

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:	The "Little Wine CGW" Gateway	E5: Call Sign:	
E2: Contact Name:	SpaceX NoC	E6: Phone Number:	360-780-3103
E3: Street:	8131 W Bostian Road	E7: City:	Woodinville
E4: State:	978e209fdbbd22008e0b75131f9619b1	E8: County:	Snohomish
		E9: Zip Code:	98072
E10: Area of Operation:	Woodinville, WA		
E11: Latitude:	47° 47' 46.9782"		
E12: Longitude:	122° 7' 37.11"		
E13: Lat/Lon Coordinates are:	nad-83		
E14: Site Elevation (AMSL):	134.4		

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: SpaceX Gen1 (S2983/3018)	
E21. Common Name: SPACEX (S2983/3018)	E22. ITU Name: SPACEX (S2983/3018)
E23. Orbit Location: NGSO	E24. Country: USA

Satellite Name: SpaceX Gen2 (S2992/3069)	
E21. Common Name: SPACEX GEN2 (S3069)	E22. ITU Name: SPACEX GEN2 (S3069)
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)
The "Little Wine CGW" Gateway	CO-1	4	SpaceX	1.47M	1.47	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)
CO-1	1.5/1.5	12.85	134.4	11.15	50	1.7	66.5

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)
CO-1	18800 19300	R	null	480MD7W	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)
CO-1	29500 30000	T	null	480MD7W	60.5	9.7

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)
CO-1	27500 29100	T	null	480MD7W	60.5	9.7

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)
CO-1	17800 18600	R	null	480MD7W	0	0

E50. Modulation and Services

BPSK up to 64 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)
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CO-1	Non-Geostationary	18800 19300	0 / 0	0 / 360	25 / 25	0
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CO-1Non-Geostationary29500

300000 / 00 / 36025 / 25-42.8CO-1Non-Geostationary27500

291000 / 00 / 36025 / 25-42.8CO-1Non-Geostationary17800

186000 / 00 / 36025 / 250

REMOTE CONTROL POINT LOCATION

E61. Call Sign: REDMOND		E65. Phone Number: 360-780-3103	
E62. Street Address: 23020 NE Alder Crest Drive			
E63. City: Redmond	E67. County: King	E64/68. State/Country: undefined / undefined	E66. Zip Code: 98053

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