

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

a. Space Station or Satellite Network Name: INTELSAT 18		e. Estimated Date of Placement into Service: 4/30/2011		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date: 8/4/2008		f. Estimated Lifetime of Satellite(s): 15 Years		j. Number of transponders offered on a common carrier basis:	
c. Construction Completion Date: 2/17/2011		g. Total Number of Transponders: 36		k. Total Common Carrier Transponder Bandwidth: MHz	
d1. Est Launch Date Begin: 3/1/2011	d2. Est Launch Date End: 3/31/2011	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 2170 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)		
5925	M	6425	M	R	Fixed Satellite Service
14000	M	14500	M	R	Fixed Satellite Service
3700	M	4200	M	T	Fixed Satellite Service
10950	M	11200	M	T	Fixed Satellite Service
11450	M	11700	M	T	Fixed Satellite Service
12250	M	12750	M	T	Fixed Satellite Service

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

a. Nominal Orbital Longitude (Degrees E/W): 180 E		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection:  REPLACE THE EXISTING INTELSAT 701 SPACECRAFT	
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):					

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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		EAST ASIA, WESTERN NORTH AMERICA, NORTHERN PACIFIC
2	S		AUSTRALIA, NEW ZEALAND, SOUTHERN PACIFIC
3	S		SOUTHEAST PACIFIC, WESTERN NORTH AMERICA
4	S		EASTERN AUSTRALIA, NEW ZEALAND, SOUTHWESTERN PACIFIC
5	S		GLOBAL

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

(a) Beam ID	(b) T/R Mode	(c) 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)	
		(c) Peak (dBi)	(d) Edge (dBi)							(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
NAL	R	29.3	23.3	0.1	0.1	30	N		1				457	2.7	-108.1	32	1
NBR	R	29.3	23.3	0.1	0.1	30	N		1				457	2.7	-108.1	32	1
SALU	R	26.8	20.8	0.1	0.1	20	N		2				468	0.1	-105.6	32	1
SBR	R	26.8	20.8	0.1	0.1	20	N		2				468	0.1	-105.6	32	1
GAL	R	20.8	16.8	0.1	0.1	30	N		5				427	-5.5	-99.3	32	1
GBR	R	20.8	16.8	0.1	0.1	30	N		5				427	-5.5	-99.3	32	1
F1HU	R	36.2	30.2	0.1	0.1	30	N		03				631	8.2	-107.7	32	1
F2HU	R	34.9	28.9	0.1	0.1	30	N		04				631	6.9	-106.3	32	1
F2VU	R	34.8	28.8	0.1	0.1	30	N		904				631	6.8	-106.4	32	1
USV	R	36.3	30.3	0.1	0.1	30	N		903				631	8.3	-107.8	32	1
NAR	T	27.6	21.6	0.1	0.1	30	N		1	2.6	24.5	41.5					
NBL	T	27.7	21.7	0.1	0.1	30	N		1	2.6	24.5	41.6					
SAR	T	26.5	20.5	0.1	0.1	30	N		2	2.6	24.5	40.4					
SBLD	T	26.5	20.5	0.1	0.1	20	N		2	2.6	24.5	40.4					
GAR	T	20.4	16.4	0.1	0.1	30	N		5	2	28.2	34.9					
GBL	T	20.4	16.4	0.1	0.1	30	N		5	2	28.2	34.9					
F1VD	T	34.5	28.5	0.1	0.1	30	N		903	3	75.9	53.3					
F2VD	T	34	28	0.1	0.1	30	N		904	3	75.9	52.8					
F2HD	T	33.8	27.8	0.1	0.1	30	N		04	3	75.9	52.6					
CMD	R	20.8	16.8	0.1	0.1		N		5				9371	-18.9	-115.3		
CMD	R	13.1	9.1	0.1	0.1		N		5				22510	-30.4	-103.9		
CMD	R	2.4	-1.6	0.1	0.1		N		5				7613	-36.4	-97.8		
TLM	T	20.4	16.4	0.1	0.1		N		5	5.2	0.2	12.8					
TLM	T	13.1	9.1	0.1	0.1		N		5	10	1	13.1					
TLM	T	1.8	-2.2	0.1	0.1		N		5	5.3	2.9	6.5					
UPC	T	13	9	0.1	0.1		N		905	2.8	0.5	10					
UPC	T	20.6	16.6	0.1	0.1		N		5	5.4	0.18	13.2					

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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
NAL	R	C	180		NALU.gxt					
NBR	R	C	180		NBRU.gxt					
SALU	R	C	180		SALU.gxt					
SBR	R	C	180		SBRU.gxt					
GAL	R	C	180		GALU.gxt					
GBR	R	C	180		GBRU.gxt					
F1HU	R	C	180		F1HU.gxt					
F2HU	R	C	180		F2HU.gxt					
F2VU	R	C	180		F2VU.gxt					
USV	R	C	180		USVU.gxt					
NAR	T	C	180		NARD.gxt	-152	-151.7	-151.5	-151.4	-151.3
NBL	T	C	180		NBLD.gxt	-152	-151.6	-151.4	-151.3	-151.2
SAR	T	C	180		SARD.gxt	-152.9	-152.8	-152.6	-152.5	-152.4
SBLD	T	C	180		SBLD.gxt	-152.9	-152.8	-152.6	-152.5	-152.4
GAR	T	C	180		GARD.gxt	-158.4	-158.3	-158.1	-158	-157.9
GBL	T	C	180		GBLD.gxt	-158.4	-158.3	-158.1	-158	-157.9
F1VD	T	C	180		F1VD.gxt	-150	-147.5	-145	-142.5	-140
F2VD	T	C	180		F2VD.gxt	-148	-145.5	-143	-140.5	-140
F2HD	T	C	180		F2HD.gxt	-148	-145.5	-143	-140.5	-140.2
CMD	R	C	180		CMDG.gxt					
CMD	R	C	180	CMDW.pdf						
CMD	R	C	180	CMDO.pdf						
TLM	T	C	180		TLMG.gxt	-168.4	-168.3	-168.2	-168.1	-168
TLM	T	C	180	TLMW.pdf		-168.1	-168	-167.9	-167.8	-167.7
TLM	T	C	180	TLMO.pdf		-174.7	-174.6	-174.5	-174.4	-174.3
UPC	T	C	180	UPCC.pdf		-161.2	-161.1	-161	-160.9	-160.8
UPC	T	C	180	UPCK.pdf		-158	-157.9	-157.8	-157.7	-157.6

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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)
1CU	72000	R	5970	L	C
3CU	72000	R	6050	L	C
5CU	72000	R	6130	L	C
7CU	72000	R	6220	L	C
9CU	72000	R	5970	L	C
11CU	72000	R	6050	L	C
13CU	72000	R	6130	L	C
15CU	72000	R	6220	L	C
17CU	36000	R	6280	L	C
19CU	36000	R	6320	L	C
21CU	36000	R	6360	L	C
23CU	41000	R	6402.5	L	C
2CU	72000	R	5970	R	C
4CU	72000	R	6050	R	C
6CU	72000	R	6130	R	C
8CU	72000	R	6220	R	C
10CU	72000	R	5970	R	C
12CU	72000	R	6050	R	C
14CU	72000	R	6130	R	C
16CU	72000	R	6220	R	C
18CU	36000	R	6280	R	C
20CU	36000	R	6320	R	C
22CU	36000	R	6360	R	C
24CU	41000	R	6402.5	R	C
1CD	72000	T	3745	R	C
3CD	72000	T	3825	R	C
5CD	72000	T	3905	R	C
7CD	72000	T	3995	R	C
9CD	72000	T	3745	R	C
11CD	72000	T	3825	R	C

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
C0001	129.9	1CU	NALU	1CD	NARD
C0003	129.9	3CU	NALU	3CD	NARD
C0005	129.9	5CU	NALU	5CD	NARD
C0007	129.9	7CU	NALU	7CD	NARD
CX001	129.9	1CU	NALU	9CD	SARD
CX003	129.9	3CU	NALU	11CD	SARD
CX005	129.9	5CU	NALU	13CD	SARD
CX007	129.9	7CU	NALU	15CD	SARD
C0017	129.9	17CU	NALU	17CD	NARD
C0002	129.9	2CU	NBRU	2CD	NBLD
C0004	129.9	4CU	NBRU	4CD	NBLD
C0006	129.9	6CU	NBRU	6CD	NBLD
C0008	129.9	8CU	NBRU	8CD	NBLD
CX002	129.9	2CU	NBRU	10CD	SBLD
CX004	129.9	4CU	NBRU	12CD	SBLD
CX006	129.9	6CU	NBRU	14CD	SBLD
CX008	129.9	8CU	NBRU	16CD	SBLD
C0018	129.9	18CU	NBRU	18CD	NBLD
C0009	129.9	9CU	SALU	9CD	SARD
C0011	129.9	11CU	SALU	11CD	SARD
C0013	129.9	13CU	SALU	13CD	SARD
C0015	129.9	15CU	SALU	15CD	SARD
CX009	129.9	9CU	SALU	1CD	NARD
CX011	129.9	11CU	SALU	3CD	NARD
CX013	129.9	13CU	SALU	5CD	NARD
CX015	129.9	15CU	SALU	7CD	NARD
CX017	129.9	17CU	SALU	17CD	SARD
C0010	129.9	10CU	SBRU	10CD	SBLD
C0012	129.9	12CU	SBRU	12CD	SBLD
C0014	129.9	14CU	SBRU	14CD	SBLD

13CD	72000	T	3905	R	C
15CD	72000	T	3995	R	C
17CD	36000	T	4055	R	C
19CD	36000	T	4095	R	C
21CD	36000	T	4135	R	C
23CD	41000	T	4177.5	R	C
2CD	72000	T	3745	L	C
4CD	72000	T	3825	L	C
6CD	72000	T	3905	L	C
8CD	72000	T	3995	L	C
10CD	72000	T	3745	L	C
12CD	72000	T	3825	L	C
14CD	72000	T	3905	L	C
16CD	72000	T	3995	L	C
18CD	36000	T	4055	L	C
20CD	36000	T	4095	L	C
22CD	36000	T	4135	L	C
24CD	41000	T	4177.5	L	C
CMD1	1000	R	6173.7	L	T
CMD2	1000	R	6176.3	L	T
TLM1	500	T	3947.5	R	T
TLM2	500	T	3952.5	R	T
BNC1	25	T	3950	V	T
BNK1	25	T	11198	R	T
BNK2	25	T	11452	R	T
BNK3	25	T	12502	R	T
1KU	72000	R	14045	H	C
3KU	72000	R	14125	H	C
5KU	72000	R	14205	H	C
7KU	72000	R	14295	H	C
9KU	72000	R	14375	H	C
11KU	72000	R	14455	H	C
2KU	72000	R	14045	V	C
4KU	72000	R	14125	V	C
6KU	72000	R	14205	V	C
8KU	72000	R	14295	V	C
10KU	72000	R	14375	V	C
12KU	72000	R	14455	V	C
1KD	72000	T	10995	V	C

C0016	129.9	16CU	SBRU	16CD	SBLD
CX010	129.9	10CU	SBRU	2CD	NBLD
CX012	129.9	12CU	SBRU	4CD	NBLD
CX014	129.9	14CU	SBRU	6CD	NBLD
CX016	129.9	16CU	SBRU	8CD	NBLD
CX018	129.9	18CU	SBRU	18CD	SBLD
CA017	130.5	17CU	GALU	17CD	GARD
CA019	130.5	19CU	GALU	19CD	GARD
CA021	130.5	21CU	GALU	21CD	GARD
CA023	130.5	23CU	GALU	23CD	GARD
CB018	130.5	18CU	GBRU	18CD	GBLD
CB020	130.5	20CU	GBRU	20CD	GBLD
CB022	130.5	22CU	GBRU	22CD	GBLD
CB024	130.5	24CU	GBRU	24CD	GBLD
K0001	134.8	1KU	F1HU	1KD	F1VD
K0003	134.8	3KU	F1HU	3KD	F1VD
K0005	134.8	5KU	F1HU	5KD	F1VD
K0007	134.8	7KU	F1HU	7KD	F1VD
K0009	134.8	9KU	F1HU	9KD	F1VD
K0011	134.8	11KU	F1HU	11KD	F1VD
KX007	134.8	7KU	F1HU	13KD	F2VD
KX009	134.8	9KU	F1HU	15KD	F2VD
KX011	134.8	11KU	F1HU	17KD	F2VD
FH007	134.8	7KU	F2HU	7KD	F1VD
FH009	134.8	9KU	F2HU	9KD	F1VD
FH011	134.8	11KU	F2HU	11KD	F1VD
FX007	134.8	7KU	F2HU	13KD	F2VD
FX009	134.8	9KU	F2HU	15KD	F2VD
FX011	134.8	11KU	F2HU	17KD	F2VD
FV002	134.8	2KU	F2VU	2KD	F2HD
FV004	134.8	4KU	F2VU	4KD	F2HD
FV006	134.8	6KU	F2VU	6KD	F2HD
FV008	134.8	8KU	F2VU	8KD	F2HD
FV010	134.8	10KU	F2VU	10KD	F2HD
FV012	134.8	12KU	F2VU	12KD	F2HD
FY002	134.8	2KU	F2VU	14KD	F2HD
FY004	134.8	4KU	F2VU	16KD	F2HD
FY006	134.8	6KU	F2VU	18KD	F2HD
FY008	134.8	8KU	F2VU	20KD	F2HD

3KD	72000	T	11075	V	C
5KD	72000	T	11155	V	C
7KD	72000	T	11495	V	C
9KD	72000	T	11575	V	C
11KD	72000	T	11655	V	C
13KD	72000	T	12547	V	C
15KD	72000	T	12627	V	C
17KD	72000	T	12707	V	C
2KD	72000	T	10995	H	C
4KD	72000	T	11075	H	C
6KD	72000	T	11155	H	C
8KD	72000	T	11495	H	C
10KD	72000	T	11575	H	C
12KD	72000	T	11655	H	C
14KD	72000	T	12297	H	C
16KD	72000	T	12377	H	C
18KD	72000	T	12457	H	C
20KD	72000	T	12547	H	C
22KD	72000	T	12627	H	C
24KD	72000	T	12707	H	C

FY010	134.8	10KU	F2VU	22KD	F2HD
FY012	134.8	12KU	F2VU	24KD	F2HD
U0002	134.8	2KU	USVU	2KD	F2HD
U0004	134.8	4KU	USVU	4KD	F2HD
U0006	134.8	6KU	USVU	6KD	F2HD
U0008	134.8	8KU	USVU	8KD	F2HD
U0010	134.8	10KU	USVU	10KD	F2HD
U0012	134.8	12KU	USVU	12KD	F2HD
UX002	134.8	2KU	USVU	14KD	F2HD
UX004	134.8	4KU	USVU	16KD	F2HD
UX006	134.8	6KU	USVU	18KD	F2HD
UX008	134.8	8KU	USVU	20KD	F2HD
UX010	134.8	10KU	USVU	22KD	F2HD
UX012	134.8	12KU	USVU	24KD	F2HD



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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	72M0G7W	72000	4	49138	0.5		3.36	17.9
D2	36M0G7W	36000	4	24575	0.5		3.36	12.4
D3	10M3G7W	10300	4	6000	0.5		3.87	16.3
D4	100KG7W	100	4	64	0.5		2.99	15.6
D5	1M45G7W	1450	2	512	0.5		3.4	15.5
D6	400KG7W	400	2	128	0.5		3.4	14.9

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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	22.2

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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)		EIRP (dBW)		(n) Max. Power Flux Density (dBW/m <sup>2</sup> /Hz)	(o) Assoc. Stn Rec. G/T (dB/K)
									(j) Min.	(k) Max.	(l) Min.	(m) Max.		
C0001	UX012		A1	1	36000	INTELSAT 18	4000	58.4	18.1	24.1	35.3	41.3	-150.8	23.6
C0001	UX012	D2		1	36000	NOTE.txt		51	15.8	21.8	35.5	41.5	-159.4	19.2
C0001	UX012	D3		2	10300	NOTE.txt		51	9.6	15.6	28	34	-160.4	19.2
C0001	UX012	D4		276	100	NOTE.txt		51	-10.8	-4.8	7.6	13.6	-161.3	19.2
C0001	UX012		A1	2	36000	NOTE.txt	4000	56.4	18.4	24.4	30.2	36.2	-155.9	28.4
C0001	UX012	D1		1	72000	NOTE.txt		51	20.8	26.8	34.4	40.4	-163.5	19.2
C0001	UX012	D3		4	10300	NOTE.txt		51	8.8	14.8	24.1	30.1	-164.3	21
C0001	UX012	D4		527	100	NOTE.txt		51	-11.6	-5.6	3.7	9.7	-165.2	21
C0001	UX012		A1	2	36000	NOTE.txt	4000	58.4	18.9	24.9	31.3	37.3	-154.8	26.6
C0001	UX012	D1		1	72000	NOTE.txt		53.4	16.9	22.9	35.5	41.5	-162.4	19.2
C0001	UX012	D3		4	10300	NOTE.txt		51	14.3	20.3	25.3	31.3	-163.1	19.2
C0001	UX012	D4		518	100	NOTE.txt		51	-6.1	-0.1	4.8	10.8	-164.1	19.2
C0001	UX012		A1	1	36000	NOTE.txt	4000	55.4	17.9	23.9	34.4	40.4	-151.7	26.2
C0001	UX012	D2		1	36000	NOTE.txt		51	16.3	22.3	34.4	40.4	-160.5	19.2
C0001	UX012	D3		2	10300	NOTE.txt		51	10.3	16.3	27.1	33.1	-161.3	19.2
C0001	UX012	D4		264	100	NOTE.txt		51	-10.1	-4.1	6.7	12.7	-162.2	19.2
C0001	UX012		A1	1	36000	NOTE.txt	4000	58.4	18.7	22.7	30.9	34.9	-157.2	31
C0001	UX012	D2		1	36000	NOTE.txt		51	16.1	20.1	30.9	34.9	-166	23.6
C0001	UX012	D3		2	10300	NOTE.txt		51	14.1	18.1	23.6	27.6	-166.8	23.6
C0001	UX012	D4		262	100	NOTE.txt		51	-6.3	-2.3	3.2	7.2	-167.7	23.6
C0001	UX012		A1	2	36000	NOTE.txt	4000	56.9	17.2	23.2	42.4	48.4	-143.7	28.6
C0001	UX012	D1		1	72000	NOTE.txt		56.9	17.7	23.7	45.8	51.8	-152.1	22.3
C0001	UX012	D3		5	10300	NOTE.txt		56.9	9	15	34.5	40.5	-153.9	22.3
C0001	UX012	D4		526	100	NOTE.txt		56.9	-11.2	-5.2	14.3	20.3	-154.6	22.3
C0001	UX012	D5		33	1450	NOTE.txt		56.9	0.8	6.8	26.3	32.3	-154.7	22.3
C0001	UX012	D6		180	400	NOTE.txt		46.4	-3.9	2.1	11.1	17.1	-163.9	33.1

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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

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

S14a: Street Address: 3400 INTERNATIONAL DRIVE, N.W.			
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  
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S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S15a. Mass of spacecraft without fuel (kg): 1464	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 1736		
S15c. Mass of spacecraft and fuel at launch (kg): 3200	S15f. Length (m): 23.6	S15i. Payload: 0.796
S15d. Mass of fuel, in orbit, at beginning of life (kg): 619	S15g. Width (m): 5.6	S15j. Bus: 0.839
S15e. Deployed Area of Solar Array (square meters): 37.5	S15h. Height (m): 8.6	S15k. Total: 0.668

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): 4898	(f): 4898	(k): 4898	(p): 4898
Bus (Watts):	(b): 1345	(g): 753	(l): 1345	(q): 753
Total (Watts):	(c): 6243	(h): 5651	(m): 6243	(r): 5651
Solar Array (Watts):	(d): 6949	(i): 6386	(n): 6746	(s): 6114
Depth of Battery Discharge (%):	(e) 66.4 %	(j) %	(o) 67.2 %	(t) %

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.**