FCC 312			Page 1: Location							
Schedule B	FEDERAL COMMUNICA	ATIONS COMMISSION	N							
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 Amendment to a Pending Application Modification of License/Registration Notification of Minor Modification Receive-Only Station										
<b>B1. Location of Earth Station Site.</b> 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 identifie USHI01	r (HUB, REMOTE1, etc.) B1c. Telepho (808)	one Number 929-8069	B1j. Geographic CoordinatesN/S,B1k. Lat./Lon.Deg Min Sec E/WCoordinates are:							
B1d. Mailing Street Address of Station or Area of O	peration B1e. Name of Contact Person		Lat 19° 00' 50 3" N							
93-1704 South Point Road	Joanne Greet-Swank		Lat. $\underline{19^{\circ}}$ $\underline{00'}$ $\underline{50.3''}$ N       NAD-27         Lon. $\underline{155^{\circ}}$ $\underline{39'}$ $\underline{46.6''}$ W       NAD-83							
B1f. City Naalehu Ka		B1h. State         B1i. Zip Code           HI         96772-0842	B11. Site Elevation (AMSL)							
	the names and orbit locations of all satellites winames and locations of all satellite facilities licer		communicate. The entry "ALSAT" is sufficient to identify licensed satellites must be listed individually.							
Satellite Name and Orbit Location	Satellite Name and Orbit Lo		Satellite Name and Orbit Location							
GIOVE-B										
	ons using non-U.S. licensed satellites. For each like provided by this earth station via each non-U		cility identified in section B2 above, specify the destination Jse additional sheets as needed.							
Satellite Name	List of Destination Points									
GIOVE-B	CNES (Non US Spacecraft)									

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

Antenna ID**	(c) Quantity	(d) Manufacturer	(e) Model	(f) Antenna Size (meters)	(g) Antenna Gain Transmit and/or Receive (dBi atGHz)
HI-13M	1	Datron	1453	13.0	46.3 dBi at 2.090 GHz 47.2 dBi at 2.270 GHz
	HI-13M	HI-13M 1	HI-13M 1 Datron	HI-13M       1       Datron       1453         Image: Imag	

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

		Maximum Antenna Height		(e) Building	(f) Maximum	(g) Total Input	
(a)	(b) Antenna Structure	(c) Above	(d) Above	Height Above	Antenna Height	Power at	(h) Total EIRP
Antenna	Registration No.	Ground Level	Mean Sea Level	Ground Level	Above Rooftop	antenna flange	for all carriers
ID**		(meters)	(meters)	(meters)***	(meters)***	(Watts)	(dBW)
HI-13M	N/A	20.0	398.0	N/A	N/A	200.0	68.9
				Not on a building	Max bldge ht is 10"		

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.

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)
HI-13M	2225.025	Non-GEO	Non-GEO	5.0°	5.0°	0-360	0 - 360	
	2223.023	NUIFOLO		5.0	5.0	0-300	0 - 300	
HI-13M	2048.877	Non-GEO	Non-GEO	5.0°	5.0°	0 – 360	0 – 360	11.1dBw
			1	1	1	1		

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.

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

						1.9	
(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	2225.025	R	L, R	448K0G2D			16 kbps data is PSK modulated onto 224 kHz Subcarrier
HI-13M	2048.877	Т	L, R	200K0G2D	68.0	51.0	2 kbps data PSK modulated onto a 8 kHz subcarrier with 100 kHz major ranging tones
		1					
		ļ					

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.

If VSAT Network, provide the SITE-ID (Item B1b) of the station that B8-B13 are in response to (HUB, REMOTE1, etc.): N/A not VSAT network

B8. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with <b>geostationary</b> 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 generation with two-degree spacing policy.								N/A	
	e proposed antenna(s) do not operate in the Fixed Satelli ) with <b>non-geostationary</b> satellites, do(es) the proposed	$\boxtimes$	YES						
	ion $25.209(a2)$ and (b) as demonstrated by the manufactu								
	he facility operated by remote control? If YES, provide	ol point.							
			$\boxtimes$	YES					
	Remote Control Point Location:								
	B10a. Street Address								
	417 Caredean Drive Suite A								
	B10b. City	B10c. County		B10.d. State/Country		B10e. Zip Code			
_	Horsham	Montgomery	T	PA		19044			
	B10f. Telephone Number	trol Station (if appropriate)							
215-328-9130									
D11 I		1	1 11 1						
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, attac	the name of the count	rv(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 YES XO									
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									