



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: ViaSat, Inc.

Call Sign: E160161

Authorization Type: Modification of License

File Number: SES-MOD-20180206-00088

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)	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	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 March 7, 2017 (3 AM Eastern Standard Time) and ending March 7, 2032 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is 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 (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	2025.0000-2120.0000	L,R	1M31F1D	Tx	53.20	28.00	TTC-S2192		FM TT&C Command
2)	2025.0000-2120.0000	R	153KM1D	Tx	48.00	32.20	TTC-W2J2X		TT&C COMMAND
3)	2025.0000-2120.0000	R	307KM1D	Tx	48.00	29.20	TTC-W2J2X		TT&C COMMAND
4)	2025.0000-2120.0000	R	30K0F1D	Tx	48.00	41.20	TTC-W2J2X		TT&C COMMAND
5)	2025.0000-2120.0000	R	38K4M1D	Tx	48.00	38.20	TTC-W2J2X		TT&C COMMAND
6)	2025.0000-2120.0000	R	614KM1D	Tx	48.00	26.10	TTC-W2J2X		TT&C COMMAND
7)	2025.0000-2120.0000	R	76K8M1D	Rx	48.00	35.20	TTC-W2J2X		TT& C COMMAND



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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	2025.0000-2120.0000	NGSO		10.0-10.0		000.0-359.9		10.4	TTC-S2192
2)	2025.0000-2120.0000	NGSO							TTC-S2192

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

E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
1	TTC-S2192	1	5.4	ViaSat, Inc.	841054	230	6.4 AGL/ 234.4 AMSL	
Max Gains(s): 38.1 dBi @ 2.0250 GHz								
Maximum total input power at antenna flange (Watts) =					9.80			
Maximum aggregate output EIRP for all carriers (dBW) =					53.20			
1	TTC-W2J2X	0	5.4	ViaSat, Inc.	841054	230	6.4 AGL/ 234.4 AMSL	
Max Gains(s): 38.1 dBi @ 2.0250 GHz								
Maximum total input power at antenna flange (Watts) =					9.80			
Maximum aggregate output EIRP for all carriers (dBW) =					48.00			

F) Remote Control Point:

1	349 Inverness Dr. South Englewood, Arapahoe, CO 80112 720-493-7300	Call Sign: N/A
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G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions



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H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 4 --- 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 (IBFS) in the "Other Filings" tab 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.
- 3449 --- 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.
- 90025 --- 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 sub-band:
 - (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°."
- 90026 --- Earth Station may only operate in compliance with the 47 C.F.R. Section 2.106, Table of Allocations Footnote US347, " US347 In the band 2025-2110 MHz, non-Federal Earth-to-space and space-to-space transmissions may be authorized in the space research and Earth exploration-satellite services subject to such conditions as may be applied on a case-by-case basis. Such transmissions shall not cause harmful interference to Federal and non-Federal stations operating in accordance with the Table of Frequency Allocations."
- 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.
- 90397 --- 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 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.
- 90398 --- 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)



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H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

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 workers.



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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 is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction 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 regulatees 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.