

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:	Fairbanks (FB5)	E5: Call Sign:	
E2: Contact Name:	Kenneth Johansen	E6: Phone Number:	+4792845684
E3: Street:	900 Bidwell Ave	E7: City:	Fairbanks
E4: State:	072d5cd7dbbd22008e0b75131f96190c	E8: County:	Fairbanks North Star
		E9: Zip Code:	99703
E10: Area of Operation:	Fairbanks, AK		
E11: Latitude:	64° 49' 3.7"		
E12: Longitude:	147° 43' 9"		
E13: Lat/Lon Coordinates are:	nad-83		
E14: Site Elevation (AMSL):	134		

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: OTHER	
E21. Common Name: YAC-1	E22. ITU Name: USASAT-30L-3
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)
Fairbanks (FB5)	FB5	1	CPI Satcom Orbital Systems	5.0TSXS11-5.0m	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)
FB5	5/5	6.9	140.9	0	0	0	0

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)
FB5	2069.29 2069.411	T	null	120KG1D	44.8	30.02

E50. Modulation and Services

TT&C

E28. Antenna Id	E43/44. Frequency Bands	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per	E49. Maximum ERIP Density per Carrier
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	(MHz)				Carrier (dBW)	(dBW/4kHz)
FB5	2069.05 2069.651	T	null	600KG1D	44.8	23.03

E50. Modulation and Services

TT&C

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)
FB5	2071.29 2071.411	T	null	120KG1D	44.8	30.02

E50. Modulation and Services

TT&C

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)
FB5	2065.29 2065.411	T	null	120KG1D	44.8	30.02

E50. Modulation and Services

TT&C

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)
FB5	8039 8327	R	null	288MG7D	0	0

E50. Modulation and Services

Payload 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 EIRP Density per Carrier (dBW/4kHz)
FB5	2071.05 2071.651	T	null	600KG1D	44.8	23.03
E50. Modulation and Services						
TT&C						

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)
FB5	Non-Geostationary	2069.29 2069.411	0 / 0	0 / 0	5 / 5	1.23

FB5Non-Geostationary2069.05
 2069.6510 / 00 / 05 / 5-5.75FB5Non-Geostationary2071.29
 2071.4110 / 00 / 05 / 51.23FB5Non-Geostationary2065.29
 2065.4110 / 00 / 05 / 51.23FB5Non-Geostationary8039
 83270 / 00 / 05 / 50FB5Non-Geostationary2071.05
 2071.6510 / 00 / 05 / 5-5.75

REMOTE CONTROL POINT LOCATION

E61. Call Sign: TNOC		E65. Phone Number: +47 77 60 02 68	
E62. Street Address: Prestvannvegen 38			
E63. City: Tromso	E67. County: Tromso	E64/68. State/Country: undefined / undefined	E66. Zip Code: 9291

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