FCC 312	FEDERA	L COMMUNICATIONS COMMISSION	Page 1: Location				
Schedule B	SATELLIT						
	(Tech	inical and Operational Description)					
		(Place an "X" in one of the blocks below)					
License of New Station	Registration of New Domestic Receive-Only Station	ndment to a Pending Application Modification of Licer	ense/Registration Notification of Minor Modification				
B1. Location of Earth Station Site. If temporary-fixed, mobile, or VSAT remote facility, specify area of operation and point of contact. If VSAT hub station, give its lo For VSAT networks attach individual Schedule B, Page 1 sheets for each hub station and each remote station. Individually provide t Location, Points of Communications, and Destination Points for each hub and remote station.							
B1a. Station Call Sign	B1b. Site Identifier (HUB, REMOTE1, etc.)	B1c. Telephone Number	B1j. Geographic Coordinates N/S, B1k. Lat./Lon. Deg Min Sec E/W Coordinates are:				
	O3b Six-Ship Waiver	703.366.1500	Deg Min Sec E/W Coordinates are:				
B1d. Street Address of Station or	Area of Operation	B1e. Name of Contact Person	Lat 0 0 0 NAD-27				

bid. Biteet Address of Button of Afea of Operation	Die. Hume of Contact Person							
Maritime earth stations operating in U.S. waters on for	reign vessels	O3b Netwo	ork Operatio	ns Center	Lon	0 0	0	NAD-83
B1f. City	B1g. County		B1h. State	B1i. Zip Code		B11. Site Ele	vation (AMSL)	
						0 meters		meters

B2. Points of Communications: List the names and orbit locations of all satellites with which this earth station will communicate. The entry "ALSAT" is sufficient to identify the names and locations of all satellite facilities licensed by the U.S. All non-U.S. licensed satellites must be listed individually.

Satellite Name and Orbit Location	Satellite Name and Orbit Location	Satellite Name and Orbit Location
O3b Constellation		

B3. Destination points for communications using non-U.S. licensed satellites. For each non-U.S. licensed satellite facility identified in section B2 above, specify the destination point(s) (countries) where the services will be provided by this earth station via each non-U.S. licensed satellite system. Use additional sheets as needed.

Satellite Name	List of Destination Points
O3b Constellation	See narrative

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 at GHz)
O3b Six-Ship Waiver	Orb2.2	18	Orbit Communications	AL-7107-Ka	2.2	48.5 dBi @ 18.3 GHz 52.5 dBi @ 28.3 GHz

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

	8		1 8						
(a) Antenna ID**	(b) Antenna Structure Registration No.	Maximum An (c) Above Ground Level (meters)	ntenna 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)		
Orb2.2		0	30	0	0	35	67.9		

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.

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)
0100	17800 - 18300	NON-GEO		10	10	100		N1/A
Orb2.2 Orb2.2	27600 - 28350		NON-GEO NON-GEO	10 10	10 10	100	260	N/A -21.6
Ord2.2	27600 - 28350	NON-GEO	NON-GEO	10	10	100	260	-21.0

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.

(a)	(b)	(c) T/R	(d) Antenna				
(a) Antenna ID*	(b) Frequency Bands (MHz)	Ť/Ŕ Mode **	Polarization (H,V,L,R)	(e) Emission Designator		(g) Maximum EIRP Density per Carrier (dBW/4kHz)	
Orb2.2	17800 - 18300	R	LHC & RHC	216MG7D	N/A	N/A	Various Modulations up to 32APSK; Digital Data Link
Orb2.2	27600 - 28350	Т	LHC & RHC	49M2G7D	67.9	27.0	Various Modulations up to 32APSK; Digital Data Link
Orb2.2	27600 - 28350	Т	LHC & RHC	108MG7D	67.9	23.6	Various Modulations up to 32APSK; Digital Data Link

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.):

con	ne proposed antenna(s) operate in the Fixed Satellite Service (F nply with the antenna gain patterns specified in Section 25.209(asurements? If NO, provide as an exhibit, a technical analysis s	er's qualification		YES	NO					
(FS	he proposed antenna(s) do not operate in the Fixed Satellite Ser S) with non-geostationary satellites, do(es) the proposed anter tion 25.209(a2) and (b) as demonstrated by the manufacturer's	×	YES	NO						
B10. Is	the facility operated by remote control? If YES, provide the lo Remote Control Point Location:	×	YES	NO						
	B10a. Street Address 8000 Gainsford Court									
	B10b. City B10c. County B10d. State / Country Prince William VA						le			
	B10f. Telephone Number 703.366.1500		B10g. Call Sign of Control Station	on (if appropriate)						
B11. Is	frequency coordination required? If YES, attach a frequency c	oordination report	t as an exhibit.			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 exhibit.							×NO			
B13. FAA Notification - (See 47 CFR Part 17 and 47 CFR Part 25.113(c)) 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?							×NO			
FA	FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.									