

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: SKYTERRA-1		e. Estimated Date of Placement into Service: 4/19/2010		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date: 4/19/2008		f. Estimated Lifetime of Satellite(s): 12 Years		j. Number of transponders offered on a common carrier basis: 0	
c. Construction Completion Date:		g. Total Number of Transponders: 84		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) 9485.5 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)		
18.3	G	18.8	G	T	Fixed Satellite Service
19.7	G	20.2	G	T	Fixed Satellite Service
28.35	G	28.6	G	R	Fixed Satellite Service
29.25	G	30	G	R	Fixed Satellite Service
5926.25	M	5926.75	M	R	Fixed Satellite Service
6424.25	M	6424.75	M	R	Fixed Satellite Service
3700.75	M	3701.25	M	T	Fixed Satellite Service
4198.75	M	4199.25	M	T	Fixed Satellite Service

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 95 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: Spectrum availability and look angle performance across service area.			
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			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.
CONUS	S		Continental United States

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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			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)														
SPU1	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU2	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU3	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU4	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU5	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU6	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU7	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU8	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU9	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU1	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU1	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU1	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU1	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
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SPU1	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU1	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU1	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU1	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU2	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
SPU2	R	55.2	51.2	0.03	0.01	30	N		CONUS				741	26.5	-81.6	15	1
RU1	R	43.1	39.1	0.11	0.01	30	N		CONUS				832	13.9	-69.5	15	1
RU2	R	43.1	39.1	0.11	0.01	30	N		CONUS				832	13.9	-69.5	15	1
RU3	R	43.1	39.1	0.11	0.01	30	N		CONUS				832	13.9	-69.5	15	1
RU4	R	43.1	39.1	0.11	0.01	30	N		CONUS				832	13.9	-69.5	15	1
RU5	R	43.1	39.1	0.11	0.01	30	N		CONUS				832	13.9	-69.5	15	1
RU6	R	43.1	39.1	0.11	0.01	30	N		CONUS				832	13.9	-69.5	15	1
RU7	R	43.1	39.1	0.11	0.01	30	N		CONUS				832	13.9	-69.5	15	1
RU8	R	43.1	39.1	0.11	0.01	30	N		CONUS				832	13.9	-69.5	15	1

RU9	R	43.1	39.1	0.11	0.01	30	N			CONUS				832	13.9	-69.5	15	1
RU10	R	43.1	39.1	0.11	0.01	30	N			CONUS				832	13.9	-69.5	15	1
RU11	R	43.1	39.1	0.11	0.01	30	N			CONUS				832	13.9	-69.5	15	1
RU12	R	43.1	39.1	0.11	0.01	30	N			CONUS				832	13.9	-69.5	15	1
RU13	R	43.1	39.1	0.11	0.01	30	N			CONUS				832	13.9	-69.5	15	1
RU14	R	43.1	39.1	0.11	0.01	30	N			CONUS				832	13.9	-69.5	15	1
RU15	R	43.1	39.1	0.11	0.01	30	N			CONUS				832	13.9	-69.5	15	1
RU16	R	43.1	39.1	0.11	0.01	30	N			CONUS				832	13.9	-69.5	15	1
RU17	R	43.1	39.1	0.11	0.01	30	N			CONUS				832	13.9	-69.5	15	1
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	22.49	65.72					
SPD2	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	22.49	65.72					
SPD3	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	36.55	67.83					
SPD4	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	36.55	67.83					
SPD5	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	36.55	67.83					
SPD6	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	44.99	68.73					
SPD7	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	14.06	63.68					
SPD8	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	39.36	68.15					
SPD9	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	22.49	65.72					
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	36.55	67.83					
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	36.55	67.83					
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	44.99	68.73					
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	22.49	65.72					
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	22.49	65.72					
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	56.23	69.7					
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	56.23	69.7					
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	56.23	69.7					
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	56.23	69.7					
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	56.23	69.7					
SPD1	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	56.23	69.7					
SPD2	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	36.55	67.83					
SPD2	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	36.55	67.83					
RD1	T	43.1	39.1	0.11	0.01	30	N			CONUS	2.1	37	58.8					
RD2	T	43.1	39.1	0.11	0.01	30	N			CONUS	2.1	37	58.8					
RD3	T	43.1	39.1	0.11	0.01	30	N			CONUS	2.1	37	58.8					
RD4	T	43.1	39.1	0.11	0.01	30	N			CONUS	2.1	37	58.8					
RD5	T	43.1	39.1	0.11	0.01	30	N			CONUS	2.1	37	58.8					
RD6	T	43.1	39.1	0.11	0.01	30	N			CONUS	2.1	37	58.8					
RD7	T	43.1	39.1	0.11	0.01	30	N			CONUS	2.1	37	58.8					
RD8	T	43.1	39.1	0.11	0.01	30	N			CONUS	2.1	37	58.8					
RD9	T	43.1	39.1	0.11	0.01	30	N			CONUS	2.1	37	58.8					

RD10	T	43.1	39.1	0.11	0.01	30	N		CONUS	2.1	37	58.8					
RD11	T	43.1	39.1	0.11	0.01	30	N		CONUS	2.1	37	58.8					
RD12	T	43.1	39.1	0.11	0.01	30	N		CONUS	2.1	37	58.8					
RD13	T	43.1	39.1	0.11	0.01	30	N		CONUS	2.1	37	58.8					
RD14	T	43.1	39.1	0.11	0.01	30	N		CONUS	2.1	37	58.8					
RD15	T	43.1	39.1	0.11	0.01	30	N		CONUS	2.1	37	58.8					
RD16	T	43.1	39.1	0.11	0.01	30	N		CONUS	2.1	37	58.8					
RD17	T	43.1	39.1	0.11	0.01	30	N		CONUS	2.1	37	58.8					
CON	T	36	26	0.11	0.01	30	N		CONUS	2.5	292.4	60.66					
CON	T	36	26	0.11	0.01	30	N		CONUS	2.5	292.4	60.66					
OMN	T	0	-4	0.11	0.01	30	N	0	CONUS	3.6	16.2	12.1					
TLML	T	28	25	0.11	0.01	30	N		CONUS	2.8	0.166	20.2					
OMN	R	0	-4	0.11	0.01	30	N	0	CONUS				1000	-30			
OMN	T	0	-4	0.11	0.01	30	N	90	CONUS	3.6	16.2	12.1					
OMN	R	0	-4	0.11	0.01	30	N	90	CONUS				1000	-30			

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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
CON	T	C	-95		CONL.gxt	-118	-118	-118	-118	-118
CON	T	C	-95		CONR.gxt	-118	-118	-118	-118	-118
TLML	T	C	-95		TLML.gxt	-134.4	-134.4	-134.4	-134.4	-134.4

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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)
U1	85000	R	29872.5	R	C
D1	85000	T	18522.5	L	C
U2	10500	R	29795	L	C
D2	10500	T	18445	L	C
U3	10500	R	29774	L	C
D3	10500	T	18424	L	C
U4	10500	R	29754	L	C
D4	10500	T	18404	L	C
U5	10500	R	29733	L	C
D5	10500	T	18383	L	C
U6	60000	R	29655	R	C
D6A	60000	T	18770	L	C
D6B	60000	T	18716	R	C
D6C	60000	T	18662	L	C
D6D	60000	T	18608	R	C
U7	292000	R	29406	R	C
D7	292000	T	19851	L	C
U8	46250	R	28398.125	R	C
U9	46250	R	28444.375	R	C
U10	46250	R	28490.625	R	C
U11	46250	R	28536.875	R	C
D8A	46250	T	20028.125	L	C
D9A	46250	T	20074.375	R	C
D10A	46250	T	20120.625	L	C
D11A	46250	T	20166.875	R	C
D8B	46250	T	20028.125	R	C
D9B	46250	T	20074.375	L	C
D10B	46250	T	20120.625	R	C
D11B	46250	T	20166.875	L	C
C1	500	R	5926.5	H	T

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
SR1	90.9	U1	SPU1	D1	SPD1
SR2	90.9	U1	SPU2	D1	SPD2
SR3	93	U1	SPU3	D1	SPD3
SR4	93	U1	SPU4	D1	SPD4
SR5	93	U1	SPU5	D1	SPD5
SR6	93.9	U1	SPU6	D1	SPD6
SR7	88.9	U1	SPU7	D1	SPD7
SR8	93.3	U1	SPU8	D1	SPD8
SR9	90.9	U1	SPU9	D1	SPD9
SR10	93	U1	SPU10	D1	SPD10
SR11	93	U1	SPU11	D1	SPD11
SR12	93.9	U1	SPU12	D1	SPD12
SR13	90.9	U1	SPU13	D1	SPD13
SR14	90.9	U1	SPU14	D1	SPD14
SR15	94.9	U1	SPU15	D1	SPD15
SR16	94.9	U1	SPU16	D1	SPD16
SR17	94.9	U1	SPU17	D1	SPD17
SR18	94.9	U1	SPU18	D1	SPD18
SR19	94.9	U1	SPU19	D1	SPD19
SR20	93	U1	SPU20	D1	SPD20
SR21	93	U1	SPU21	D1	SPD21
RR1	90.9	U2	RU1	D2	SPD1
RR2	90.9	U3	RU2	D3	SPD2
RR3	93	U2	RU3	D2	SPD3
RR4	93	U3	RU4	D3	SPD4
RR5	93	U2	RU5	D2	SPD5
RR6	93.9	U3	RU6	D3	SPD6
RR7	88.9	U4	RU7	D4	SPD7
RR8	93.3	U5	RU8	D5	SPD8
RR9	90.9	U4	RU9	D4	SPD9

C2	500	R	6424.5	V	T
C3	500	R	29999.5	R	T
T1	500	T	3701	H	T
T2	500	T	4199	V	T
T3	500	T	20198	L	T

RR10	93	U5		RU10	D5	SPD10
RR11	93	U4		RU11	D4	SPD11
RR12	93.9	U5		RU12	D5	SPD12
RR13	90.9	U3		RU13	D3	SPD13
RR14	90.9	U2		RU14	D2	SPD14
RR15	94.9	U3		RU15	D3	SPD15
RR16	94.9	U2		RU16	D2	SPD16
RR17	94.9	U3		RU17	D3	SPD17
RF1	111.7	U6		SPU1	D6A	RD1
RF2	111.7	U6		SPU2	D6B	RD2
RF3	111.7	U6		SPU3	D6A	RD3
RF4	111.7	U6		SPU4	D6B	RD4
RF5	111.7	U6		SPU5	D6A	RD5
RF6	111.7	U6		SPU6	D6B	RD6
RF7	111.7	U6		SPU7	D6C	RD7
RF8	111.7	U6		SPU8	D6D	RD8
RF9	111.7	U6		SPU9	D6C	RD9
RF10	111.7	U6		SPU10	D6D	RD10
RF11	111.7	U6		SPU11	D6C	RD11
RF12	111.7	U6		SPU12	D6D	RD12
RF13	111.7	U6		SPU13	D6B	RD13
RF14	111.7	U6		SPU14	D6A	RD14
RF15	111.7	U6		SPU15	D6B	RD15
RF16	111.7	U6		SPU16	D6A	RD16
RF17	111.7	U6		SPU17	D6B	RD17
SF1	90.7	U7		SPU1	D7	SPD1
SF2	90.7	U7		SPU2	D7	SPD2
SF3	92.8	U7		SPU3	D7	SPD3
SF4	92.8	U7		SPU4	D7	SPD4
SF5	92.8	U7		SPU5	D7	SPD5
SF6	93.7	U7		SPU6	D7	SPD6
SF7	88.7	U7		SPU7	D7	SPD7
SF8	93.1	U7		SPU8	D7	SPD8
SF9	90.7	U7		SPU9	D7	SPD9
SF10	92.8	U7		SPU10	D7	SPD10
SF11	92.8	U7		SPU11	D7	SPD11
SF12	93.7	U7		SPU12	D7	SPD12
SF13	90.7	U7		SPU13	D7	SPD13
SF14	90.7	U7		SPU14	D7	SPD14

SF15	94.7	U7	SPU15	D7	SPD15
SF16	94.7	U7	SPU16	D7	SPD16
SF17	94.7	U7	SPU17	D7	SPD17
SF18	94.7	U7	SPU18	D7	SPD18
SF19	94.7	U7	SPU19	D7	SPD19
SF20	92.8	U7	SPU20	D7	SPD20
SF21	92.8	U7	SPU21	D7	SPD21
CF1	121.8	U8	SPU7	D8A	CONL
CF2	121.8	U9	SPU8	D9A	CONR
CF3	121.8	U10	SPU9	D10A	CONL
CF4	121.8	U11	SPU10	D11A	CONR
CF5	121.8	U8	SPU13	D8B	CONR
CF6	121.8	U9	SPU14	D9B	CONL
CF7	121.8	U10	SPU15	D10B	CONR
CF8	121.8	U11	SPU21	D11B	CONL
C1		C1	OMNRH		
C2		C2	OMNRV		
C3		C3	SPU17		
T1				T1	OMNTH
T2				T2	OMNTV
T3				T3	TLML

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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	2M70G7W	2700	4	2149	0.691		5.1	17.3
D2	248KG7W	248	4	197	0.691		5.1	17.3
D3	60M0G7W	60000	4	47748	0.691		5.1	17.3
D4	36M5G7W	36500	4	29022	0.691		5.1	17.3
D5	46M3G7W	46250	4	36805	0.691		5.1	17.3

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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 ² /Hz)	(o) Assoc. Stn Rec. G/T (dB/K)
						(j) Min.	(k) Max.		(l) Min.	(m) Max.				
SR1	SR21	D1		31	2741.935	SR LB.doc		44.3	1	5	28.8	38.8	-127.6	37.7
RR1	RR17	D2		42	256	RR LB.doc		44.3	-6.5	-2.5	19.6	29.6	-126.5	37.7
RF1	RF17	D3		1		RF LB.doc		62.9	4.4	8.4	54.8	58.8	-121	19.1
SF1	SF21	D4		8	36500	SF LB.doc		62.9	2	6	49.6	59.6	-118	19.5
CF1	CF8	D5		1		CF LB.doc		62.9	2	6	50.7	60.7	-118	19.6
C1	C2		A1	1		C1 LB.doc		53	20.3	25.3				
C3	C3		A2	1		Ka CMD LB.do		62.9	-20	-9				
T1	T2		A3	1		T1 LB.doc					8.1	12.1	-166	24.5
T3	T3		A4	1		Ka TLM LB.doc					17.2	20.2	-134	37.7

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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

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S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S15a. Mass of spacecraft without fuel (kg): 2769	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 3454		
S15c. Mass of spacecraft and fuel at launch (kg): 6223	S15f. Length (m): 35	S15i. Payload: 0.9
S15d. Mass of fuel, in orbit, at beginning of life (kg): 880	S15g. Width (m): 3	S15j. Bus: 0.89
S15e. Deployed Area of Solar Array (square meters): 82.5	S15h. Height (m): 3.6	S15k. Total: 0.8

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): 12563	(f): 12563	(k): 12563	(p): 12563
Bus (Watts):	(b): 2651	(g): 1409	(l): 2651	(q): 1409
Total (Watts):	(c): 15214	(h): 13972	(m): 15214	(r): 13972
Solar Array (Watts):	(d): 19200	(i): 16205	(n): 17112	(s): 14681
Depth of Battery Discharge (%):	(e) 76.8 %	(j) 76.8 %	(o) 76.8 %	(t) 76.8 %

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.