

**FCC 312  
 Schedule S**

**FEDERAL COMMUNICATIONS COMMISSION  
 SATELLITE SPACE STATION AUTHORIZATIONS  
 (Technical and Operational Description)**

**Page 1: General,  
 Frequency Bands,  
 and GSO Orbit**

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

a. Space Station or Satellite Network Name: GALAXY 11		e. Estimated Date of Placement into Service:		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date:		f. Estimated Lifetime of Satellite(s): 10 Years		j. Number of transponders offered on a common carrier basis: 0	
c. Construction Completion Date:		g. Total Number of Transponders:		k. Total Common Carrier Transponder Bandwidth: 0 MHz	
d1. Est Launch Date Begin:	d2. Est Launch Date End:	h. Total Transponder Bandwidth (no. transponders x Bandwidth) MHz		l. Orbit Type: Mark all boxes that apply: <input checked="" 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 oper  
 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)		
5925	M	6425	M	R	Fixed Satellite Service
3700	M	4200	M	T	Fixed Satellite Service
14.000	G	14.2	G	R	Fixed Satellite Service
14.2	G	14.47	G	R	Fixed Satellite Service
14.47	G	14.5	G	R	Fixed Satellite Service
11.700	G	12.200	G	T	Fixed Satellite Service
13.750	G	14.000	G	R	Fixed Satellite Service
10.950	G	11.200	G	T	Fixed Satellite Service

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

a. Nominal Orbital Longitude (Degrees E/W): 44.9 E		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection:
Longitudinal Tolerance or E/W Station-Keeping:		f. Inclination Excursion or N/S Station-Keeping Tolerance:		
d. Toward West:	0.05 Degrees	Range of orbital are in which adequate service can be provided (Optional): Degrees    E/W		
e. Toward East:	0.05 Degrees	g. Westernmost: h. Easternmost:		
i. Reason for service are selection (Optional):				



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S4. ORBITAL INFORMATION FOR NON-GEOSTATIONARY SATELLITES ONLY

S4a. Total Number of Satellites in Network or System:

S4c. Celestial Reference Body (Earth, Sun, Moon, etc.):

S4b. Total Number of Orbital Planes in Network or System:

S4d. Orbit Epoch Date:

For each Orbital Plane Provide:

(e) Orbital Plane No.	(f) No. of Satellites in Plane	(g) Inclination Angle (degrees)	(h) Orbital Period (Seconds)	(i) Apogee (km)	(j) Perigee (km)	(k) Right Ascension of the Ascending Node (Deg.)	(l) Argument of Perigee (Degrees)	Active Service Arc Range (Degrees)		
								(m) Begin Angle	(n) End Angle	(o) Other

S5. INITIAL SATELLITE PHASE ANGLE For each satellite in each orbital plane, provide the initial phase angle.

(a) Orbital Plane No.	(b) Satellite Number	(c) Initial Phase Angle (Degrees)

**NO NGSO DATA FILED**

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S6. SERVICE AREA CHARACTERISTICS for each service area provide:

(a) Service Area ID	(b) Type of Associated Station (Earth or Space)	(c) Service Area Diagram File Name (GXT File)	(d) Service Area Description. Provide list of geographic areas (state postal codes or ITU 3-ltr codes), satellites or Figure No. of Service Area Diagram.
1	S		Northern Africa and Europe
2	S		GLOBAL
3	S		Southern Africa

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S7. SPACE STATION ANTENNA BEAM CHARACTERISTICS For each antenna beam provide:

(a) Beam ID	(b) T/R Mode	Isotropic Antenna Gain		(e) Pointing Error (Degrees)	(f) Rotational Error (Degrees)	(g) Min. Cross- Polar Iso- lation (dB)	(h) Polar- ization Switch- able? (Y/N)	(i) Polarization Alignment Rel. Equatorial Plane (Degrees)	(j) Service Area ID	Transmit			Receive			
										(k) Input Losses (dB)	(l) Effective Output Power (W)	(m) Max. EIRP (dBW)	(n) System Noise Temp (k)	(o) G/T Max. Gain Pt. (db/K)	(p) Min. Saturation Flux Density (dBW/m2)	Input Attenuator (dB)
		(q) Max. Value	(r) Step Size													
CHUL	R	29.6	25.6	0.14	0.22	30	Y	0	1				2.5	-94	1	1
CVUL	R	31.2	27.2	0.14	0.22	30	Y	90	1				4.2	-95.2	1	1
KHUL	R	33.3	27.3	0.14	0.22	30	N	0	1				6.3	-99.8	1	1
KVUL	R	32	26	0.14	0.22	30	N	90	1				4.8	-98.3	1	1
CHDL	T	28.8	24.8	0.14	0.22	30	Y	0	1		40.2					
CVDL	T	29	25	0.14	0.22	30	Y	90	1		40.1					
KHDL	T	32.2	28.2	0.14	0.22	30	N	0	1		49.7					
KVDL	T	31.9	27.9	0.14	0.22	30	N	90	1		49.7					
BHUL	R	32.6	24.6	0.14	0.22	30	N	0	3				5.7	-98.3	1	1
BVUL	R	33.3	25.3	0.14	0.22	30	N	90	3				6.3	-99.9	1	1
EHUL	R	32.1	24.1	0.14	0.22	30	N	0	1				5.2	-94.3	1	1
EVUL	R	32.3	24.3	0.14	0.22	30	N	90	1				5.2	-94.2	1	1
BHDL	T	31.6	25.6	0.14	0.22	30	N	0	3		52.5					
BVDL	T	31.3	25.3	0.14	0.22	30	N	90	3		51.9					
EHDL	T	31.4	25.4	0.14	0.22	30	N	0	1		52.1					
EVDL	T	31.7	25.7	0.14	0.22	30	N	90	1		52					
CMD	R	32	22	0.14	0.22		N	90	1				-3	-119.6		
CMD	R	2.2	-0.8	0.14	0.22		N	0	2				-30.8	-91.8		
CMD	R	3.8	-0.2	0.14	0.22		N		2				-28.7	-94.3		
TLMC	T	31.9	21.9	0.14	0.22		N	90	1		15.3					
TLMB	T	2.7	-0.8	0.14	0.22		N	90	2		11.6					
TLMP	T	5.3	-0.7	0.14	0.22		N		2		11.6					
UPC	T	32.2	22.2	0.14	0.22		N	0	1		25.3					
UPG	T	24.2	18.2	0.14	0.22		N	0	2		19.1					
UPG	T	24.2	18.2	0.14	0.22		N	90	2		19.1					

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S8. ANTENNA BEAM DIAGRAMS For each beam pattern provide the reference to the graphic image and numerical data:  
Also provide the power flux density levels in each beam that result from the emission with the highest power flux density.

(a) Beam ID	(b) T/R Mode	(c) Co-or Cross Polar Mode ("C" or" X")	(d) GSO Ref. Orbital Longitude (Deg. E/W)	(e) NGSO Antenna Gain Contour Description (Figure/Table/ Exhibit)	(f) GSO Antenna Gain Contour Data (GXT File)	Max. Power Flux Density (dBW/M2/Hz)				
						At Angle of Arrival above horizontal (for emission with highest PFD)				
						(g) 5 Deg	(h) 10 Deg	(i) 15 Deg	(j) 20 Deg	(k) 25 Deg
CHUL	R	C	-44.9							
CVUL	R	C	-44.9							
KHUL	R	C	-44.9							
KVUL	R	C	-44.9							
CHDL	T	C	-44.9			-153.1	-153	-152.8	-152.7	-152.6
CVDL	T	C	-44.9			-153.2	-153.1	-152.9	-152.8	-152.7
KHDL	T	C	-44.9			-150	-147.5	-145	-142.5	-140.3
KVDL	T	C	-44.9			-150	-147.5	-145	-142.5	-140.3
BHUL	R	C	-44.9							
BVUL	R	C	-44.9							
EHUL	R	C	-44.9							
EVUL	R	C	-44.9							
BHDL	T	C	-44.9			-150	-147.5	-145	-142.5	-140.3
BVDL	T	C	-44.9			-150	-147.5	-145	-142.5	-140.9
EHDL	T	C	-44.9			-150	-147.5	-145	-142.5	-140.7
EVDL	T	C	-44.9			-150	-147.5	-145	-142.5	-140.8
CMD	R	C	-44.9							
CMD	R	C	-44.9							
CMD	R	C	-44.9							
TLMC	T	C	-44.9			-166.6	-166.5	-166.4	-166.3	-166.2
TLMB	T	C	-44.9			-170.3	-170.2	-170.1	-170	-169.9
TLMP	T	C	-44.9			-170.3	-170.2	-170.1	-170	-169.9
UPC	T	C	-44.9			-152.1	-152	-151.9	-151.8	-151.7
UPG	T	C	-44.9			-152.1	-152	-151.9	-151.8	-151.7
UPG	T	C	-44.9			-152.1	-152	-151.9	-151.8	-151.7

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S9. SPACE STATION CHANNELS For each frequency channel provide: S10. SPACE STATION TRANSPONDERS For each transponder provide:

(a) Channel No.	(B) Assigned Bandwidth (kHz)	(c) T/R Mode	(d) Center Frequency (MHz)	(e) Polarization (H, V, L, R)	(f) TTC or Comm Channel (T or C)
KEU01	36000	R	14020	V	C
KEU03	36000	R	14060	V	C
KEU05	36000	R	14100	V	C
KEU07	36000	R	14140	V	C
KEU09	36000	R	14180	V	C
KEU11	36000	R	14220	V	C
KEU13	36000	R	14260	V	C
KEU15	36000	R	14300	V	C
KEU17	36000	R	14340	V	C
KEU19	36000	R	14380	V	C
KEU21	36000	R	14420	V	C
KEU23	36000	R	14460	V	C
KEU02	36000	R	14040	H	C
KEU04	36000	R	14080	H	C
KEU06	36000	R	14120	H	C
KEU08	36000	R	14160	H	C
KEU10	36000	R	14200	H	C
KEU12	36000	R	14240	H	C
KEU14	36000	R	14280	H	C
KEU16	36000	R	14320	H	C
KEU18	36000	R	14360	H	C
KEU20	36000	R	14400	H	C
KEU22	36000	R	14440	H	C
KEU24	36000	R	14480	H	C
KED01	36000	T	11720	H	C
KED03	36000	T	11760	H	C
KED05	36000	T	11800	H	C
KED07	36000	T	11840	H	C
KED09	36000	T	11880	H	C
KED11	36000	T	11920	H	C

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
KEE01	1	KEU01	KHUL	KED01	KVDL
KEE02	1	KEU03	KHUL	KED03	KVDL
KEE03	1	KEU05	KHUL	KED05	KVDL
KEE04	1	KEU07	KHUL	KED07	KVDL
KEE05	1	KEU09	KHUL	KED09	KVDL
KEE06	1	KEU11	KHUL	KED11	KVDL
KEE07	1	KEU13	KHUL	KED13	KVDL
KEE08	1	KEU15	KHUL	KED15	KVDL
KEE09	1	KEU17	KHUL	KED17	KVDL
KEE10	1	KEU19	KHUL	KED19	KVDL
KEE11	1	KEU21	KHUL	KED21	KVDL
KEE12	1	KEU23	KHUL	KED23	KVDL
KEE13	1	KEU02	KVUL	KED02	KHDL
KEE14	1	KEU04	KVUL	KED04	KHDL
KEE15	1	KEU06	KVUL	KED06	KHDL
KEE16	1	KEU08	KVUL	KED08	KHDL
KEE17	1	KEU10	KVUL	KED10	KHDL
KEE18	1	KEU12	KVUL	KED12	KHDL
KEE19	1	KEU14	KVUL	KED14	KHDL
KEE20	1	KEU16	KVUL	KED16	KHDL
KEE21	1	KEU18	KVUL	KED18	KHDL
KEE22	1	KEU20	KVUL	KED20	KHDL
KEE23	1	KEU22	KVUL	KED22	KHDL
KEE24	1	KEU24	KVUL	KED24	KHDL
XEE01	1	XEU01	EHUL	XED01	EVDL
XEE02	1	XEU03	EHUL	XED03	EVDL
XEE03	1	XEU05	EHUL	XED05	EVDL
XEE04	1	XEU07	EHUL	XED07	EVDL
XEE05	1	XEU09	EHUL	XED09	EVDL
XEE06	1	XEU11	EHUL	XED11	EVDL

KED13	36000	T	11960	H	C
KED15	36000	T	12000	H	C
KED17	36000	T	12040	H	C
KED19	36000	T	12080	H	C
KED21	36000	T	12120	H	C
KED23	36000	T	12160	H	C
KED02	36000	T	11740	V	C
KED04	36000	T	11780	V	C
KED06	36000	T	11820	V	C
KED08	36000	T	11860	V	C
KED10	36000	T	11900	V	C
KED12	36000	T	11940	V	C
KED14	36000	T	11980	V	C
KED16	36000	T	12020	V	C
KED18	36000	T	12060	V	C
KED20	36000	T	12100	V	C
KED22	36000	T	12140	V	C
KED24	36000	T	12180	V	C
XEU01	27000	R	13764	H	C
XEU03	27000	R	13794	H	C
XEU05	27000	R	13824	H	C
XEU07	27000	R	13854	H	C
XEU09	27000	R	13884	H	C
XEU11	27000	R	13914	H	C
XEU13	27000	R	13944	H	C
XEU15	27000	R	13974	H	C
XEU02	27000	R	13776	V	C
XEU04	27000	R	13806	V	C
XEU06	27000	R	13836	V	C
XEU08	27000	R	13866	V	C
XEU10	27000	R	13896	V	C
XEU12	27000	R	13926	V	C
XEU14	27000	R	13956	V	C
XEU16	27000	R	13986	V	C
KSU01	27000	R	14014	H	C
KSU03	27000	R	14044	H	C
KSU05	27000	R	14074	H	C
KSU07	27000	R	14104	H	C
KSU09	27000	R	14134	H	C

XEE07	1	XEU13	EHUL	XED13	EVDL
XEE08	1	XEU15	EHUL	XED15	EVDL
XEE09	1	XEU02	EVUL	XED02	EHDL
XEE10	1	XEU04	EVUL	XED04	EHDL
XEE11	1	XEU06	EVUL	XED06	EHDL
XEE12	1	XEU08	EVUL	XED08	EHDL
XEE13	1	XEU10	EVUL	XED10	EHDL
XEE14	1	XEU12	EVUL	XED12	EHDL
XEE15	1	XEU14	EVUL	XED14	EHDL
XEE16	1	XEU16	EVUL	XED16	EHDL
XES01	1	XEU01	EHUL	XSD01	BVDL
XES02	1	XEU03	EHUL	XSD03	BVDL
XES03	1	XEU05	EHUL	XSD05	BVDL
XES04	1	XEU07	EHUL	XSD07	BVDL
XES05	1	XEU09	EHUL	XSD09	BVDL
XES06	1	XEU11	EHUL	XSD11	BVDL
XES07	1	XEU13	EHUL	XSD13	BVDL
XES08	1	XEU15	EHUL	XSD15	BVDL
XES09	1	XEU02	EVUL	XSD02	BHDL
XES10	1	XEU04	EVUL	XSD04	BHDL
XES11	1	XEU06	EVUL	XSD06	BHDL
XES12	1	XEU08	EVUL	XSD08	BHDL
XES13	1	XEU10	EVUL	XSD10	BHDL
XES14	1	XEU12	EVUL	XSD12	BHDL
XES15	1	XEU14	EVUL	XSD14	BHDL
XES16	1	XEU16	EVUL	XSD16	BHDL
KSE01	1	KSU01	BHUL	XED01	EVDL
KSE02	1	KSU03	BHUL	XED03	EVDL
KSE03	1	KSU05	BHUL	XED05	EVDL
KSE04	1	KSU07	BHUL	XED07	EVDL
KSE05	1	KSU09	BHUL	XED09	EVDL
KSE06	1	KSU11	BHUL	XED11	EVDL
KSE07	1	KSU13	BHUL	XED13	EVDL
KSE08	1	KSU15	BHUL	XED15	EVDL
KSE09	1	KSU02	BVUL	XED02	EHDL
KSE10	1	KSU04	BVUL	XED04	EHDL
KSE11	1	KSU06	BVUL	XED06	EHDL
KSE12	1	KSU08	BVUL	XED08	EHDL
KSE13	1	KSU10	BVUL	XED10	EHDL



KSU11	27000	R	14164	H	C
KSU13	27000	R	14194	H	C
KSU15	27000	R	14224	H	C
KSU02	27000	R	14036	V	C
KSU04	27000	R	14066	V	C
KSU06	27000	R	14096	V	C
KSU08	27000	R	14126	V	C
KSU10	27000	R	14156	V	C
KSU12	27000	R	14186	V	C
KSU14	27000	R	14216	V	C
KSU16	27000	R	14246	V	C
XED01	27000	R	10964	V	C
XED03	27000	R	10994	V	C
XED05	27000	R	11024	V	C
XED07	27000	R	11054	V	C
XED09	27000	R	11084	V	C
XED11	27000	R	11114	V	C
XED13	27000	R	11144	V	C
XED15	27000	R	11174	V	C
XED02	27000	R	10976	H	C
XED04	27000	R	11006	H	C
XED06	27000	R	11036	H	C
XED08	27000	R	11066	H	C
XED10	27000	R	11096	H	C
XED12	27000	R	11126	H	C
XED14	27000	R	11156	H	C
XED16	27000	R	11186	H	C
XSD01	27000	R	10964	V	C
XSD03	27000	R	10994	V	C
XSD05	27000	R	11024	V	C
XSD07	27000	R	11054	V	C
XSD09	27000	R	11084	V	C
XSD11	27000	R	11114	V	C
XSD13	27000	R	11144	V	C
XSD15	27000	R	11174	V	C
XSD02	27000	R	10976	H	C
XSD04	27000	R	11006	H	C
XSD06	27000	R	11036	H	C
XSD08	27000	R	11066	H	C

KSE14		1	KSU12	BVUL	XED12	EHDL
KSE15		1	KSU14	BVUL	XED14	EHDL
KSE16		1	KSU16	BVUL	XED16	EHDL
KSS01		1	KSU01	BHUL	XSD01	BVDL
KSS02		1	KSU03	BHUL	XSD03	BVDL
KSS03		1	KSU05	BHUL	XSD05	BVDL
KSS04		1	KSU07	BHUL	XSD07	BVDL
KSS05		1	KSU09	BHUL	XSD09	BVDL
KSS06		1	KSU11	BHUL	XSD11	BVDL
KSS07		1	KSU13	BHUL	XSD13	BVDL
KSS08		1	KSU15	BHUL	XSD15	BVDL
KSS09		1	KSU02	BVUL	XSD02	BVDL
KSS10		1	KSU04	BVUL	XSD04	BHDL
KSS11		1	KSU06	BVUL	XSD06	BHDL
KSS12		1	KSU08	BVUL	XSD08	BHDL
KSS13		1	KSU10	BVUL	XSD10	BHDL
KSS14		1	KSU12	BVUL	XSD12	BHDL
KSS15		1	KSU14	BVUL	XSD14	BHDL
KSS16		1	KSU16	BVUL	XSD16	BHDL
CEE01		1	CEU01	CHUL	CED01	CVDL
CEE02		1	CEU03	CHUL	CED03	CVDL
CEE03		1	CEU05	CHUL	CED05	CVDL
CEE04		1	CEU07	CHUL	CED07	CVDL
CEE05		1	CEU09	CHUL	CED09	CVDL
CEE06		1	CEU11	CHUL	CED11	CVDL
CEE07		1	CEU13	CHUL	CED13	CVDL
CEE08		1	CEU15	CHUL	CED15	CVDL
CEE09		1	CEU17	CHUL	CED17	CVDL
CEE10		1	CEU19	CHUL	CED19	CVDL
CEE11		1	CEU21	CHUL	CED21	CVDL
CEE12		1	CEU23	CHUL	CED23	CVDL
CEE13		1	CEU02	CVUL	CED02	CHDL
CEE14		1	CEU04	CVUL	CED04	CHDL
CEE15		1	CEU06	CVUL	CED06	CHDL
CEE16		1	CEU08	CVUL	CED08	CHDL
CEE17		1	CEU10	CVUL	CED10	CHDL
CEE18		1	CEU12	CVUL	CED12	CHDL
CEE19		1	CEU14	CVUL	CED14	CHDL
CEE20		1	CEU16	CVUL	CED16	CHDL

XSD10	27000	R	11096	H	C
XSD12	27000	R	11126	H	C
XSD14	27000	R	11156	H	C
XSD16	27000	R	11186	H	C
CEU01	36000	R	5945	V	C
CEU03	36000	R	5985	V	C
CEU05	36000	R	6025	V	C
CEU07	36000	R	6065	V	C
CEU09	36000	R	6105	V	C
CEU11	36000	R	6145	V	C
CEU13	36000	R	6185	V	C
CEU15	36000	R	6225	V	C
CEU17	36000	R	6265	V	C
CEU19	36000	R	6305	V	C
CEU21	36000	R	6345	V	C
CEU23	36000	R	6385	V	C
CEU02	36000	R	5965	H	C
CEU04	36000	R	6005	H	C
CEU06	36000	R	6045	H	C
CEU08	36000	R	6085	H	C
CEU10	36000	R	6125	H	C
CEU12	36000	R	6165	H	C
CEU14	36000	R	6205	H	C
CEU16	36000	R	6245	H	C
CEU18	36000	R	6285	H	C
CEU20	36000	R	6325	H	C
CEU22	36000	R	6365	H	C
CEU24	36000	R	6405	H	C
CED01	36000	T	3720	H	C
CED03	36000	T	3760	H	C
CED05	36000	T	3800	H	C
CED07	36000	T	3840	H	C
CED09	36000	T	3880	H	C
CED11	36000	T	3920	H	C
CED13	36000	T	3960	H	C
CED15	36000	T	4000	H	C
CED17	36000	T	4040	H	C
CED19	36000	T	4080	H	C
CED21	36000	T	4120	H	C

CEE21	1	CEU18	CVUL	CED18	CHDL
CEE22	1	CEU20	CVUL	CED20	CHDL
CEE23	1	CEU22	CVUL	CED22	CHDL
CEE24	1	CEU24	CVUL	CED24	CHDL

CED23	36000	T	4160	H	C
CED02	36000	T	3740	V	C
CED04	36000	T	3780	V	C
CED06	36000	T	3820	V	C
CED08	36000	T	3860	V	C
CED10	36000	T	3900	V	C
CED12	36000	T	3940	V	C
CED14	36000	T	3980	V	C
CED16	36000	T	4020	V	C
CED18	36000	T	4060	V	C
CED20	36000	T	4100	V	C
CED22	36000	T	4140	V	C
CED24	36000	T	4180	V	C
TLM1	270	T	11701	V	T
TLM2	270	T	11702	V	T
TLM3	270	T	11701	L	T
TLM4	270	T	11702	L	T
CMDC	960	R	14498.5	V	T
CMDB1	960	R	14498.5	H	T
BCNK1	25	T	12195	H	T
BCNK2	25	T	10951	H	T
BCNK3	25	T	10951	V	T
CMDB2	960	R	14000.5	L	T

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

S11. DIGITAL MODULATION PARAMETERS For each digital emission provide:

(a) Digital Mod. ID	(b) Emission Designator	(c) Assigned Bandwidth (kHz)	(d) No. of Phases	(e) Uncoded Data Rate (kbps)	(f) FEC Error Correction Coding Rate	(g) CDMA Processing Gain (dB)	(h) Total C/N Performance Objective (dB)	(i) Single Entry C/I Objective (dB)
D1	36M0G7W	36000						
D2	10M3G7W	10300						
D3	100KG7W	100						
D4	1M45G7W	1450						
D5	27M0G7W	27000						



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S13. TYPICAL EMISSIONS For each planned type of emission provide:

Associated Transponder ID Range (a) Start (b) End		Modulation ID		(e) Carriers per Transponder	(f) Carrier Spacing (kHz)	(g) Noise Budget Reference (Table No.)	(h) Energy Dispersal Bandwidth (kHz)	Receive Band (Assoc. Transmit Stn)		Transmit Band (This Space Station)			
		(c) Digital (Table S11)	(d) Analog (Table S12)					(i) Assoc. Stn. Max. Antenna Gain (dBi)	Assoc. Station Transmit Power (dBW) (j) Min. (k) Max.		EIRP (dBW) (l) Min. (m) Max.		(n) Max. Power Flux Density (dBW/m <sup>2</sup> /Hz)
KSE01	KSE16	D1									41.4		
KSE01	KSE16	D2									36.2		
KSE01	KSE16	D3									16		
KSE01	KSE16	D4									28		
KSS01	KSS16	D1									44.8		
KSS01	KSS16	D2									36.9		
KSS01	KSS16	D3									16.7		
KSS01	KSS16	D4									28.7		
CEE01	CEE24	D1									36.1		
CEE01	CEE24	D2									28.2		
CEE01	CEE24	D3									7.7		
KEE01	KEE24	D1									44.8		
KEE01	KEE24	D2									36.9		
KEE01	KEE24	D3									16.7		
KEE01	KEE24	D4									28.7		
XEE01	XEE16	D2									41.4		
XEE01	XEE16	D3									16		
XEE01	XEE16	D4									36.2		
XEE01	XEE16	D5									28		

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**Page 10: TT and C**

S14. Is the space station(s) controlled and monitored remotely? If Yes, provide the location and telephone number of the TT and C control point(s): Yes

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**Page 11:  
Characteristics and  
Certifications**

S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S16. SPACECRAFT ELECTRICAL CHARACTERISTICS:

S17. CERTIFICATIONS:

a. Are the power flux density limits of § 25.208 met?:	<input checked="" 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 checked="" 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 checked="" 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>						

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