

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: SKYTERRA-1		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): 12 Years		j. Number of transponders offered on a common carrier basis: 0	
c. Construction Completion Date:		g. Total Number of Transponders: 131		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) 9836 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> </u> Degrees <u> </u> E/W	
d. Toward West:	0.05 Degrees	e. Toward East:				g. Westernmost: h. Easternmost:	
e. Toward East:		0.05 Degrees					
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

RU16	R	46.1	42.1	0.11	0.01	30	N			CONUS				826	16.9	-81.6	15	1
RU18	R	46.1	42.1	0.11	0.01	30	N			CONUS				826	16.9	-81.6	15	1
RU20	R	46.1	42.1	0.11	0.01	30	N			CONUS				826	16.9	-81.6	15	1
RU22	R	46.1	42.1	0.11	0.01	30	N			CONUS				826	16.9	-81.6	15	1
RU24	R	46.1	42.1	0.11	0.01	30	N			CONUS				826	16.9	-81.6	15	1
RU26	R	46.1	42.1	0.11	0.01	30	N			CONUS				826	16.9	-81.6	15	1
RU27	R	46.1	42.1	0.11	0.01	30	N			CONUS				826	16.9	-81.6	15	1
RU29	R	46.1	42.1	0.11	0.01	30	N			CONUS				826	16.9	-81.6	15	1
RU31	R	46.1	42.1	0.11	0.01	30	N			CONUS				826	16.9	-81.6	15	1
SPD2	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	14.06	63.68					
SPD3	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	44.99	68.73					
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					
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	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	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					
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	22.49	65.72					
SPD2	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	22.49	65.72					
SPD2	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	36.55	67.83					
SPD3	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	56.23	69.7					
SPD3	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	56.23	69.7					
SPD3	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	22.49	65.72					
SPD4	T	52.2	48.2	0.03	0.01	30	N			CONUS	2.5	56.23	69.7					
RD1	T	46.1	42.1	0.11	0.01	30	N			CONUS	2.1	37	61.8					
RD3	T	46.1	42.1	0.11	0.01	30	N			CONUS	2.1	37	61.8					
RD5	T	46.1	42.1	0.11	0.01	30	N			CONUS	2.1	37	61.8					
RD7	T	46.1	42.1	0.11	0.01	30	N			CONUS	2.1	37	61.8					
RD9	T	46.1	42.1	0.11	0.01	30	N			CONUS	2.1	37	61.8					
RD10	T	46.1	42.1	0.11	0.01	30	N			CONUS	2.1	37	61.8					
RD12	T	46.1	42.1	0.11	0.01	30	N			CONUS	2.1	37	61.8					
RD14	T	46.1	42.1	0.11	0.01	30	N			CONUS	2.1	37	61.8					
RD16	T	46.1	42.1	0.11	0.01	30	N			CONUS	2.1	37	61.8					

RD18	T	46.1	42.1	0.11	0.01	30	N		CONUS	2.1	37	61.8					
RD20	T	46.1	42.1	0.11	0.01	30	N		CONUS	2.1	37	61.8					
RD22	T	46.1	42.1	0.11	0.01	30	N		CONUS	2.1	37	61.8					
RD24	T	46.1	42.1	0.11	0.01	30	N		CONUS	2.1	37	61.8					
RD26	T	46.1	42.1	0.11	0.01	30	N		CONUS	2.1	37	61.8					
RD27	T	46.1	42.1	0.11	0.01	30	N		CONUS	2.1	37	61.8					
RD29	T	46.1	42.1	0.11	0.01	30	N		CONUS	2.1	37	61.8					
RD31	T	46.1	42.1	0.11	0.01	30	N		CONUS	2.1	37	61.8					
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
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
D6	60000	T	18662	R	C
D7	60000	T	18770	R	C
U7	292000	R	29406	R	C
D8	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
D9	46250	T	20028.125	R	C
D10	46250	T	20074.375	L	C
D11	46250	T	20120.625	R	C
D12	46250	T	20166.875	L	C
C1	500	R	5926.5	H	T
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

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
SR1	88.9	U1	SPU2	D1	SPD2
SR2	93.9	U1	SPU3	D1	SPD3
SR3	93	U1	SPU5	D1	SPD5
SR4	93.9	U1	SPU6	D1	SPD6
SR5	94.9	U1	SPU10	D1	SPD10
SR6	94.9	U1	SPU11	D1	SPD11
SR7	93	U1	SPU13	D1	SPD13
SR8	93	U1	SPU14	D1	SPD14
SR9	90.9	U1	SPU16	D1	SPD16
SR10	90.9	U1	SPU18	D1	SPD18
SR11	94.9	U1	SPU19	D1	SPD19
SR12	93	U1	SPU21	D1	SPD21
SR13	90.9	U1	SPU22	D1	SPD22
SR14	94.9	U1	SPU23	D1	SPD23
SR15	90.9	U1	SPU25	D1	SPD25
SR16	93	U1	SPU27	D1	SPD27
SR17	94.9	U1	SPU31	D1	SPD31
SR18	94.9	U1	SPU34	D1	SPD34
SR19	90.9	U1	SPU35	D1	SPD35
SR20	90.9	U1	SPU36	D1	SPD36
SR21	94.9	U1	SPU41	D1	SPD41
RR1	88.9	U2	RU10	D2	SPD2
RR2	93.9	U2	RU18	D2	SPD3
RR3	93	U2	RU16	D2	SPD5
RR4	93.9	U2	RU9	D2	SPD6
RR5	94.9	U2	RU29	D2	SPD10
RR6	93	U2	RU5	D2	SPD13
RR7	93	U2	RU7	D2	SPD14
RR8	90.9	U2	RU3	D2	SPD16
RR9	90.9	U2	RU20	D2	SPD18

RR10	94.9	U2	RU31	D2	SPD19
RR11	93	U2	RU14	D2	SPD21
RR12	90.9	U2	RU1	D2	SPD22
RR13	90.9	U2	RU12	D2	SPD25
RR14	93	U2	RU22	D2	SPD27
RR15	94.9	U2	RU26	D2	SPD34
RR16	90.9	U2	RU27	D2	SPD35
RR17	94.9	U2	RU24	D2	SPD41
RR18	88.9	U3	RU10	D3	SPD2
RR19	93.9	U3	RU18	D3	SPD3
RR20	93	U3	RU16	D3	SPD5
RR21	93.9	U3	RU9	D3	SPD6
RR22	94.9	U3	RU29	D3	SPD10
RR23	93	U3	RU5	D3	SPD13
RR24	93	U3	RU7	D3	SPD14
RR25	90.9	U3	RU3	D3	SPD16
RR26	90.9	U3	RU20	D3	SPD18
RR27	94.9	U3	RU31	D3	SPD19
RR28	93	U3	RU14	D3	SPD21
RR29	90.9	U3	RU1	D3	SPD22
RR30	90.9	U3	RU12	D3	SPD25
RR31	93	U3	RU22	D3	SPD27
RR32	94.9	U3	RU26	D3	SPD34
RR33	90.9	U3	RU27	D3	SPD35
RR34	94.9	U3	RU24	D3	SPD41
RR35	88.9	U4	RU10	D4	SPD2
RR36	93.9	U4	RU18	D4	SPD3
RR37	93	U4	RU16	D4	SPD5
RR38	93.9	U4	RU9	D4	SPD6
RR39	94.9	U4	RU29	D4	SPD10
RR40	93	U4	RU5	D4	SPD13
RR41	93	U4	RU7	D4	SPD14
RR42	90.9	U4	RU3	D4	SPD16
RR43	90.9	U4	RU20	D4	SPD18
RR44	94.9	U4	RU31	D4	SPD19
RR45	93	U4	RU14	D4	SPD21
RR46	90.9	U4	RU1	D4	SPD22
RR47	90.9	U4	RU12	D4	SPD25
RR48	93	U4	RU22	D4	SPD27

RR49	94.9	U4	RU26	D4	SPD34
RR50	90.9	U4	RU27	D4	SPD35
RR51	94.9	U4	RU24	D4	SPD41
RR52	88.9	U5	RU10	D5	SPD2
RR53	93.9	U5	RU18	D5	SPD3
RR54	93	U5	RU16	D5	SPD5
RR55	93.9	U5	RU9	D5	SPD6
RR56	94.9	U5	RU29	D5	SPD10
RR57	93	U5	RU5	D5	SPD13
RR58	93	U5	RU7	D5	SPD14
RR59	90.9	U5	RU3	D5	SPD16
RR60	90.9	U5	RU20	D5	SPD18
RR61	94.9	U5	RU31	D5	SPD19
RR62	93	U5	RU14	D5	SPD21
RR63	90.9	U5	RU1	D5	SPD22
RR64	90.9	U5	RU12	D5	SPD25
RR65	93	U5	RU22	D5	SPD27
RR66	94.9	U5	RU26	D5	SPD34
RR67	90.9	U5	RU27	D5	SPD35
RR68	94.9	U5	RU24	D5	SPD41
RF1	111.7	U6	SPU2	D6	RD10
RF2	111.7	U6	SPU3	D6	RD18
RF3	111.7	U6	SPU5	D6	RD16
RF4	111.7	U6	SPU6	D7	RD9
RF5	111.7	U6	SPU10	D6	RD29
RF6	111.7	U6	SPU13	D7	RD5
RF7	111.7	U6	SPU14	D7	RD7
RF8	111.7	U6	SPU16	D7	RD3
RF9	111.7	U6	SPU18	D7	RD20
RF10	111.7	U6	SPU19	D6	RD31
RF11	111.7	U6	SPU21	D6	RD14
RF12	111.7	U6	SPU22	D7	RD1
RF13	111.7	U6	SPU25	D6	RD12
RF14	111.7	U6	SPU27	D7	RD22
RF15	111.7	U6	SPU34	D7	RD26
RF16	111.7	U6	SPU35	D6	RD27
RF17	111.7	U6	SPU41	D7	RD24
SF1	88.9	U7	SPU2	D8	SPD2
SF2	93.9	U7	SPU3	D8	SPD3

SF3	93	U7	SPU5	D8	SPD5
SF4	93.9	U7	SPU6	D8	SPD6
SF5	94.9	U7	SPU10	D8	SPD10
SF6	94.9	U7	SPU11	D8	SPD11
SF7	93	U7	SPU13	D8	SPD13
SF8	93	U7	SPU14	D8	SPD14
SF9	90.9	U7	SPU16	D8	SPD16
SF10	90.9	U7	SPU18	D8	SPD18
SF11	94.9	U7	SPU19	D8	SPD19
SF12	93	U7	SPU21	D8	SPD21
SF13	90.9	U7	SPU22	D8	SPD22
SF14	94.9	U7	SPU23	D8	SPD23
SF15	90.9	U7	SPU25	D8	SPD25
SF16	93	U7	SPU27	D8	SPD27
SF17	94.9	U7	SPU31	D8	SPD31
SF18	94.9	U7	SPU34	D8	SPD34
SF19	90.9	U7	SPU35	D8	SPD35
SF20	90.9	U7	SPU36	D8	SPD36
SF21	94.9	U7	SPU41	D8	SPD41
CF1	121.8	U8	SPU2	D9	CONR
CF2	121.8	U9	SPU16	D10	CONL
CF3	121.8	U10	SPU18	D11	CONR
CF4	121.8	U11	SPU35	D12	CONL
C1		C1	OMNRH		
C2		C2	OMNRV		
C3		C3	SPU2		
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) (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)
SR1	SR21	D1		31	2741.935	SR LB.doc		43.2	1	5	28.8	38.8	-127.6	37.7
RR1	RR68	D2		42	256	RR LB.doc		43.2	-6.5	-2.5	19.6	29.6	-126.5	37.7
RF1	RF17	D3		1		RF LB.doc		62.9	-1.1	8.4	57.8	61.8	-118	19.1
SF1	SF21	D4		8	36500	SF LB.doc		62.9	2	6	49.6	59.6	-118	19.1
CF1	CF4	D5		1		CF LB.doc		62.9	2	6	50.7	60.7	-118	19.1
C1	C2		A1	1		C1 LB.doc		53	20.3	25.3				
C3	C3		A3	1		Ka CMD LB.do		62.9	-20	-9				
T1	T2		A2	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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Characteristics and
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S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S15a. Mass of spacecraft without fuel (kg): 2499	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 3140		
S15c. Mass of spacecraft and fuel at launch (kg): 5639	S15f. Length (m): 24	S15i. Payload: 0.9
S15d. Mass of fuel, in orbit, at beginning of life (kg): 800	S15g. Width (m): 3	S15j. Bus: 0.89
S15e. Deployed Area of Solar Array (square meters): 60	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): 8403	(f): 8403	(k): 8403	(p): 8403
Bus (Watts):	(b): 2651	(g): 1409	(l): 2651	(q): 1409
Total (Watts):	(c): 11054	(h): 9812	(m): 11054	(r): 9812
Solar Array (Watts):	(d): 13951	(i): 11782	(n): 12434	(s): 10668
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.