



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION**

Name: ViaSat, Inc.

Call Sign: E120071

Authorization Type: Modification of License

File Number: SES-MOD-20150819-00532

Non Common Carrier

Grant date: 10/22/2015

Expiration Date: 06/04/2027



Nature of Service: Fixed Satellite Service

Class of Station: Blanket Earth Stations

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	1	(50000 Blanket Terminals) CONUS, ,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
2)	2	(20000 Blanket Terminals) CONUS,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
3)	3	20000 Blanket Terminals) CONUS,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
4)	4	(20000 Blanket Terminals) CONUS,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
5)	5	(20000 Blanket Terminals) CONUS,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
6)	6	(50000 Blanket Terminals) CONUS,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				



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A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
7)	7	(50000 Blanket Terminals) CONUS,				NA	
8)	8	(50000 Blanket Terminals) CONUS, AK, HI,				NA	

Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

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 June 4, 2012 (3 AM Eastern Standard Time) and ending June 4, 2027 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is October 22, 2016 (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)	29500.0000-30000.0000	L,R	2M50G7D	Tx	48.80	20.90	1	2.5 MBd	PSK, Digital Carrier
2)	29500.0000-30000.0000	L,R	5M00G7D	Tx	48.80	17.90	1	5.0 MBd	PSK, Digital Carrier
3)	29500.0000-30000.0000	L,R	10M0G7D	Tx	48.80	14.90	1	10.0 MBd	PSK, Digital Carrier
4)	29500.0000-30000.0000	L,R	1M25G7D	Tx	48.80	23.90	1	1.25 MBd	PSK, Digital Carrier
5)	29500.0000-30000.0000	L,R	625KG7D	Tx	45.80	23.90	1	625 kBd	PSK, Digital Carrier
6)	28350.0000-29100.0000	L,R	2M50G7D	Tx	48.80	20.90	1	2.5 MBd	PSK, Digital Carrier



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7)	28350.0000-29100.0000	L,R	5M00G7D	Tx	48.80	17.90	1	5.0 MBd Carrier	PSK, Digital
8)	28350.0000-29100.0000	L,R	625KG7D	Tx	45.80	23.90	1	625 kBd Carrier	PSK, Digital
9)	28350.0000-29100.0000	L,R	10M0G7D	Tx	48.80	14.90	1	10.0 MBd Carrier	PSK, Digital
10)	28350.0000-29100.0000	L,R	1M25G7D	Tx	48.80	23.90	1	1.25 MBd Carrier	PSK, Digital
11)	19700.0000-20200.0000	L,R	52M1G7D	Rx			1	52 MBd Carrier	PSK, Digital
12)	19700.0000-20200.0000	L,R	416MG7D	Rx			1	416 MBd Carrier	PSK, Digital
13)	18300.0000-19300.0000	L,R	52M1G7D	Rx			1	52 MBd Carrier	PSK, Digital
14)	18300.0000-19300.0000	L,R	416MG7D	Rx			1	416 MBd Carrier	PSK, Digital
15)	29500.0000-30000.0000	L,R	5M00G7D	Tx	54.30	23.30	2	5 MBD	PSK, DIGITAL CARRIER
16)	29500.0000-30000.0000	L,R	10M0G7D	Tx	54.30	20.30	2	10 MBD	PSK, DIGITAL CARRIER
17)	29500.0000-30000.0000	L,R	20M0G7D	Tx	54.00	17.00	2	20 MBD	PSK, DIGITAL CARRIER
18)	29500.0000-30000.0000	L,R	2M50G7D	Tx	54.30	26.30	2	2.5 MBD	PSK, DIGITAL CARRIER
19)	29500.0000-30000.0000	L,R	625KG7D	Tx	54.30	32.30	2	625 KBD	PSK, DIGITAL CARRIER
20)	29500.0000-30000.0000	L,R	1M25G7D	Tx	54.30	29.30	2	1.25 MBD	PSK, DIGITAL CARRIER
21)	28350.0000-29100.0000	L,R	5M00G7D	Tx	54.30	23.30	2	5 MBD	PSK, DIGITAL CARRIER
22)	28350.0000-29100.0000	L,R	10M0G7D	Tx	54.30	20.30	2	10 MBD	PSK, DIGITAL CARRIER
23)	28350.0000-29100.0000	L,R	20M0G7D	Tx	54.00	17.00	2	20 MBD	PSK, DIGITAL CARRIER
24)	28350.0000-29100.0000	L,R	2M50G7D	Tx	54.30	26.30	2	2.5 MBD	PSK, DIGITAL CARRIER
25)	28350.0000-29100.0000	L,R	625KG7D	Tx	54.30	32.30	2	625 KBD	PSK, DIGITAL CARRIER



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#	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
26)	28350.0000-29100.0000	L,R	1M25G7D	Tx	54.30	29.30	2	1.25 MBD CARRIER	PSK, DIGITAL
27)	19700.0000-20200.0000	L,R	52M1G7D	Rx			2	52 MBD CARRIER	PSK, DIGITAL
28)	19700.0000-20200.0000	L,R	416MG7D	Rx			2	416 MBD CARRIER	PSK, DIGITAL
29)	18300.0000-19300.0000	L,R	52M1G7D	Rx			2	52 MBD CARRIER	PSK, DIGITAL
30)	18300.0000-19300.0000	L,R	416MG7D	Rx			2	416 MBD CARRIER	PSK, DIGITAL
31)	29500.0000-30000.0000	L,R	5M00G7D	Tx	54.10	23.10	3	5 MBD CARRIER	PSK, DIGITAL
32)	29500.0000-30000.0000	L,R	10M0G7D	Tx	54.10	20.10	3	10 MBD CARRIER	PSK, DIGITAL
33)	29500.0000-30000.0000	L,R	2M50G7D	Tx	54.10	26.10	3	2.5 MBD CARRIER	PSK, DIGITAL
34)	29500.0000-30000.0000	L,R	625KG7D	Tx	54.10	29.10	3	625 KBD CARRIER	PSK, DIGITAL
35)	29500.0000-30000.0000	L,R	1M25G7D	Tx	54.10	29.10	3	1.25 MBD CARRIER	PSK, DIGITAL
36)	28350.0000-29100.0000	L,R	5M00G7D	Tx	54.10	23.10	3	5 MBD CARRIER	PSK, DIGITAL
37)	28350.0000-29100.0000	L,R	10M0G7D	Tx	54.10	20.10	3	10 MBD CARRIER	PSK, DIGITAL
38)	28350.0000-29100.0000	L,R	2M50G7D	Tx	54.10	26.10	3	2.5 MBD CARRIER	PSK, DIGITAL
39)	28350.0000-29100.0000	L,R	625KG7D	Tx	54.10	29.10	3	625 KBD CARRIER	PSK, DIGITAL
40)	28350.0000-29100.0000	L,R	1M25G7D	Tx	54.10	29.10	3	1.25 MBD CARRIER	PSK, DIGITAL
41)	19700.0000-20200.0000	L,R	52M1G7D	Rx			3	52 MBD CARRIER	PSK, DIGITAL
42)	19700.0000-20200.0000	L,R	52M1G7D	Rx			3	52 MBD CARRIER	PSK, DIGITAL
43)	19700.0000-20200.0000	L,R	416MG7D	Rx			3	416 MBD CARRIER	PSK, DIGITAL
44)	18300.0000-19300.0000	L,R	416MG7D	Rx			3	416 MBD CARRIER	PSK, DIGITAL



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#	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
45)	29500.0000-30000.0000	L,R	5M00G7D	Tx	51.30	20.30	4	5 MBD	PSK, DIGITAL CARRIER
46)	29500.0000-30000.0000	L,R	10M0G7D	Tx	51.30	17.30	4	10 MBD	PSK, DIGITAL CARRIER
47)	29500.0000-30000.0000	L,R	2M50G7D	Tx	51.30	23.30	4	2.5 MBD	PSK, DIGITAL CARRIER
48)	29500.0000-30000.0000	L,R	625KG7D	Tx	51.30	26.30	4	625 KBD	PSK, DIGITAL CARRIER
49)	29500.0000-30000.0000	L,R	1M25G7D	Tx	51.30	26.30	4	1.25 MBD	PSK, DIGITAL CARRIER
50)	28350.0000-29100.0000	L,R	5M00G7D	Tx	51.30	20.30	4	5 MBD	PSK, DIGITAL CARRIER
51)	28350.0000-29100.0000	L,R	10M0G7D	Tx	51.30	17.30	4	10 MBD	PSK, DIGITAL CARRIER
52)	28350.0000-29100.0000	L,R	2M50G7D	Tx	51.30	23.30	4	2.5 MBD	PSK, DIGITAL CARRIER
53)	28350.0000-29100.0000	L,R	625KG7D	Tx	51.30	26.30	4	625 KBD	PSK, DIGITAL CARRIER
54)	28350.0000-29100.0000	L,R	1M25G7D	Tx	51.30	26.30	4	1.25 MBD	PSK, DIGITAL CARRIER
55)	19700.0000-20200.0000	L,R	52M1G7D	Rx			4	52 MBD	PSK, DIGITAL CARRIER
56)	19700.0000-20200.0000	L,R	416MG7D	Rx			4	416 MBD	PSK, DIGITAL CARRIER
57)	18300.0000-19300.0000	L,R	52M1G7D	Rx			4	52 MBD	PSK, DIGITAL CARRIER
58)	18300.0000-19300.0000	L,R	416MG7D	Rx			4	416 MBD	PSK, DIGITAL CARRIER
59)	29500.0000-30000.0000	L,R	5M00G7D	Tx	51.30	20.30	5	5 MBD	PSK, DIGITAL CARRIER
60)	29500.0000-30000.0000	L,R	10M0G7D	Tx	51.30	17.30	5	10 MBD	PSK, DIGITAL CARRIER
61)	29500.0000-30000.0000	L,R	2M50G7D	Tx	51.30	23.30	5	2.5 MBD	PSK, DIGITAL CARRIER
62)	29500.0000-30000.0000	L,R	625KG7D	Tx	51.30	26.30	5	625 KBD	PSK, DIGITAL CARRIER
63)	29500.0000-30000.0000	L,R	1M25G7D	Tx	51.30	26.30	5	1.25 MBD	PSK, DIGITAL CARRIER



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#	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
64)	28350.0000-29100.0000	L,R	5M00G7D	Tx	51.30	20.30	5	5 MBD PSK,	DIGITAL CARRIER
65)	28350.0000-29100.0000	L,R	10M0G7D	Tx	51.30	17.30	5	10 MBD PSK,	DIGITAL CARRIER
66)	28350.0000-29100.0000	L,R	2M50G7D	Tx	51.30	23.30	5	2.5 MBD PSK,	DIGITAL CARRIER
67)	28350.0000-29100.0000	L,R	625KG7D	Tx	51.30	26.30	5	625 KBD PSK,	DIGITAL CARRIER
68)	28350.0000-29100.0000	L,R	1M25G7D	Tx	51.30	26.30	5	1.25 MBD PSK,	DIGITAL CARRIER
69)	19700.0000-20200.0000	L,R	52M1G7D	Rx			5	52 MBD PSK,	DIGITAL CARRIER
70)	19700.0000-20200.0000	L,R	416MG7D	Rx			5	416 MBD PSK,	DIGITAL CARRIER
71)	18300.0000-19300.0000	L,R	52M1G7D	Rx			5	52 MBD PSK,	DIGITAL CARRIER
72)	18300.0000-19300.0000	L,R	416MG7D	Rx			5	416 MBD PSK,	DIGITAL CARRIER
73)	29500.0000-30000.0000	L,R	5M00G7D	Tx	48.80	17.90	6	5 MBD PSK,	DIGITAL CARRIER
74)	29500.0000-30000.0000	L,R	10M0G7D	Tx	48.80	14.90	6	10 MBD PSK,	DIGITAL CARRIER
75)	29500.0000-30000.0000	L,R	2M50G7D	Tx	48.80	20.90	6	2.5 MBD PSK,	DIGITAL CARRIER
76)	29500.0000-30000.0000	L,R	625KG7D	Tx	45.80	23.90	6	625 KBD PSK,	DIGITAL CARRIER
77)	29500.0000-30000.0000	L,R	1M25G7D	Tx	48.80	23.90	6	1.25 MBD PSK,	DIGITAL CARRIER
78)	28350.0000-29100.0000	L,R	5M00G7D	Tx	48.80	17.90	6	5 MBD PSK,	DIGITAL CARRIER
79)	28350.0000-29100.0000	L,R	10M0G7D	Tx	48.80	14.90	6	10 MBD PSK,	DIGITAL CARRIER
80)	28350.0000-29100.0000	L,R	2M50G7D	Tx	48.80	20.90	6	2.5 MBD PSK,	DIGITAL CARRIER
81)	28350.0000-29100.0000	L,R	625KG7D	Tx	44.80	23.90	6	625 KBD PSK,	DIGITAL CARRIER
82)	28350.0000-29100.0000	L,R	1M25G7D	Tx	48.80	23.90	6	1.25 MBD PSK,	DIGITAL CARRIER



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83)	19700.0000-20200.0000	L,R	52M1G7D	Rx			6	52 MBD CARRIER	PSK, DIGITAL
84)	19700.0000-20200.0000	L,R	416MG7D	Rx			6	416 MBD CARRIER	PSK, DIGITAL
85)	18300.0000-19300.0000	L,R	52M1G7D	Rx			6	52 MBD CARRIER	PSK, DIGITAL
86)	18300.0000-19300.0000	L,R	416MG7D	Rx			6	416 MBD CARRIER	PSK, DIGITAL
87)	29500.0000-30000.0000	L,R	2M50G7D	Tx	48.80	20.90	7	2.5 MBD CARRIER	PSK, DIGITAL
88)	29500.0000-30000.0000	L,R	5M00G7D	Tx	48.80	17.90	7	5.0 MBD CARRIER	PSK, DIGITAL
89)	29500.0000-30000.0000	L,R	625KG7D	Tx	45.80	23.90	7	625 KBD CARRIER	PSK, DIGITAL
90)	29500.0000-30000.0000	L,R	10M0G7D	Tx	48.80	14.90	7	10.0 MBD CARRIER	PSK, DIGITAL
91)	29500.0000-30000.0000	L,R	1M25G7D	Tx	48.80	23.90	7	1.25 MBD CARRIER	PSK, DIGITAL
92)	28350.0000-29100.0000	L,R	2M50G7D	Tx	48.80	20.90	7	2.5 MBD CARRIER	PSK, DIGITAL
93)	28350.0000-29100.0000	L,R	5M00G7D	Tx	48.80	17.90	7	5.0 MBD CARRIER	PSK, DIGITAL
94)	28350.0000-29100.0000	L,R	625KG7D	Tx	45.80	23.90	7	625 KBD CARRIER	PSK, DIGITAL
95)	28350.0000-29100.0000	L,R	10M0G7D	Tx	48.80	14.90	7	10.0 MBD CARRIER	PSK, DIGITAL
96)	28350.0000-29100.0000	L,R	1M25G7D	Tx	48.80	23.90	7	1.25 MBD CARRIER	PSK, DIGITAL
97)	19700.0000-20200.0000	L,R	52M1G7D	Rx			7	52 MBD CARRIER	PSK, DIGITAL
98)	19700.0000-20200.0000	L,R	416MG7D	Rx			7	416 MBD CARRIER	PSK, DIGITAL
99)	18300.0000-19300.0000	L,R	52M1G7D	Rx			7	52 MBD CARRIER	PSK, DIGITAL
100)	18300.0000-19300.0000	L,R	416MG7D	Rx			7	416 MBD CARRIER	PSK, DIGITAL



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101)	29500.0000-30000.0000	L,R	5M00G7D	Tx	52.10	21.10	8		5 MBD PSK DIGITAL CARRIER
102)	29500.0000-30000.0000	L,R	10M0G7D	Tx	52.10	18.10	8		10 MBD PSK DIGITAL CARRIER
103)	29500.0000-30000.0000	L,R	2M50G7D	Tx	52.10	24.10	8		2.5 MBD PSK DIGITAL CARRIER
104)	29500.0000-30000.0000	L,R	1M25G7D	Tx	52.10	27.10	8		1250 KBD PSK DIGITAL CARRIER
105)	29500.0000-30000.0000	L,R	625KG7D	Tx	49.10	27.10	8		625 KBD PSK KBD PSK DIGITAL CARRIER
106)	28350.0000-29100.0000	L,R	5M00G7D	Tx	52.10	21.10	8		5 MBD PSK DIGITAL CARRIER
107)	28350.0000-29100.0000	L,R	10M0G7D	Tx	52.10	18.10	8		10 MBD PSK DIGITAL CARRIER
108)	28350.0000-29100.0000	L,R	2M50G7D	Tx	52.10	24.10	8		2.5 MBD PSK DIGITAL CARRIER
109)	28350.0000-29100.0000	L,R	625KG7D	Tx	49.10	27.10	8		625 KBD PSK DIGITAL CARRIER
110)	28350.0000-29100.0000	L,R	1M25G7D	Tx	52.10	27.10	8		1250 KBD PSK DIGITAL CARRIER
111)	19700.0000-20200.0000	L,R	416MG7D	Rx			8		416 MBD PSK DIGITAL CARRIER
112)	19700.0000-20200.0000	L,R	52M1G7D	Rx			8		52.1 MBD PSK DIGITAL CARRIER
113)	18300.0000-19300.0000	L,R	52M1G7D	Rx			8		52.1 MBD PSK DIGITAL CARRIER

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)	29500.0000-30000.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-25.1	1
2)	28350.0000-29100.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-25.1	1
3)	18300.0000-19300.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		1
4)	19700.0000-20200.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		1
5)	29500.0000-30000.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-25.1	2



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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		
6)	28350.0000-29100.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-25.1	2
7)	18300.0000-19300.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		2
8)	19700.0000-20200.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		2
9)	18300.0000-19300.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	0	8
10)	19700.0000-20200.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		8
11)	28350.0000-29100.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-18.1	8
12)	29500.0000-30000.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-18.1	8
13)	29500.0000-30000.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-20.4	3
14)	28350.0000-29100.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-20.4	3
15)	18300.0000-19300.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		3
16)	19700.0000-20200.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		3
17)	29500.0000-30000.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-20.2	4
18)	28350.0000-29100.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-20.2	4
19)	18300.0000-19300.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		4
20)	19700.0000-20200.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		4
21)	29500.0000-30000.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-20.4	5
22)	28350.0000-29100.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-20.4	5
23)	18300.0000-19300.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		5
24)	19700.0000-20200.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		5
25)	18300.0000-19300.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		6
26)	19700.0000-20200.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		6
27)	28350.0000-29100.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-25.1	6
28)	29500.0000-30000.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-25.1	6
29)	18300.0000-19300.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		7
30)	19700.0000-20200.0000	111.1W	115.1W	30.5	19.5	108.0	235.5		7
31)	28350.0000-29100.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-25.1	7
32)	29500.0000-30000.0000	111.1W	115.1W	30.5	19.5	108.0	235.5	-25.1	7

D) Points of Communications

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

- 1) 1 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 2) 1 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 3) 1 to VIASAT-1 (S2747) @ 115.1° W.L. (U.S.-licensed)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: ViaSat, Inc.

Call Sign: E120071

Authorization Type: Modification of License

File Number: SES-MOD-20150819-00532

Non Common Carrier

Grant date: 10/22/2015

Expiration Date: 06/04/2027

D) Points of Communications

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

- 4) 2 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 5) 2 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 6) 2 to VIASAT-1 (S2747) @ 115.1° W.L. (U.S.-licensed)
- 7) 8 to VIASAT-1 (S2747) @ 115.1° W.L. (U.S.-licensed)
- 8) 8 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 9) 8 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 10) 3 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 11) 3 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 12) 3 to VIASAT-1 (S2747) @ 115.1° W.L. (U.S.-licensed)
- 13) 4 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 14) 4 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 15) 4 to VIASAT-1 (S2747) @ 115.1° W.L. (U.S.-licensed)
- 16) 5 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 17) 5 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 18) 5 to VIASAT-1 (S2747) @ 115.1° W.L. (U.S.-licensed)
- 19) 6 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 20) 6 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 21) 6 to VIASAT-1 (S2747) @ 115.1° W.L. (U.S.-licensed)
- 22) 7 to VIASAT-1 (S2747) @ 115.1° W.L. (U.S.-licensed)
- 23) 7 to Wildblue-1 (S2355) @ 109.2 ° W.L.(U.S.-licensed)
- 24) 7 to ANIK-F2 (S2742) @ 111.1 degrees 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)
1	1	50000	0.745	ViaSat, Inc.	SNG-1		0 AGL/ 0 AMSL	
Max Gains(s):		40.1 dBi @	18.3000 GHz	40.4 dBi @	20.2000 GHz	43.9 dBi @		
		28.3500 GHz	44.5 dBi @	30.0000 GHz				
Maximum total input power at antenna flange (Watts) =					2.80			
Maximum aggregate output EIRP for all carriers (dBW) =					48.80			



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Non Common Carrier

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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)
2	2	20000	1.23	AVL	120K			
Max Gains(s): 45.4 dBi @ 18.3000 GHz 45.7 dBi @ 19.7000 GHz 45.8 dBi @ 19.3000 GHz 46.0 dBi @ 20.2000 GHz 48.9 dBi @ 28.3500 GHz 49.5 dBi @ 29.1000 GHz 49.8 dBi @ 29.5000 GHz 49.8 dBi @ 30.0000 GHz								
Maximum total input power at antenna flange (Watts) = 2.80								
Maximum aggregate output EIRP for all carriers (dBW) = 54.30								
3	3	20000	1.23	AVL	1280KFH			
Max Gains(s): 49.6 dBi @ 30.0000 GHz 44.8 dBi @ 18.3000 GHz 45.1 dBi @ 19.3000 GHz 45.2 dBi @ 19.7000 GHz 45.5 dBi @ 20.2000 GHz 48.8 dBi @ 29.1000 GHz 49.0 dBi @ 29.5000 GHz 48.6 dBi @ 28.3500 GHz								
Maximum total input power at antenna flange (Watts) = 2.80								
Maximum aggregate output EIRP for all carriers (dBW) = 54.10								
4	4	20000	1.23	AVL	880KFH			
Max Gains(s): 46.8 dBi @ 30.0000 GHz 42.0 dBi @ 18.3000 GHz 42.6 dBi @ 20.2000 GHz 46.0 dBi @ 28.3500 GHz								
Maximum total input power at antenna flange (Watts) = 2.80								
Maximum aggregate output EIRP for all carriers (dBW) = 51.30								
5	5	20000	1.23	AVL	880KFH			
Max Gains(s): 46.8 dBi @ 30.0000 GHz 42.1 dBi @ 18.3000 GHz 42.6 dBi @ 20.2000 GHz 46.0 dBi @ 28.3500 GHz								
Maximum total input power at antenna flange (Watts) = 2.80								
Maximum aggregate output EIRP for all carriers (dBW) = 51.30								
6	6	50000	0.745	WINEGARD	WV750A			
Max Gains(s): 44.5 dBi @ 30.0000 GHz 43.9 dBi @ 28.3500 GHz 40.1 dBi @ 18.3000 GHz 40.4 dBi @ 20.2000 GHz								
Maximum total input power at antenna flange (Watts) = 2.80								
Maximum aggregate output EIRP for all carriers (dBW) = 48.80								
7	7	50000	0.745	C-COM SATELLITE SYSTEMS INC.	FLY-75V			
Max Gains(s): 40.1 dBi @ 18.3000 GHz 40.4 dBi @ 20.2000 GHz 44.5 dBi @ 30.0000 GHz 43.9 dBi @ 28.3500 GHz								
Maximum total input power at antenna flange (Watts) = 2.80								
Maximum aggregate output EIRP for all carriers (dBW) = 48.80								



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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)
8	8	50000	1	SAT-LITE	1156KA			
Max Gains(s): 45.2 dBi @ 20.2000 GHz 47.6 dBi @ 30.0000 GHz 44.6 dBi @ 18.3000 GHz 44.7 dBi @ 19.3000 GHz 47.3 dBi @ 29.1000 GHz 47.1 dBi @ 28.3500 GHz								
Maximum total input power at antenna flange (Watts) =					2.80			
Maximum aggregate output EIRP for all carriers (dBW) =					52.10			

F) Remote Control Point:

1	5970 SOUTH GREENWOOD PLAZA BLV. GREENWOOD VILLAGE, ARAPAHOE, CO 80111 720-554-7575	Call Sign:
2	5970 SOUTH GREENWOOD PLAZA BLV. GREENWOOD VILLAGE, ARAPAHOE, CO 80111 720-554-7575	Call Sign:
3	5970 SOUTH GREENWOOD PLAZA BLV. GREENWOOD VILLAGE, ARAPAHOE, CO 80111 720-554-7575	Call Sign:
4	5970 SOUTH GREENWOOD PLAZA BLV. GREENWOOD VILLAGE, ARAPAHOE, CO 80111 720-554-7575	Call Sign:
5	5970 SOUTH GREENWOOD PLAZA BLV. GREENWOOD VILLAGE, ARAPAHOE, CO 80111 720-554-7575	Call Sign:
6	5970 SOUTH GREENWOOD PLAZA BLV. GREENWOOD VILLAGE, ARAPAHOE, CO 80111 720-554-7575	Call Sign:



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F) Remote Control Point:

-
- | | | |
|---|---|------------|
| 7 | 5970 SOUTH GREEN WOOD PLAZA BLV.
GREENWOOD VILLAGE, ARAPAHOE, CO 80111
720-554-7575 | Call Sign: |
| 8 | 5970 SOUTH GREENWOOD PLAZA BLV.
GREENWOOD VILLAGE, ARAPAHOE, CO 80111
720-554-7575 | Call Sign: |

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:
- 1010 --- Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive operations.
 - 1129 --- GSO Earth station operations in the 18.8-19.3 GHz band shall not claim protection from any current or future authorized non-Federal NGSO FSS system that VIASAT has not reached a coordination arrangement with; and, any authorized Federal GSO FSS or NGSO FSS system that VIASAT has not reached a coordination arrangement with
 - 1133 --- Earth station operations must protect primary NGSO/FSS service from interference in the 28.6-29.1 GHz (Earth-to-space).
 - 1900 --- Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.
 - 2010 --- This authorization is issued pursuant to the Commission's Second Report and Order adopted June 16, 1972 (35 FCC 2d 844) and Memorandum, Opinion and Order adopted December 21, 1972 (38 FCC 2d 665) in Docket No. 16495 and is subject to the policies adopted in that proceeding.



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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:

- 2300 --- Authority is granted to operate this station by remote control provided that: (1) the parameters of the transmissions of this station monitored at the remote control point, and the operational functions sufficient to ensure that the operations of this station are in full compliance with the station authorization at all times; (2) upon detection by the grantee, or upon notification from the Commission, of a deviation of the operation of this station, transmissions shall be immediately suspended until the deviation is corrected, except that transmissions concerning the immediate safety of life or property may be conducted for the duration of such emergency; and (3) the grantee shall have available, at all times, the technical personnel necessary to perform the technical servicing and maintenance of this station expeditiously. See also Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points", DA 06-978 (rel. May 4, 2006).
- 2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
- 2938 --- Upon completion of construction, each licensee must file with the Commission a certification including the following information: (1) name of the licensee, (2) file number of the application, (3) call sign of the antenna, (4) date of the license, (5) certification that the facility as authorized has been completed, (6) certification that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209, and (7) certification that the station is operational (including the date of commencement of service) and will remain operational during the license period unless the license is submitted for cancellation.
- 3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).
- 5216 --- All operations shall be on a non-common carrier basis.
- 6568 --- GSO Earth station operations in the 18.8-19.3 GHz band shall not claim protection from any current or future authorized non-Federal NGSO FSS system that it has not reached a coordination arrangement with or any current or future authorized Federal GSO FSS network or Federal NGSO FSS system.
- 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.
- 90239 --- Communications to space station Viasat-1(S2747) at orbital location 115.1 degrees W.L. will be on frequencies: 28.35-29.1 GHz, 29.5-30.0 GHz (Earth-to-space) and 18.3-19.3 GHz, 19.7-20.2 GHz (space-to-Earth).
- 90242 --- Communications to space stations WildBlue 1 (S2355) at orbital location 111.1 degrees W.L. and Anik-F2 (S2742) at orbital location 111.1 degrees W.L. on frequencies 29.5-30.0 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) to provide service in the U.S.



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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 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 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.