

Current Authorization : FCC WEB Reproduction
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Name: VIASAT, INC. Call Sign: E160161

File Number: SES-MOD-20180206-00088

Authorization Type: Modification of License

Non Common Carrier Grant Date: 03/11/2019 Expiration Date: 03/07/2032

Nature of Service: Earth Exploration Satellite Service

Class of Station: Fixed Earth Stations

A) Site Location(s)

# Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1) 1	1236 Wayne Poultry Rd (TT&C) Pendergrass, Jackson, GA, 30567	34° 10' 29.0" N	83° 40' 19.0" W	230.0	83	

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning Tuesday, March 07, 2017 (3 AM Eastern Standard Time) and ending Sunday, March 07, 2032 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is Wednesday, March 11, 2020 (3 AM Eastern Standard Time). Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

# Frequency	Polarization	Emission	Tx/Rx Mode	EIRP /Carrier	EIRP Density	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1) 2025.0000 - 2120.0000	L,R	1M31F1D	T	53.20	28.00	TTC-S2192	FM TT&C	C Command
2) 2025.0000 - 2120.0000	R	153KM1D	T	48.00	32.20	TTC-W2J2X	TT&C CC	OMMAND
3) 2025.0000 - 2120.0000	R	30K0F1D	T	48.00	41.20	TTC-W2J2X	TT&C CC	OMMAND
4) 2025.0000 - 2120.0000	R	38K4M1D	T	48.00	38.20	TTC-W2J2X	TT&C CC	OMMAND
5) 2025.0000 - 2120.0000	R	614KM1D	T	48.00	26.10	TTC-W2J2X	TT&C CC	OMMAND
6) 2025.0000 - 2120.0000	R	76K8M1D	R	48.00	35.20	TTC-W2J2X	TT& C CC	OMMAND
7) 2025.0000 - 2120.0000	R	307KM1D	T	48.00	29.20	TTC-W2J2X	TT&C CC	OMMAND

May

C) Frequency Coordination

#	Frequency Limits(MHz)	Satellite Arc (Deg. Long.) East West Limit Limit	Elevation (Degrees) East West Limit Limit	Azimuth (Degrees) East West Limit Limit	Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)	
1)	2025.0000 - 2120.0000	NGSO	10.0 - 10.0	0.0 - 359.9	10.4	TTC-S2192	
2)	2025.0000 - 2120.0000	NGSO				TTC-S2192	

D) Point of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

1) 1 to Planet Labs (S2912) satellites (NGSO) Earth Exploration Satellite Service (Flocks 1-3)



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2) 1 to Orbital Test Bed (OTB) (US licensed) [720 720 km @ 24° Incln.]

E) Antenna l	Facilites		Max Antenna					
Site ID	Antenna ID	Units	Diameter (Meters)	Manufacturer	Model Number	Site Elevation	Height	Special Provisions (Refer to Section H)
1	TTC-S2192	1	5.4	ViaSat, Inc.	841054	230.0	6.4 AGL/ 234.4 AMSL	
Max Gains(s):38.1 c	lBi @ 2.0250 GHz							
Maximum total inpu	nt power at antenna flang	e (Watts) =	= 9.8					
Maximum aggregate	e output EIRP for all carr	iers (dBW	7)53.2					
1	TTC-W2J2X	0	5.4	ViaSat, Inc.	841054	230.0	6.4 AGL/ 234.4 AMSL	

Max Gains(s):38.1 dBi @ 2.0250 GHz

Maximum total input power at antenna flange (Watts) = 9.8

Maximum aggregate output EIRP for all carriers (dBW)48.0

F) Remote Control

1 349 Inverness Dr. South Call Sign: N/A Englewood, Arapahoe, CO, 80112 720-493-7300

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions

H) Special and General Provisions

- A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:
 - Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.
 - 5 Licensee must notify the Commission when this earth station is no longer operational or when it has not been used to provide any service during any 6-month operation.
 - 6 Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.
 - Any use of the 2025-2110 MHz band by the Licensee for TT&C must be on a non-interference basis to all other systems operating under a primary or secondary status in the band. As a non-conforming user, Licensee will also be required to accept any interference to it that is caused by any of these allocated services.
 - Earth Station may only operate with satellites in compliance with the 47 C.F.R. Table of Allocations Footnote US90, "
 In the band 2025-2110 MHz, the power flux-density at the Earth's surface produced by emissions from a space station in the space operation, Earth exploration-satellite, or space research service that is transmitting in the space-to-space direction, for all conditions and all methods of modulation, shall not exceed the following values in any 4 kHz subband:
 - (a) -154 dBW/m2 for angles of arrival above the horizontal plane (Sigma) of 0° to 5°,
 - (b) -154 + 0.5 (Sigma-5) dBW/m2 for Sigma of 5° to 25°, and
 - (c) -144 dBW/m2 for Sigma of 25° to 90°.



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H) Special and General Provisions

90105 Authority is granted to operate this station by remote control provided that the operator is responsible for ensuring the operations are in accordance with the terms and conditions of the license and pursuant to Section 25.271 of the Commission's rules. 47 C.F.R 25.271.

Telemetry, tracking and command (TT&C) operations identified in part B, Particulars of Operation in this authorization may be transmitted within the assigned bands that are not at a band edge only if the transmissions cause no greater 90397 interference and require no greater protection from harmful interference than the communications traffic on the satellite network or have been coordinated with operators of authorized co-frequency space stations at orbital locations within six degrees of the assigned orbital location. Frequencies, polarization, and coding of telemetry, tracking, and command

transmissions must be selected to minimize interference into other satellite networks.

Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311) 90398

90399 The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for



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H) Special and General Provisions

B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulates is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993". These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.