

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:	CARY MCDANIEL	E6: Phone Number:	404-325-2272
E3: Street:	20021 Santa Rosa Mine Road	E7: City:	STEELE VALLEY
E4: State:	0f2d5cd7dbbd22008e0b75131f961907	E8: County:	RIVERSIDE
		E9: Zip Code:	92572
E10: Area of Operation:			
E11: Latitude:	33° 45' 30.1"		
E12: Longitude:	117° 18' 55.1"		
E13: Lat/Lon Coordinates are:	nad-83		
E14: Site Elevation (AMSL):	613.04		

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?	No
Is facility operated by remote control?	No

POINTS OF COMMUNICATION

Satellite Name: MORELOS-2	
E21. Common Name: MORELOS-2	E22. ITU Name: MORELOS-2
E23. Orbit Location: 116.8 W.L.	E24. Country:

Satellite Name: PERMITTED LIST	
E21. Common Name: PERMITTED LIST	E22. ITU Name: PERMITTED LIST
E23. Orbit Location: GSO	E24. Country:

Satellite Name: ANIK E1 Retired Jan 2005	
E21. Common Name: ANIK E1	E22. ITU Name: ANIK E1
E23. Orbit Location: 118.7 W.L.	E24. Country:

Satellite Name: SOLIDARIDAD F-1 (Lost in 2000)	
E21. Common Name: SOLIDARIDAD F-1	E22. ITU Name: SOLIDARIDAD F-1
E23. Orbit Location: 109.2 W.L.	E24. Country:

Satellite Name: ANIK E2 (S2597) Surrendered	
E21. Common Name: ANIK E2	E22. ITU Name: ANIK E2
E23. Orbit Location: 111.1 W.L	E24. Country:

Satellite Name: SOLIDARIDAD F-2 (Retired in 2013)	
E21. Common Name: SOLIDARIDAD F-2	E22. ITU Name: SOLIDARIDAD F-2
E23. Orbit Location: 113.0 W.L.	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	COM4/13m	1	HARRIS CORPORATION	5270	13	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)
COM4/13m	0/0	15.1	628	0	639	0	83.7

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	4.5M1	1	ANDREW CORP.	ESA45T-T	4.5	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)
4.5M1	0/0	5	618	0	446	0	72.69

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	COM1/15.5m	1	E-SYSTEMS	WU-1	15.5	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)
COM1/15.5m	0/0	18	630.9	0	508.5	0	84.7

FM TELEVISION WITH ASSOC. AUDIO SUBCARRI

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)
COM4/13m	3700 4200	R	null	36M0F8W	0	0

E50. Modulation and Services

FM TELEVISION WITH ASSOC. AUDIO SUBCARRI

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)
4.5M1	5925 5983	T	null	36M0F3F	72.69	45.7

E50. Modulation and Services

STANDARD ANALOG VIDEO

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)
4.5M1	6311 6425	T	null	36M0G7W	71.74	32.2

E50. Modulation and Services

DIGITAL TRAFFIC, VARIOUS INFORMATION, VA

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)
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4.5M1	3700 4200	R	null	51K2G7W	0	0
E50. Modulation and Services						
DIGITAL TRAFFIC, VARIOUS INFORMATION, VA						

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)
4.5M1	6067 6243	T	null	36M0F3F	72.69	45.7
E50. Modulation and Services						
STANDARD ANALOG VIDEO						

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)
4.5M1	5925 6261	T	null	36M0G7W	71.74	32.2
E50. Modulation and Services						
STANDARD ANALOG VIDEO						

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)
COM1/15.5m	5925 6425	T	null	36M0F8W	84.7	57.7
E50. Modulation and Services						
FM TELEVISION WITH ASSOC. AUDIO SUBCARRI						

E28.	E43/44.	E45.	E46. Antenna	E47.	E48.	E49. Maximum
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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)
COM1/15.5m	3700 4200	R	null	36M0F8W	0	0

E50. Modulation and Services

FM TELEVISION WITH ASSOC. AUDIO SUBCARRI

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)
COM3/11m	3700 4200	R	null	36M0F8W	0	0

E50. Modulation and Services

FM TELEVISION WITH ASSOC. AUDIO SUBCARRI

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)
COM3/11m	5925 6425	T	null	36M0F8W	81.4	54.4

E50. Modulation and Services

FM TELEVISION WITH ASSOC. AUDIO SUBCARRI

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)
4.5M2	11700 12200	R	null	36M0F3F	0	0

E50. Modulation and Services

STANDARD ANALOG VIDEO

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)
4.5M2	14000 14500	T	null	36M0G7W	79.04	39.5
E50. Modulation and Services						
DIGITAL TRAFFIC, VARIOUS FEC, VARIOUS DA						

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)
COM4/13m	Geostationary	5925 6425	60 / 143	109.6 / 220.9	18.4 / 42.1	8.97

4.5M1Geostationary5925

598358 / 139108.3 / 215.616.8 / 44.44.454.5M1Geostationary6311

642558 / 139108.3 / 215.616.8 / 44.44.454.5M1Geostationary3700

420058 / 139108.3 / 215.616.8 / 44.404.5M1Geostationary5925

626158 / 139108.3 / 215.616.8 / 44.4-10.04COM1/15.5mGeostationary5925

642560 / 143109.6 / 220.918.4 / 42.18.01COM3/11mGeostationary5925

642560 / 143109.6 / 220.918.4 / 42.15.724.5M2Geostationary11700

1220058 / 143108.3 / 220.916.8 / 42.104.5M2Geostationary14000

1450058 / 143108.3 / 220.916.8 / 42.17.7

REMOTE CONTROL POINT LOCATION

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

		undefined / undefined	
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