

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: EHOSTAR-11		e. Estimated Date of Placement into Service: 12/15/2007		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date: 1/1/2005		f. Estimated Lifetime of Satellite(s): 15 Years		j. Number of transponders offered on a common carrier basis: 0	
c. Construction Completion Date: 5/30/2007		g. Total Number of Transponders: 32		k. Total Common Carrier Transponder Bandwidth: 0 MHz	
d1. Est Launch Date Begin: 10/1/2007	d2. Est Launch Date End: 11/15/2007	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 768 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)		
17300	M	17800	M	R	Feeder Link for Broadcasting Satellite Service in FSS
12200	M	12700	M	T	Broadcasting Satellite Service - Video

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 110 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: Consistent with Region 2 USA Plan and existing EchoStar license.	
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):		
d. Toward West:	0.05 Degrees		Degrees E/W		
e. Toward East:	0.05 Degrees		g. Westernmost:	110	W
		0.05 Degrees	h. Easternmost:	110	W
i. Reason for service are selection (Optional): Cluster range of Region 2 BSS Plan for the 110W nominal orbital slot is from 110.2W to 109.8W.					

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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		CONUS, Alaska, Hawaii, Puerto Rico
CHEYENNE	S		Area around Cheyenne, WY
GILBERT	S		Area around Gilbert, AZ
GLOBAL	S		Visible Earth

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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)														
TRH	T	35.7	22.5	0.12	0.2	30	N		CONUS+	4.3	112.2	56.2					
TLH	T	35.7	22.5	0.12	0.2	28.8	N		CONUS+	4.3	112.2	56.2					
TRS	T	35.7	22.9	0.12	0.2	30	N		CONUS+	3.4	204.2	58.8					
TLS	T	35.7	22.9	0.12	0.2	28.8	N		CONUS+	3.4	204.2	58.8					
OMN	R	3	-4	1	1	30	N		GLOBAL				10000	-37	-83		
OMN	T	3	-4	1	1	30	N		GLOBAL	3.6	15.1	14.8					
TCO	R	44.9	38	0.12	0.2	30	N		CHEYENN				32000	-3.1	-93		
TMO	T	35.7	29.7	0.12	0.2	28.8	N		CONUS+	10	0.014	17.2					
TCO	R	44.6	38	0.12	0.2	30	N		GILBERT				32000	-3.4	-93		
RR1	R	44.9	41.9	0.12	0.2	30	N		CHEYENN				5358	7.6	-100.4	21	1
RL1	R	44.9	41.9	0.12	0.2	30	N		CHEYENN				5358	7.6	-100.4	21	1
RR2	R	44.6	41.6	0.12	0.2	30	N		GILBERT				6124	6.7	-99.5	21	1
RL2	R	44.6	41.6	0.12	0.2	30	N		GILBERT				6124	6.7	-99.5	21	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
TRH	T	C	-110		TRH.gxt					
TLH	T	C	-110		TLH.gxt					
TRS	T	C	-110		TRS.gxt					
TLS	T	C	-110		TLS.gxt					
TCO	R	C	-110		TCOS1.gxt					
TCO	R	C	-110		TCOS2.gxt					
TMO	T	C	-110		TMOS.gxt					
RR1	R	C	-110		RR1.gxt					
RL1	R	C	-110		RL1.gxt					
RR2	R	C	-110		RR2.gxt					
RL2	R	C	-110		RL2.gxt					

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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)
R01	24000	R	17324	R	C
R03	24000	R	17353.16	R	C
R05	24000	R	17382.32	R	C
R07	24000	R	17411.48	R	C
R09	24000	R	17440.64	R	C
R11	24000	R	17469.8	R	C
R13	24000	R	17498.96	R	C
R15	24000	R	17528.12	R	C
R17	24000	R	17557.28	R	C
R19	24000	R	17586.44	R	C
R21	24000	R	17615.6	R	C
R23	24000	R	17644.76	R	C
R25	24000	R	17673.92	R	C
R27	24000	R	17703.08	R	C
R29	24000	R	17732.24	R	C
R31	24000	R	17761.4	R	C
R02	24000	R	17338.58	L	C
R04	24000	R	17367.74	L	C
R06	24000	R	17396.9	L	C
R08	24000	R	17426.06	L	C
R10	24000	R	17455.22	L	C
R12	24000	R	17484.38	L	C
R14	24000	R	17513.54	L	C
R16	24000	R	17542.7	L	C
R18	24000	R	17571.86	L	C
R20	24000	R	17601.02	L	C
R22	24000	R	17630.18	L	C
R24	24000	R	17659.34	L	C
R26	24000	R	17688.5	L	C
R28	24000	R	17717.66	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
H01	122.3	R01	RR1	T01	TRH
H03	122.3	R03	RR1	T03	TRH
H05	122.3	R05	RR1	T05	TRH
H07	122.3	R07	RR1	T07	TRH
H09	122.3	R09	RR1	T09	TRH
H11	122.3	R11	RR1	T11	TRH
H13	122.3	R13	RR1	T13	TRH
H15	122.3	R15	RR1	T15	TRH
H17	122.3	R17	RR1	T17	TRH
H19	122.3	R19	RR1	T19	TRH
H21	122.3	R21	RR1	T21	TRH
H23	122.3	R23	RR1	T23	TRH
H25	122.3	R25	RR1	T25	TRH
H27	122.3	R27	RR1	T27	TRH
H29	122.3	R29	RR1	T29	TRH
H31	122.3	R31	RR1	T31	TRH
H02	122.3	R02	RL1	T02	TLH
H04	122.3	R04	RL1	T04	TLH
H06	122.3	R06	RL1	T06	TLH
H08	122.3	R08	RL1	T08	TLH
H10	122.3	R10	RL1	T10	TLH
H12	122.3	R12	RL1	T12	TLH
H14	122.3	R14	RL1	T14	TLH
H16	122.3	R16	RL1	T16	TLH
H18	122.3	R18	RL1	T18	TLH
H20	122.3	R20	RL1	T20	TLH
H22	122.3	R22	RL1	T22	TLH
H24	122.3	R24	RL1	T24	TLH
H26	122.3	R26	RL1	T26	TLH
H28	122.3	R28	RL1	T28	TLH

R30	24000	R	17746.82	L	C
R32	24000	R	17775.98	L	C
T01	24000	T	12224	R	C
T03	24000	T	12253.16	R	C
T05	24000	T	12282.32	R	C
T07	24000	T	12311.48	R	C
T09	24000	T	12340.64	R	C
T11	24000	T	12369.8	R	C
T13	24000	T	12398.96	R	C
T15	24000	T	12428.12	R	C
T17	24000	T	12457.28	R	C
T19	24000	T	12486.44	R	C
T21	24000	T	12515.6	R	C
T23	24000	T	12544.76	R	C
T25	24000	T	12573.92	R	C
T27	24000	T	12603.08	R	C
T29	24000	T	12632.24	R	C
T31	24000	T	12661.4	R	C
T02	24000	T	12238.58	L	C
T04	24000	T	12267.74	L	C
T06	24000	T	12296.90	L	C
T08	24000	T	12326.06	L	C
T10	24000	T	12355.22	L	C
T12	24000	T	12384.38	L	C
T14	24000	T	12413.54	L	C
T16	24000	T	12442.7	L	C
T18	24000	T	12471.86	L	C
T20	24000	T	12501.02	L	C
T22	24000	T	12530.18	L	C
T24	24000	T	12559.34	L	C
T26	24000	T	12588.5	L	C
T28	24000	T	12617.66	L	C
T30	24000	T	12646.82	L	C
T32	24000	T	12675.98	L	C
CMD1	1000	R	17794	R	T
CMD2	1000	R	17797	R	T
TLM1	1000	T	12692	R	T
TLM2	1000	T	12693	R	T
TLM3	1000	T	12208	L	T

H30	122.3	R30	RL1	T30	TLH
H32	122.3	R32	RL1	T32	TLH
S01	124.9	R01	RR1	T01	TRS
S03	124.9	R03	RR1	T03	TRS
S05	124.9	R05	RR1	T05	TRS
S07	124.9	R07	RR1	T07	TRS
S09	124.9	R09	RR1	T09	TRS
S11	124.9	R11	RR1	T11	TRS
S13	124.9	R13	RR1	T13	TRS
S15	124.9	R15	RR1	T15	TRS
S17	124.9	R17	RR1	T17	TRS
S19	124.9	R19	RR1	T19	TRS
S21	124.9	R21	RR1	T21	TRS
S23	124.9	R23	RR1	T23	TRS
S25	124.9	R25	RR1	T25	TRS
S27	124.9	R27	RR1	T27	TRS
S29	124.9	R29	RR1	T29	TRS
S31	124.9	R31	RR1	T31	TRS
S02	124.9	R02	RL1	T02	TLS
S04	124.9	R04	RL1	T04	TLS
S06	124.9	R06	RL1	T06	TLS
S08	124.9	R08	RL1	T08	TLS
S10	124.9	R10	RL1	T10	TLS
S12	124.9	R12	RL1	T12	TLS
S14	124.9	R14	RL1	T14	TLS
S16	124.9	R16	RL1	T16	TLS
S18	124.9	R18	RL1	T18	TLS
S20	124.9	R20	RL1	T20	TLS
S22	124.9	R22	RL1	T22	TLS
S24	124.9	R24	RL1	T24	TLS
S26	124.9	R26	RL1	T26	TLS
S28	124.9	R28	RL1	T28	TLS
S30	124.9	R30	RL1	T30	TLS
S32	124.9	R32	RL1	T32	TLS
CMDA		CMD1	OMNR		
CMDB		CMD2	OMNR		
CMDC		CMD1	TCOS1		
CMDD		CMD1	TCOS2		
CMDE		CMD2	TCOS1		

CMDF		CMD2	TCOS2		
TLMA				TLM1	OMNT
TLMB				TLM2	OMNT
TLMC				TLM1	TMOS
TLMD				TLM2	TMOS
TLME				TLM3	TMOS
H33	121.7	R01	RR2	T01	TRH
H35	121.7	R03	RR2	T03	TRH
H37	121.7	R05	RR2	T05	TRH
H39	121.7	R07	RR2	T07	TRH
H41	121.7	R09	RR2	T09	TRH
H43	121.7	R11	RR2	T11	TRH
H45	121.7	R13	RR2	T13	TRH
H47	121.7	R15	RR2	T15	TRH
H49	121.7	R17	RR2	T17	TRH
H51	121.7	R19	RR2	T19	TRH
H53	121.7	R21	RR2	T21	TRH
H55	121.7	R23	RR2	T23	TRH
H57	121.7	R25	RR2	T25	TRH
H59	121.7	R27	RR2	T27	TRH
H61	121.7	R29	RR2	T29	TRH
H63	121.7	R31	RR2	T31	TRH
H34	121.7	R02	RL2	T02	TLH
H36	121.7	R04	RL2	T04	TLH
H38	121.7	R06	RL2	T06	TLH
H40	121.7	R08	RL2	T08	TLH
H42	121.7	R10	RL2	T10	TLH
H44	121.7	R12	RL2	T12	TLH
H46	121.7	R14	RL2	T14	TLH
H48	121.7	R16	RL2	T16	TLH
H50	121.7	R18	RL2	T18	TLH
H52	121.7	R20	RL2	T20	TLH
H54	121.7	R22	RL2	T22	TLH
H56	121.7	R24	RL2	T24	TLH
H58	121.7	R26	RL2	T26	TLH
H60	121.7	R28	RL2	T28	TLH
H62	121.7	R30	RL2	T30	TLH
H64	121.7	R32	RL2	T32	TLH
S33	124.3	R01	RR2	T01	TRS

S35	124.3	R03	RR2	T03	TRS
S37	124.3	R05	RR2	T05	TRS
S39	124.3	R07	RR2	T07	TRS
S41	124.3	R09	RR2	T09	TRS
S43	124.3	R11	RR2	T11	TRS
S45	124.3	R13	RR2	T13	TRS
S47	124.3	R15	RR2	T15	TRS
S49	124.3	R17	RR2	T17	TRS
S51	124.3	R19	RR2	T19	TRS
S53	124.3	R21	RR2	T21	TRS
S55	124.3	R23	RR2	T23	TRS
S57	124.3	R25	RR2	T25	TRS
S59	124.3	R27	RR2	T27	TRS
S61	124.3	R29	RR2	T29	TRS
S63	124.3	R31	RR2	T31	TRS
S34	124.3	R02	RL2	T02	TLS
S36	124.3	R04	RL2	T04	TLS
S38	124.3	R06	RL2	T06	TLS
S40	124.3	R08	RL2	T08	TLS
S42	124.3	R10	RL2	T10	TLS
S44	124.3	R12	RL2	T12	TLS
S46	124.3	R14	RL2	T14	TLS
S48	124.3	R16	RL2	T16	TLS
S50	124.3	R18	RL2	T18	TLS
S52	124.3	R20	RL2	T20	TLS
S54	124.3	R22	RL2	T22	TLS
S56	124.3	R24	RL2	T24	TLS
S58	124.3	R26	RL2	T26	TLS
S60	124.3	R28	RL2	T28	TLS
S62	124.3	R30	RL2	T30	TLS
S64	124.3	R32	RL2	T32	TLS

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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)
QPSK1	24M0G7W	24000	4	27647	0.6912	0	5.7	28
QPSK2	24M0G7W	24000	4	30719	0.768	0	6.6	28
8PSK1	25M8G7W	25800	8	41200	0.6389	0	7.5	28

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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						
CMD	1M00F2D	1000		1								10	22.2	
TLM	1M00G2D	1000		1								9	21.2	

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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 ² /Hz)
						(j) Min.	(k) Max.		(l) Min.	(m) Max.			
H01	H64	QPSK1		1		E-11 Link Budg		65.7	4.1	16.1	43	56.2	13.2
H01	H64	QPSK2		1		E-11 Link Budg		65.7	4.1	16.1	43	56.2	13.2
H01	H64	8PSK1		1		E-11 Link Budg		65.7	4.1	16.1	43	56.2	13.2
S01	S64	QPSK1		1		E-11 Link Budg		65.7	4.1	16.1	46	58.8	13.2
S01	S64	QPSK2		1		E-11 Link Budg		65.7	4.1	16.1	46	58.8	13.2
S01	S64	8PSK1		1		E-11 Link Budg		65.7	4.1	16.1	46	58.8	13.2
CMDA	CMDB		CMD	1		E-11 Link Budg		63.9	16.4	36.4			-37
CMDC	CMDF		CMD	1		E-11 Link Budg		63.9	2.9	8.9			-3
TLMA	TLMB		TLM	1		E-11 Link Budg					7.8	14.8	48
TLMC	TLME		TLM	1		E-11 Link Budg					11.2	17.2	48

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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: 530 Echostar Drive			
S14b. City: Cheyenne	S14c. County: Laramie	S14d. State/Country WY	S14e. Zip Code: 82007
S14f. Telephone Number: 307-633-5460		S14g. Call Sign of Control Station (if appropriate):	

Remote Control (TT C) Location(s):

S14a: Street Address: 801 North Dish Drive			
S14b. City: Gilbert	S14c. County: Maricopa	S14d. State/Country AZ	S14e. Zip Code: 85233
S14f. Telephone Number: 480-558-2778		S14g. Call Sign of Control Station (if appropriate):	

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

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Characteristics and
Certifications

S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S15a. Mass of spacecraft without fuel (kg): 2479	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 3146		
S15c. Mass of spacecraft and fuel at launch (kg): 5619	S15f. Length (m): 6.9	S15i. Payload: 0.8377
S15d. Mass of fuel, in orbit, at beginning of life (kg): 1030	S15g. Width (m): 8	S15j. Bus: 0.8635
S15e. Deployed Area of Solar Array (square meters): 92	S15h. Height (m): 32.5	S15k. Total: 0.7234

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): 14102	(f): 14102	(k): 14102	(p): 14102
Bus (Watts):	(b): 3461	(g): 1705	(l): 3461	(q): 1705
Total (Watts):	(c): 17563	(h): 15807	(m): 17563	(r): 15807
Solar Array (Watts):	(d): 19493	(i): 17522	(n): 18478	(s): 16610
Depth of Battery Discharge (%):	(e) 76.5 %	(j) 76.5 %	(o) 76.5 %	(t) 76.5 %

S17. CERTIFICATIONS:

a. Are the power flux density limits of § 25.208 met?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" 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.