

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: INTELSAT 15		e. Estimated Date of Placement into Service: 12/31/2009		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date: 3/28/2007		f. Estimated Lifetime of Satellite(s): 15 Years		j. Number of transponders offered on a common carrier basis:	
c. Construction Completion Date: 4/30/2009		g. Total Number of Transponders: 22		k. Total Common Carrier Transponder Bandwidth: MHz	
d1. Est Launch Date Begin: 10/1/2009	d2. Est Launch Date End: 11/1/2009	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 1304 MHz		i. 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)		
10950	M	11200	M	T	Fixed Satellite Service
11450	M	11700	M	T	Fixed Satellite Service
12500	M	12750	M	T	Fixed Satellite Service
13750	M	14000	M	R	Fixed Satellite Service
14000	M	14500	M	R	Fixed Satellite Service

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 85.15 E		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: TO REPLACE INTELSAT 709 CURRENTLY OPERATING AT 85.15E	
Longitudinal Tolerance or E/W Station-Keeping:		f. Inclination Excursion or N/S Station-Keeping Tolerance: 0.05 Degrees	Range of orbital are in which adequate service can be provided (Optional): Degrees E/W		
d. Toward West: 0.05 Degrees	e. Toward East: 0.05 Degrees		g. Westernmost: h. Easternmost:		
i. Reason for service are selection (Optional):					

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

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

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

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		MIDDLE EAST
2	S		RUSSIA
3	S		EAST ASIA, INDOCHINA, MALAYSIA
4	S		GLOBAL

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

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			Input Attenuator (dB)	
										(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)	(q) Max. Value	(r) Step Size
		(c) Peak (dBi)	(d) Edge (dBi)														
MEH	R	36.5	28.5	0.14	0.12	30	N	0	1				713	8	-123.9	36	1
MEV	R	37.4	27.4	0.14	0.12	30	N		90	1			700	9	-122.8	36	1
RUH	R	33.5	27.5	0.14	0.12	30	N		0	2			590	5.8	-120.1	36	1
EIVU	R	29.8	23.8	0.14	0.12	30	N		90	3			542	2.5	-124.2	36	1
WIV	R	30.7	24.7	0.14	0.12	30	N		90	1			501	3.7	-124.4	36	1
MEH	T	36.3	28.3	0.14	0.12	30	N		0	1	2.8	79.4	55.3				
MEV	T	37	29	0.14	0.12	30	N		90	1	3.4	58.9	54.7				
RUV	T	34.2	28.2	0.14	0.12	30	N		90	2	3.3	60.3	52				
EIHD	T	28.2	22.2	0.14	0.12	30	N		0	3	3.1	74.1	46.9				
WIH	T	31.1	25.1	0.14	0.12	30	N		0	1	2.6	83.2	50.3				
CMH	R	21.3	13.3	0.14	0.12		N		0	4				29676	-23.4	-103.9	
CML	R	13.8	12.8	0.14	0.12		N			4				21999	-29.6	-97.7	
CML	R	2.7	-0.8	0.14	0.12		N			4				14204	-38.8	-88.5	
TUV	T	22.4	17.6	0.14	0.12		N		90	4	2.7	0.4	18.1				
TMV	T	22.4	17.6	0.14	0.12		N		90	4	0.8	0.6	20.5				
TMR	T	13.4	12.4	0.14	0.12		N			4	11.8	0.8	12.5				
TMR	T	2.7	-0.8	0.14	0.12		N			4	6.6	1.9	5.4				
UPH	T	22.4	19.8	0.14	0.12		N		0	4	3.7	0.3	17.7				
UPV	T	22.4	19.8	0.14	0.12		N		90	4	3.7	0.3	17.7				

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

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
MEH	R	C	85.15		MEHU.gxt					
MEV	R	C	85.15		MEVU.gxt					
RUH	R	C	85.15		RUHU.gxt					
EIVU	R	C	85.15		EIVU.gxt					
WIV	R	C	85.15		WIVU.gxt					
MEH	T	C	85.15		MEHD.gxt	-150	-147.5	-145	-142.5	-140
MEV	T	C	85.15		MEVD.gxt	-148	-145.5	-143	-140.5	-138.1
RUV	T	C	85.15		RUVD.gxt	-148	-145.5	-143	-140.9	-140.8
EIHD	T	C	85.15		EIHD.gxt	-148	-146.3	-146.1	-146	-145.9
WIH	T	C	85.15		WIHD.gxt	-148	-145.5	-143	-142.6	-142.5
CMH	R	C	85.15		cmhg.gxt					
CML	R	C	85.15		cmlw.gxt					
CML	R	C	85.15	cmlo.pdf						
TUV	T	C	85.15		tuv.gxt	-163.9	-163.8	-163.7	-163.6	-163.5
TMV	T	C	85.15		tmvg.gxt	-161.5	-161.4	-161.3	-161.2	-161.1
TMR	T	C	85.15		tmrw.gxt	-169.5	-169.4	-169.3	-169.2	-169.1
TMR	T	C	85.15	tmro.pdf		-176.6	-176.5	-176.4	-176.3	-176.2
UPH	T	C	85.15		uphg.gxt	-153.5	-153.4	-153.3	-153.2	-153.1
UPV	T	C	85.15		upvg.gxt	-153.5	-153.4	-153.3	-153.2	-153.1

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

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)
1KU	72000	R	13795	H	C
3KU	72000	R	13875	H	C
5KU	72000	R	13955	H	C
7KU	36000	R	14030	H	C
9KU	36000	R	14070	H	C
11KU	36000	R	14110	H	C
13KU	36000	R	14150	H	C
15KU	36000	R	14190	H	C
17KU	36000	R	14230	H	C
19KU	72000	R	14295	H	C
21KU	72000	R	14375	H	C
23KU	72000	R	14455	H	C
2KU	72000	R	13795	V	C
4KU	72000	R	13875	V	C
6KU	72000	R	13955	V	C
18KU	112000	R	14315	V	C
20KU	112000	R	14435	V	C
8KU	72000	R	14048	V	C
10KU	36000	R	14110	V	C
12KU	36000	R	14150	V	C
14KU	36000	R	14190	V	C
16KU	36000	R	14190	V	C
1KD	72000	T	10995	V	C
3KD	72000	T	11075	V	C
5KD	72000	T	11155	V	C
7KD	36000	T	12520	V	C
9KD	36000	T	12560	V	C
11KD	36000	T	12600	V	C
13KD	36000	T	12640	V	C
15KD	36000	T	12680	V	C

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
1K	149.5	1KU	MEHU	1KD	MEVD
3K	149.5	3KU	MEHU	3KD	MEVD
5K	149.5	5KU	MEHU	5KD	MEVD
7KMM	149.5	7KU	MEHU	7KD	MEVD
7KMR	149.6	7KU	MEHU	7KD	RUVD
9KMM	149.5	9KU	MEHU	9KD	MEVD
9KMR	149.6	9KU	MEHU	9KD	RUVD
11KMM	149.5	11KU	MEHU	11KD	MEVD
11KMR	149.6	11KU	MEHU	11KD	RUVD
13KMM	149.5	13KU	MEHU	13KD	MEVD
13KMR	149.6	13KU	MEHU	13KD	RUVD
15KMM	149.5	15KU	MEHU	15KD	MEVD
15KMR	149.6	15KU	MEHU	15KD	RUVD
17KMM	149.5	17KU	MEHU	17KD	MEVD
17KMR	149.6	17KU	MEHU	17KD	RUVD
19K	149.5	19KU	MEHU	19KD	MEVD
21K	149.5	21KU	MEHU	21KD	MEVD
23K	149.5	23KU	MEHU	23KD	MEVD
2K	148.8	2KU	MEVU	2KD	MEHD
4K	148.8	4KU	MEVU	4KD	MEHD
6K	148.8	6KU	MEVU	6KD	MEHD
18K	148.8	18KU	MEVU	18KD	MEHD
20K	148.8	20KU	MEVU	20KD	MEHD
7KRR	148.8	7KU	RUHU	7KD	RUVD
7KRM	148.7	7KU	RUHU	7KD	MEVD
9KRR	148.8	9KU	RUHU	9KD	RUVD
9KRM	148.7	9KU	RUHU	9KD	MEVD
11KRR	148.8	11KU	RUHU	11KD	RUVD
11KRM	148.7	11KU	RUHU	11KD	MEVD
13KRR	148.8	13KU	RUHU	13KD	RUVD

17KD	36000	T	12720	V	C
19KD	72000	T	11495	V	C
21KD	72000	T	11575	V	C
23KD	72000	T	11655	V	C
2KD	72000	T	10995	H	C
4KD	72000	T	11075	H	C
6KD	72000	T	11155	H	C
18KD	112000	T	11515	H	C
20KD	112000	T	11635	H	C
8KD	72000	T	12538	H	C
10KD	36000	T	12600	H	C
12KD	36000	T	12640	H	C
14KD	36000	T	12680	H	C
16KD	36000	T	12720	H	C
CMD1	1000	R	14002	H	T
CMD2	1000	R	14004.5	H	T
CMD3	1000	R	14002	L	T
CMD4	1000	R	14004.5	L	T
CMD5	1000	R	14002	L	T
CMD6	1000	R	14004.5	L	T
TLM1	500	T	11698	V	T
TLM2	500	T	11699	V	T
TLM3	500	T	11698	R	T
TLM4	500	T	11699	R	T
TLM5	500	T	11698	R	T
TLM6	500	T	11699	R	T
UPC1	25	T	10951	H	T
UPC2	25	T	10952	V	T
UPC3	25	T	11451	H	T
UPC4	25	T	11451.5	V	T
UPC5	25	T	12748	V	T
UPC6	25	T	12749	H	T

13KRM	148.7	13KU	RUHU	13KD	MEVD
15KRR	148.8	15KU	RUHU	15KD	RUVD
15KRM	148.7	15KU	RUHU	15KD	MEVD
17KRR	148.8	17KU	RUHU	17KD	RUVD
17KRM	148.7	17KU	RUHU	17KD	MEVD
8KEE	157.5	8KU	EIVU	8KD	EIHD
8KEW	158	8KU	EIVU	8KD	WIHD
10KEE	157.5	10KU	EIVU	10KD	EIHD
10KEW	158	10KU	EIVU	10KD	WIHD
12KEE	157.5	12KU	EIVU	12KD	EIHD
12KEW	158	12KU	EIVU	12KD	WIHD
14KEE	157.5	14KU	EIVU	14KD	EIHD
14KEW	158	14KU	EIVU	14KD	WIHD
16KEE	157.5	16KU	EIVU	16KD	EIHD
16KEW	158	16KU	EIVU	16KD	WIHD
8KWE	156.8	8KU	WIVU	8KD	EIHD
8KWW	157.3	8KU	WIVU	8KD	WIHD
10KWE	156.8	10KU	WIVU	10KD	EIHD
10KWW	157.3	10KU	WIVU	10KD	WIHD
12KWE	156.8	12KU	WIVU	12KD	EIHD
12KWW	157.3	12KU	WIVU	12KD	WIHD
14KWE	156.8	14KU	WIVU	14KD	EIHD
14KWW	157.3	14KU	WIVU	14KD	WIHD
16KWE	156.8	16KU	WIVU	16KD	EIHD
16KWW	157.3	16KU	WIVU	16KD	WIHD

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	4	27769.6	0.5		3.4	9.5
D2	72M0G7W	72000	4	55539.3	0.5		3.4	13.3
D3	112MG7W	112000	4	86394.3	0.5		3.4	8.7
D4	10M3G7W	10300	4	6240	0.5		3.9	13.8
D5	100KG7W	100	4	70.4	0.5		3	13
D6	1M45G7W	1450	2	614.5	0.5		3.4	15.5
D7	400KG7W	400	2	153.5	0.5		3.4	15.4

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

S12. ANALOG MODULATION PARAMETERS For each analog emission provide:

(a) Analog Mod. ID	(b) Emission Designator	(c) Assigned Bandwidth (kHz)	(d) Signal Type	(e) Channels per Carrier	Multi-channel Telephony				(j) Video Standard NTSC, PAL, etc.	(k) Video Noise- Weighting (dB)	(l) Video and SCPC/FM Modulation Index	(m) SCPC/FM Compander, Preemphasis, and Noise Weighting (dB)	(n) Total C/N Performance Objective (dB)	(o) Single Entry C/I Objective (dB)
					(f) Ave. Companded Talker Level (dBm0)	(g) Bottom Baseband Freq. (MHz)	(h) Top Baseband Freq. (MHz)	(i) RMS Modulation Index						
A1	36M0F3F	36000	TV/FM	1					PAL	15.6	1.5		10	20.3

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

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 ² /Hz)	(o) Assoc. Stn Rec. G/T (dB/K)
1K	17KMR		A1	1		Link-budgets.p	4000	54.6	13.3	21.3	41	47	-145.1	19.1
1K	17KMR	D1		1		S13_SCHEDUL		54.6	15	23	42.8	48.8	-152.1	19.1
1K	17KMR	D4		3		S13_SCHEDUL		54.6	8.5	16.5	36.3	42.3	-152.1	19.3
1K	17KMR	D5		360		S13_SCHEDUL		54.6	-11	-3	16.8	22.8	-152.1	19
1K	17KMR	D6		24		S13_SCHEDUL		54.6	1.1	9.1	28.9	34.9	-152.1	19
1K	17KMR	D7		90		S13_SCHEDUL		42	-10	-2	22.2	28.2	-152.8	31.6
1K	17KMR		A1	2	36000	S13_SCHEDUL	4000	54.6	10.6	18.6	39	47	-145.1	19.7
1K	17KMR	D2		1		S13_SCHEDUL		54.6	15.3	23.3	43.8	51.8	-152.1	19.7
1K	17KMR	D4		6		S13_SCHEDUL		54.6	5.8	13.8	34.3	42.3	-152.1	20
1K	17KMR	D5		720		S13_SCHEDUL		54.6	-13.7	-5.7	14.8	22.8	-152.1	19.6
1K	17KMR	D6		49		S13_SCHEDUL		54.6	-1.6	6.4	26.9	34.9	-152.1	19.6
1K	17KMR	D7		180		S13_SCHEDUL		43.3	-11.2	-3.2	20	28	-153	30.9
1K	17KMR		A1	3		S13_SCHEDUL	4000	54.7	11	21	39	47	-145.1	19.9
1K	17KMR	D3		1		S13_SCHEDUL		54.7	13.7	23.7	45.7	53.7	-152.1	19.8
1K	17KMR	D4		10		S13_SCHEDUL		54.7	6.2	16.2	34.3	42.3	-152.1	20
1K	17KMR	D5		1120		S13_SCHEDUL		54.7	-13.3	-3.3	14.8	22.8	-152.1	19.6
1K	17KMR	D6		77		S13_SCHEDUL		54.7	-1.2	8.8	26.9	34.9	-152.1	19.6
1K	17KMR	D7		280		S13_SCHEDUL		43.4	-12.4	-2.4	20.3	28.3	-152.7	30.9
1K	17KMR		A1	1		S13_SCHEDUL	4000	54.6	15	21	41	47	-145.1	19.1
1K	17KMR	D1		1		S13_SCHEDUL		54.6	17.8	23.8	42.8	48.8	-152.1	19.1
1K	17KMR	D4		3		S13_SCHEDUL		54.6	12.3	18.3	36.3	42.3	-152.1	19.3
1K	17KMR	D5		360		S13_SCHEDUL		54.6	-7.2	-1.2	16.8	22.8	-152.1	19
1K	17KMR	D6		24		S13_SCHEDUL		54.6	4.9	10.9	28.9	34.9	-152.1	19
1K	17KMR	D7		90		S13_SCHEDUL		42	-7.9	-1.9	22.5	28.5	-152.5	31.6
1K	17KMR		A1	1		S13_SCHEDUL	4000	54.6	14.3	20.3	39	47	-145.1	20
1K	17KMR	D1		1		S13_SCHEDUL		54.6	16.1	22.1	40.8	48.8	-152.1	20.2
1K	17KMR	D5		3		S13_SCHEDUL		54.6	9.6	15.6	34.3	42.3	-152.1	20.8
1K	17KMR	D6		360		S13_SCHEDUL		54.6	-9.9	-3.9	14.8	22.8	-152.1	19.9
1K	17KMR	D6		24		S13_SCHEDUL		54.6	2.2	8.2	26.9	34.9	-152.1	19.8

1K	17KMR	D7		90		S13_SCHEDUL		42.8	-8.6	-2.6	20.3	28.3	-152.7	31.6
1K	17KMR		A1	2		S13_SCHEDUL	4000	54.6	14	20	37.1	43.1	-149	25.8
1K	17KMR	D2		1		S13_SCHEDUL		54.6	17.9	23.9	40.9	46.9	-157	26.8
1K	17KMR	D4		6		S13_SCHEDUL		54.6	9.9	15.9	32.9	38.9	-155.5	25.8
1K	17KMR	D5		720		S13_SCHEDUL		54.6	-10.7	-4.7	12.3	18.3	-156.6	26
1K	17KMR	D6		49		S13_SCHEDUL		54.6	1	7	24	30	-157	26.4
1K	17KMR	D7		180		S13_SCHEDUL		49.5	-9.6	-3.6	18.3	24.3	-156.7	31.5
1K	17KMR		A1	2		S13_SCHEDUL	4000	54.6	14	20	40.5	46.5	-145.6	19.4
1K	17KMR	D2		1		S13_SCHEDUL		54.6	17.9	23.9	44.3	50.3	-153.6	19.9
1K	17KMR	D4		6		S13_SCHEDUL		54.6	9.9	15.9	36.3	42.3	-152.1	19.4
1K	17KMR	D5		720		S13_SCHEDUL		54.6	-10.7	-4.7	15.7	21.7	-153.2	19.5
1K	17KMR	D6		49		S13_SCHEDUL		54.6	-7.5	-1.5	27	33	-154	23.7
1K	17KMR	D7		180		S13_SCHEDUL		46.6	-6.9	-0.9	21.5	27.5	-153.5	31.6
1K	17KMR		A1	2		S13_SCHEDUL	4000	54.6	13.9	19.9	40.5	46.5	-145.6	19.4
1K	17KMR	D2		1		S13_SCHEDUL		54.6	17.7	23.7	44.3	50.3	-153.6	19.9
1K	17KMR	D4		6		S13_SCHEDUL		54.6	9.7	15.7	36.3	42.3	-152.1	19.4
1K	17KMR	D5		720		S13_SCHEDUL		54.6	-10.8	-4.8	15.7	21.7	-153.2	19.5
1K	17KMR	D6		49		S13_SCHEDUL		54.6	0.8	6.8	27.4	33.4	-153.6	19.7
1K	17KMR	D7		179		S13_SCHEDUL		42.6	-6.8	-0.8	21.8	27.8	-153.2	31.6
1K	17KMR		A1	2		S13_SCHEDUL	4000	54.6	13.9	19.9	37.1	43.1	-149	25.8
1K	17KMR	D2		1		S13_SCHEDUL		54.6	17.7	23.7	40.9	46.9	-157	26.8
1K	17KMR	D4		6		S13_SCHEDUL		54.6	9.7	15.7	32.9	38.9	-155.5	25.8
1K	17KMR	D5		720		S13_SCHEDUL		54.6	-10.8	-4.8	12.3	18.3	-156.6	26
1K	17KMR	D6		49		S13_SCHEDUL		54.6	0.8	6.8	24	30	-157	26.4
1K	17KMR	D7		180		S13_SCHEDUL		49.4	-13.1	-7.1	17.9	23.9	-157.1	31.5

**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 and C control point(s): #Error

Remote Control (TT C) Location(s):

S14a: Street Address: 3400 INTERNATIONAL DRIVE			
S14b. City: WASHINGTON	S14c. County:	S14d. State/Country DC	S14e. Zip Code: 20008
S14f. Telephone Number: 202-944-7701		S14g. Call Sign of Control Station (if appropriate):	

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

**Page 11:
Characteristics and
Certifications**

S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S15a. Mass of spacecraft without fuel (kg): 1227	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 1287		
S15c. Mass of spacecraft and fuel at launch (kg): 2514	S15f. Length (m): 22.3	S15i. Payload: 0.856
S15d. Mass of fuel, in orbit, at beginning of life (kg): 534	S15g. Width (m): 5.1	S15j. Bus: 0.83
S15e. Deployed Area of Solar Array (square meters): 29.7	S15h. Height (m): 7.4	S15k. Total: 0.71

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.