

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS
Technical and Operational Description)

(Place an "X" in one of the blocks below)

License of New Station Registration of new Domestic Receive-Only Station Amendment to a Pending Application Modification of License/Registration Notification of Minor Modification

B1. Location of Earth Station Site. If temporary-fixed, mobile, or VSAT remote facility, specify area of operation and point of contact. If VSAT hub station, give its location. For VSAT networks attach individual Schedule B, Page 1 sheets for each hub station and each remote station. Individually provide the Location, Points of Communications, and Destination Points for each hub and remote station.

B1a. Station Call Sign		B1b. Site identifier (HUB, REMOTE1, etc.)		B1c. Telephone Number (650) 966 - 2330		B1j. Geographic Coordinates N/S, Deg. - Min. - Sec. - E/W		B1k. Lat./Lon. Coordinates are:		
B1d. Mailing Street Address of Station or Area of Operation 2305 Mission College Boulevard				B1e. Name of Contact Person Lee Campbell				Lat. 37° 23' 26.9" N Lon. 121° 58' 0.1" W		<input type="checkbox"/> NAD-27 <input checked="" type="checkbox"/> NAD-83
B1f. City Santa Clara		B1g. County Santa Clara		B1h. State CA	B1i. Zip Code 95054		B1l. Site Elevation (AMSL) 7.6 meters			

B2. Points of Communications: List the names and orbit locations of all satellites with which this earth station will communicate. The entry "ALSAT" is sufficient to identify the names and locations of all satellite facilities licensed by the U.S. All non-U.S. licensed satellites must be listed individually.

Satellite Name and Orbit Location	Satellite Name and Orbit Location	Satellite Name and Orbit Location
ALSAT		

B3. Destination points for communications using non-U.S. licensed satellites. For each non-U.S. licensed satellite facility identified in section B2 above, specify the destination point(s) (countries) where the services will be provided by this earth station via each non-U.S. license satellite system. Use additional sheets as needed.

Satellite Name	List of Destination Points

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

(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)
Santa Clara	AC1	1	Andrew Corp.	ES46	4.6	44.4 dBi at 3.950 GHz 48.2 dBi at 6.175 GHz

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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 Antenna Height		(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)
		(c) Above Ground Level (meters)	(d) Above Mean Sea Level (meters)				
AC1		12.5	20.1	7.6	4.9	105.0	68.4

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)
AC1	3700.0 – 4200.0	50.0° W.L.	194.0° W.L.	5.6°	5.5°	101.2°	258.9°	
AC1	5925.0 – 5930.0	50.0° W.L.	194.0° W.L.	5.6°	5.5°	101.2°	258.9°	2.3
AC1	6019.7 – 6038.6	50.0° W.L.	194.0° W.L.	5.6°	5.5°	101.2°	258.9°	2.3
AC1	6089.0 – 6110.5	50.0° W.L.	194.0° W.L.	5.6°	5.5°	101.2°	258.9°	2.3
AC1	6135.7 – 6182.1	50.0° W.L.	194.0° W.L.	5.6°	5.5°	101.2°	258.9°	2.3
AC1	6212.4 – 6241.4	50.0° W.L.	194.0° W.L.	5.6°	5.5°	101.2°	258.9°	2.3
AC1	6271.7 – 6360.0	50.0° W.L.	194.0° W.L.	5.6°	5.5°	101.2°	258.9°	2.3
AC1	6390.3 – 6425.0	50.0° W.L.	194.0° W.L.	5.6°	5.5°	101.2°	258.9°	2.3

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.

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

(a) Antenna ID*	(b) Frequency Limits (MHz)	(c) T/R Mode **	(d) Antenna Polarization (H,V,L,R)	(e) Emission Designator	(f) Maximum EIRP per Carrier (dBW)	(g) Maximum EIRP Density per Carrier (dBW/4kHz)	(h) Description of Modulation and Services
AC1	3700.0 – 4200.0	R	H,V,L,R	15K0G7D			Digital Data
		R	H,V,L,R	5M00G7D			Digital Data
AC1	5925.0 – 5930.0	T	H,V,L,R	15K0G7D -	43.0 to	37.3 to	Digital Data
		T	H,V,L,R	4M80G7D	68.1	37.3	Digital Data
	6019.7 – 6038.6	T	H,V,L,R	15K0G7D -	43.0 to	37.3 to	Digital Data
		T	H,V,L,R	5M00G7D	68.3	37.3	Digital Data
	6089.0 – 6110.5	T	H,V,L,R	15K0G7D -	43.0 to	37.3 to	Digital Data
		T	H,V,L,R	5M00G7D	68.3	37.3	Digital Data
	6135.7 – 6182.1	T	H,V,L,R	15K0G7D -	43.0 to	37.3 to	Digital Data
		T	H,V,L,R	5M00G7D	68.3	37.3	Digital Data
	6212.4 – 6241.4	T	H,V,L,R	15K0G7D -	43.0 to	37.3 to	Digital Data
		T	H,V,L,R	5M00G7D	68.3	37.3	Digital Data
6271.7 – 6360.0	T	H,V,L,R	15K0G7D -	43.0 to	37.3 to	Digital Data	
	T	H,V,L,R	5M00G7D	68.3	37.3	Digital Data	
6390.3 – 6425.0	T	H,V,L,R	15K0G7D -	43.0 to	37.3 to	Digital Data	
	T	H,V,L,R	5M00G7D	68.3	37.3	Digital Data	

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.

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If VSAT Network, provide the SITE-ID (Item B1b) of the station that B8-B13 are in response to (HUB, REMOTE1, etc.): _____

B8. 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 measurements? If NO, provide as an exhibit, a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO												
B9. 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(a2) and (b) as demonstrated by the manufacturer's qualification measurement?	<input type="checkbox"/> YES	<input type="checkbox"/> NO												
B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO												
Remote Control Point Location:														
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4" style="padding: 2px;">B10a. Street Address</td> </tr> <tr> <td style="width:33%; padding: 2px;">B10b. City</td> <td style="width:25%; padding: 2px;">B10c. County</td> <td style="width:25%; padding: 2px;">B10.d. State/Country</td> <td style="width:17%; padding: 2px;">B10e. Zip Code</td> </tr> <tr> <td style="padding: 2px;">B10f. Telephone Number</td> <td colspan="3" style="padding: 2px;">B10g. Call Sign of Control Station (if appropriate)</td> </tr> </table>			B10a. Street Address				B10b. City	B10c. County	B10.d. State/Country	B10e. Zip Code	B10f. Telephone Number	B10g. Call Sign of Control Station (if appropriate)		
B10a. Street Address														
B10b. City	B10c. County	B10.d. State/Country	B10e. Zip Code											
B10f. Telephone Number	B10g. Call Sign of Control Station (if appropriate)													
B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO												
B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO												
B13. FAA Notification - (See 47 CFT Part 17 and 47 CFT Part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFT PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO												