

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:	Twin Valley, MN Gateway	E5: Call Sign:	
E2: Contact Name:	KuiperSat Operations	E6: Phone Number:	703-691-5360
E3: Street:	3652 170th Avenue	E7: City:	Twin Valley
E4: State:	3a2d5cd7dbbd22008e0b75131f961902	E8: County:	Norman
		E9: Zip Code:	56584
E10: Area of Operation:	Twin Valley, MN		
E11: Latitude:	47° 15' 11.2"		
E12: Longitude:	96° 17' 21.6"		
E13: Lat/Lon Coordinates are:	nad-83		
E14: Site Elevation (AMSL):	318.47		

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

POINTS OF COMMUNICATION

Satellite Name: Kuiper NGSO (S3051)	
E21. Common Name: Amazon Leo S3051	E22. ITU Name: USASAT-NGSO-8A/8B/8C
E23. Orbit Location: NGSO	E24. Country: USA

Satellite Name: Kuiper Gen-1, Gen-2, Polar (S3105/S3051)	
E21. Common Name: Amazon Leo S3105/S3051	E22. ITU Name: USASAT-NGSO-8E/8F
E23. Orbit Location: NGSO	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)
Twin Valley, MN Gateway	AMZN-2.4M	6	Kuiper	24001	2.4	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)
AMZN-2.4M	2.4/2.4	4	322.47	0	100	0	73.8

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)
AMZN-2.4M	17800 18600	R	null	500MG7D	0	0

E50. Modulation and Services

BPSK up to 64 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)
AMZN-2.4M	18800 20200	R	null	500MG7D	0	0

E50. Modulation and Services

BPSK up to 64 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)
AMZN-2.4M	27500 30000	T	null	50M0G7D	53.8	12.8

E50. Modulation and Services

BPSK up to 512 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)
AMZN-2.4M	Non-Geostationary	17800 18600	0 / 0	0 / 360	20 / 20	0

AMZN-2.4MNon-Geostationary18800

202000 / 00 / 36020 / 200AMZN-2.4MNon-Geostationary27500

300000 / 00 / 36020 / 20-43.1

REMOTE CONTROL POINT LOCATION

E61. Call Sign:	E65. Phone Number: 571-400-5004
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E62. Street Address: 18460 NE 76th Street			
E63. City: Redmond	E67. County: King	E64/68. State/Country: undefined / undefined	E66. Zip Code: 98052

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