

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

a. Space Station or Satellite Network Name: NSS-9		e. Estimated Date of Placement into Service: 11/15/2008		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date: 11/14/2006		f. Estimated Lifetime of Satellite(s): 15 Years		j. Number of transponders offered on a common carrier basis: 0	
c. Construction Completion Date: 8/31/2008		g. Total Number of Transponders: 28		k. Total Common Carrier Transponder Bandwidth: 0 MHz	
d1. Est Launch Date Begin: 10/1/2008	d2. Est Launch Date End: 10/30/2008	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 1594 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)		
3625	M	4200	M	T	Fixed Satellite Service
5850	M	6425	M	R	Fixed Satellite Service

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

a. Nominal Orbital Longitude (Degrees E/W): 177 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: New Skies already holds an FCC authorization to operate a satellite at this orbital location. This application seeks authorization for a replacement satellite in that same orbital location			
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:	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.
EH	S	Service Area EH.gxt	CAN, JAR, JON, KIR, MEX, OCE, PAQ, PLM, PTC, USA
WH	S	Service Area WH.gxt	-3dB contour
GLB	S	Service Area GLB.gxt	GLB

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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)														
EHL	R	27.1	23.1	0.12	0.39	30	N	0	EH				636	-0.9	-97	15	1
EHR	R	27.1	23.1	0.12	0.39	30	N	0	EH				636	-0.9	-97	15	1
EHL	T	26.8	22.8	0.12	0.39	30	N	0	EH	1.7	30	41.5					
EHR	T	26.8	22.8	0.12	0.39	30	N	0	EH	1.7	30	41.5					
WHL	R	26.4	23.4	0.12	0.39	30	N	0	WH				636	-1.6	-96	15	1
WHR	R	26.4	23.4	0.12	0.39	30	N	0	WH				636	-1.6	-96	15	1
WHL	T	25.9	22.9	0.12	0.39	30	N	0	WH	1.7	30	40.6					
WHR	T	25.9	22.9	0.12	0.39	30	N	0	WH	1.7	30	40.6					
GLLU	R	21	18	0.12	0.39	30	N	0	GLB				674	-7.3	-93	15	1
GLR	R	21	18	0.12	0.39	30	N	0	GLB				674	-7.3	-93	15	1
GLLD	T	20.6	17.6	0.12	0.39	30	N	0	GLB	1.7	30.8	35.5					
GLR	T	20.6	17.6	0.12	0.39	30	N	0	GLB	1.7	30.8	35.5					
CMD	R	13.3	12.3	0.12	0.39	30	N	0	GLB					-24.1			

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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
EHL	R	C	-177		EH Rx.gxt					
EHR	R	C	-177		EH Rx.gxt					
EHL	T	C	-177		EH Tx.gxt	-154.3	-154.2	-153.5	-153.4	-152.8
EHR	T	C	-177		EH Tx.gxt	-154.3	-154.2	-153.5	-153.4	-152.8
WHL	R	C	-177		WH Rx.gxt					
WHR	R	C	-177		WH Rx.gxt					
WHR	T	C	-177		WH Tx.gxt	-156.8	-156.2	-155.5	-154.9	-154.3
GLLU	R	C	-177		GLB Rx.gxt					
GLR	R	C	-177		GLB Rx.gxt					
GLLD	T	C	-177		GLB Tx.gxt	-157.3	-157.1	-156.8	-156.6	-156.3
GLR	T	C	-177		GLB Tx.gxt	-157.3	-157.1	-156.8	-156.6	-156.3
WHL	T	C	-177		WH Tx.gxt	-156.8	-156.2	-155.5	-154.9	-154.3
CMD	R	C	-177		Horn.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)
WR01D	72000	T	3665	R	C
WR02D	72000	T	3745	R	C
WR03D	72000	T	3825	R	C
WR04D	72000	T	3905	R	C
ER01D	72000	T	3665	R	C
ER02D	72000	T	3745	R	C
ER03D	72000	T	3825	R	C
ER04D	72000	T	3905	R	C
GR05D	36000	T	3975	R	C
GR06D	36000	T	4015	R	C
GR07D	36000	T	4055	R	C
GR08D	36000	T	4095	R	C
GR09D	36000	T	4135	R	C
GR10D	41000	T	4177.5	R	C
WL01D	72000	T	3665	L	C
WL02D	72000	T	3745	L	C
WL03D	72000	T	3825	L	C
WL04D	72000	T	3905	L	C
EL01D	72000	T	3665	L	C
EL02D	72000	T	3745	L	C
EL03D	72000	T	3825	L	C
EL04D	72000	T	3905	L	C
GL05D	36000	T	3975	L	C
GL06D	36000	T	4015	L	C
GL07D	36000	T	4055	L	C
GL08D	36000	T	4095	L	C
GL09D	36000	T	4135	L	C
GL10D	41000	T	4177.5	L	C
WL01U	72000	R	5890	L	C
WL02U	72000	R	5970	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
C01	123	EL01U	EHLU	EL01D	EHL D
C02	123	EL02U	EHLU	EL02D	EHL D
C03	123	EL03U	EHLU	ER03D	EHL D
C04	123	EL04U	EHLU	ER04D	EHL D
C05	123	EL01U	EHLU	ER01D	EHR D
C06	123	EL02U	EHLU	ER02D	EHR D
C07	123	EL03U	EHLU	ER03D	EHR D
C08	123	EL04U	EHLU	ER04D	EHR D
C09	123	ER01U	EHRU	EL01D	EHL D
C10	123	ER02U	EHRU	EL02D	EHL D
C11	123	ER03U	EHRU	EL03D	EHL D
C12	123	ER04U	EHRU	EL04D	EHL D
C13	123	ER01U	EHRU	ER01D	EHR D
C14	123	ER02U	EHRU	ER02D	EHR D
C15	123	ER03U	EHRU	ER03D	EHR D
C16	123	ER04U	EHRU	ER04D	EHR D
C17	123	EL01U	EHLU	WL01D	WHL D
C18	123	EL02U	EHLU	WL02D	WHL D
C19	123	EL03U	EHLU	WL03D	WHL D
C20	123	EL04U	EHLU	WL04D	WHL D
C21	123	EL01U	EHLU	WR01D	WHR D
C22	123	EL02U	EHLU	WR02D	WHR D
C23	123	EL03U	EHLU	WR03D	WHR D
C24	123	EL04U	EHLU	WR04D	WHR D
C25	123	ER01U	EHRU	WL01D	WHL D
C26	123	ER02U	EHRU	WL02D	WHL D
C27	123	ER03U	EHRU	WL03D	WHL D
C28	123	ER04U	EHRU	WL04D	WHL D
C29	123	ER01U	EHRU	WR01D	WHR D
C30	123	ER02U	EHRU	WR02D	WHR D

WL03U	72000	R	6050	L	C
WL04U	72000	R	6130	L	C
EL01U	72000	R	5890	L	C
EL02U	72000	R	5970	L	C
EL03U	72000	R	6050	L	C
EL04U	72000	R	6130	L	C
GL05U	36000	R	6200	L	C
GL06U	36000	R	6240	L	C
GL07U	36000	R	6280	L	C
GL08U	36000	R	6320	L	C
GL09U	36000	R	6360	L	C
GL10U	41000	R	6402.5	L	C
WR01U	72000	R	5890	R	C
WR02U	72000	R	5970	R	C
WR03U	72000	R	6050	R	C
WR04U	72000	R	6130	R	C
ER01U	72000	R	5890	R	C
ER02U	72000	R	5970	R	C
ER03U	72000	R	6050	R	C
ER04U	72000	R	6130	R	C
GR05U	36000	R	6200	R	C
GR06U	36000	R	6240	R	C
GR07U	36000	R	6280	R	C
GR08U	36000	R	6320	R	C
GR09U	36000	R	6360	R	C
GR10U	41000	R	6402.5	R	C
TM1	300	T	3951.5	R	T
TM2	300	T	3952	R	T
TM3	300	T	3952.5	R	T
CM1	800	R	6172.1	L	T
CM2	800	R	6173.7	L	T
CM3	800	R	6175.3	L	T
BCN	25	T	3944.75	L	T

C31	123	ER03U	EHRU	WR03D	WHRD
C32	123	ER04U	EHRU	WR04D	WHRD
C33	126	GR05U	GLRU	GL05D	GLLD
C34	126	GR06U	GLRU	GL06D	GLLD
C35	126	GR07U	GLRU	GL07D	GLLD
C36	126	GR08U	GLRU	GL08D	GLLD
C37	126	GR09U	GLRU	GL09D	GLLD
C38	126	GR10U	GLRU	GL10D	GLLD
C39	126	GL05U	GLLU	GR05D	GLRD
C40	126	GL06U	GLLU	GR06D	GLRD
C41	126	GL07U	GLLU	GR07D	GLRD
C42	126	GL08U	GLLU	GR08D	GLRD
C43	126	GL09U	GLLU	GR09D	GLRD
C44	126	GL10U	GLLU	GR10D	GLRD
C45	123	WL01U	WHLU	EL01D	EHL D
C46	123	WL02U	WHLU	EL02D	EHL D
C47	123	WL03U	WHLU	EL03D	EHL D
C48	123	WL04U	WHLU	EL04D	EHL D
C49	123	WL01U	WHLU	ER01D	EHRD
C50	123	WL02U	WHLU	ER02D	EHRD
C51	123	WL03U	WHLU	ER03D	EHRD
C52	123	WL04U	WHLU	ER04D	EHRD
C53	123	WR01U	WHRU	EL01D	EHL D
C54	123	WR02U	WHRU	EL02D	EHL D
C55	123	WR03U	WHRU	EL03D	EHL D
C56	123	WR04U	WHRU	EL04D	EHL D
C57	123	WR01U	WHRU	ER01D	EHRD
C58	123	WR02U	WHRU	ER02D	EHRD
C59	123	WR03U	WHRU	ER03D	EHRD
C60	123	WR04U	WHRU	ER04D	EHRD
C61	123	WL01U	WHLU	WL01D	WHLD
C62	123	WL02U	WHLU	WL02D	WHLD
C63	123	WL03U	WHLU	WL03D	WHLD
C64	123	WL04U	WHLU	WL04D	WHLD
C65	123	WL01U	WHLU	WR01D	WHRD
C66	123	WL02U	WHLU	WR02D	WHRD
C67	123	WL03U	WHLU	WR03D	WHRD
C68	123	WL04U	WHLU	WR04D	WHRD
C69	123	WR01U	WHRU	WL01D	WHLD

C70	123	WR02U	WHRU	WL02D	WHLD
C71	123	WR03U	WHRU	WL03D	WHLD
C72	123	WR04U	WHRU	WL04D	WHLD
C73	123	WR01U	WHRU	WR01D	WHRD
C74	123	WR02U	WHRU	WR02D	WHRD
C75	123	WR03U	WHRU	WR03D	WHRD
C76	123	WR04U	WHRU	WR04D	WHRD
TM01				TM1	GLRD
TM02				TM2	GLRD
TM03				TM3	GLRD
CM01		CM1	CMD		
CM02		CM2	CMD		
CM03		CM3	CMD		



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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	346KG7W	346	4	256	0.5		6	18.2
D2	461KG7W	461	4	512	0.75		9.3	21.5
D3	1M84G7W	1840	4	2048	0.75		9.3	21.5
D4	8M25G7W	8250	4	8448	0.692		6.9	19.1
D5	36M0G7W	36000	4	41470	0.692		6.9	19.1
D6	72M0G7W	72000	8	155000	0.816		12.7	24.9



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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/m2/Hz)	(o) Assoc. Stn Rec. G/T (dB/K)
C01	C16	D1		208	346	EH_EH_346KG		47.1	-1.8	2.2	10.3	14.3	-167.7	22.5
C01	C16	D2		110	654	EH_EH_416KG		51.2	-2.6	1.4	13.6	17.6	-165	24
C01	C16	D3		30	2400	EH_EH_1M84		53.1	-0.9	3.1	19.2	23.2	-165.8	24
C01	C16	D4		8	9000	EH_EH_8M25		47.1	10.5	14.5	24.6	28.6	-166.9	22.5
C01	C16	D6		1		EH_EH_72M0		56.3	20.7	24.7	37	41	-164	26.1
C01	C16		A1	2	36000	EH_EH_36M0F	2000	56.3	15.6	19.6	33.5	37.5	-151.9	24
C17	C32	D1		184	391	EH_WH_346K		47.1	-0.8	3.2	10.4	14.4	-167.3	22.5
C17	C32	D2		88	818	EH_WH_416K		51.2	-1.7	2.3	13.5	17.5	-164.8	24
C17	C32	D3		17	4235	EH_WH_1M84		53.1	1.6	5.6	20.7	24.7	-164	22.5
C17	C32	D4		6	12000	EH_WH_8M25		47.1	12	16	25.1	29.1	-166.1	22.5
C17	C32	D6		1		EH_WH_72M0		56.3	21.6	25.6	36	40	-164.7	26.1
C17	C32		A1	2	36000	EH_WH_36M0	2000	56.3	15.6	19.6	32.5	36.5	-152.6	24
C33	C44	D1		91	395	GL_GL_346KG		51.5	-4.1	-1.1	10.4	13.4	-168.3	24
C33	C44	D2		50	720	GL_GL_416KG		47.4	2.5	5.5	13	16	-166.7	27.1
C33	C44	D3		6	6000	GL_GL_1M84G		55.3	3.9	6.9	22.2	25.2	-163.5	22.5
C33	C44	D4		2	18000	GL_GL_8M25G		51.5	11.7	14.7	26.2	29.2	-166	22.5
C33	C44	D5		1		GL_GL_36M0G		56.7	18.7	21.7	32.5	35.5	-166.1	22.5
C33	C44		A1	1		GL_GL_36M0F	2000	56.7	18.7	21.7	32.5	35.5	-153.6	27.1
C45	C60	D1		208	346	WH_EH_346K		47.1	-3	1	10.3	14.3	-167.7	22.5
C45	C60	D2		111	649	WH_EH_416K		51.2	-1.9	2.1	13.5	17.5	-165.1	24
C45	C60	D3		30	2400	WH_EH_1M84		53.1	-0.1	3.9	19.2	23.2	-165.8	24
C45	C60	D4		8	9000	WH_EH_8M25		47.1	11.3	15.3	24.6	28.6	-166.9	22.5
C45	C60	D6		1		WH_EH_72M0		56.3	21.5	25.5	36.9	40.9	-164.1	26.1
C45	C60		A1	2	36000	WH_EH_36M0	2000	56.3	16.7	20.7	33.5	37.5	-151.9	24
C61	C76	D1		185	389	WH_WH_346K		47.1	-2	2	10.4	14.4	-167.3	22.5
C61	C76	D2		89	808	WH_WH_416K		51.2	-2.6	1.4	13.5	17.5	-164.8	24
C61	C76	D3		18	4000	WH_WH_1M84		53.1	1.9	5.9	20.3	24.3	-164.4	22.5
C61	C76	D4		6	12000	WH_WH_8M25		47.1	12.3	16.3	24.7	28.7	-166.5	22.5
C61	C76	D6		1		WH_WH_72M0		56.3	21.5	25.5	35.8	39.8	-164.9	26.1

C61	C76		A1	2	36000	WH_WH_36M0	2000	56.3	21.5	25.5	32.5	36.5	-152.6	24
TM01	TM03		TTC2	1		TELEMETRY_3					4	8	-172.9	31.7
CM01	CM03		TTC1	1		TELECOMMAN		53.4	21.6	25.6				

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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): #Error

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

S14a: Street Address: Newsat Networks			
S14b. City: Bayswater	S14c. County: WA	S14d. State/Country	S14e. Zip Code: 6053
S14f. Telephone Number: +61 894 21 466		S14g. Call Sign of Control Station (if appropriate):	

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

S14a: Street Address: Brewster SES Americom			
S14b. City: Brewster	S14c. County:	S14d. State/Country WA	S14e. Zip Code: 98812
S14f. Telephone Number: +1 509 689 1000		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): 1029.1	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 1249		
S15c. Mass of spacecraft and fuel at launch (kg): 2278.1	S15f. Length (m): 12.6	S15i. Payload: 0.84326
S15d. Mass of fuel, in orbit, at beginning of life (kg): 401.1	S15g. Width (m): 7.4	S15j. Bus: 0.83231
S15e. Deployed Area of Solar Array (square meters): 14.96	S15h. Height (m): 4.1	S15k. Total: 0.70186

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): 2262.8	(f): 2262.8	(k): 2274.9	(p): 2274.9
Bus (Watts):	(b): 628.5	(g): 354.4	(l): 642.1	(q): 366
Total (Watts):	(c): 2891.3	(h): 2617.2	(m): 2917	(r): 2640.9
Solar Array (Watts):	(d): 3657	(i): 3264	(n): 3465	(s): 3156
Depth of Battery Discharge (%):	(e) 50.6 %	(j) %	(o) 72.1 %	(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.**