FCC 312	DE		HOATHONG O		T		Pag	e 1: Location		
Schedule B		EDERAL COMMUN								
APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS										
		Technical and C	Operational De in one of the blocks be							
		<u> </u>								
	n of new Domestic ve-Only Station	Amendment to a Pendi	ng Application	Modification of Lic	cense/Registra	tion Notificat	ion of Minor	Modification		
	SAT networks at	tach individual Schedule	B, Page 1 sheets for	or each hub station	and each re					
	r (HUB, REMOTE1, o	mmunications, and Destir	Telephone Number	ach nub and remot		hic Coordinates N	/ C	B1k. Lat./Lon.		
USHI01	I (HOB, KEMOTEI, 6		808) 929-8069			Min Sec E/	*	Coordinates are:		
B1d. Mailing Street Address of Station or Area of C	peration	B1e. Name of Contact Person								
93-1704 South Point Road		Joanne Greet			Lat. <u>19°</u>			NAD-27		
93-1704 South Point Road		Joannie Greek			Lon. <u>155</u> °	<u>39'</u> 46.6"	VV	NAD-83		
B1f. City B1g. Cou	•		B1h. State	B1i. Zip Code		B11. Site Elevation (A	,	•		
Naalehu Ka	<u>u</u>		HI	96772-0842			378.	0 meters		
		it locations of all satellite locations of all satellite f								
Satellite Name and Orbit Location		Satellite Name and Or	bit Location		Satellite Name and Orbit Location					
KARI GK-2A 128.2 degrees east										
B3. Destination points for communication destination point(s) (countries) where the so								the		
Satellite Name	List of Destina									
GK-2A (GK2-128.2E)	KARI - South	Korean Aerospace Res	earch Institute							

FEDERAL COMMUNICATIONS COMMISSION APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS 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)
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

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

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

HI-13M 2283.212 0.0 W.L. 360.0 W.L. 5.0 5.0 9.6 HI-13M 2102.458 0.0° W.L. 360.0° W.L. 5.0° 5.0° 9.6	(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)
HI-13M 2102.458 0.0° W.L. 360.0° W.L. 5.0° 5.0° 9.6						5.0			
	HI-13M	2102.458	0.0° W.L.	360.0° W.L.	5.0°	5.0°			9.6

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.

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.

(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	2283.212	R	L, R	200KG2D		(ub W/+RHZ)	4 kbps data is PSK modulated into a 65.5 kHz subcarrier with 100 kHz
HI-13M	2102.458	Т	L, R	200KG2D	68.0	51.0	2 kbps data PSK modulated onto an 8 kHz subcarrier with 100 kHz major ranging tones

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>						
				\boxtimes 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							
D44 71 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
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										