

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:	Morehead State Gateway Tri-Band Antenna	E5: Call Sign:	
E2: Contact Name:	Dr. Benjamin K. Malphrus	E6: Phone Number:	6067832381
E3: Street:	235 Martindale Drive	E7: City:	Morehead
E4: State:	2aa70f0adb6d66008e0b75131f96195f	E8: County:	Rowan
		E9: Zip Code:	40351
E10: Area of Operation:	Not applicable		
E11: Latitude:	38° 11' 30.773"		
E12: Longitude:	83° 26' 19.948"		
E13: Lat/Lon Coordinates are:	nad-83		
E14: Site Elevation (AMSL):	349.6		

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?	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?	No

POINTS OF COMMUNICATION

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)
Morehead State Gateway Tri-Band Antenna	Morehead State Gateway Tri-Band Antenna	1	Vertex-RSI	21.0-meter	21	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)
Morehead State Gateway Tri-Band Antenna	0/0	25.6	375.2	0	34.7	0	95.3

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)
Morehead State Gateway Tri-Band Antenna	22550 23150	T	null	5M00G7D	93	62.0308999
E50. Modulation and Services						
BPSK up to 256 QAM; Digital Data						

E28. Antenna Id	E43/44. Frequency	E45. T/R	E46. Antenna Polarization	E47. Emission	E48. Maximum	E49. Maximum ERIP Density
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	Bands (MHz)	Mode	(H,V,L,R)	Designator	EIRP per Carrier (dBW)	per Carrier (dBW/4kHz)
Morehead State Gateway Tri-Band Antenna	7145 7235	T	null	8M00G7D	91.1	58.0897

E50. Modulation and Services

BPSK up to 256 QAM; Digital 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)
Morehead State Gateway Tri-Band Antenna	2025 2120	T	null	5M00G7D	81	50.0308999

E50. Modulation and Services

BPSK up to 256 QAM; Digital Data

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)
Morehead State Gateway Tri-Band Antenna	Non- Geostationary	22550 23150	0 / 0	0 / 360	5 / 5	7.5

Morehead State Gateway Tri-Band AntennaNon-Geostationary7145

72350 / 00 / 3605 / 512.3Morehead State Gateway Tri-Band AntennaNon-Geostationary2025

21200 / 00 / 3605 / 519.3

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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