

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier:	1	E5: Call Sign:	
E2: Contact Name:	Viasat NOC	E6: Phone Number:	720-493-7300
E3: Street:		E7: City:	
E4: State:		E8: County:	
		E9: Zip Code:	
E10: Area of Operation:			
E11: Latitude:	0° 0' 0"		
E12: Longitude:	0° 0' 0"		
E13: Lat/Lon Coordinates are:			
E14: Site Elevation (AMSL):	0		

If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide a technical analysis showing compliance with two-degree spacing policy.	No
If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS) or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement?	N/A
Is Frequency Coordination required?	No
Is coordination with another country required?	No
Is FAA notification required?	No
Is facility operated by remote control?	Yes

POINTS OF COMMUNICATION

Satellite Name: ANIK F2 (S2472/S2646)

E21. Common Name: ANIK F2(S2646)	E22. ITU Name: ANIK F2
E23. Orbit Location: 111.1 W.L.	E24. Country:

Satellite Name: WILDBLUE-1 (E040213)	
E21. Common Name: WILDBLUE 1(S2355)	E22. ITU Name: WILDBLUE 1
E23. Orbit Location: 111.1 W.L.	E24. Country:

Satellite Name: VIASAT-1 (S2747)	
E21. Common Name: VIASAT-1 (S2747)	E22. ITU Name: VIASAT-1 (S2747)
E23. Orbit Location: 115.1W.L.	E24. Country:

Satellite Name: VIASAT-2 (S2902)	
E21. Common Name: VIASAT-2 (S2902)	E22. ITU Name: VIASAT-2 (S2902)
E23. Orbit Location: 69.9 W.L.	E24. Country:

Satellite Name: VIASAT-79W(S3113)	
E21. Common Name: ViaSat-3F2	E22. ITU Name: VIASAT-79W(S3113)
E23. Orbit Location: 79.0 W.L.	E24. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size (meters)	E41/42. Antenna Gain Transmit and/or Recieve (dBi at GHz)
1	G12	1000	Viasat, Inc.	G12	0.3	undefined at 0

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at Antenna Flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for all carriers (dBW)
G12	0.3/0.3	0	0	0	20	0	49.3

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
G12	19700 20200	R	null	417MG7D	0	0
E50. Modulation and Services						
417 MBd M-ary PSK, Digital Carrier						

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
G12	29500 30000	T	null	20M0G7D	49.3	12.3
E50. Modulation and Services						
20 MBd M-ary PSK, Digital Carrier						

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
G12	28350 29100	T	null	160MG7D	48.9	2.8794
E50. Modulation and Services						
160 MBd M-ary PSK, Digital Carrier						

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
G12	17700	R	null	500MG7D	0	0

	19300					
E50. Modulation and Services						
500 MBd M-ary PSK, Digital Carrier						

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
G12	27500 28350	T	null	40M0G7D	48.9	8.899
E50. Modulation and Services						
40 MBd M-ary PSK, Digital Carrier						

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern/Western Limit	E57. Antenna Elevation Angle Eastern/Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
G12	Geostationary	17700 19300	69.9 / 115.1	270 / 90	5 / 5	0

G12Geostationary28350
 2910069.9 / 115.1270 / 905 / 5-11.2G12Geostationary19700
 2020069.9 / 115.1270 / 905 / 50G12Geostationary29500
 3000069.9 / 115.1270 / 905 / 5-12.2G12Geostationary27500
 2835069.9 / 115.1270 / 905 / 5-17.2

REMOTE CONTROL POINT LOCATION

E61. Call Sign:		E65. Phone Number: 720-493-7300	
E62. Street Address: 349 Inverness Drive South			
E63. City:	E67. County:	E64/68. State/Country:	E66. Zip Code:

Englewood	Douglas	undefined / undefined	80112
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