



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Viasat, Inc.

Call Sign: E050033

Authorization Type: Renewal of License

File Number: SES-RWL-20200219-00168

Non Common Carrier

Grant date: 08/03/2020

Expiration Date: 04/26/2035

Nature of Service: Fixed Satellite Service

Class of Station: Other

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	WB1000-C	(500,000 0.7m antennas) CONUS,	0°0'0.0"N	0°0'0.0"W	0	27
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
2)	WB1000-C2	(200,000 .38 cm antennas) CONUS				27
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
3)	WB1000-C3	(1,000,000 .7 cm antennas) CONUS,				27
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
4)	WB1000-C4	(100,000 .98 cm antennas) CONUS,				27
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
5)	WB1000-S2	(1,000,000: 0.745 METER ANTENNAS) CONUS,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
6)	WB1000-TF2	(1,000 0.7m antennas) CONUS,				27
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				



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A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
7)	WB1000-TF3	(10,000 .7cm antennas) CONUS,				27

Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.

8)	WB1000-TF4	(10,000 .98 cm antennas) CONUS,				27
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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 April 26, 2020 (3 AM Eastern Standard Time) and ending April 26, 2035 (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)	29500.0000-30000.0000	L,R	1M60G7W	Tx	46.30	20.30	WB1000C2	1280 KSPS	QPSK, Digital Carrier
2)	29500.0000-30000.0000	L,R	3M20G7W	Tx	46.30	17.20	WB1000C2	2560 KSPS	QPSK, Digital Carrier
3)	29500.0000-30000.0000	L,R	1M60G7W	Tx	41.00	25.90	WB1000C2	1280 KSPS	QPSK, Digital Carrier (normal clear sky conditions)
4)	29500.0000-30000.0000	L,R	400KG7W	Tx	46.30	26.30	WB1000C2	320 KSPS	QPSK, Digital Carrier (used under rain fade conditions only)



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5)	29500.0000-30000.0000	L,R	400KG7W	Tx	46.30	37.20	WB1000C2		320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
6)	29500.0000-30000.0000	L,R	800KG7W	Tx	46.30	23.30	WB1000C2		640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
7)	29500.0000-30000.0000	L,R	800KG7W	Tx	46.30	34.20	WB1000C2		640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
8)	29500.0000-30000.0000	L,R	200KG7W	Tx	46.30	29.30	WB1000C2		160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
9)	29500.0000-30000.0000	L,R	200KG7W	Tx	46.30	40.30	WB1000C2		160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
10)	19700.0000-20200.0000	L,R	18M0G7W	Rx	0.00	0.00	WB1000C2		15 MSPS 8PSK Digital Carrier
11)	19700.0000-20200.0000	L,R	27M0G7W	Rx	0.00	0.00	WB1000C2		22.5 MSPS 8PSK, Digital Carrier
12)	29500.0000-30000.0000	L,R	1M60G7W	Tx	47.00	21.00	WB1000C3		1280 KSPS QPSK, Digital Carrier
13)	29500.0000-30000.0000	L,R	3M20G7W	Tx	47.00	17.90	WB1000C3		2560 KSPS QPSK, Digital Carrier
14)	29500.0000-30000.0000	L,R	1M60G7W	Tx	41.00	25.90	WB1000C3		1280 KSPS QPSK, Digital Carrier (normal clear sky conditions)
15)	29500.0000-30000.0000	L,R	200KG7W	Tx	47.00	30.00	WB1000C3		160 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
16)	29500.0000-30000.0000	L,R	200KG7W	Tx	47.00	40.60	WB1000C3		160 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
17)	29500.0000-30000.0000	L,R	400KG7W	Tx	47.00	27.00	WB1000C3		320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
18)	29500.0000-30000.0000	L,R	400KG7W	Tx	47.00	37.90	WB1000C3		320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)



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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
19)	29500.0000-30000.0000	L,R	800KG7W	Tx	47.00	24.00	WB1000C3		640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
20)	29500.0000-30000.0000	L,R	800KG7W	Tx	47.00	34.90	WB1000C3		640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
21)	19700.0000-20200.0000	L,R	18M0G7W	Rx	0.00	0.00	WB1000C3		15 MSPS QPSK, Digital Carrier
22)	19700.0000-20200.0000	L,R	27M0G7W	Rx	0.00	0.00	WB1000C3		22.5 MSPS 8PSK, Digital Carrier
23)	29500.0000-30000.0000	L,R	1M60G7W	Tx	50.00	24.00	WB1000C4		1280 KSPS QPSK Digital Carrier
24)	29500.0000-30000.0000	L,R	3M20G7W	Tx	50.00	20.90	WB1000C4		2560 KSPS QPSK Digital Carrier
25)	29500.0000-30000.0000	L,R	400KG7W	Tx	50.00	30.00	WB1000C4		320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
26)	29500.0000-30000.0000	L,R	800KG7W	Tx	50.00	27.00	WB1000C4		640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
27)	29500.0000-30000.0000	L,R	200KG7W	Tx	50.00	33.00	WB1000C4		160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
28)	19700.0000-20200.0000	L,R	18M0G7W	Rx			WB1000C4		15 MSPS 8PSK Carrier
29)	19700.0000-20200.0000	L,R	27M0G7W	Rx			WB1000C4		22.5 MSPS 8PSK Carrier
30)	29500.0000-30000.0000	L,R	5M00G7W	Tx	48.80	17.90	WB1000S2		5 MBD PSK, DIGITAL CARRIER
31)	29500.0000-30000.0000	L,R	1M60G7W	Tx	48.80	22.80	WB1000S2		1.6 MBD PSK, DIGITAL CARRIER
32)	29500.0000-30000.0000	L,R	2M50G7W	Tx	48.80	20.90	WB1000S2		2.5 MBD PSK, DIGITAL CARRIER
33)	29500.0000-30000.0000	L,R	3M20G7W	Tx	48.80	19.80	WB1000S2		3.2 MBD PSK, DIGITAL CARRIER
34)	29500.0000-30000.0000	L,R	625KG7W	Tx	45.90	24.00	WB1000S2		625 KBD PSK, DIGITAL CARRIER
35)	29500.0000-30000.0000	L,R	800KG7W	Tx	48.80	25.80	WB1000S2		800 KBD PSK, DIGITAL CARRIER



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36)	29500.0000-30000.0000	L, R	1M25G7W	Tx	48.80	23.90	WB1000S2		1.25 MBD PSK, DIGITAL CARRIER
37)	29500.0000-30000.0000	L, R	3M20G7W	Tx	47.00	17.90	WB1000S2		2560 KBD QPSK DIGITAL CARRIER
38)	29500.0000-30000.0000	L, R	1M60G7W	Tx	47.00	21.00	WB1000S2		1280 KBD QPSK, DIGITAL CARRIER
39)	29500.0000-30000.0000	L, R	400KG7W	Tx	47.00	27.00	WB1000S2		320 KBD QPSK, DIGITAL CARRIER (USED UNDER RAIN FADE CONDITIONS ONLY)
40)	29500.0000-30000.0000	L, R	800KG7W	Tx	47.00	24.00	WB1000S2		640 KBD QPSK, DIGITAL CARRIER (USED UNDER RAIN FADE CONDITIONS ONLY)
41)	19700.0000-20200.0000	L, R	18M0G7W	Rx			WB1000S2		15 MSPS 8 PSK Carrier
42)	19700.0000-20200.0000	L, R	27M0G7W	Rx			WB1000S2		22.5 MSPS 8 PSK Carrier
43)	19700.0000-20200.0000	L, R	52M1G7W	Rx			WB1000S2		52 MBD PSK, DIGITAL CARRIER
44)	29500.0000-30000.0000	L, R	5M00G7W	Tx	48.80	17.90	WB1000S2B		5 MBD PSK, DIGITAL CARRIER
45)	29500.0000-30000.0000	L, R	1M60G7W	Tx	48.80	22.80	WB1000S2B		1.6 MBD PSK, DIGITAL CARRIER
46)	29500.0000-30000.0000	L, R	2M50G7W	Tx	48.80	20.90	WB1000S2B		2.5 MBD PSK, DIGITAL CARRIER
47)	29500.0000-30000.0000	L, R	3M20G7W	Tx	48.80	19.80	WB1000S2B		3.2 MBD PSK, DIGITAL CARRIER
48)	29500.0000-30000.0000	L, R	400KG7W	Tx	47.00	27.00	WB1000S2B		400 KBD PSK, DIGITAL CARRIER
49)	29500.0000-30000.0000	L, R	625KG7W	Tx	45.90	24.00	WB1000S2B		625 KBD PSK, DIGITAL CARRIER
50)	29500.0000-30000.0000	L, R	800KG7W	Tx	48.80	25.80	WB1000S2B		800 KBD PSK, DIGITAL CARRIER
51)	29500.0000-30000.0000	L, R	1M25G7W	Tx	48.80	23.90	WB1000S2B		1.25 MBD PSK, DIGITAL CARRIER
52)	19700.0000-20200.0000	L, R	52M1G7W	Rx			WB1000S2B		52 MBD PSK, DIGITAL CARRIER
53)	29500.0000-30000.0000	L, R	1M60G7W	Tx	46.30	20.30	WB1000TF2		1280 KSPS QPSK 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
54)	29500.0000-30000.0000	L,R	3M20G7W	Tx	46.30	17.20	WB1000TF2		2560 KSPS QPSK, Digital Carrier
55)	29500.0000-30000.0000	L,R	1M60G7W	Tx	41.00	25.90	WB1000TF2		1280 KSPS QPSK, Digital Carrier (normal clear sky conditions)
56)	29500.0000-30000.0000	L,R	400KG7W	Tx	46.30	26.30	WB1000TF2		320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
57)	29500.0000-30000.0000	L,R	400KG7W	Tx	46.30	37.20	WB1000TF2		320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
58)	29500.0000-30000.0000	L,R	800KG7W	Tx	46.30	23.30	WB1000TF2		640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
59)	29500.0000-30000.0000	L,R	800KG7W	Tx	46.30	34.20	WB1000TF2		640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
60)	29500.0000-30000.0000	L,R	200KG7W	Tx	46.30	29.30	WB1000TF2		160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
61)	29500.0000-30000.0000	L,R	200KG7W	Tx	46.30	40.30	WB1000TF2		160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
62)	19700.0000-20200.0000	L,R	18M0G7W	Rx			WB1000TF2		15 MSPS 8PSK Digital Carrier
63)	19700.0000-20200.0000	L,R	27M0G7W	Rx			WB1000TF2		22.5 MSPS 8PSK, Digital Carrier
64)	29500.0000-30000.0000	L,R	1M60G7W	Tx	47.00	21.00	WB1000TF3		1280 KSPS QPSK Digital Carrier
65)	29500.0000-30000.0000	L,R	3M20G7W	Tx	47.00	17.90	WB1000TF3		2560 KSPS QPSK, Digital Carrier
66)	29500.0000-30000.0000	L,R	1M60G7W	Tx	41.00	25.90	WB1000TF3		1280 KSPS QPSK, Digital Carrier (normal clear sky conditions)
67)	29500.0000-30000.0000	L,R	400KG7W	Tx	47.00	27.00	WB1000TF3		320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)



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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
68)	29500.0000-30000.0000	L,R	400KG7W	Tx	47.00	37.90	WB1000TF3		320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
69)	29500.0000-30000.0000	L,R	800KG7W	Tx	47.00	24.00	WB1000TF3		640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
70)	29500.0000-30000.0000	L,R	800KG7W	Tx	47.00	34.90	WB1000TF3		640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
71)	29500.0000-30000.0000	L,R	200KG7W	Tx	47.00	30.00	WB1000TF3		160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
72)	29500.0000-30000.0000	L,R	200KG7W	Tx	47.00	40.60	WB1000TF3		160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
73)	19700.0000-20200.0000	L,R	18M0G7W	Rx			WB1000TF3		15 MSPS 8PSK Digital Carrier
74)	19700.0000-20200.0000	L,R	27M0G7W	Rx			WB1000TF3		22.5 MSPS 8PSK, Digital Carrier
75)	29500.0000-30000.0000	L,R	1M60G7W	Tx	50.00	24.00	WB1000TF4		1280 KSPS QPSK Digital Carrier
76)	29500.0000-30000.0000	L,R	3M20G7W	Tx	50.00	20.90	WB1000TF4		2560 KSPS QPSK Digital Carrier
77)	29500.0000-30000.0000	L,R	400KG7W	Tx	50.00	30.00	WB1000TF4		320 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
78)	29500.0000-30000.0000	L,R	800KG7W	Tx	50.00	27.00	WB1000TF4		640 KSPS QPSK, Digital Carrier (used under rain fade conditions only)
79)	29500.0000-30000.0000	L,R	200KG7W	Tx	50.00	33.00	WB1000TF4		160 KSPS QPSK , Digital Carrier (used under rain fade conditions only)
80)	19700.0000-20200.0000	L,R	18M0G7W	Rx			WB1000TF4		15 MSPS 8 PSK Carrier
81)	19700.0000-20200.0000	L,R	27M0G7W	Rx			WB1000TF4		22.5 MSPS 8 PSK Carrier



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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)	19700.0000-20200.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9	0	WB1000C2
2)	29500.0000-30000.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9	-16	WB1000C2
3)	19700.0000-20200.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9	0	WB1000C3
4)	29500.0000-30000.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9	-14.7	WB1000C3
5)	19700.0000-20200.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9		WB1000TF2
6)	29500.0000-30000.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9	-16	WB1000TF2
7)	19700.0000-20200.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9		WB1000TF3
8)	29500.0000-30000.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9	-14.7	WB1000TF3
9)	29500.0000-30000.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9	-20	WB1000C4
10)	19700.0000-20200.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9		WB1000C4
11)	19700.0000-20200.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9		WB1000TF4
12)	29500.0000-20200.0000	109.2W	-111.1W	23.0	-21.5	159.3	-231.9	-20	WB1000TF4
13)	19700.0000-20200.0000	85.0W	-111.1W	23.6	-21.5	128.8	-234.0		WB1000S2
14)	29500.0000-30000.0000	85.0W	-111.1W	23.6	-21.5	128.8	-234.0	-14.7	WB1000S2
15)	19700.0000-20200.0000	85.0W	-111.1W	23.6	-21.5	128.8	-234.0		WB1000S2B
16)	29500.0000-30000.0000	85.0W	-111.1W	23.6	-21.5	128.8	-234.0	-14.7	WB1000S2B

D) Points of Communications

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

- 1) WB1000-C to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 2) WB1000-C to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 3) WB1000-C to AMC 16 (S2181) @ 85 degrees W.L. (U.S.-licensed)
- 4) WB1000-C to AMC-15 (S2180) @ 105.05 degrees W.L.(U.S.-licensed)
- 5) WB1000-TF2 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 6) WB1000-TF2 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 7) WB1000-TF2 to AMC 16 (S2181) @ 85 degrees W.L. (U.S.-licensed)
- 8) WB1000-TF2 to AMC-15 (S2180) @ 105.05 degrees W.L.(U.S.-licensed)
- 9) WB1000-C4 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 10) WB1000-C4 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 11) WB1000-C4 to AMC 16 (S2181) @ 85 degrees W.L. (U.S.-licensed)
- 12) WB1000-C4 to AMC-15 (S2180) @ 105.05 degrees W.L.(U.S.-licensed)
- 13) WB1000-TF4 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 14) WB1000-TF4 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)



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Authorization Type: Renewal of License

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Non Common Carrier

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D) Points of Communications

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

- 15) WB1000-TF4 to AMC 16 (S2181) @ 85 degrees W.L. (U.S.-licensed)
- 16) WB1000-TF4 to AMC-15 (S2180) @ 105.05 degrees W.L.(U.S.-licensed)
- 17) WB1000-TF3 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 18) WB1000-TF3 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 19) WB1000-TF3 to AMC 16 (S2181) @ 85 degrees W.L. (U.S.-licensed)
- 20) WB1000-TF3 to AMC-15 (S2180) @ 105.05 degrees W.L.(U.S.-licensed)
- 21) WB1000-C2 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 22) WB1000-C2 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 23) WB1000-C2 to AMC 16 (S2181) @ 85 degrees W.L. (U.S.-licensed)
- 24) WB1000-C2 to AMC-15 (S2180) @ 105.05 degrees W.L.(U.S.-licensed)
- 25) WB1000-C3 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 26) WB1000-C3 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 27) WB1000-C3 to AMC 16 (S2181) @ 85 degrees W.L. (U.S.-licensed)
- 28) WB1000-C3 to AMC-15 (S2180) @ 105.05 degrees W.L.(U.S.-licensed)
- 29) WB1000-S2 to AMC-15 (S2180) @ 105.05 degrees W.L.(U.S.-licensed)
- 30) WB1000-S2 to ANIK-F2 (S2742) @ 111.1 degrees W.L. (Canada-licensed)
- 31) WB1000-S2 to AMC 16 (S2181) @ 85 degrees W.L. (U.S.-licensed)
- 32) WB1000-S2 to WildBlue-1 (S2355) @ 111.1° W.L. (Canada-licensed)
- 33) WB1000-S2 to Permitted Space Station List

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)
WB1000-C	WB1000C2	200000	0.7	Raven Manufacturing	WB1000-002	0	0 AGL/ 0 AMSL	
		Max Gains(s):	41.8 dBi @	30.0000 GHz	39.0 dBi @	20.2000 GHz		
		Maximum total input power at antenna flange (Watts) =				2.80		
		Maximum aggregate output EIRP for all carriers (dBW) =				46.30		
WB1000-C	WB1000C3	1000000	0.7	Raven Manufacturing	WB1000-003	0	0 AGL/ 0 AMSL	
		Max Gains(s):	42.5 dBi @	30.0000 GHz	39.4 dBi @	20.2000 GHz		
		Maximum total input power at antenna flange (Watts) =				2.80		
		Maximum aggregate output EIRP for all carriers (dBW) =				47.00		



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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)
WB1000-C4	WB1000C4	100000	0.98	Raven Manufacturing	WB1098-003			
Max Gains(s):		42.5 dBi @	20.2000 GHz	45.5 dBi @	30.0000 GHz			
Maximum total input power at antenna flange (Watts) =				2.80				
Maximum aggregate output EIRP for all carriers (dBW) =				50.00				
WB1000-S2	WB1000S2	1000000	0.745	VIASAT, INC.	RA40750			
Max Gains(s):		40.4 dBi @	20.2000 GHz	40.3 dBi @	19.7000 GHz	44.5 dBi @		
		29.5000 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				
WB1000-S2	WB1000S2B	1000000	0.745	VIASAT, INC.	RA40750			
Max Gains(s):		40.3 dBi @	19.7000 GHz	40.4 dBi @	20.2000 GHz	44.5 dBi @		
		29.5000 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				
WB1000-C	WB1000TF2	500	0.7	Raven Manufacturing	WB1000TF2	0		
Max Gains(s):		39.0 dBi @	20.2000 GHz	41.8 dBi @	30.0000 GHz			
Maximum total input power at antenna flange (Watts) =				2.80				
Maximum aggregate output EIRP for all carriers (dBW) =				46.30				
WB1000-C	WB1000TF3	10000	0.7	Raven Manufacturing	WB1000TF3	0		
Max Gains(s):		39.4 dBi @	20.2000 GHz	42.5 dBi @	30.0000 GHz			
Maximum total input power at antenna flange (Watts) =				2.80				
Maximum aggregate output EIRP for all carriers (dBW) =				47.00				
WB1000-TF4	WB1000TF4	10000	0.98	Raven Manufacturing	WB1098-003			
Max Gains(s):		42.5 dBi @	20.2000 GHz	45.5 dBi @	30.0000 GHz			
Maximum total input power at antenna flange (Watts) =				2.80				
Maximum aggregate output EIRP for all carriers (dBW) =				50.00				



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F) Remote Control Point:

WB1000-C	5970 Greenwood Plaza Boulevard, Suite 300 Greenwood Village, Arapahoe, CO 80111 720-554-7400	Call Sign: N/A
WB1000-C4	5970 Greenwood Plaza Boulevard, Suite 300 Greenwood Village, Arapahoe, CO 80111 720-554-7575	Call Sign:
WB1000-S2	5970 SOUTH GREENWOOD PLAZA BOULEVARD, SUITE 300 GREENWOOD VILLAGE, ARAPAHOE, CO 80111 720-554-7575	Call Sign:
WB1000-TF2	5970 Greenwood Plaza Boulevard, Suite 300 Greenwood Village, Arapahoe, CO 80111 720-554-7400	Call Sign:
WB1000-TF4	5970 Greenwood Plaza Boulevard, Suite 300 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:

- 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.



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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:

- 102 --- 24 Hour Contact: Applicant has provided the name and telephone number of a contact person in the United States, available seven days a week, twenty-four hours a day, for cessation of emissions from suspected source of interference in the event of need to resolve interference issues, on direction from authority with jurisdiction for licensing in the area of operation.
- 251 --- The Wildblue-1 space station must be constructed, launched, and placed into operation in accordance with the technical parameters set forth in its application and amendments and terms and conditions of this authorization by these specified dates:
- a. Execute a binding contract for construction by Oct. 10, 2007;
 - b. Complete the Critical Design Review by Oct. 10, 2008;
 - c. Commence construction by Oct. 10, 2009;
 - d. Launch and begin operations by Oct. 10, 2011;

WB Holdings 1 must post a \$3 million bond with the Commission, pursuant to the procedures set forth in Public Notice, DA 03-2603, 18 FCC Rcd 16283 (2003), within 30 days following the Public Notice announcing the re-issuance of this license. Failure to meet any of these dates shall render this authorization null and void without any further action by the Commission. See 47 C.F.R. §§ 25.161 and 25.164.

- 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.
- 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.
- 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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H) Special and General Provisions

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

90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above these levels must coordinate with satellite operators prior to operations.

900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

- 3600-4200 MHz (space-to-Earth)
- 5850-6725 MHz (Earth-to-space)
- 10.95-11.2 GHz (space-to-Earth)
- 11.45-12.2 GHz (space-to-Earth)
- 13.75-14.5 GHz (Earth-to-space)
- 18.3-18.8 GHz (space-to-Earth)
- 19.7-20.2 GHz (space-to-Earth)
- 24.75-25.25 GHz (Earth-to-space)
- 28.35-28.6 GHz (Earth-to-space)
- 29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.



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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.