

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:	REMOTE CONTROL POINT	E6: Phone Number:	303-684-4587
E3: Street:	213 PURPLE SAGE ROAD	E7: City:	ROCK SPRINGS
E4: State:	a3cb838adb6d66008e0b75131f96199d	E8: County:	SWEETWATER
		E9: Zip Code:	82901
E10: Area of Operation:			
E11: Latitude:	41° 32' 12"		
E12: Longitude:	109° 21' 11"		
E13: Lat/Lon Coordinates are:	nad-83		
E14: Site Elevation (AMSL):	1889.76		

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.	N/A
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?	Yes
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: USASAT-30A	
E21. Common Name: WORLDVIEW-4 (S2348)	E22. ITU Name: USASAT-30A
E23. Orbit Location: NGSO	E24. Country:

Satellite Name: GeoEye 1	
E21. Common Name: GeoEye 1 (S2348)	E22. ITU Name: GeoEye 1
E23. Orbit Location: NGSO	E24. Country:

Satellite Name: USASAT-30A	
E21. Common Name: WORLDVIEW-1(S2129)	E22. ITU Name: USASAT-30A
E23. Orbit Location: NGSO	E24. Country:

Satellite Name: USASAT-30A	
E21. Common Name: WORLDVIEW-3 (S2129)	E22. ITU Name: USASAT-30A
E23. Orbit Location: NGSO	E24. Country:

Satellite Name: USASAT-30A	
E21. Common Name: WORLDVIEW LEGION	E22. ITU Name: USASAT-30A
E23. Orbit Location: NGSO	E24. Country:

Satellite Name: USASAT-30A	
E21. Common Name: WORLDVIEW-2(S2129)	E22. ITU Name: USASAT-30A
E23. Orbit Location: NGSO	E24. Country:

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)
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1	1	1	ViaSat	3420	7.3	undefined at 0
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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)
1	0/0	5	1894	0	100	0	61

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)
1	8025 8400	R	null	375MG7D	0	0

E50. Modulation and Services

QPSK, DATA

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)
1	2051.66 2052.34	T	null	68K0G2D	61	61

E50. Modulation and Services

BPSK (TT&C)

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)
1	8025 8345	R	null	320MG7D	0	0

E50. Modulation and Services

QPSK, DATA

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)
1	2041.66 2042.34	T	null	68K0G2D	61	61

E50. Modulation and Services

BPSK (TT&C)

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)
1	2085.6875 2085.6875	T	null	1M32G1D	51.8	27.7

E50. Modulation and Services

516 Kbit BPSK digital TT&C

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)
1	8393.7015 8394.2985	R	null	59K7G1D	0	0

E50. Modulation and Services

QPSK, TELEMETRY

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	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
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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)
1	8345.68 8346.32	R	null	64K0G1D	0	0
E50. Modulation and Services QPSK, TELEMETRY						

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)
1	2092.6 2092.6	T	null	NON	61	61
E50. Modulation and Services						

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)
1	8380 8380	R	null	5M80G7D	0	0

E50. Modulation and Services

Digital telemetry TT&C

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)
1	2042 2042	T	null	NON	61	61

E50. Modulation and Services

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)
1	8135 8285	R	null	150MG7D	0	0

E50. Modulation and Services

QPSK, DATA

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)
1	8025 8395	R	null	370MG7D	0	0

E50. Modulation and Services

QPSK, DATA

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)
1	2052 2052	T	null	NON	61	61

E50. Modulation and Services

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)
1	8028 8032	R	null	4M00G7D	0	0

E50. Modulation and Services

QPSK, DATA

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)
1	8385.94 8386.06	R	null	120KG1D	0	0

E50. Modulation and Services

QPSK, TELEMETRY

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)

1	8025 8375	R	null	350MG7D	0	0
E50. Modulation and Services						
QPSK, DATA						

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)
1	8377.1 8382.9	R	null	5M80G7D	0	0
E50. Modulation and Services						
DIGITAL TELEMETRY (TT&C)						

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)
1	2091.94 2093.26	T	null	1M32G1D	61	49
E50. Modulation and Services						
BPSK (TT&C)						

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)
1	Non-Geostationary	8025 8400	0 / 0	0 / 360	5 / 5	-4.3

1Non-Geostationary2085.6875

2085.68750 / 00 / 3605 / 5-4.31Non-Geostationary8385.94

8386.060 / 00 / 3605 / 501Non-Geostationary8025

83750 / 00 / 3605 / 50

REMOTE CONTROL POINT LOCATION

E61. Call Sign: N/A		E65. Phone Number: 303-684-4587	
E62. Street Address: 1601 DRY CREEK DRIVE SUITE 260			
E63. City: LONGMONT	E67. County: BOULDER	E64/68. State/Country: undefined / undefined	E66. Zip Code: 80503

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