

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:	DANIEL MURPHY	E6: Phone Number:	509-689-1000
E3: Street:	P.O. BOX 430, 66C	E7: City:	BREWSTER
E4: State:	978e209fdbbd22008e0b75131f9619b1	E8: County:	OKANOGAN
		E9: Zip Code:	98812
E10: Area of Operation:			
E11: Latitude:	48° 8' 48.8"		
E12: Longitude:	119° 42' 4.2"		
E13: Lat/Lon Coordinates are:	nad-83		
E14: Site Elevation (AMSL):	382.8		

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?	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: Planet Labs Flock (S2912)	
E21. Common Name: Planet FLOCK (S2912)	E22. ITU Name: Planet Labs
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)
1	UHF_YAGI	1	M2 INC.	450CP34/400CP30	2.7	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)
UHF_YAGI	0.3/2.7	3.8	386.6	0	100	0	36.5

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	BREW-5	1	NEC	G2573C	7.6	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)
BREW-5	0/0	11.9	394.7	0	1175	0	81

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	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)
UHF_YAGI	401.27 401.33	R	null	60K0F1D	0	0

E50. Modulation and Services DIGITAL

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)
BREW-5	8166.585 8233.415	R	null	66M8G1D	0	0

E50. Modulation and Services
DIGITAL

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 EIRP Density per Carrier (dBW/4kHz)
BREW-5	8099.585 8166.415	R	null	66M8G1D	0	0

E50. Modulation and Services
DIGITAL

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)
BREW-5	2055.345 2056.655	T	null	1M31F1D	46	20.85
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)
UHF_YAGI	450.07 450.13	T	null	60K0F1D	25.48	13.7190874
E50. Modulation and Services						
Digital						

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)
BREW-5	Non-Geostationary	8099.585 8166.415	0 / 0	0 / 360	5 / 5	0

BREW-5Non-Geostationary8166.585
 8233.4150 / 00 / 3605 / 50UHF_YAGINon-Geostationary450.07
 450.130 / 00 / 3605 / 5-13.72BREW-5Non-Geostationary2055.345
 2056.6550 / 00 / 3605 / 5-17.6UHF_YAGINon-Geostationary450.07
 450.130 / 00 / 3605 / 519.72UHF_YAGINon-Geostationary401.27
 401.330 / 00 / 3605 / 50UHF_YAGINon-Geostationary449.97
 450.030 / 00 / 3605 / 5-13.72UHF_YAGINon-Geostationary449.97
 450.030 / 00 / 3605 / 519.72

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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