

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:	FAI_Ku	E5: Call Sign:	
E2: Contact Name:	Rolan Baguyos	E6: Phone Number:	9072273066
E3: Street:	700 N Boniface Pkwy	E7: City:	Anchorage
E4: State:	072d5cd7dbbd22008e0b75131f96190c	E8: County:	Anchorage
		E9: Zip Code:	99506
E10: Area of Operation:	Fairbanks Airport		
E11: Latitude:	64° 48' 37.09"		
E12: Longitude:	147° 50' 46.67"		
E13: Lat/Lon Coordinates are:	nad-83		
E14: Site Elevation (AMSL):	132		

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.	Yes
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?	Yes

POINTS OF COMMUNICATION

Satellite Name: HORIZONS-4

E21. Common Name: HORIZONS-4 (S3180)	E22. ITU Name: HORIZONS-4
E23. Orbit Location: 127 W.L.	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)
FAI_Ku	FAI>Ku	1	CPI	1259	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)
FAI>Ku	0/0	5	134	0	25	0	63.29

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)
FAI>Ku	14000 14500	T	null	386KG7W	50.3	30.4

E50. Modulation and Services

QPSK, 8-QAM, 16-QAM, 16APSK, ULL, Versaf

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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FAI>Ku	Geostationary	14000 14500	127 / 127	157.17 / 157.17	15.04 / 15.04	-19.3
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REMOTE CONTROL POINT LOCATION

E61. Call Sign: ZAN		E65. Phone Number: 9072691808	
E62. Street Address: 700 N Boniface Pkwy			
E63. City: Anchorage	E67. County: Anchorage	E64/68. State/Country: undefined / undefined	E66. Zip Code: 99506

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