FCC 312		FL	EDERAL COMMUNICA	TIONS (COMMISSION	V	I	Page 1: Location
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	0	of new Domestic ve-Only Station	Amendment to a Pending App	olication	Modification of Li	icense/Registr	ration Notification of M	inor Modification
B1. Location of Earth Station S	For	VSAT networks	nobile, or VSAT remote facility, attach individual Schedule B, Pa Communications, and Destination	age 1 sheets	for each hub static	on and each		
	ite identifier 2-DIVER	(HUB, REMOTE1,	etc.) B1c. Telepho 210-528				phic Coordinates N/S, - Min Sec E/W	B1k. Lat./Lon. Coordinates are:
B1d. Mailing Street Address of Station of 10647 Gulfdale Dr						Lat. 29° - 32 Lon. 98°- 29	"-13" N "-27" W_	NAD-27 NAD-83
B1f. City San Antonio	B1g. Coun Bexa			B1h. State	B1i. Zip Code 78216		B11. Site Elevation (AMSL) 262 meters	
B2. Points of Communications			rbit locations of all satellites wit					
Satellite Name and Orbit Loca	tion		Satellite Name and Orbit Lo	cation		Satellite N	ame and Orbit Location	•
AMC21 Satellite at 125 degr	ees West	•						
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 Destina	ntion Points					

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FCC Form 312 - Schedule B: (Technical and Operational Description)

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 atGHz)
	HUB2-DIVERSE	1	Prodelin	1241-3110	2.4m	47.4 dBi at 12 GHz 49.2 dBi at 14 GHz

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 Ar (c) Above Ground Level (meters)	(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)
HUB2- DIVERSE		2.4	264.4			33	64.1

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, REMOTE1, A1, A2, 10M, 12M, 7M, etc. Use this same antenna ID throughout tables B4, B5, B6, and B7 when referring to the same antenna.
- *** Attach sketch of site or exemption, See 47 CFR Part 17.

FEDERAL COMMUNICATIONS COMMISSION APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS

FCC Form 312 - Schedule B: (Technical and Operational Description)

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

(a)	(b)	(c) Range of	(d) Range of	(e) Antenna	(f) Antenna	(g) Earth Station	(h) Earth Station	(i) Maximum EIRP
Antenna ID*	Frequency Limits	Satellite Arc	Satellite Arc	Elevation Angle	Elevation Angle	Azimuth Angle	Azimuth Angle	Density toward the
	(MHz)	Eastern Limit**	Western Limit**	Eastern Limit	Western Limit	Eastern Limit	Western Limit	Horizon (dBW/4kHz)
HUB2-	11700.000 - 12200.000	61.0	135.0	36.7	37.5	122.7	236.4	
DIVERSE								
HUB2-	14000.000 - 14500.000	61.0	135.0	36.7	37.5	122.7	236.4	-26.19
DIVERSE								
BIVELLOE								

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.

FEDERAL COMMUNICATIONS COMMISSION APPLICATION FOR SATELLITE SPACE AND 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.

	or operation (1 air partieu				,	1 8	
(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
HUB2- DIVERSE	11700.000 – 12200.000	R	H,V	5M00G1D			Data Transmission.
HUB2- DIVERSE	14000.000 – 14500.000	Т	H,V	5M00G1D	64.10	33.13	Data Transmission.

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.

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

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

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B8. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna 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.		□ 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	☐ YES	□ NO						
Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurement?								
B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	☐ YES	⊠ NO						
Remote Control Point Location:								
B10a. Street Address								
B10b. City B10c. County B10.d. State/Country	B10e. Zip Code	10e. Zip Code						
B10g. Call Sign of Control Station (if appropri	iate)							
B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit. YES 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. YES NO								
B13. FAA Notification - (See 47 CFT Part 17and 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? YES NO								
FAILURE TO COMPLY WITH 47 CFT PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION								