

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

a. Space Station or Satellite Network Name: INTELSAT AMERICAS-5		e. Estimated Date of Placement into Service: 3/31/2008		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date: 4/1/1995		f. Estimated Lifetime of Satellite(s): 12 Years		j. Number of transponders offered on a common carrier basis: 0	
c. Construction Completion Date: 4/1/1997		g. Total Number of Transponders: 52		k. Total Common Carrier Transponder Bandwidth: 0 MHz	
d1. Est Launch Date Begin: 5/24/1997	d2. Est Launch Date End: 5/24/1997	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 1728 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
3700	M	4200	M	T	Fixed Satellite Service
14	G	14.5	G	R	Fixed Satellite Service
11.7	G	12.2	G	T	Fixed Satellite Service

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

a. Nominal Orbital Longitude (Degrees E/W): 76.7 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection:  Intelsat North America had an FCC authorization to operate a satellite at the orbital location 77W and had plans to deploy a satellite there. A co-location agreement recently concluded with respect to an existing satellite (Echostar) as well as the planned operation of Galaxy 4R at 76.85W requires Intelsat North America to locate its satellite at 76.7W instead of 77W	
Longitudinal Tolerance or E/W Station-Keeping:		f. Inclination Excursion or N/S Station-Keeping Tolerance:		Range of orbital arc in which adequate service can be provided (Optional):	
d. Toward West:	0.05 Degrees	0.05 Degrees		g. Westernmost: 129 W	
e. Toward East:	0.05 Degrees			h. Easternmost: 77 W	
i. Reason for service are selection (Optional): The Intelsat Americas-5 (IA-5) satellite can replace any of Intelsat's US licensed spacecraft located within this arc in case of catastrophic failure					

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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	Service area1.gxt	USA, CAN, DOM, HTI, MEX, VIR, PTR, CUB
2	S	Service area2-76_7W.g	Region 2

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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)		
		(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	
CTF	T	29.3	22.6	0.1	0.4	30	Y	0	1	2	12.6	40.3						
CRF	R	30.7	21.7	0.1	0.4	30	Y		0	1			646	2.6	-92	21	1	
KTF	T	32.3	25.2	0.1	0.4	30	N		0	1	1.5	70.8	50.8					
KRF	R	30.9	26.3	0.2	0.4	30	N		0	1				661	2.7	-96	21	1
O-R	R	2	0	0.1	0.4	20	N		0	2				500	-25			
O-T	T	2	0	0.1	0.4	20	N		0	2	7.6	3.5	7.4					

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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
CTF	T	C	-77		IA5_nactco.gxt	-159.4	-159.4	-159.4	-159.4	-159.4
CTF	T	X	-77		IA5_nactxp.gxt					
KTF	T	C	-77		IA5_naktco.gxt	-149.5	-149.5	-149.5	-149.5	-149.5
KTF	T	X	-77		IA5_naktxp.gxt					
CRF	R	C	-77		IA5_nacrco.gxt					
CRF	R	X	-77		IA5_nacrpx.gxt					
KRF	R	C	-77		IA5_nakrco.gxt					
KRF	R	X	-77		IA5_nakrpx.gxt					
O-R	R	C	-77		O.gxt					
O-T	T	C	-77		O-E.gxt	-172.1	-172.1	-172.1	-172.1	-172.1

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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)
CT1	36000	T	3720	V	C
CT2	36000	T	3740	H	C
CT3	36000	T	3760	V	C
CT4	36000	T	3780	H	C
CT5	36000	T	3800	V	C
CT6	36000	T	3820	H	C
CT7	36000	T	3840	V	C
CT8	36000	T	3860	H	C
CT9	36000	T	3880	V	C
CT10	36000	T	3900	H	C
CT11	36000	T	3920	V	C
CT12	36000	T	3940	H	C
CT13	36000	T	3960	V	C
CT14	36000	T	3980	H	C
CT15	36000	T	4000	V	C
CT16	36000	T	4020	H	C
CT17	36000	T	4040	V	C
CT18	36000	T	4060	H	C
CT19	36000	T	4080	V	C
CT20	36000	T	4100	H	C
CT21	36000	T	4120	V	C
CT22	36000	T	4140	H	C
CT23	36000	T	4160	V	C
CT24	36000	T	4180	H	C
KT1	54000	T	11728.5	V	C
KT2	54000	T	11735	H	C
KT3	54000	T	11789.5	V	C
KT4	54000	T	11796	H	C
KT5	27000	T	11836	V	C
KT6	27000	T	11842.5	H	C

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
C1	110.7	CR1	CRF	CT1	CTF
C2	110.7	CR2	CRF	CT2	CTF
C3	110.7	CR3	CRF	CT3	CTF
C4	110.7	CR4	CRF	CT4	CTF
C5	110.7	CR5	CRF	CT5	CTF
C6	110.7	CR6	CRF	CT6	CTF
C7	110.7	CR7	CRF	CT7	CTF
C8	110.7	CR8	CRF	CT8	CTF
C9	110.7	CR9	CRF	CT9	CTF
C10	110.7	CR10	CRF	CT10	CTF
C11	110.7	CR11	CRF	CT11	CTF
C12	110.7	CR12	CRF	CT12	CTF
C13	110.7	CR13	CRF	CT13	CTF
C14	110.7	CR14	CRF	CT14	CTF
C15	110.7	CR15	CRF	CT15	CTF
C16	110.7	CR16	CRF	CT16	CTF
C17	110.7	CR17	CRF	CT17	CTF
C18	110.7	CR18	CRF	CT18	CTF
C19	110.7	CR19	CRF	CT19	CTF
C20	110.7	CR20	CRF	CT20	CTF
C21	110.7	CR21	CRF	CT21	CTF
C22	110.7	CR22	CRF	CT22	CTF
C23	110.7	CR23	CRF	CT23	CTF
C24	110.7	CR24	CRF	CT24	CTF
K1	129.3	KR1	KRF	KT1	KTF
K2	129.3	KR2	KRF	KT2	KTF
K3	129.3	KR3	KRF	KT3	KTF
K4	129.3	KR4	KRF	KT4	KTF
K5	129.3	KR5	KRF	KT5	KTF
K6	129.3	KR6	KRF	KT6	KTF

KT7	27000	T	11867	V	C
KT8	27000	T	11873.5	H	C
KT9	27000	T	11898	V	C
KT10	27000	T	11904.5	H	C
KT11	27000	T	11929	V	C
KT12	27000	T	11935.5	H	C
KT13	27000	T	11960	V	C
KT14	27000	T	11966.5	H	C
KT15	27000	T	11991	V	C
KT16	27000	T	11997.5	H	C
KT17	27000	T	12022	V	C
KT18	27000	T	12028.5	H	C
KT19	27000	T	12053	V	C
KT20	27000	T	12059.5	H	C
KT21	27000	T	12084	V	C
KT22	27000	T	12090.5	H	C
KT23	27000	T	12115	V	C
KT24	27000	T	12121.5	H	C
KT25	27000	T	12146	V	C
KT26	27000	T	12152.5	H	C
KT27	27000	T	12177	V	C
KT28	27000	T	12183.5	H	C
TLC1	1000	R	5925.5	V	T
TLC2	1000	R	6424.5	H	T
TLM1	100	T	4198	V	T
TLM2	100	T	4198.5	V	T
TLM3	100	T	4199	V	T
TLM4	100	T	4199.5	V	T
TLM5	100	T	11702	H	T
TLM6	100	T	12198	V	T
CR1	36000	R	5945	H	C
CR2	36000	R	5965	V	C
CR3	36000	R	5985	H	C
CR4	36000	R	6005	V	C
CR5	36000	R	6025	H	C
CR6	36000	R	6045	V	C
CR7	36000	R	6065	H	C
CR8	36000	R	6085	V	C
CR9	36000	R	6105	H	C

K7	129.3	KR7	KRF	KT7	KTF
K8	129.3	KR8	KRF	KT8	KTF
K9	129.3	KR9	KRF	KT9	KTF
K10	129.3	KR10	KRF	KT10	KTF
K11	129.3	KR11	KRF	KT11	KTF
K12	129.3	KR12	KRF	KT12	KTF
K13	129.3	KR13	KRF	KT13	KTF
K14	129.3	KR14	KRF	KT14	KTF
K15	129.3	KR15	KRF	KT15	KTF
K16	129.3	KR16	KRF	KT16	KTF
K17	129.3	KR17	KRF	KT17	KTF
K18	129.3	KR18	KRF	KT18	KTF
K19	129.3	KR19	KRF	KT19	KTF
K20	129.3	KR20	KRF	KT20	KTF
K21	129.3	KR21	KRF	KT21	KTF
K22	129.3	KR22	KRF	KT22	KTF
K23	129.3	KR23	KRF	KT23	KTF
K24	129.3	KR24	KRF	KT23	KTF
K25	129.3	KR25	KRF	KT24	KTF
K26	129.3	KR26	KRF	KT26	KTF
K27	129.3	KR27	KRF	KT27	KTF
K28	129.3	KR28	KRF	KT28	KTF

CR10	36000	R	6125	V	C
CR11	36000	R	6145	H	C
CR12	36000	R	6165	V	C
CR13	36000	R	6185	H	C
CR14	36000	R	6205	V	C
CR15	36000	R	6225	H	C
CR16	36000	R	6245	V	C
CR17	36000	R	6265	H	C
CR18	36000	R	6285	V	C
CR19	36000	R	6305	H	C
CR20	36000	R	6325	V	C
CR21	36000	R	6345	H	C
CR22	36000	R	6365	V	C
CR23	36000	R	6385	H	C
CR24	36000	R	6405	V	C
KR1	54000	R	14028.5	H	C
KR2	54000	R	14035	V	C
KR3	54000	R	14089.5	H	C
KR4	54000	R	14096	V	C
KR5	27000	R	14136	H	C
KR6	27000	R	14142.5	V	C
KR7	27000	R	14167	H	C
KR8	27000	R	14173.5	V	C
KR9	27000	R	14198	H	C
KR10	27000	R	14204.5	V	C
KR11	27000	R	14229	H	C
KR12	27000	R	14235.5	V	C
KR13	27000	R	14260	H	C
KR14	27000	R	14266.5	V	C
KR15	27000	R	14291	H	C
KR16	27000	R	14297.5	V	C
KR17	27000	R	14322	H	C
KR18	27000	R	14328.5	V	C
KR19	27000	R	14353	H	C
KR20	27000	R	14359.5	V	C
KR21	27000	R	14384	H	C
KR22	27000	R	14390.5	V	C
KR23	27000	R	14415	H	C
KR24	27000	R	14421.5	V	C



KR25	27000	R	14446	H	C
KR26	27000	R	14452.5	V	C
KR27	27000	R	14477	H	C
KR28	27000	R	14483.5	V	C

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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)
1	47K1G1W	47.1	8	64	0.6667		14.5	22.7
2	188KG1W	188.2	8	256	0.6667		14.5	26.7
3	753KG1W	752.9	8	1024	0.6667		14.5	26.7
4	1M13G7W	1135.3	8	1544	0.6667		14.5	26.7
5	4M64G7W	4641.2	8	6312	0.6667		14.5	26.7
6	6M21G7W	6211.8	8	8448	0.6667		14.5	26.7
7	23M6G7W	23576.5	8	32064	0.6667		14.5	26.7
8	25M3G7W	25270.6	8	34368	0.6667		14.5	26.7
9	94K1G1W	94.1	4	64	0.5		7.8	20
10	753KG1W	752.9	4	512	0.5		7.8	20
11	2M27G7W	2270.6	4	1544	0.5		7.8	20
12	3M65G7W	3652.9	4	2484	0.5		7.8	20
13	9M28G7W	9282.4	4	6312	0.5		7.8	20
14	12M4G7W	12423.5	4	8448	0.5		7.8	20



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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 <sup>2</sup> /Hz)	(o) Assoc. Stn Rec. G/T (dB/K)
C1	C24		1	1		Link_budget_T	2000	57.8	21.6	26.5	38.1	40.3	-149.2	31
C1	C24		2	2	18000	Link_budget_T	2000	57.8	22.6	26.5	32.6	34.8	-154.7	31
C1	C24	1		307	47.1	Link_budget_C		46.8	-2.3	6.7	5.7	12.4	-159.5	26.6
C1	C24	2		77	188.2	Link_budget_C		46.8	3.7	12.7	11.7	18.4	-159.5	26.6
C1	C24	3		19	752.9	Link_budget_C		46.8	9.7	18.7	17.7	24.4	-159.5	26.6
C1	C24	4		13	1135.3	Link_budget_C		46.8	11.5	20.5	19.5	26.2	-159.5	26.6
C1	C24	5		3	4641.2	Link_budget_C		46.8	17.6	26.6	25.6	32.3	-159.5	26.6
C1	C24	6		2	6211.8	Link_budget_C		46.8	18.9	27.9	26.9	33.6	-159.5	26.6
C1	C24	7		1		Link_budget_C		46.8	24.7	33.7	32.7	39.4	-159.5	26.6
C1	C24	8		1		Link_budget_C		46.8	25	34	33	39.7	-159.5	26.6
C1	C24	9		153	94.1	Link_budget_C		46.8	-6	3.2	8.8	15.5	-159.4	24.1
C1	C24	10		19	752.9	Link_budget_C		46.8	3	12.2	17.8	24.5	-159.4	24.1
C1	C24	11		6	2270.6	Link_budget_C		46.8	7.8	17	22.6	29.3	-159.4	24.1
C1	C24	12		4	3652.9	Link_budget_C		46.8	9.9	19.1	24.7	31.4	-159.4	24.1
C1	C24	13		2	9282.4	Link_budget_C		46.8	13.9	23.1	28.7	35.4	-159.4	24.1
C1	C24	14		1	12423.5	Link_budget_C		46.8	15.2	24.4	30	36.7	-159.4	24.1
K1	K28	1		764	47.1	Link_budget_K		52.7	-12.1	-4.6	8.4	15.5	-156.4	30.9
K1	K28	2		191	188.2	Link_budget_K		52.7	-6.1	1.4	14.4	21.5	-156.4	30.9
K1	K28	3		48	752.9	Link_budget_K		52.7	-0.1	7.4	20.4	27.5	-156.4	30.9
K1	K28	4		32	1135.3	Link_budget_K		52.7	1.7	9.2	22.2	29.3	-156.4	30.9
K1	K28	5		8	4641.2	Link_budget_K		52.7	7.8	15.3	28.3	35.4	-156.4	30.9
K1	K28	6		6	6211.8	Link_budget_K		52.7	9.1	16.6	29.6	36.7	-156.4	30.9
K1	K28	7		2		Link_budget_K		52.7	14.9	22.4	35.4	42.5	-156.4	30.9
K1	K28	8		1		Link_budget_K		52.7	15.2	22.7	35.7	42.8	-156.4	30.9
K1	K28	9		382	94.1	Link_budget_K		52.7	-15.5	-1.6	11.4	18.5	-156.4	20.9
K1	K28	10		48	752.9	Link_budget_K		52.7	-6.5	7.4	20.4	27.5	-156.4	20.9
K1	K28	11		16	2270.6	Link_budget_K		52.7	-1.7	12.2	25.2	32.3	-156.4	20.9
K1	K28	12		10	3652.9	Link_budget_K		52.7	0.4	14.3	27.3	34.4	-156.4	20.9
K1	K28	13		4		Link_budget_K		52.7	4.4	18.3	31.3	38.4	-156.4	20.9

K1	K28	14		3	Link_budget_K		52.7	5.7	19.6	32.6	39.7	-156.4	20.9
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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: 22401 Juniper lats Road			
S14b. City: Nuevo	S14c. County: Riverside	S14d. State/Country CA	S14e. Zip Code: 92567
S14f. Telephone Number: 909-928-3446		S14g. Call Sign of Control Station (if appropriate): E040125	

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

S14a: Street Address: 22021 COMSAT Drive			
S14b. City: Clarksburg	S14c. County: Montgomery	S14d. State/Country MD	S14e. Zip Code: 20871
S14f. Telephone Number: 301-428-1501		S14g. Call Sign of Control Station (if appropriate): KA275	

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

**S15. SPACECRAFT PHYSICAL CHARACTERISTICS:**

S15a. Mass of spacecraft without fuel (kg): 1469	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 2191		
S15c. Mass of spacecraft and fuel at launch (kg): 3660	S15f. Length (m): 31.1	S15i. Payload: 0.8773
S15d. Mass of fuel, in orbit, at beginning of life (kg): 942	S15g. Width (m): 8.64	S15j. Bus: 0.8492
S15e. Deployed Area of Solar Array (square meters): 59.61	S15h. Height (m): 5.79	S15k. Total: 0.745

**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): 6303	(f): 6303	(k): 6303	(p): 6303
Bus (Watts):	(b): 1588	(g): 798	(l): 1588	(q): 798
Total (Watts):	(c): 7891	(h): 7101	(m): 7891	(r): 7101
Solar Array (Watts):	(d): 9906	(i): 8858	(n): 8212	(s): 7501
Depth of Battery Discharge (%):	(e) %	(j) %	(o) %	(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 checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input 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.**