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:	KEVIN MOSCATIELLO	E6: Phone Number:	973-823-6006
E3: Street:	100 EDSALL DRIVE	E7: City:	VERNON
E4: State:	443341cddb8b2a00d02fdb0e0f9619da	E8: County:	SUSSEX
		E9: Zip Code:	07461
E10: Area of Operation:			
E11: Latitude:	41° 12' 6.3"		
E12: Longitude:	74° 31' 34.6"		
E13: Lat/Lon Coordinates are:	nad-83		
E14: Site Elevation (AMSL):	182.9		

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.	Yes
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?	Yes
Is coordination with another country required?	No
Is FAA notification required?	Yes
Is facility operated by remote control?	No

POINTS OF COMMUNICATION

Satellite Name: Eutelsat 65 West A (E160081)	
E21. Common Name: Eutelsat 65 West A	E22. ITU Name: Eutelsat 65 West A
E23. Orbit Location: 65 W.L.	E24. Country:

Satellite Name: Intelsat 25 (S2804)	
E21. Common Name: INTELSAT 25 (S2804)	E22. ITU Name: INTELSAT 25 (S2804)
E23. Orbit Location: 31.5 W.L.	E24. Country:

Satellite Name: PERMITTED LIST	
E21. Common Name: PERMITTED LIST	E22. ITU Name: PERMITTED LIST
E23. Orbit Location: GSO	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)
1	4	1	ANDREW	ESA12-46	12	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)
4	0/0	12.8	195.7	0	2454.7	0	88.9

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	1	1	E SYSTEMS	1	13	undefined at 0

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level	E36. Above Sea Level	E37. Building Height Above	E38. Total Input Power at	E39. Maximum Antenna Height	E40. Total EIRP for all

		(meters)	(meters)	Ground Level (meters)	Antenna Flange (Watts)	Above Rooftop (meters)	carriers (dBW)
1	0/0	16.8	199.6	0	1585	0	88.9

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	5	1	RSI SATCOM	1100C	11	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)
5	0/0	11	193.88	0	2454.7	0	89.3

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	2	1	VERTEX	13 KPC	13.1	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)
2	0/0	13.1	195.98	0	1778.3	0	89.3

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	6	1	HARRIS	5270	13	undefined at 0

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level	E36. Above Sea Level	E37. Building Height Above	E38. Total Input Power at	E39. Maximum Antenna Height	E40. Total EIRP for all

		(meters)	(meters)	Ground Level (meters)	Antenna Flange (Watts)	Above Rooftop (meters)	carriers (dBW)
6	0/0	14.3	197.2	0	1780	0	88.9

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)
4	6085 6125	T	null	36M0F8W	88.9	61.9
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)
4	3700 4200	R	null	17M6F7W	0	0
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)
4	6423.5 6423.5	T	null	3M00F3W	87.8	66.8
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)
4	5925 6425	T	null	17M6F7W	78.5	44.5
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)
4	5925 6085	T	null	36M0F8W	84.7	57.7
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)
4	6125 6425	T	null	36M0F8W	84.7	57.7
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	6125 6425	T	null	36M0F8W	84.7	57.7
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	5925 6085	T	null	36M0F8W	84.7	57.7

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	3700 4200	R	null	1M00F8W	0	0

E50. Modulation and Services

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	6085 6125	T	null	36M0F8W	88.9	61.9

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	6423.5 6423.5	T	null	3M00F3W	87.8	66.8

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	5925 6425	T	null	36M0G7W	83.7	44.2

E50. Modulation and Services

PSK; DATA, MCPC DIGITAL VIDEO AND AUDIO

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)**
5	5925 6425	T	null	215KG7D	61.8	44.5

E50. Modulation and Services

DIGITAL DATA 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)**
5	5925 6085	T	null	17M6F7W	89.1	52.7

E50. Modulation and Services

DIGITAL DATA CARRIER

E28.	**E43/44.**	**E45.**	**E46. Antenna**	**E47.**	**E48.**	**E49. Maximum**

Antenna Id	Frequency Bands (MHz)	T/R Mode	Polarization (H,V,L,R)	Emission Designator	Maximum EIRP per Carrier (dBW)	ERIP Density per Carrier (dBW/4kHz)
5	6125 6425	T	null	215KG7D	70	52.7

E50. Modulation and Services

DIGITAL DATA 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)
5	3700 4200	R	null	36M0F8W	0	0

E50. Modulation and Services

VIDEO 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)
5	6085 6125	T	null	215KG7D	70	52.7

E50. Modulation and Services

DIGITAL DATA 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)
2	3700 4200	R	null	215KG7D	0	0

E50. Modulation and Services

DIGITAL DATA 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)
2	6085 6125	T	null	215KG7D	71.4	54.1

E50. Modulation and Services

DIGITAL DATA 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)
2	5925 6425	T	null	215KG7D	71.4	54.1

E50. Modulation and Services

DIGITAL DATA 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)
2	6427 6643	T	null	36M0F8W	89.3	49.7

E50. Modulation and Services

VIDEO 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)

2	5925 6085	T	null	36M0F8W	89.3	49.7

E50. Modulation and Services

VIDEO 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)
6	6423.5 6423.5	T	null	3M00F3W	87.8	66.8

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)
6	6125 6425	T	null	36M0F8W	84.7	57.7

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)
6	5925 6085	T	null	36M0F8W	84.7	57.7

E50. Modulation and Services

E28.	E43/44.	E45.	E46. Antenna	E47.	E48.	E49. Maximum

Antenna Id	Frequency Bands (MHz)	T/R Mode	Polarization (H,V,L,R)	Emission Designator	Maximum EIRP per Carrier (dBW)	ERIP Density per Carrier (dBW/4kHz)
6	6085 6125	T	null	36M0F8W	88.9	61.9

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)
6	3700 4200	R	null	36M0G7W	0	0

E50. Modulation and Services

PSK; DATA, MCPC DIGITAL VIDEO AND AUDIO

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)
6	5925 6425	T	null	36M0G7W	83.2	43.7

E50. Modulation and Services

PSK; DATA, MCPC DIGITAL VIDEO AND AUDIO

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)
6	6425.5 6875	T	null	54M0G7W	85.46	44.16

E50. Modulation and Services

DIGITAL DATA 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)
4	Geostationary	5925 6425	3 / 143	102.4 / 255.4	5.1 / 7.4	30.8

1Geostationary3700
420026 / 143120.2 / 255.421.8 / 7.401Geostationary5925
642526 / 143120.2 / 255.421.8 / 7.423.735Geostationary5925
64253 / 143102.4 / 255.45.1 / 7.415.285Geostationary5925
60853 / 143102.4 / 255.45.1 / 7.428.485Geostationary6125
64253 / 143102.4 / 255.45.1 / 7.428.485Geostationary3700
42003 / 143102.4 / 255.45.1 / 7.405Geostationary6085
61253 / 143102.4 / 255.45.1 / 7.432.682Geostationary3700
42003 / 143102.4 / 255.45.1 / 7.402Geostationary6085
61253 / 143102.4 / 255.45.1 / 7.428.92Geostationary5925
64253 / 143102.4 / 255.45.1 / 7.4222Geostationary6427
66433 / 143102.4 / 255.45.1 / 7.421.112Geostationary5925
60853 / 143102.4 / 255.45.1 / 7.424.76Geostationary3700
420042 / 143135.9 / 255.432 / 7.406Geostationary5925
642542 / 143135.9 / 255.432 / 7.423.736Geostationary6425.5
687565 / 65165.7 / 165.741.4 / 41.4-10.1

REMOTE CONTROL POINT LOCATION

E61. Call Sign: undefined		E65. Phone Number: undefined	
E62. Street Address: undefined			
E63. City: undefined	E67. County: undefined	E64/68. State/Country: undefined / undefined	E66. Zip Code: undefined

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