FCC 312	1010	DEDAL COMM		PIONG C		т			Page 1:	Location		
Schedule B		DERAL COMM										
APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS												
		Technical an		tional De the blocks be								
License of New Station Registration of new Domestic Amendment to a Pending Application Modification of License/Registration Notification of Minor Modification Receive-Only Station												
	SAT networks att	tach individual Sched	lule B, Pag	e 1 sheets for	or each hub station	and each re						
		mmunications, and D			ach hub and remot		~					
USHI01	(HUB, REMOTE1, e	etc.) F	31c. Telephon (808) 92	e Number 29-8069		B1j. Geograp Deg		ates N/S, Sec E/W		. Lat./Lon. ordinates are:		
B1d. Mailing Street Address of Station or Area of Ope	eration	B1e. Name of Contact P	erson			4.0		- 0.0" N		NAD-27		
93-1704 South Point Road		Joanne Greet		Lat. <u>19°</u> Lon. <u>155°</u>						NAD-83		
B1f. City B1g. Count	ty	B1h. State B1i. Zip Code				B11. Site E	Elevation (AMSL)					
Naalehu Ka'ı	u			HI	96772-0842				378.0	meters		
		it locations of all sate locations of all satell										
Satellite Name and Orbit Location		Satellite Name and Orbit Location				Satellite Name and Orbit Location						
SPACEIL - Lunar tranfer orbit												
B3. Destination points for communication destination point(s) (countries) where the ser												
Satellite Name	List of Destinat	tion Points				•						
SPACEIL (Lunar mission)	Israeli (Non US	S Spacecraft)										

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.

(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	2280.000	0.0 W.L.	360.0 W.L.	5.0	5.0			
HI-13M	2099.500	0.0° W.L.	360.0° W.L.	5.0°	5.0°			4.8

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	2280.000	R	L	2M50G2D		(ub W/+RTIZ)	60 kbps data is PSK modulated into a 1024 kHz subcarrier with 413 kHz
							ranging subcarrier
HI-13M	2099.500	Т	R	826KG2D	68.0	44.8	1 kbps data PSK modulated onto an 16 kHz subcarrier with 413 kHz ranging 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.

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.):

con	e proposed antenna(s) operate in the Fixed Satellite Servaply with the antenna gain patterns specified in Section 2: surements? If NO, provide as an exhibit, a technical ana		YES	□ NO	N/A					
	e proposed antenna(s) do not operate in the Fixed Satelli									
	b) with non-geostationary satellites, do(es) the proposed			ns specified in	\bowtie	YES	NO			
	ion 25.209(a2) and (b) as demonstrated by the manufactu	•		1 ',						
B10. IS	the facility operated by remote control? If YES, provide	the location and telephor	ne number of the contro	oi point.		YES	□ NO			
	Remote Control Point Location:									
Γ	B10a. Street Address									
	417 Caredean Drive Suite A									
	B10b. City	B10c. County		B10.d. State/Country		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 freque	ncy coordination report	as an exhibit.			T/E/C				
			\bowtie	YES	∐ NO					
D10 I	1, 4, 74 4 7 10 ICAEC 4	1.4 6.1	<i>(</i> ')							
	coordination with another country required? If YES, attac		VEC	M NO						
an	d plot of coordination contours as an exhibit.	Ш	YES	\bowtie NO						
R13 FA	B13. FAA Notification - (See 47 CFT Part 17and 47 CFT Part 25.113(c))									
			YES	\bowtie 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? YES NO									
FAILURE TO COMPLY WITH 47 CFT PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION										
FAILURE TO COME LE WITH 77 CFT FARIS 17 AND 25 WILL RESULT IN THE RETURN OF THIS ATTLICATION										