

**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: Intelsat 37e		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): 20 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 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)		
5850	M	5925	M	R	Fixed Satellite Service
5925	M	6425	M	R	Fixed Satellite Service
6425	M	6525	M	R	Fixed Satellite Service
6525	M	6650	M	R	Fixed Satellite Service
3400	M	3500	M	T	Fixed Satellite Service
3500	M	3550	M	T	Fixed Satellite Service
3550	M	3600	M	T	Fixed Satellite Service
3600	M	3650	M	T	Fixed Satellite Service
3650	M	3700	M	T	Fixed Satellite Service
3700	M	4200	M	T	Fixed Satellite Service
13	G	13.25	G	R	Fixed Satellite Service
13.75	G	14	G	R	Fixed Satellite Service
14	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
10.7	G	11.7	G	T	Fixed Satellite Service
11.7	G	11.95	G	T	Fixed Satellite Service

12.5	G	12.7	G	T	Fixed Satellite Service
12.7	G	12.75	G	T	Fixed Satellite Service
18.3	G	18.6	G	T	Fixed Satellite Service
18.6	G	18.8	G	T	Fixed Satellite Service
19.7	G	20.2	G	T	Fixed Satellite Service
28.35	G	28.85	G	R	Fixed Satellite Service
29.5	G	30	G	R	Fixed Satellite Service

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 18 W		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:	Range of orbital are in which adequate service can be provided (Optional): <u> Degrees </u> <u> E/W </u>	
d. Toward West: 0.05 Degrees	e. Toward East: 0.05 Degrees	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		Africa and Europe
2	S		Central Africa
3	S		Latin America
4	S		Europe
5	S		North America
6	S		South America
7	S		Falkland
8	S		Africa, Europe, Middle East, South America, North America, & Asia
9	S		Europe, Middle East, & Asia
10	S		Algeria
11	S		Central Atlantic
12	S		Africa, South America, Europe
13	S		GLOBAL

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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														
CELD	T	1	1	0.07	0.24	24	N		1			43.3					
CER	T	1	1	0.07	0.24	24	N		1			43.3					
KZH	T	1	1	0.07	0.24	24	N		0 10			51.5					
C1LD	T	1	1	0.07	0.24	24	N		4			52.1					
C1R	T	1	1	0.07	0.24	24	N		4			52.1					
C2LD	T	1	1	0.07	0.24	24	N		5			52.1					
C2R	T	1	1	0.07	0.24	24	N		5			52.1					
C3LD	T	1	1	0.07	0.24	24	N		6			51.8					
C3R	T	1	1	0.07	0.24	24	N		6			51.8					
C4LD	T	1	1	0.07	0.24	24	N		7			51.4					
CALD	T	1	1	0.07	0.24	24	N		2			47.9					
CAR	T	1	1	0.07	0.24	24	N		2			47.9					
CGL	T	1	1	0.07	0.24	24	N		13			38					
CGR	T	1	1	0.07	0.24	24	N		13			38					
KUH	T	1	1	0.07	0.24	24	N		0 8			51					
KUV	T	1	1	0.07	0.24	24	N		90 8			51					
K56D	T	1	1	0.07	0.24	24	N		90 11			50.3					
KSH	T	1	1	0.07	0.24	24	N		0 13			56					
KSV	T	1	1	0.07	0.24	24	N		90 13			56					
KGH	T	1	1	0.07	0.24	27	N		0 12			50.8					
KGV	T	1	1	0.07	0.24	27	N		90 12			50.8					
ASLD	T	1	1	0.07	0.24	27	N		13			58					
ASR	T	1	1	0.07	0.24	27	N		13			58					
CML	T	1	1	0.07	0.24	27	N		6			46.5					
CMR	T	1	1	0.07	0.24	27	N		6			46.5					
THR	T	1	1	0.07	0.24	22	N		13			-1.6					
TPR	T	1	1	0.07	0.24	22	N		13			6.4					
TGH	T	1	1	0.07	0.24	22	N		0 13			7.9					
CLVD	T	1	1	0.07	0.24	22	N		90 13			11					

KLRD	T	1	1	0.07	0.24	24	N		13			14					
ALVD	T	1	1	0.07	0.24	24	N		90	13		19.5					
CELU	R	1	1	0.07	0.24	27	N		1			-1	-108	1	1		
CER	R	1	1	0.07	0.24	27	N		1			-1	-106	1	1		
KZVU	R	1	1	0.07	0.24	24	N		90	10		12	-116.3	1	1		
C1LU	R	1	1	0.07	0.24	27	N		4			13	-110	1	1		
C1R	R	1	1	0.07	0.24	27	N		4			13	-110	1	1		
C2LU	R	1	1	0.07	0.24	27	N		5			13	-110	1	1		
C2R	R	1	1	0.07	0.24	27	N		5			13	-110	1	1		
C3LU	R	1	1	0.07	0.24	27	N		6			12	-110.1	1	1		
C3R	R	1	1	0.07	0.24	27	N		6			12	-110.1	1	1		
C4R	R	1	1	0.07	0.24	27	N		7			12	-109.3	1	1		
CALU	R	1	1	0.07	0.24	27	N		2			3	-106.1	1	1		
CAR	R	1	1	0.07	0.24	27	N		2			3	-106.1	1	1		
CGL	R	1	1	0.07	0.24	24	N		13			-6	-106.8	1	1		
CGR	R	1	1	0.07	0.24	24	N		13			-6	-106.8	1	1		
KUV	R	1	1	0.07	0.24	24	N		90	8		14	-114	1	1		
KUH	R	1	1	0.07	0.24	24	N		0	8		14	-114	1	1		
K56U	R	1	1	0.07	0.24	24	N		0	11		10	-113.9	1	1		
KSH	R	1	1	0.07	0.24	24	N		0	13		12	-113.2	1	1		
KSV	R	1	1	0.07	0.24	24	N		90	13		12	-113.2	1	1		
KGV	R	1	1	0.07	0.24	24	N		90	12		14	-113.8	1	1		
KGH	R	1	1	0.07	0.24	24	N		0	12		14	-113.8	1	1		
ASLU	R	1	1	0.07	0.24	27	N		13			11	-96.8	1	1		
ASR	R	1	1	0.07	0.24	27	N		13			11	-96.8	1	1		
CML	R	1	1	0.07	0.24	27	N		6			1	-104.3	1	1		
CMR	R	1	1	0.07	0.24	27	N		6			1	-104.3	1	1		
CPLU	R	1	1	0.07	0.24	22	N		13				-80	1	1		
CHL	R	1	1	0.07	0.24	22	N		13				-80	1	1		
CGV	R	1	1	0.07	0.24	22	N		90	13			-75	1	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
CELD	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
CER	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
KZH	T		-18			-150	-149.9	-149.8	-149.7	-149.6
C1LD	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
C1R	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
C2LD	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
C2R	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
C3LD	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
C3R	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
C4LD	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
CALD	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
CAR	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
CGL	T		-18			-160.3	-160.2	-160.1	-160	-159.9
CGR	T		-18			-160.3	-160.2	-160.1	-160	-159.9
KUH	T		-18			-150	-149.9	-149.8	-149.7	-149.6
KUV	T		-18			-150	-149.9	-149.8	-149.7	-149.6
K56D	T		-18			-150	-149.9	-149.8	-149.7	-149.6
KSH	T		-18			-150	-149.9	-149.8	-149.7	-149.6
KSV	T		-18			-150	-149.9	-149.8	-149.7	-149.6
KGH	T		-18			-150	-149.9	-149.8	-149.7	-149.6
KGV	T		-18			-150	-149.9	-149.8	-149.7	-149.6
ASLD	T		-18			-119.3	-119.2	-119.1	-119	-118.9
ASR	T		-18			-119.3	-119.2	-119.1	-119	-118.9
CML	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
CMR	T		-18			-154.6	-154.5	-154.4	-154.3	-154.2
THR	T		-18			-183.7	-183.6	-183.4	-183.3	-183.2
TPR	T		-18			-180.7	-180.6	-180.4	-180.3	-180.2
TGH	T		-18			-171.2	-171.1	-170.9	-170.8	-170.7

CLVD	T		-18		-162.1	-162	-161.9	-161.7	-161.6
KLRD	T		-18		-157.3	-152.2	-152.1	-151.9	-151.8
ALVD	T		-18		-127.8	-128.2	-128.1	-128	-127.9
CELU	R		-18						
CER	R		-18						
KZVU	R		-18						
C1LU	R		-18						
C1R	R		-18						
C2LU	R		-18						
C2R	R		-18						
C3LU	R		-18						
C3R	R		-18						
C4R	R		-18						
CALU	R		-18						
CAR	R		-18						
CGL	R		-18						
CGR	R		-18						
KUV	R		-18						
KUH	R		-18						
K56U	R		-18						
KSH	R		-18						
KSV	R		-18						
KGV	R		-18						
KGH	R		-18						
ASLU	R		-18						
ASR	R		-18						
CML	R		-18						
CMR	R		-18						
CPLU	R		-18						
CHL	R		-18						
CGV	R		-18						

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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)
AFCLU	226550	R	6208.025	L	C
AFCRU	213500	R	6209.4	R	C
CAFLU	213500	R	5975	L	C
CAFRU	213500	R	5975	R	C
LAMLU	213500	R	5975	L	C
LAMRU	213500	R	5975	R	C
C1L1U	213500	R	5975	L	C
C1L3U	182300	R	6547.9	L	C
C1R2U	213500	R	5975	R	C
C1R4U	182300	R	6547.9	R	C
C2L1U	132800	R	6254.9	L	C
C2L3U	70300	R	6129.9	L	C
C2R2U	213500	R	6209.4	R	C
C3L1U	213500	R	6209.4	L	C
C3R2U	213500	R	6209.4	R	C
C4R1U	213500	R	6209.4	R	C
GCL1U	75500	R	6374.7	L	C
GCR2U	75500	R	6374.7	R	C
AFCRD	231700	T	3983.9	R	C
AFCLD	231700	T	3983.9	L	C
CAFRD	229100	T	3744.6	R	C
CAFLD	229100	T	3744.6	L	C
LAMRD	229100	T	3744.6	R	C
LAMLD	151000	T	3783.65	L	C
C1R1D	411400	T	3634.4	R	C
C1L2D	411400	T	3634.4	L	C
C2R1D	210900	T	3980.5	R	C
C2L2D	210900	T	3980.5	L	C
C3R1D	210900	T	3980.5	R	C
C3L2D	210900	T	3980.5	L	C

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
C1	1	AFCLU	CELU		
C2	1	AFCRU	CERU		
C3	1	CAFLU	CALU		
C4	1	CAFRU	CARU		
C5	1	LAMLU	CMLU		
C6	1	LAMRU	CMRU		
C7	1	C1L1U	C1LU		
C8	1	C1L3U	C1LU		
C9	1	C1R2U	C1RU		
C10	1	C1R4U	C1RU		
C11	1	C2L1U	C2LU		
C12	1	C2L3U	C2LU		
C13	1	C2R2U	C2RU		
C14	1	C3L1U	C3LU		
C15	1	C3R2U	C3RU		
C16	1	C4R1U	C4RU		
C17	1	GCL1U	CGLU		
C18	1	GCR2U	CGRU		
C19	1			AFCRD	CERD
C20	1			AFCLD	CELD
C21	1			CAFRD	CARD
C22	1			CAFLD	CALD
C23	1			LAMRD	CMRD
C24	1			LAMLD	CMLD
C25	1			C1R1D	C1RD
C26	1			C1L2D	C1LD
C27	1			C2R1D	C2RD
C28	1			C2L2D	C2LD
C29	1			C3R1D	C3RD
C30	1			C3L2D	C3LD

C4L1D	210900	T	3980.5	L	C
GCRD	83400.000	T	4147.95	R	C
GCLD	83400.000	T	4147.95	L	C
KG1VU	250000	R	13125	V	C
KG1HU	250000	R	13125	H	C
KG2VU	250000	R	13875	V	C
KG2HU	250000	R	13875	H	C
KSH1U	109400	R	13065.1	H	C
KSV1U	109400	R	13065.1	V	C
KSH2U	441000	R	14250	H	C
KSV2U	441000	R	14250	V	C
K1HU	125000	R	14062.5	H	C
K1VU	125000	R	14062.5	V	C
K2HU	125000	R	14125	H	C
K2VU	125000	R	14125	V	C
K3HU	125000	R	14187.5	H	C
K3VU	125000	R	14187.5	V	C
K4HU	125000	R	14250	H	C
K4VU	125000	R	14250	V	C
K5HU	125000	R	14312.5	H	C
K5VU	125000	R	14312.5	V	C
K6HU	125000	R	14375	H	C
K6VU	125000	R	14375	V	C
K7HU	125000	R	14437.5	H	C
K7VU	125000	R	14437.5	V	C
K8HU	125000	R	14500	H	C
K8VU	125000	R	14500	V	C
AlgKV	164100	R	14095	V	C
K56HU	109400	R	14184.9	H	C
KG1VD	250000	T	11575	V	C
KG1HD	125000	T	10887.5	H	C
KG2VD	250000	T	11325	V	C
KG2HD	250000	T	11325	H	C
KSV2D	109400	T	11009.9	V	C
KSH3D	218700	T	11580.2	H	C
KSV3D	218700	T	11580.2	V	C
KSV1D	109400	T	10765.1	V	C
KSH1D	109400	T	10765.1	H	C
K1HD	125000	T	11012.5	H	C

C31		1			C4L1D	C4LD
C32		1			GCRD	CGRU
C33		1			GCLD	CGLU
K1		1	KG1VU	KG1VU		
K2		1	KG1HU	KG1HU		
K3		1	KG2VU	KG2VU		
K4		1	KG2HU	KG2HU		
K5		1	KSH1U	KSH1U		
K6		1	KSV1U	KSV1U		
K7		1	KSH2U	KSH2U		
K8		1	KSV2U	KSV2U		
K9		1	K1HU	K1HU		
K10		1	K1VU	K1VU		
K11		1	K2HU	K2HU		
K12		1	K2VU	K2VU		
K13		1	K3HU	K3HU		
K14		1	K3VU	K3VU		
K15		1	K4HU	K4HU		
K16		1	K4VU	K4VU		
K17		1	K5HU	K5HU		
K18		1	K5VU	K5VU		
K19		1	K6HU	K6HU		
K20		1	K6VU	K6VU		
K21		1	K7HU	K7HU		
K22		1	K7VU	K7VU		
K23		1	K8HU	K8HU		
K24		1	K8VU	K8VU		
K25		1	AlgKV	AlgKV		
K26		1	K56HU	K56HU		
K27		1			KG1VD	KGVD
K28		1			KG1HD	KGHD
K29		1			KG2VD	KGVD
K30		1			KG2HD	KGHD
K31		1			KSV2D	KSVD
K32		1			KSH3D	KSHD
K33		1			KSV3D	KSVD
K34		1			KSV1D	KSVD
K35		1			KSH1D	KSHD
K36		1			K1HD	KUHD

K1VD	125000	T	11012.5	V	C
K2HD	125000	T	11075	H	C
K2VD	125000	T	11075	V	C
K3HD	125000	T	11137.5	H	C
K3VD	125000	T	11137.5	V	C
K4HD	125000	T	11200	H	C
K4VD	125000	T	11200	V	C
K5HD	125000	T	11512.5	H	C
K5VD	125000	T	11512.5	V	C
K6HD	125000	T	11575	H	C
K6VD	125000	T	11575	V	C
K7HD	125000	T	11637.5	H	C
K7VD	125000	T	11637.5	V	C
K8HD	125000	T	11700	H	C
K8VD	125000	T	11700	V	C
K9HD	125000	T	11762.5	H	C
K9VD	125000	T	11762.5	V	C
K10HD	125000	T	11825	H	C
K10VD	125000	T	11825	V	C
K11HD	125000	T	11887.5	H	C
K11VD	125000	T	11887.5	V	C
K12HD	125000	T	12437.5	H	C
K12VD	125000	T	12437.5	V	C
K13HD	125000	T	12500	H	C
K13VD	125000	T	12500	V	C
K14HD	125000	T	12562.5	H	C
K14VD	125000	T	12562.5	V	C
K15HD	125000	T	12625	H	C
K15VD	125000	T	12625	V	C
K16HD	125000	T	12687.5	H	C
K16VD	125000	T	12687.5	V	C
AlgKH	164100	T	11039.8	H	C
K56VD	109400	T	11009.9	V	C
KaL1U	440100	R	29750	L	C
KaR1U	440100	R	29750	R	C
KaL2U	440100	R	28600	L	C
KaR2U	440100	R	28600	R	C
KaR1D	440100	T	19950	R	C
KaL1D	440100	T	19950	L	C

K37		1			K1VD	KUVD
K38		1			K2HD	KUHD
K39		1			K2VD	KUVD
K40		1			K3HD	KUHD
K41		1			K3VD	KUVD
K42		1			K4HD	KUHD
K43		1			K4VD	KUVD
K44		1			K5HD	KUHD
K45		1			K5VD	KUVD
K46		1			K6HD	KUHD
K47		1			K6VD	KUVD
K48		1			K7HD	KUHD
K49		1			K7VD	KUVD
K50		1			K8HD	KUHD
K51		1			K8VD	KUVD
K52		1			K9HD	KUHD
K53		1			K9VD	KUVD
K54		1			K10HD	KUHD
K55		1			K10VD	KUVD
K56		1			K11HD	KUHD
K57		1			K11VD	KUVD
K58		1			K12HD	KUHD
K59		1			K12VD	KUVD
K60		1			K13HD	KUHD
K61		1			K13VD	KUVD
K62		1			K14HD	KUHD
K63		1			K14VD	KUVD
K64		1			K15HD	KUHD
K65		1			K15VD	KUVD
K66		1			K16HD	KUHD
K67		1			K16VD	KUVD
K68		1			AlgKH	KZHD
K69		1			K56VD	K56D
K70		1	KaL1U	ASLU		
K71		1	KaR1U	ASRU		
K72		1	KaL2U	ASLU	KaR2D	ASRD
K73		1	KaR2U	ASRU	KaL2D	ASLD
K74		1			KaR1D	ASRD
K75		1			KaL1D	ASLD

KaR2D	440100	T	18550	R	C
KaL2D	440100	T	18550	L	C
TLM1	500	T	4197.75	H	T
TLM2	500	T	4199.25	H	T
TLM3	500	T	4198.25	H	T
TLM4	500	T	4198.75	H	T
TLM5	500	T	4197.75	R	T
TLM6	500	T	4199.25	R	T
TLM7	500	T	4198.25	R	T
TLM8	500	T	4198.75	R	T
CMDV	3700	R	6423.25	V	T
CMDP	3700	R	6423.25	L	T
CMDH	3700	R	5851.75	L	T
ULPC1	25	T	4199.75	V	T
ULPC2	25	T	11199	R	T
ULPC3	25	T	11451.5	R	T
ULPC4	25	T	12501	R	T
ULPC5	25	T	20199.5	V	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	9M00G7W	9000						
D3	1M43G7W	1434						
D4	820KG7W	820						
D5	10M3G7W	10300						
D7	400KG7W	400						
D6	1M45G7W	1450						

**FEDERAL COMMUNICATIONS COMMISSION
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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

**FEDERAL COMMUNICATIONS COMMISSION
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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
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.						

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