FCC 312		FE	DERAL COM	IMUNICA	TIONS (COMMISSION	N			Page 1: Locat	ion	
Schedule B	PPLICA		SATELLITE S Technical :	SPACE A	ND EART	TH STATION escription)		RIZATI	ONS			
License of New Station Re		new Domestic Only Station	Amendment to	a Pending App	lication	Modification of Li	cense/Registr	ation	Notification of l	Minor Modification		
B1. Location of Earth Station Site	For VSA	AT networks att	bile, or VSAT rem each individual Sch mmunications, and	hedule B, Pag	ge 1 sheets f	or each hub statio	n and each r					
	e identifier (H SHI01	IUB, REMOTE1, e	etc.) B1c. Telephone Number (808) 929-8069					B1j. Geographic Coordinates N/S, Deg Min Sec E/W B1k. Lat./Lon Coordinates at				
B1d. Mailing Street Address of Station or . 93-1704 South Point Road	•	ntion	B1e. Name of Contact Person Joanne Greet				Lat. <u>19</u> Lon. <u>155</u>		50.3" N 46.6" W	NAD-27		
B1f. City Naalehu	B1g. County Ka'u				B1h. State	B1i. Zip Code 96772-0842	2	B11. Site E	Elevation (AMSL)	378.0 meters		
B2. Points of Communications:			t locations of all sat									
Satellite Name and Orbit Locati	on		Satellite Name a	•	Satellite Name and Orbit Location							
Galileo Constellation (GSAT21) GSAT217, and GSAT218) MEC	16,											
B3. Destination points for commudestination point(s) (countries) whe												
Satellite Name		List of Destinat										
Galileo – GSAT215 (MSATNA)		ESA (Non US										
Galileo – GSAT216 (MSATNA)		ESA (Non US										
Galileo – GSAT217 (MSATNAV-2) ESA (Non US Spacecraft)												
Galileo – GSAT218 (MSATNAV-2) ESA (Non US Spacecraft)												

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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

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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	2215.818	0.0 W.L.	360.0 W.L.	5.0	5.0			,
HI-13M	2221.956	0.0° W.L.	360.0° W.L.	5.0°	5.0°			
HI-13M	2228.094	0.0° W.L.	360.0° W.L.	5.0°	5.0°			
HI-13M	2234.232	0.0° W.L.	360.0° W.L.	5.0°	5.0°			
HI-13M	2046.051	0.0° W.L.	360.0° W.L.	5.0°	5.0°			9.6
HI-13M	2051.703	0.0° W.L.	360.0° W.L.	5.0°	5.0°			9.6
HI-13M	2057.355	0.0° W.L.	360.0° W.L.	5.0°	5.0°			9.6
HI-13M	2040.399	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.

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

	or Operation (Full particula		quired for et	ten in earlier)	· ese additiona	pages as nee-	
(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	2215.818	R	L, R	510KG2D		, ,	20 kbps data is PSK modulated into a 255 kHz subcarrier with 100 kHz
HI-13M	2221.956	R	L, R	510KG2D			20 kbps data is PSK modulated into a 255 kHz subcarrier with 100 kHz tone
HI-13M	2228.094	R	L, R	510KG2D			20 kbps data is PSK modulated into a 255 kHz subcarrier with 100 kHz tone
HI-13M	2234.232	R	L, R	510KG2D			20 kbps data is PSK modulated into a 255 kHz subcarrier with 100 kHz
HI-13M	2046.051	Т	L, R	200KG2D	68.0	51.0	2 kbps data PSK modulated onto an 8 kHz subcarrier with 100 kHz major ranging tones
HI-13M	2051.703	Т	L, R	200KG2D	68.0	51.0	2 kbps data PSK modulated onto an 8 kHz subcarrier with 100 kHz major ranging tones
HI-13M	2057.355	Т	L, R	200KG2D	68.0	51.0	2 kbps data PSK modulated onto an 8 kHz subcarrier with 100 kHz major ranging tones
HI-13M	2040.399	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 1ES, 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							
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										