FCC 312		FF	DERAL COM	MINICA	TIONS (COMMISSION	I			Page 1: Loca	ation	
Schedule B	APPLIC		SATELLITE S Technical a	PACE AN	ND EART	TH STATION escription)		RIZATI	ONS			
License of New Station	Registration	of new Domestic [Amendment to a	Pending App	lication	Modification of Lic	cense/Registra	ntion	Notification of I	Minor Modification	n	
B1. Location of Earth Station S	For VS	SAT networks atta	oile, or VSAT remo ach individual Sche nmunications, and l	edule B, Pag	e 1 sheets f	or each hub station	and each re				n	
	Site identifier USHI01	(HUB, REMOTE1, et	c.)	B1c. Telephor (808) 9	ne Number 29-8069		B1j. Geographic Coordinates N/S, Deg Min Sec E/W B1k. Lat./Lo					
B1d. Mailing Street Address of Station 93-1704 South Point Roa	•	eration	B1e. Name of Contact Person Joanne Greet			Lat. <u>19</u> 4 Lon. <u>155</u>		50.3" N 46.6" W	NAD-			
B1f. City Naalehu	B1g. Count	y J			B1h. State	B1i. Zip Code 96772-0842		B11. Site E	levation (AMSL)	378.0 meter		
B2. Points of Communications:			t locations of all sate									
Satellite Name and Orbit Loca	at <u>ion</u>		Satellite Name and Orbit Location					Satellite Name and Orbit Location				
ALTAIR Pathfinder FCC license pending 0017-E	X-ST-2017	7										
International Space Station of												
B3. Destination points for comm destination point(s) (countries) w												
Satellite Name		List of Destinat	ion Points									

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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)
USHI01	HI-13M	1	Datron	1453	13.0	46.9 dBi at 2.245 GHz 45.9 dBi at 2.067 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)	tenna 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)
HI-13M		20.0	398.0	(meters)	(meters)	200.0	68.9

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.

Page 3: Coordination

APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS

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

		1						
(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)
	2072 422							
HI-13M	2250.180	0.0° W.L.	360.0° W.L.	5.0°	5.0°			
HI-13M	2072.011	0.0° W.L.	360.0° W.L.	5.0°	5.0°			3.6
		=						

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.

D7. I di ticulai 5	or Operation (Full particu	iais aic ic	quired for ca	ich i.i. carrier)	. Osc additiona	pages as need	ucu.
(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
HI-13M	2250.180	R	L, R	1M50G2D			1.5 Mbps data OQPSK
HI-13M	2072.011	Т	L, R	40KG2D	62.0	45.0	2 kbps data BPSK modulated onto an 16 kHz subcarrier
		+					

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 comply with the antenna gain patterns sp measurements? If NO, provide as an ext		YES	□ NO	N/A						
B9. If the proposed antenna(s) do not operate										
	do(es) the proposed antenna(s) comply with		ns specified in	× Y	YES	NO				
	ted by the manufacturer's qualification measu		al maint							
B10. Is the facility operated by remote control	or. If 1 Es, provide the location and telephon	ie number of the contro	от роши.	X Y	YES	□ NO				
Remote Control Point Location:										
B10a. Street Address										
417 Caredean Drive Sui	ite A									
B10b. City	B10c. County		B10.d. State/Country	I	B10e. Zip Code					
Horsham	Montgomery		PA		19044					
B10f. Telephone Number		B10g. Call Sign of Con	trol Station (if appropriate)							
215-328-9130										
B11. Is frequency coordination required? If	YES, attach a frequency coordination report a	as an exhibit.		<u> </u>						
				× Y	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		YES	\bowtie NO							
B13. FAA Notification - (See 47 CFT Part		VEC	M NO							
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										