

<b>FCC 312</b> <b>Schedule S</b>	<b>FEDERAL COMMUNICATIONS COMMISSION</b> <b>SATELLITE SPACE STATION AUTHORIZATIONS</b> <b>(Technical and Operational Description)</b>	<b>Page 1: General,</b> <b>Frequency Bands,</b> <b>and GSO Orbit</b>
-------------------------------------	---	--

**S1. GENERAL INFORMATION** Complete for all satellite applications.

a. Space Station or Satellite Network Name:	e. Estimated Date of Placement into Service:	i. Will the space station(s) operate on a Common Carrier basis? <input type="checkbox"/> YES <input type="checkbox"/> NO
b. Construction Commencement Date:	f. Estimated Lifetime of Satellite(s): <div style="text-align: right;">Years</div>	j. Number of transponders offered on a Common Carrier basis:
c. Construction Completion Date:	g. Total Number of Transponders:	k. Total Common Carrier Transponder Bandwidth: <div style="text-align: right;">MHz</div>
d. Estimated Launch Date:	h. Total Transponder Bandwidth (No. Transponders x Bandwidth): <div style="text-align: right;">MHz</div>	l. Orbit Type: Mark all boxes that apply. <input type="checkbox"/> GSO <input type="checkbox"/> NGSO

**S2. OPERATING FREQUENCY BANDS** Identify the frequency range and transmit/receive mode for all frequency bands in which this station will operate. Also indicate the nature of service(s) for each frequency band.

Frequency Band Limits				e. T/R Mode	f. Nature of Service(s): List all that apply to this band
Lower Frequency (_Hz)		Upper Frequency (_Hz)			
a. Numeric	b. Unit (K/M/G)	c. Numeric	d. Unit (K/M/G)		

**S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:**

a. Nominal Orbital Longitude (Degrees E/W):			b. Reason for orbital location selection:		
Longitudinal Tolerance or E/W Station-Keeping:	e. Inclination Excursion or N/S Station-Keeping Tolerance:	Range of orbital arc in which adequate service can be provided (Optional):			
c. Toward West: _____ Degrees	_____ Degrees	Degrees      E/W			
d. Toward East: _____ Degrees	_____ Degrees	f. Westernmost: _____			
		g. Easternmost: _____			
h. Reason for service arc selection (Optional):					

















**FEDERAL COMMUNICATIONS COMMISSION  
SATELLITE SPACE STATION AUTHORIZATIONS  
FCC Form 312 - Schedule S: (Technical and Operational Description)**

S14. Is the space station(s) controlled and monitored remotely? If YES, provide the location and telephone number of the TT&C control point(s).  YES  NO

**Remote Control (TT&C) Location(s):**

S14a. Street Address			
S14b. City	S14c. County	S14d. State / Country	S14e. Zip Code
S14f. Telephone Number		S14g. Call Sign of Control Station (if appropriate)	

S14a. Street Address			
S14b. City	S14c. County	S14d. State / Country	S14e. Zip Code
S14f. Telephone Number		S14g. Call Sign of Control Station (if appropriate)	

S14a. Street Address			
S14b. City	S14c. County	S14d. State / Country	S14e. Zip Code
S14f. Telephone Number		S14g. Call Sign of Control Station (if appropriate)	

S14a. Street Address			
S14b. City	S14c. County	S14d. State / Country	S14e. Zip Code
S14f. Telephone Number		S14g. Call Sign of Control Station (if appropriate)	

S14a. Street Address			
S14b. City	S14c. County	S14d. State / Country	S14e. Zip Code
S14f. Telephone Number		S14g. Call Sign of Control Station (if appropriate)	

S14a. Street Address			
S14b. City	S14c. County	S14d. State / Country	S14e. Zip Code
S14f. Telephone Number		S14g. Call Sign of Control Station (if appropriate)	

**FEDERAL COMMUNICATIONS COMMISSION  
SATELLITE SPACE STATION AUTHORIZATIONS  
FCC Form 312 - Schedule S: (Technical and Operational Description)**

**S15. SPACECRAFT PHYSICAL CHARACTERISTICS**

S15a. Mass of spacecraft without fuel (kg)	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel & disposables at launch (kg)		
S15c. Mass of spacecraft and fuel at launch (kg)	S15f. Length (m)	S15i. Payload
S15d. Mass of fuel, in orbit, at beginning of life (kg)	S15g. Width (m)	S15j. Bus
S15e. Deployed Area of Solar Array (square meters)	S15h. Height (m)	S15k. Total

**S16. SPACECRAFT ELECTRICAL CHARACTERISTICS**

Spacecraft Subsystem	Electrical Power (Watts) At Beginning of Life		Electrical Power (Watts) At End of Life	
	At Equinox	At Solstice	At Equinox	At Solstice
Payload (Watts)	(a)	(f)	(k)	(p)
Bus (Watts)	(b)	(g)	(l)	(q)
Total (Watts)	(c)	(h)	(m)	(r)
Solar Array (Watts)	(d)	(i)	(n)	(s)
Depth of Battery Discharge (%)	(e) %	(j) %	(o) %	(t) %

**S17. CERTIFICATIONS**

a. Are the power flux density limits of § 25.208 met?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
b. Are the appropriate service area coverage requirements of § 25.143(b)(ii) and (iii), or § 25.145(c)(1) and (2) met?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
c. Are the frequency tolerances of § 25.202(e) and the out-of-band emission limits of § 25.202(f)(1), (2), and (3) met?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
<b>In addition to the information required in this Form, the space station applicant is required to provide all the information specified in Section 25.114 of the Commission's rules, 47 C.F.R. § 25.114.</b>			