Mr. Steven C. Hemple, 2501 Gateway, Carlsbad, CA 92009,

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

EXPERIMENTAL	WO2XSK
(Nature of Service)	(Call Sign)
XT MO	0290-EX-CR-2026
(Class of Station)	(File Number)

NAME Viasat, 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(h) of the Commission's Rules

Station Locations

(1) MOBILE: CONUS, US

Frequency Information

MOBILE: CONUS, US

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28350-28600 MHz	MO	625KG7D	1216.62 W (ERP)	1.0E-6 %
28350-28600 MHz	MO	1M25G7D	2427.48 W (ERP)	1.0E-6 %
28350-28600 MHz	MO	2M50G7D	4843.46 W (ERP)	1.0E-6 %
28350-28600 MHz	MO	5M00G7D	9663.98 W (ERP)	1.0E-6 %

This authorization effective May 01, 2026 and
will expire 3:00 A.M. EST May 01, 2028

FEDERAL COMMUNICATIONS COMMISSION

Frequency Information

MOBILE: CONUS, US

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28350-28600 MHz	MO	10M0G7D	19282.18 W (ERP)	1.0E-6 %
28350-28600 MHz	MO	20M0G7D	38473.01 W (ERP)	1.0E-6 %
28350-28600 MHz	MO	40M0G7D	76763.74 W (ERP)	1.0E-6 %
28350-28600 MHz	MO	80M0G7D	153163.81 W (ERP)	1.0E-6 %
28350-28600 MHz	MO	160MG7D	285204.35 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	320MG7D	285204.35 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	625KG7D	1216.62 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	1M25G7D	2427.48 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	2M50G7D	4843.46 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	5M00G7D	9663.98 W (ERP)	1.0E-6 %

Frequency Information

MOBILE: CONUS, US

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29500-30000 MHz	MO	10M0G7D	19282.18 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	20M0G7D	38473.01 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	40M0G7D	76763.74 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	80M0G7D	153163.81 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	160MG7D	285204.35 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	750KG7D	1.46 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	2M10G7D	4.03 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	2M40G7D	4.63 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	3M10G7D	5.96 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	3M60G7D	7 W (ERP)	1.0E-6 %

Frequency Information

MOBILE: CONUS, US

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29500-30000 MHz	MO	4M00G7D	7.68 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	5M30G7D	10.12 W (ERP)	1.0E-6 %
29500-30000 MHz	MO	7M50G7D	14.63 W (ERP)	1.0E-6 %

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

(4) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.

(5) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.

(6) Licensee is authorized to conduct tests by using 20 units of the ViaSat SPARK antennas on ground-based platforms and 20 units of the ViaSat AIDAN antennas on airborne platforms in CONUS to demonstrate the tested antennas when communicating with the Ka band GSO ViaSat satellite networks. Experimental operations will be performed in the 28.35-28.6 GHz and 29.5-30.0 GHz frequency bands (Earth-to-space).

Special Conditions:

(7) Points Of Communication:
Ka-band GSO Satellites Call Sign Administration
WildBlue-1 at 111.1° W.L. E040213 Canada
ANIK F2 at 111.1° W.L. S2472 Canada
ViaSat-1 at 115° W.L. S2747 USA
ViaSat-2 at 69.9° W.L. S2902 United Kingdom
ViaSat-3 at 88.9° W.L. S2917 United Kingdom
Inmarsat 5-F2 at 55° W.L. E120072 United Kingdom

(8) Experimental operation must be on an unprotected and non-interference basis (NIB), i.e., licensee must not cause harmful interference to and must not claim protection from interference caused to it by, any other lawfully operating stations.

(9) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.

(10) Communications between the authorized antennas and the ViaSat-2, ViaSat-3, and Inmarsat 5-F2 satellites must be in compliance with all existing and future space station coordination agreements reached between United Kingdom and other administrations, including all coordination agreements reached between United Kingdom and the United States. In the absence of a coordination agreement, such communications must comply with applicable provisions of ITU Radio Regulations.

(11) Communications between the authorized antennas and the WildBlue-1 and ANIK-F2 GSO satellites must be in compliance with all existing and future space station coordination agreements reached between Canada and other administrations, including all coordination agreements reached between Canada and the United States. In the absence of a coordination agreement, such communications must comply with applicable provisions of ITU Radio Regulations.

(12) Experimental operation must be in compliance with the applicable operating and coordination requirement for Earth station in motion (ESIM)s requirement set forth in the Commission's rule 47 CFR § 25.228.

(13) Communications between authorized antennas and the Ka-band GSO ViaSat satellite networks must comport with all existing and future space station coordination agreements reached between the Ka-band GSO ViaSat satellite network operators and all satellites with co-frequency operations within 6 degrees longitude of Ka-band GSO ViaSat satellite networks.

(14) Licensee must take all practical steps to protect the Upper Microwave Flexible Use Service licensees operating in the adjacent band 27.5-28.35 GHz. If any interference occurs, the licensee of this authorization will be subject to immediate shut down until any interference issues are resolved.

Special Conditions:

(15) Licensee must, at all times, take all necessary measures to ensure that the STA operation at this earth station does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR § l.1307(b), 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both general population/uncontrolled exposure and for occupational/controlled exposure, as defined in those rule sections. The FCC's OET Bulletin 65 (available online at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alert signs and protective equipment for workers.

(16) This authorization must not be used for air traffic control communications.

(17) This authorization is subject to the terms and condition of all associated current or future space station authorization(s) or grant(s) of market access. Operations pursuant to the instant authorization must be consistent with the associated space station(s) authorizations(s) or grant(s) of market access. This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.

(18) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite and/or Earth station applications.

(19) Any action taken, or expense incurred, as a result of testing pursuant to this experimental operation is solely at licensee risk.

(20) The designated point-of-contact to terminate transmissions if interference occurs is ViaSat Network Operations Center at 1-888-272-7232 (phone) and noc-carlsbad@viasat.com (email).

Special Conditions:

(21) Experimental operation must maintain the authorized antenna(s) radiation patterns and the associated elevation angle to be in compliance with the applicable off-axis EIRP density limits set forth in Commission's rule 47 CFR § 25.218(i) as follows:

Emissions:	625KG7D, 1M25G7D, 2M50G7D, 5M00G7D, 10M0G7D, 20M0G7D, 40M0G7D, 80M0G7D, 160MG7D, 320MG7D, 750KG7D, 2M10G7D, 2M40G7D, 3M10G7D, 3M60G7D, 4M00G7D, 5M30G7D, 7M50G7D
Max. antenna gain (dBi):	41
ERP (W)	1216.62-285204.35
EIRP (dBW):	33-36.7

Max. off-axis EIRP Density (dBW/1 MHz) from 2.0°: 24.97
Minimum elevation above the horizon: 30°
Experimental operation above the routine limit is subject to the requirements set forth in Commission's rule 47 CFR § 25.220.

(22) Operation is subject to prior coordination with the Fixed Microwave Service and Upper Microwave Flexible Use Service licensees.

(23) This operation is for experimental purpose only and does not permit for commercial service.

(24) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."