



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: ViaSat, Inc.

Authorization Type: Renewal of License

Non Common Carrier

Call Sign: E040213

File Number: SES-RWL-20190718-00932

Grant date: 08/06/2019

Expiration Date: 09/21/2034



Nature of Service: Fixed Satellite Service

Class of Station: Fixed Earth Stations

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	GES-1	22401 Juniper Flats Road Nuevo, Riverside, CA 92567	33°47'47.2"N	117°5'20.4"W	1815	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 September 21, 2019 (3 AM Eastern Standard Time) and ending September 21, 2034 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is 00/00/0000. 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)	29250.0000-29500.0000	L	30M0G7W	Tx	78.45	39.70	GES-1-A		PSK, DATA, INTERNET
2)	29250.0000-29500.0000	L	22M5G7W	Tx	77.20	39.70	GES-1-A		PSK, Data & Internet
3)	28350.0000-28600.0000	L	30M0G7W	Tx	78.45	39.70	GES-1-A		PSK, DATA, INTERNET
4)	28350.0000-28600.0000	L	22M5G7W	Tx	77.20	39.70	GES-1-A		PSK, Data & Internet
5)	18300.0000-18800.0000	R	1M60G7W	Rx	0.00	0.00	GES-1-A		PSK, Data & Internet
6)	18300.0000-18800.0000	R	200KG7W	Rx	0.00	0.00	GES-1-A		PSK, Data & Internet
7)	18300.0000-18800.0000	R	400KG7W	Rx	0.00	0.00	GES-1-A		PSK, Data & Internet
8)	18300.0000-18800.0000	R	800KG7W	Rx	0.00	0.00	GES-1-A		PSK, Data & Internet
9)	29500.0000-30000.0000	L	22M5G7W	Tx	74.20	36.70	GES-1-B		PSK, Data & Internet



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10)	29250.0000-29500.0000	L,R	30M0G7W	Tx	75.45	36.70	GES-1-B		PSK, DATA, INTERNET
11)	29250.0000-29500.0000	L,R	22M5G7W	Tx	74.20	36.70	GES-1-B		PSK, Data & Internet
12)	28350.0000-28600.0000	L,R	30M0G7W	Tx	75.45	36.70	GES-1-B		PSK, DATA, INTERNET
13)	28350.0000-28600.0000	L,R	22M5G7W	Tx	74.20	36.70	GES-1-B		PSK, Data & Internet
14)	19700.0000-20200.0000	L	1M60G7W	Rx	0.00	0.00	GES-1-B		PSK, Data & Internet
15)	19700.0000-20200.0000	L	200KG7W	Rx	0.00	0.00	GES-1-B		PSK, Data & Internet
16)	19700.0000-20200.0000	L	400KG7W	Rx	0.00	0.00	GES-1-B		PSK, Data & Internet
17)	19700.0000-20200.0000	L	800KG7W	Rx	0.00	0.00	GES-1-B		PSK, Data & Internet
18)	18300.0000-18800.0000	L,R	1M60G7W	Rx	0.00	0.00	GES-1-B		PSK, Data & Internet
19)	18300.0000-18800.0000	L,R	200KG7W	Rx	0.00	0.00	GES-1-B		PSK, Data & Internet
20)	18300.0000-18800.0000	L,R	400KG7W	Rx	0.00	0.00	GES-1-B		PSK, Data & Internet
21)	18300.0000-18800.0000	L,R	800KG7W	Rx	0.00	0.00	GES-1-B		PSK, Data & Internet
22)	29250.0000-29500.0000	R	30M0G7W	Tx	78.45	39.70	GES-1-C		PSK, DATA, INTERNET
23)	29250.0000-29500.0000	R	22M5G7W	Tx	77.20	39.70	GES-1-C		PSK, Data & Internet
24)	28350.0000-28600.0000	R	30M0G7W	Tx	78.45	39.70	GES-1-C		PSK, DATA, INTERNET
25)	28350.0000-28600.0000	R	22M5G7W	Tx	77.20	39.70	GES-1-C		PSK, Data & Internet
26)	18300.0000-18800.0000	L	1M60G7W	Rx			GES-1-C		PSK, Data & Internet
27)	18300.0000-18800.0000	L	200KG7W	Rx			GES-1-C		PSK, Data & Internet
28)	18300.0000-18800.0000	L	400KG7W	Rx			GES-1-C		PSK, Data & Internet
29)	18300.0000-18800.0000	L	800KG7W	Rx			GES-1-C		PSK, Data & Internet



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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)	18300.0000-18800.0000	62.0W	144.0W	20.2	41.3	111.2	222.4	0	GES-1-A
2)	28350.0000-28600.0000	62.0W	144.0W	20.2	41.3	111.2	222.4	-30	GES-1-A
3)	29250.0000-29500.0000	62.0W	144.0W	20.2	41.3	111.2	222.4	-30	GES-1-A
4)	18300.0000-18800.0000	62.0W	144.0W	20.2	41.3	111.2	222.4	0	GES-1-B
5)	19700.0000-20200.0000	62.0W	144.0W	20.2	41.3	111.2	222.4	0	GES-1-B
6)	28350.0000-28600.0000	62.0W	144.0W	20.2	41.3	111.2	222.4	-30	GES-1-B
7)	29250.0000-29500.0000	62.0W	144.0W	20.2	41.3	111.2	222.4	-30	GES-1-B
8)	29500.0000-30000.0000	62.0W	144.0W	20.2	41.3	111.2	222.4	-30	GES-1-B
9)	18300.0000-18800.0000	62.0W	144.0W	20.2	41.3	111.2	222.4		GES-1-C
10)	28350.0000-28600.0000	62.0W	144.0W	20.2	41.3	111.2	222.4	-30	GES-1-C
11)	29250.0000-29500.0000	62.0W	144.0W	20.2	41.3	111.2	222.4	-30	GES-1-C

D) Points of Communications

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

- 1) GES-1 to ANIK F2 (S2646) @ 111.1° W.L. (Canada-licensed)
- 2) GES-1 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)

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)
GES-1	GES-1-A	1	8.1	Andrew Corporation, Inc.	ES-81-KA-1	1815	9.3 AGL/ 1821.45 AMSL	
Max Gains(s): 62.0 dBi @ 20.0000 GHz 65.0 dBi @ 30.0000 GHz								
Maximum total input power at antenna flange (Watts) =					250.60			
Maximum aggregate output EIRP for all carriers (dBW) =					89.30			
GES-1	GES-1-B	1	5.6	Andrew Corporation, Inc.	ES-56-KA-1	1815	6.45 AGL/ 1821.45 AMSL	
Max Gains(s): 59.0 dBi @ 20.0000 GHz 62.0 dBi @ 30.0000 GHz 65.0 dBi @ 29.0000 GHz								
Maximum total input power at antenna flange (Watts) =					250.60			
Maximum aggregate output EIRP for all carriers (dBW) =					86.30			



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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)
GES-1	GES-1-C	1	8.1	Andrew Corporation, Inc.	ES-81-KA-1	1815	9.3 AGL/ 1821.45 AMSL	
Max Gains(s): 62.0 dBi @ 19.0000 GHz								
Maximum total input power at antenna flange (Watts) =					250.60			
Maximum aggregate output EIRP for all carriers (dBW) =					89.30			

F) Remote Control Point:

GES-1 349 INVERNESS DR. SOUTH

Call Sign: E040213

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:

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 (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.

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.

8 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have not been used to provide any service during any 6-month operation.

3900 --- Ka-band earth station operators authorized to access the Anik F2 satellite may not use Anik F2 to provide any Direct-to-Home (DTH) service, Direct Broadcast Satellite (DBS) service, or Digital Audio Radio Service (DARS) to, from, or within the United States.

3901 --- Telesat Canada's operation of ANIK F2 satellite network, associated with the earth station(s) authorized herein, must comply with its applicable current and future operational requirements as a result of coordination agreements with other satellite systems.



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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:

- 3942 --- Ka-band operations over the Anik F2 satellite network, associated with the earth station(s) authorized herein, shall not cause harmful interference to, nor shall operators accessing this satellite network claim protection from U.S.-authorized services provided by U.S.-licensed satellites and non-U.S.-licensed satellite networks authorized to access the U.S. market that are compliant with the Commission's two-degree spacing rules.
- 3943 --- In the future, should the Commission authorize a two-degree compliant U.S.-licensed satellites or access to the U.S. market by a non-U.S.-licensed satellite that is providing Ka-band services that are two-degree compliant, and is located two degrees or more from Anik F2, Telesat Canada would be expected to coordinate in good faith with the licensee of that satellite. If a coordination agreement is not reached, the operation of U.S. routine earth stations communicating with Anik F2 must be on a non-harmful interference basis relative to routinely licensed U.S. services provided by the compliant satellite.
- 9662 --- The 17.8 - 20.2 GHz band is shared with U.S. Government space stations and associated earth stations in the fixed-Satellite Services. Services within the United States over the satellite network of which this is a cooperating earth station are subject to coordination under US334 and operation of the earth station(s) authorized herein will be subject to any technical constraints resulting from this coordination. See 47 C.F.R. Section 2.106, Footnote US334.
- 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)
- 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.