)	15.6 dBW

d. The stations are authorized, on a non-protected and non-harmful interference basis, to transmit to the non-geostationary-orbit space stations using the 27.6-28.4 GHz and 28.6-29.1 GHz frequency bands that are authorized by the Commission. 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 27.6-28.4 GHz and 28.6-29.1 GHz frequency bands. The stations authorized herein cannot claim protection from harmful interference from any radio system lawfully operating in the 27.6-28.4 GHz and 28.6-29.1 GHz frequency bands.

e. 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.

(7) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.