## Page 2: Antennas

FEDERAL COMMUNICATIONS COMMISSION
SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B: (Technical and Operational Description)

B4. Earth Station Antenna Facilities: Use additional pages as needed.

			attional pages as needed.	T	T		
(a) Site ID*	(b) Antenna ID**	(c) Quantity	(d) Manufacturer	(e) Model	(f) Antenna Size (meters)	(g) Antenna Gain Transmit and/or Receive (dBi at GHz)	
Tatitlek ES	3.8M	3.8M 1 Patriot Antenna System		TX-380AZ	3.8	46.3 dBi at 6 GHz 42.3 dBi at 4 GHz	
			444				
			- Alexander - Alex	-/40			
					-		

B5. Antenna Heights and Maximum Power Limits: (The corresponding Antenna ID in tables B4 and B5 applies to the same antenna)

(a) Antenna ID**	(b) Antenna Structure Registration No.	Maximum A (c) Above Ground Level (meters)	ntenna Height (d) Above Mean Sea Level (meters)	(e) Building Height Above Ground Level (meters)***	(f) Maximum Antenna Height Above Rooftop (meters)***	(g) Total Input Power at antenna flange (Watts)	(h) Total EIRP for all carriers (dBW)
3.8M		5.6	48.3	N/A	N/A	63	64.3
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Notes: \* If this is an application for a VSAT network, identify the site (Item B1b, Schedule B, Page 1) where each antenna is located. Also include this Site-ID on Schedule B, Page 5.

\*\* Identify each antenna in VSAT network or multi-antenna station with a unique identifier, such as HUB, REMOTEI, A1, A2, 10M, 12M, 7M, etc. Use this same antenna ID throughout tables B4, B5, B6, and B7 when referring to the same antenna.

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<sup>\*\*\*</sup> Attach sketch of site or exemption, See 47 CFR Part 17.

## FEDERAL COMMUNICATIONS COMMISSION SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B: (Technical and Operational Description)

Page 3: Coordination

B6. Frequency Coordination Limits: Use additional pages as needed.

(a) Antenna ID*	(b) Frequency Limits (MHz)	(c) Range of Satellite Arc Eastern Limit**	(d) Range of Satellite Arc Western Limit**	(e) Antenna Elevation Angle Eastern Limit	(f) Antenna Elevation Angle Western Limit	(g) Earth Station Azimuth Angle Eastern Limit	(h) Earth Station Azimuth Angle Western Limit	(i) Maximum EIRP Density toward the Horizon (dBW/4kHz
3.8M	5925.0000 - 6425.0000	87.0 West	194.0 West	5.6	10.7	117.1	231.1	-1.9
3.8M	3700.0000 - 4200.0000	87.0 West	194.0 West	5.6	10.7	117.1	231.1	N/A
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Notes: \* Provide the ANTENNA-ID from table B4 to identify the antenna to which each frequency band and orbital arc range is associated.

\*\* If operating with geostationary satellites, give the orbital arc limits and the associated elevation and azimuth angles. If operating with non-geostationary satellites, give the notation "NON-GEO" for the satellite arc and give the minimum operational elevation angle and the maximum azimuth angle range.

## Page 4: Particulars

## FEDERAL COMMUNICATIONS COMMISSION SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B: (Technical and Operational Description)

B7. Particulars of Operation (Full particulars are required for each r.f. carrier): Use additional pages as needed.

B/. Particulars	Particulars of Operation (Full particulars are required for each r.f. carrier): Use additional								
(a) Antenna ID*	(b) Frequency Bands (MHz)	(c) T/R Mode **	(d) Antenna Polarization (H,V,L,R)	(e) Emission Designator		(g) Maximum EIRP Density per Carrier (dBW/4kHz)			
3.8M	5925.0000 - 6425.0000	Т	H, V	45K0G7W-36M0G7W	43.52 - 64.3	33.2	PSK modulation for telephony, facsimile, and data		
3.8M	3700.0000 - 4200.0000	R	н, v	45K0G7W-36M0G7W	N/A	N/A	PSK modulation for telephony, facsimile, and data		
3.8M	5925.0000 - 6425.0000	Т	н, ∨	60K0D7W-36M0D7W	43.52 - 64.3	33.2	QAM modulation for telephony, facsimile, and data		
3.8M	3700.0000 - 4200.0000	R	н, v	60K0D7W-36M0D7W	N/A	N/A	QAM modulation for telephony, facsimile, and data		
				d					
				.,,					

Notes: \* Provide the ANTENNA-ID from table B4 to identify the antenna to which each frequency band and emission is associated. For VSAT networks, include frequencies and emissions for all HUB and REMOTE units.

\*\* Indicate whether the earth station transmits or receives in each frequency band.