

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION
Current Authorization : FCC WEB Reproduction
 Unofficial Copy

Name: VSAT SYSTEMS, LLC

Call Sign: E090086
File Number: SES-MOD-20120229-00267

Authorization Type: Modification of License
Non Common Carrier **Grant Date:** 08/07/2012 **Expiration Date:** 07/28/2024

Nature of Service: Fixed Satellite Service

Class of Station: VSAT Network

A) Site Location(s)

# Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1) Remote 4	157 UNITS, (1.0m Remotes) VARIOUS LOCATIONS THROUGHOUT CONUS, AK, HI				NA	
	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) Remote 5	384 UNITS, (1.2m Remotes) VARIOUS LOCATIONS THROUGHOUT CONUS, AK, HI				NA	
	Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
3) Remote 6	945 UNITS, (1.2m Remotes) VARIOUS LOCATIONS THROUGHOUT CONUS, AK, HI				NA	
	Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
4) Remote 2	40 UNITS, (.95m Remotes) VARIOUS LOCATIONS THROUGHOUT CONUS, AK, HI				NA	
	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.					
5) Remote 3	99 UNITS, (.98m Remotes) VARIOUS LOCATIONS THROUGHOUT CONUS, AK, HI				NA	
	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.					
6) Remote 15	5 UNITS, (2.4m Remotes) VARIOUS LOCATIONS THROUGHOUT CONUS, AK, HI				NA	
	Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					



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7) Remote 12 87 UNITS, (1.8m Remotes)
 VARIOUS LOCATIONS
 THROUGHOUT
 CONUS, AK, HI NA

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

8) Remote 13 87 UNITS, (1.8m Remotes)
 VARIOUS LOCATIONS
 THROUGHOUT
 CONUS, AK, HI NA

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

9) Akron (6.3m Hub) 1520 S. ARLINGTON 41° 1' 51.5" N 81° 29' 33.2" W 348.0 83
 (6.3m Hub2)
 AKRON, SUMMIT, OH,
 44306

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

10) Akron (6.3m Hub) 1520 S. ARLINGTON 41° 1' 51.1" N 81° 29' 34.1" W 348.0 83
 (6.3m Hub3)
 AKRON, SUMMIT, OH,
 44306

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

11) Remote 1 220 UNITS (.75m Remotes)
 VARIOUS LOCATIONS
 THROUGHOUT
 CONUS, AK, HI NA

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.

12) Remote 7 745 UNITS, (1.2m Remotes)
 VARIOUS LOCATIONS
 THROUGHOUT
 CONUS, AK, HI NA

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

13) Remote 9 200 UNITS, (1.2m Remotes)
 VARIOUS LOCATIONS
 THROUGHOUT
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14) Remote 10 87 UNITS, (1.8m Remotes) NA
 VARIOUS LOCATIONS
 THROUGHOUT
 CONUS, AK, HI

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

15) Remote 11 87 UNITS, (1.8m Remotes) NA
 VARIOUS LOCATIONS
 THROUGHOUT
 CONUS, AK, HI

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

16) Remote 8 945 UNITS, (1.2m Remotes) NA
 VARIOUS LOCATIONS
 THROUGHOUT
 CONUS, AK, HI

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

17) Remote 14 5 UNITS, (2.4m Remotes) NA
 VARIOUS LOCATIONS
 THROUGHOUT
 CONUS, AK, HI

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

18) HUB4 1520 S. ARLINGTON 41° 1' 50.8" N 81° 29' 34.2" W 349.5 83
 (8.1m Hub4)
 AKRON, SUMMIT, OH,
 44306

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

19) HUB5 1520 S. ARLINGTON 41° 1' 50.6" N 81° 29' 33.3" W 349.5 83
 (8.1m Hub5)
 AKRON, SUMMIT, OH,
 44306

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

20) Akron (6.3m 1520 S. ARLINGTON 41° 1' 51.5" N 81° 29' 33.7" W 348.0 83
 Hub)
 (6.3m Hub1)
 AKRON, SUMMIT, OH,
 44306

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 Tuesday, July 28, 2009 (3 AM Eastern Standard Time) and ending Sunday, July 28, 2024 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is Wednesday, August 07, 2013 (3 AM Eastern Standard Time). Grantee must file with the Commission a certification upon completion of construction and commencement of operation.



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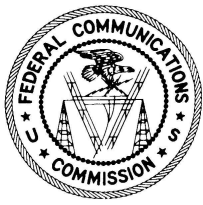
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B) Particulars of Operations

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	Polarization	Emission	Tx/Rx Mode	Max EIRP /Carrier	Max EIRP Density	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	14000.0000 - 14500.0000	H,V	12M0G7W	T	77.50	42.70	Hub 1	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
2)	14000.0000 - 14500.0000	H,V	2M60G7W	T	71.60	43.50	Hub 1	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
3)	11700.0000 - 12200.0000	H,V	2M00G7W	R			Hub 1	DIGITAL AUDIO AND DATA, 8PSK	
4)	11700.0000 - 12200.0000	H,V	300KG7W	R			Hub 1	DIGITAL AUDIO AND DATA, 8PSK	
5)	14000.0000 - 14500.0000	H,V	12M0G7W	T	77.50	42.70	Hub 2	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
6)	14000.0000 - 14500.0000	H,V	2M60G7W	T	71.60	43.50	Hub 2	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
7)	11700.0000 - 12200.0000	H,V	2M00G7W	R			Hub 2	DIGITAL AUDIO AND DATA, 8PSK	
8)	11700.0000 - 12200.0000	H,V	300KG7W	R			Hub 2	DIGITAL AUDIO AND DATA, 8PSK	
9)	14000.0000 - 14500.0000	H,V	12M0G7W	T	77.50	42.70	Hub 3	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
10)	14000.0000 - 14500.0000	H,V	2M60G7W	T	71.60	43.50	Hub 3	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
11)	11700.0000 - 12200.0000	H,V	2M00G7W	R			Hub 3	DIGITAL AUDIO AND DATA, 8PSK	
12)	11700.0000 - 12200.0000	H,V	300KG7W	R			Hub 3	DIGITAL AUDIO AND DATA, 8PSK	
13)	14000.0000 - 14500.0000	V	12M0G7W	T	79.70	44.91	Hub 4	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
14)	11700.0000 - 12200.0000	H	1M50G7W	R			Hub 4	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
15)	14000.0000 - 14500.0000	V	12M0G7W	T	79.70	44.91	Hub 5	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
16)	11700.0000 - 12200.0000	H	1M50G7W	R			Hub 5	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
17)	14000.0000 - 14500.0000	H,V	2M00G7W	T	44.10	17.10	R-1	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
18)	14000.0000 - 14500.0000	H,V	300KG7W	T	37.10	18.30	R-1	DIGITAL AUDIO AND DATA, 8PSK, DBS2	

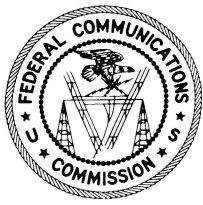


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19) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-1	DIGITAL AUDIO AND DATA, 8PSK
20) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-1	DIGITAL AUDIO AND DATA, 8PSK
21) 14000.0000 - 14500.0000	H,V	2M00G7W	T	54.00	27.00	R-10	DIGITAL AUDIO AND DATA, 8PSK, DBS2
22) 14000.0000 - 14500.0000	H,V	300KG7W	T	51.80	33.00	R-10	DIGITAL AUDIO AND DATA, 8PSK, DBS2
23) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-10	DIGITAL AUDIO AND DATA, 8PSK
24) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-10	DIGITAL AUDIO AND DATA, 8PSK
25) 14000.0000 - 14500.0000	H,V	2M00G7W	T	52.80	25.80	R-11	DIGITAL AUDIO AND DATA, 8PSK, DBS2
26) 14000.0000 - 14500.0000	H,V	300KG7W	T	51.60	32.80	R-11	DIGITAL AUDIO AND DATA, 8PSK, DBS2
27) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-11	DIGITAL AUDIO AND DATA, 8PSK
28) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-11	DIGITAL AUDIO AND DATA, 8PSK
29) 14000.0000 - 14500.0000	H,V	2M00G7W	T	51.30	24.30	R-12	DIGITAL AUDIO AND DATA, 8PSK, DBS2
30) 14000.0000 - 14500.0000	H,V	300KG7W	T	51.30	32.50	R-12	DIGITAL AUDIO AND DATA, 8PSK, DBS2
31) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-12	DIGITAL AUDIO AND DATA, 8PSK
32) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-12	DIGITAL AUDIO AND DATA, 8PSK
33) 14000.0000 - 14500.0000	H,V	2M00G7W	T	54.00	27.00	R-13	DIGITAL AUDIO AND DATA, 8PSK, DBS2
34) 14000.0000 - 14500.0000	H,V	300KG7W	T	51.80	33.00	R-13	DIGITAL AUDIO AND DATA, 8PSK, DBS2
35) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-13	DIGITAL AUDIO AND DATA, 8PSK
36) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-13	DIGITAL AUDIO AND DATA, 8PSK
37) 14000.0000 - 14500.0000	H,V	2M00G7W	T	54.40	27.40	R-14	DIGITAL AUDIO AND DATA, 8PSK, DBS2
38) 14000.0000 - 14500.0000	H,V	300KG7W	T	54.40	35.60	R-14	DIGITAL AUDIO AND DATA, 8PSK, DBS2
39) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-14	DIGITAL AUDIO AND DATA, 8PSK
40) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-14	DIGITAL AUDIO AND DATA, 8PSK
41) 14000.0000 - 14500.0000	H,V	2M00G7W	T	54.10	27.10	R-15	DIGITAL AUDIO AND DATA, 8PSK, DBS2

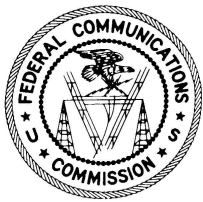


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42) 14000.0000 - 14500.0000	H,V	300KG7W	T	54.10	35.30	R-15	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
43) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-15	DIGITAL AUDIO AND DATA, 8PSK	
44) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-15	DIGITAL AUDIO AND DATA, 8PSK	
45) 14000.0000 - 14500.0000	H,V	2M00G7W	T	46.00	19.00	R-2	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
46) 14000.0000 - 14500.0000	H,V	300KG7W	T	41.00	22.20	R-2	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
47) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-2	DIGITAL AUDIO AND DATA, 8PSK	
48) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-2	DIGITAL AUDIO AND DATA, 8PSK	
49) 14000.0000 - 14500.0000	H,V	2M00G7W	T	46.10	19.10	R-3	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
50) 14000.0000 - 14500.0000	H,V	300KG7W	T	38.60	19.80	R-3	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
51) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-3	DIGITAL AUDIO AND DATA, 8PSK	
52) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-3	DIGITAL AUDIO AND DATA, 8PSK	
53) 14000.0000 - 14500.0000	H,V	2M00G7W	T	46.30	19.30	R-4	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
54) 14000.0000 - 14500.0000	H,V	300KG7W	T	38.10	19.30	R-4	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
55) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-4	DIGITAL AUDIO AND DATA, 8PSK	
56) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-4	DIGITAL AUDIO AND DATA, 8PSK	
57) 14000.0000 - 14500.0000	H,V	2M00G7W	T	48.10	21.10	R-5	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
58) 14000.0000 - 14500.0000	H,V	300KG7W	T	48.10	29.30	R-5	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
59) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-5	DIGITAL AUDIO AND DATA, 8PSK	
60) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-5	DIGITAL AUDIO AND DATA, 8PSK	
61) 14000.0000 - 14500.0000	H,V	2M00G7W	T	49.30	22.30	R-6	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
62) 14000.0000 - 14500.0000	H,V	300KG7W	T	48.10	29.30	R-6	DIGITAL AUDIO AND DATA, 8PSK, DBS2	
63) 11700.0000 - 12200.0000	H,V	12M0G7W	R			R-6	DIGITAL AUDIO AND DATA, 8PSK	
64) 11700.0000 - 12200.0000	H,V	2M60G7W	R			R-6	DIGITAL AUDIO AND DATA, 8PSK	



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65)	14000.0000 - 14500.0000	H,V	2M00G7W	T	47.80	20.80	R-7	DIGITAL AUDIO AND DATA, 8PSK, DBS2
66)	14000.0000 - 14500.0000	H,V	300KG7W	T	47.80	29.00	R-7	DIGITAL AUDIO AND DATA, 8PSK, DBS2
67)	11700.0000 - 12200.0000	H,V	12M0G7W	R			R-7	DIGITAL AUDIO AND DATA, 8PSK
68)	11700.0000 - 12200.0000	H,V	2M60G7W	R			R-7	DIGITAL AUDIO AND DATA, 8PSK
69)	14000.0000 - 14500.0000	H,V	2M00G7W	T	48.10	21.10	R-8	DIGITAL AUDIO AND DATA, 8PSK, DBS2
70)	14000.0000 - 14500.0000	H,V	300KG7W	T	48.10	29.30	R-8	DIGITAL AUDIO AND DATA, 8PSK, DBS2
71)	11700.0000 - 12200.0000	H,V	12M0G7W	R			R-8	DIGITAL AUDIO AND DATA, 8PSK
72)	11700.0000 - 12200.0000	H,V	2M60G7W	R			R-8	DIGITAL AUDIO AND DATA, 8PSK
73)	14000.0000 - 14500.0000	H,V	2M00G7W	T	53.90	26.90	R-9	DIGITAL AUDIO AND DATA, 8PSK, DBS2
74)	14000.0000 - 14500.0000	H,V	300KG7W	T	48.30	29.50	R-9	DIGITAL AUDIO AND DATA, 8PSK, DBS2
75)	11700.0000 - 12200.0000	H,V	12M0G7W	R			R-9	DIGITAL AUDIO AND DATA, 8PSK
76)	11700.0000 - 12200.0000	H,V	2M60G7W	R			R-9	DIGITAL AUDIO AND DATA, 8PSK

C) Frequency Coordination

#	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)	11700.0000 - 12200.0000	60.0W	143.0W	5.0	5.0	0.0	0.0		R-4
2)	14000.0000 - 14500.0000	60.0W	143.0W	5.0	5.0	0.0	0.0	-8.95	R-4
3)	14000.0000 - 14500.0000	37.0W	124.0W						R-4
4)	11700.0000 - 12200.0000	37.0W	124.0W						R-4
5)	14000.0000 - 14500.0000	60.0W	143.0W	5.0	5.0	0.0	0.0	-0.35	R-5
6)	11700.0000 - 12200.0000	60.0W	143.0W	5.0	5.0	0.0	0.0		R-5
7)	14000.0000 - 14500.0000	37.0W	124.0W						R-5
8)	11700.0000 - 12200.0000	37.0W	124.0W						R-5
9)	11700.0000 - 12200.0000	60.0W	143.0W	5.0	5.0	0.0	0.0		R-6
10)	14000.0000 - 14500.0000	60.0W	143.0W	5.0	5.0	0.0	0.0	-0.35	R-6
11)	14000.0000 - 14500.0000	37.0W	124.0W						R-6
12)	11700.0000 - 12200.0000	37.0W	124.0W						R-6

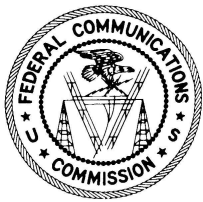


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13)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-2
14)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-5.35	R-2
15)	14000.0000 - 14500.0000	37.0W-124.0W				R-2
16)	11700.0000 - 12200.0000	37.0W-124.0W				R-2
17)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-3
18)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-7.85	R-3
19)	14000.0000 - 14500.0000	37.0W-124.0W				R-3
20)	11700.0000 - 12200.0000	37.0W-124.0W				R-3
21)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-15
22)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-0.35	R-15
23)	14000.0000 - 14500.0000	37.0W-124.0W				R-15
24)	11700.0000 - 12200.0000	37.0W-124.0W				R-15
25)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-12
26)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-0.35	R-12
27)	14000.0000 - 14500.0000	37.0W-124.0W				R-12
28)	11700.0000 - 12200.0000	37.0W-124.0W				R-12
29)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-0.35	R-13
30)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-13
31)	14000.0000 - 14500.0000	37.0W-124.0W				R-13
32)	11700.0000 - 12200.0000	37.0W-124.0W				R-13
33)	11700.0000 - 12200.0000	60.0W-143.0W	37.7 - 12.6	149.0 - 250.4		Hub 2
34)	14000.0000 - 14500.0000	60.0W-143.0W	37.7 - 12.6	149.0 - 250.4	-9.5	Hub 2
35)	14000.0000 - 14500.0000	37.0W-124.0W	24.7 - 26.0	123.8 - 234.4		Hub 2
36)	11700.0000 - 12200.0000	37.0W-124.0W	24.7 - 26.0	123.8 - 234.4		Hub 2
37)	11700.0000 - 12200.0000	60.0W-143.0W	37.7 - 12.6	149.0 - 250.4		Hub 3
38)	14000.0000 - 14500.0000	60.0W-143.0W	37.7 - 12.6	149.0 - 250.4	-9.5	Hub 3
39)	14000.0000 - 14500.0000	37.0W-124.0W	24.7 - 26.0	123.8 - 234.4		Hub 3
40)	11700.0000 - 12200.0000	37.0W-124.0W	24.7 - 26.0	123.8 - 234.4		Hub 3
41)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-1
42)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-7.35	R-1
43)	14000.0000 - 14500.0000	37.0W-124.0W				R-1
44)	11700.0000 - 12200.0000	37.0W-124.0W				R-1
45)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-7



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46)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-0.35	R-7
47)	14000.0000 - 14500.0000	37.0W-124.0W				R-7
48)	11700.0000 - 12200.0000	37.0W-124.0W				R-7
49)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-0.35	R-9
50)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-9
51)	11700.0000 - 12200.0000	37.0W-124.0W				R-9
52)	14000.0000 - 14500.0000	37.0W-124.0W				R-9
53)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-10
54)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-0.35	R-10
55)	14000.0000 - 14500.0000	37.0W-124.0W				R-10
56)	11700.0000 - 12200.0000	37.0W-124.0W				R-10
57)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-11
58)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-0.35	R-11
59)	14000.0000 - 14500.0000	37.0W-124.0W				R-11
60)	11700.0000 - 12200.0000	37.0W-124.0W				R-11
61)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-8
62)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-0.35	R-8
63)	14000.0000 - 14500.0000	37.0W-124.0W				R-8
64)	11700.0000 - 12200.0000	37.0W-124.0W				R-8
65)	11700.0000 - 12200.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0		R-14
66)	14000.0000 - 14500.0000	60.0W-143.0W	5.0 - 5.0	0.0 - 0.0	-0.35	R-14
67)	14000.0000 - 14500.0000	37.0W-124.0W				R-14
68)	11700.0000 - 12200.0000	37.0W-124.0W				R-14
69)	14000.0000 - 14500.0000	37.0W-124.0W	24.7 - 26.0	123.8 - 244.0	-22.2	Hub 4
70)	11700.0000 - 12200.0000	37.0W-124.0W	24.7 - 26.0	123.8 - 244.0		Hub 4
71)	14000.0000 - 14500.0000	37.0W-124.0W	24.7 - 26.0	123.8 - 244.0	-22.2	Hub 5
72)	11700.0000 - 12200.0000	37.0W-124.0W	24.7 - 26.0	123.8 - 244.0		Hub 5
73)	11700.0000 - 12200.0000	60.0W-143.0W	37.7 - 12.6	149.0 - 250.4		Hub 1
74)	14000.0000 - 14500.0000	60.0W-143.0W	37.7 - 12.6	149.0 - 250.4	-9.5	Hub 1
75)	14000.0000 - 14500.0000	37.0W-124.0W	24.7 - 26.0	123.8 - 234.4		Hub 1
76)	11700.0000 - 12200.0000	37.0W-124.0W	24.7 - 26.0	123.8 - 234.4		Hub 1

D) Point of Communications

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

- 1) Remote 4 to All authorized U.S. Domestic (ALSAT) Satellites.



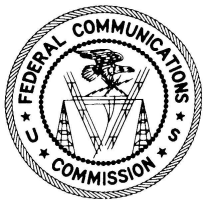
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- 2) Remote 4 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 3) Remote 5 to All authorized U.S. Domestic (ALSAT) Satellites.
- 4) Remote 5 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 5) Remote 6 to All authorized U.S. Domestic (ALSAT) Satellites.
- 6) Remote 6 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 7) Remote 2 to All authorized U.S. Domestic (ALSAT) Satellites.
- 8) Remote 2 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 9) Remote 3 to All authorized U.S. Domestic (ALSAT) Satellites.
- 10) Remote 3 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 11) Remote 15 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 12) Remote 15 to All authorized U.S. Domestic (ALSAT) Satellites.
- 13) Remote 12 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 14) Remote 12 to All authorized U.S. Domestic (ALSAT) Satellites.
- 15) Remote 13 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 16) Remote 13 to All authorized U.S. Domestic (ALSAT) Satellites.
- 17) Akron (6.3m Hub) to All authorized U.S. Domestic (ALSAT) Satellites.
- 18) Akron (6.3m Hub) to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 19) Remote 1 to All authorized U.S. Domestic (ALSAT) Satellites.
- 20) Remote 1 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 21) Remote 7 to All authorized U.S. Domestic (ALSAT) Satellites.
- 22) Remote 7 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 23) Remote 9 to All authorized U.S. Domestic (ALSAT) Satellites.
- 24) Remote 9 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 25) Remote 10 to All authorized U.S. Domestic (ALSAT) Satellites.
- 26) Remote 10 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)



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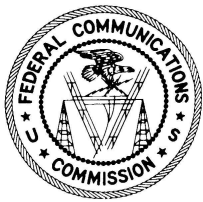
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- 27) Remote 11 to All authorized U.S. Domestic (ALSAT) Satellites.
- 28) Remote 11 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 29) Remote 8 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 30) Remote 8 to All authorized U.S. Domestic (ALSAT) Satellites.
- 31) Remote 14 to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 32) Remote 14 to All authorized U.S. Domestic (ALSAT) Satellites.
- 33) HUB4 to All authorized U.S. Domestic (ALSAT) Satellites.
- 34) HUB5 to All authorized U.S. Domestic (ALSAT) Satellites.
- 35) Akron (6.3m Hub) to All authorized U.S. Domestic (ALSAT) Satellites.
- 36) Akron (6.3m Hub) to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)
- 37) Akron (6.3m Hub) to All authorized U.S. Domestic (ALSAT) Satellites.
- 38) Akron (6.3m Hub) to TELSTAR 11N satellite @37.55 W.L. (U.S.-licensed satellite)

E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (Meters)	Manufacturer	Model Number	Site Elevation	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
Akron (6.3m Hub)	Hub 1	1	6.3	VERTEX/RSI	6.3M.	348.0	7.0 AGL/ 355.0 AMSL	
Max Gains(s):55.7 dBi @ 11.8500 GHz 57.5 dBi @ 14.2500 GHz Maximum total input power at antenna flange (Watts) = 100.0 Maximum aggregate output EIRP for all carriers (dBW)77.5								
Akron (6.3m Hub)	Hub 2	1	6.3	VERTEX/RSI	6.3M.	348.0	7.0 AGL/ 355.0 AMSL	
Max Gains(s):55.7 dBi @ 11.8500 GHz 57.5 dBi @ 14.2500 GHz Maximum total input power at antenna flange (Watts) = 100.0 Maximum aggregate output EIRP for all carriers (dBW)77.5								
Akron (6.3m Hub)	Hub 3	1	6.3	VERTEX/RSI	6.3M	348.0	7.0 AGL/ 353.2 AMSL	
Max Gains(s):55.7 dBi @ 11.8500 GHz 57.5 dBi @ 14.2500 GHz Maximum total input power at antenna flange (Watts) = 100.0 Maximum aggregate output EIRP for all carriers (dBW)77.5								
HUB4	Hub 4	1	8.1	HARRIS/VERTEX	5349	349.5	8.1 AGL/ 357.6 AMSL	
Max Gains(s):59.7 dBi @ 14.1250 GHz 58.0 dBi @ 11.7250 GHz Maximum total input power at antenna flange (Watts) = 100.0 Maximum aggregate output EIRP for all carriers (dBW)79.7								

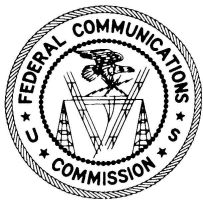


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HUB5	Hub 5	1	8.1	HARRIS/VERTEX 5349	349.5	8.1 AGL/ 357.6 AMSL	
Max Gains(s):59.7 dBi @ 14.1250 GHz 58.0 dBi @ 11.7250 GHz							
Maximum total input power at antenna flange (Watts) = 100.0							
Maximum aggregate output EIRP for all carriers (dBW)79.7							
Remote 1	R-1	220	0.75	CHANNEL MASTER	0.75M	1.8 AGL	
Max Gains(s):39.3 dBi @ 14.2500 GHz 37.8 dBi @ 11.8500 GHz							
Maximum total input power at antenna flange (Watts) = 3.0							
Maximum aggregate output EIRP for all carriers (dBW)44.1							
Remote 10	R-10	87	1.8	ANDREW CORPORATION	ASC1.8	2.4 AGL	
Max Gains(s):45.5 dBi @ 11.9500 GHz 47.0 dBi @ 14.2500 GHz							
Maximum total input power at antenna flange (Watts) = 5.0							
Maximum aggregate output EIRP for all carriers (dBW)54.0							
Remote 11	R-11	87	1.8	CHANNEL MASTER	1.8M.	2.5 AGL	
Max Gains(s):45.3 dBi @ 11.9500 GHz 46.8 dBi @ 14.2500 GHz							
Maximum total input power at antenna flange (Watts) = 4.0							
Maximum aggregate output EIRP for all carriers (dBW)52.8							
Remote 12	R-12	87	1.8	PRODELIN CORPORATION	1.8M.	2.5 AGL	
Max Gains(s):45.0 dBi @ 11.9500 GHz 46.5 dBi @ 14.2500 GHz							
Maximum total input power at antenna flange (Watts) = 3.0							
Maximum aggregate output EIRP for all carriers (dBW)51.3							
Remote 13	R-13	87	1.8	PATRIOT ANT. SYSTEMS	180KU	2.5 AGL	
Max Gains(s):45.3 dBi @ 11.8500 GHz 47.0 dBi @ 14.2500 GHz							
Maximum total input power at antenna flange (Watts) = 5.0							
Maximum aggregate output EIRP for all carriers (dBW)54.0							
Remote 14	R-14	5	2.4	PATRIOT ANT. SYSTEMS	240KU	3.1 AGL	
Max Gains(s):49.6 dBi @ 14.2500 GHz 48.0 dBi @ 11.9500 GHz							
Maximum total input power at antenna flange (Watts) = 3.0							
Maximum aggregate output EIRP for all carriers (dBW)54.4							
Remote 15	R-15	5	2.4	CHANNEL MASTER	2.4M.	3.1 AGL	
Max Gains(s):47.6 dBi @ 11.9500 GHz 49.3 dBi @ 14.2500 GHz							
Maximum total input power at antenna flange (Watts) = 3.0							
Maximum aggregate output EIRP for all carriers (dBW)54.1							



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Remote 2	R-2	40	0.95	PRODELIN CORPORATION	0.95M.	1.8 AGL
Max Gains(s):39.8 dBi @ 12.2000 GHz 41.2 dBi @ 14.5000 GHz						
Maximum total input power at antenna flange (Watts) = 3.0						
Maximum aggregate output EIRP for all carriers (dBW)46.0						
Remote 3	R-3	99	0.98	PRODELIN CORPORATION	0.98M.	2.0 AGL
Max Gains(s):39.8 dBi @ 11.9500 GHz 41.3 dBi @ 14.2500 GHz						
Maximum total input power at antenna flange (Watts) = 3.0						
Maximum aggregate output EIRP for all carriers (dBW)46.1						
Remote 4	R-4	157	1.0	PATRIOT ANT. SYSTEMS	1M.	2.0 AGL
Max Gains(s):40.2 dBi @ 11.8500 GHz 41.9 dBi @ 14.2500 GHz						
Maximum total input power at antenna flange (Watts) = 3.0						
Maximum aggregate output EIRP for all carriers (dBW)46.7						
Remote 5	R-5	384	1.2	PRODELIN CORPORATION	1.2M.	2.1 AGL
Max Gains(s):41.8 dBi @ 11.9500 GHz 43.3 dBi @ 14.2500 GHz						
Maximum total input power at antenna flange (Watts) = 3.0						
Maximum aggregate output EIRP for all carriers (dBW)48.1						
Remote 6	R-6	945	1.2	ANDREW CORPORATION	ESA1.2M.	2.1 AGL
Max Gains(s):41.8 dBi @ 11.9500 GHz 43.3 dBi @ 14.2500 GHz						
Maximum total input power at antenna flange (Watts) = 4.0						
Maximum aggregate output EIRP for all carriers (dBW)49.3						
Remote 7	R-7	745	1.2	C-COM	1.2M.	2.1 AGL
Max Gains(s):41.5 dBi @ 11.8500 GHz 43.0 dBi @ 14.2500 GHz						
Maximum total input power at antenna flange (Watts) = 3.0						
Maximum aggregate output EIRP for all carriers (dBW)47.8						
Remote 8	R-8	945	1.2	CHANNEL MASTER	120TX	2.1 AGL
Max Gains(s):41.8 dBi @ 11.9500 GHz 43.3 dBi @ 14.2500 GHz						
Maximum total input power at antenna flange (Watts) = 3.0						
Maximum aggregate output EIRP for all carriers (dBW)48.1						
Remote 9	R-9	200	1.2	PATRIOT ANT. SYSTEMS	1.2M.	2.1 AGL
Max Gains(s):41.8 dBi @ 11.9500 GHz 43.5 dBi @ 14.2500 GHz						
Maximum total input power at antenna flange (Watts) = 11.0						
Maximum aggregate output EIRP for all carriers (dBW)53.9						



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F) Remote Control

Akron (6.3m Hub)	12947 WEBSTER ROAD (6.3m Hub1) STRONGSVILLE, CUYAHOGA, OH, 44136 440-238-7356	Call Sign:	N/A
Akron (6.3m Hub)	12947 WEBSTER ROAD (6.3m Hub1) STRONGSVILLE, CUYAHOGA, OH, 44136 440-238-7356	Call Sign:	N/A
HUB4	12947 WEBSTER ROAD (8.1m Hub4) STRONGSVILLE, CUYAHOGA, OH, 44136 440-238-7356	Call Sign:	N/A
HUB5	12947 WEBSTER ROAD (8.1m Hub5) STRONGSVILLE, CUYAHOGA, OH, 44136 440-238-7356	Call Sign:	N/A
Akron (6.3m Hub)	12947 WEBSTER ROAD (6.3m Hub1) STRONGSVILLE, CUYAHOGA, OH, 44136 440-238-7356	Call Sign:	N/A

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:

- 167 This authorization is limited to the total number of terminals listed in Section A of this license for this Site ID.
- 495 This is granted without prejudice to any future FCC enforcement action against VSAT Systems, LLC in connection with any unauthorized operation of radio facilities.
- 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.
- 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.
- 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: name of the licensee, file number of the application, call sign of the antenna, date of the license and certification that the facility as authorized has been completed, that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209 and 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.



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H) Special and General Provisions

- 5216 All operations shall be on a non-common carrier basis.
- 9659 The licensee is afforded 30 days from the date of issuance of this license to decline it as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.



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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.