Approved by OMD Control Number 3060-0678
Estimated Burden Hours: 80

FCC 312 Schedule S	FEDERAL COMMUNICATIONS COMMISSION SATELLITE SPACE STATION AUTHORIZATIONS (Technical and Operational Description)	Page 1: General, Frequency Bands, and GSO Orbit

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name:		e. Estimated Date of Placement into Service:	i Will the space station(s) operate on a Common Carrier Basis:
INTELSAT-904			N
b. Construction Commencement Date:		f. Estimated Lifetime of Satellite(s):	j. Number of transponders offered on a common carrier basis:
		10 Years	0
c. Construction Completion Date:		g. Total Number of Transponders:	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)	l. Orbit Type: Mark all boxes that apply:
		MHz	[X] GSO [ ] 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	3700	M	T	Fixed Satellite Service
3700	M	4200	M	T	Fixed Satellite Service
5850	M	5925	M	R	Fixed Satellite Service
5925	M	6425	M	R	Fixed Satellite Service
10.95	G	11.2	G	T	Fixed Satellite Service
11.45	G	11.7	G	T	Fixed Satellite Service
14.0	G	14.5	G	R	Fixed Satellite Service

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W):	b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection:
45.1 E			
Longitudinal Tolerance or E/W Station-Keeping: d. Toward West: 0.05 Degrees e. Toward East: 0.05 Degrees	f. Inclination Excursion or N/S Station-Keeping Tolerance: 0.05 Degrees	Range of orbital are in which adequate service can be provided (Optional): Degrees E/W 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:

S4b. Total Number of Orbital Planes in Network or System:

S4c. Celestial Reference Body (Earth, Sun, Moon, etc.):

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 intital 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.
2	S		Central Europe
1	S		Sri Lanka
3	S		Africa and Europe
4	S		India, Thailand, China
5	S		Western Europe
6	S		Southern Africa
7	S		Middle East
8	S		Malaysia
9	S		India, Thailand, Sumatra
10	S		Malaysia, India, Thailand, Sumatra
11	S		Global

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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 Isolation (dB)	(h) Polarization Switchable? (Y/N)	(i) Polarization Alignment Rel. Equatorial Plane (Degrees)	(j) Service Area ID	Transmit			Receive				
		(c) Peak (dBi)	(d) Edge (dBi)							(k) Input Losses (dB)	(l) Effective Output Power (W)	(m) Max. EIRP (dBW)	(n) System Noice Temp (k)	(o) G/T Max. Gain Pt. (db/K)	(p) Min. Saturation Flux Density (dBW/m2)	Input Attenuator (dB)	
																(q) Max. Value	(r) Step Size
SWL	T	1		0.19	0.34	1	N		6			42.2					
MEL	T	1		0.19	0.34	1	N		7			43.8					
SELD	T	1		0.19	0.34	1	N		8			43.6					
NELD	T	1		0.19	0.34	1	N		9			47.7					
CELD	T	1		0.19	0.34	1	N		10			44.8					
S1HU	R	1		0.19	0.34	1	N	0	1					8.7	-92	1	1
S2VU	R	1		0.19	0.34	1	N	90	2					8.7	-92.6	1	1
S1VD	T	1		0.19	0.34	1	N	90	1			53.1					
S2HD	T	1		0.19	0.34	1	N	0	2			53.8					
CMD	R	1		0.19	0.34	1	N		11						-90	1	1
CMD	R	1		0.19	0.34	1	N		11						-90	1	1
TLM	T	1		0.19	0.34	1	N		11			8					
TLMB	T	1		0.19	0.34	1	N		11			8					
UPK	T	1		0.19	0.34	1	N	90	11			11					
UPC	T	1		0.19	0.34	1	N		11			8					
CGR	R	1		0.19	0.34	1	N		11					-6.3	-91.5	1	1
CGL	R	1		0.19	0.34	1	N		11					-5.6	-92	1	1
WHL	R	1		0.19	0.34	1	N		3					-2.6	-92.4	1	1
EHLU	R	1		0.19	0.34	1	N		4					1.6	-93.4	1	1
NWR	R	1		0.19	0.34	1	N		5					5.4	-92	1	1
SWR	R	1		0.19	0.34	1	N		6					0.9	-92.7	1	1
MER	R	1		0.19	0.34	1	N		7					1.9	-92.8	1	1
SER	R	1		0.19	0.34	1	N		8					3.3	-92.8	1	1
NER	R	1		0.19	0.34	1	N		9					3.7	-93.2	1	1
CER	R	1		0.19	0.34	1	N		10					0.2	-92.7	1	1
CGL	T	1		0.19	0.34	1	N		11			35.7					
CGR	T	1		0.19	0.34	1	N		11			35.3					
WHR	T	1		0.19	0.34	1	N		3			41					
EHR	T	1		0.19	0.34	1	N		4			45.3					

NWL	T	1		0.19	0.34	1	N		5			41.6					

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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
CGR	R		-45.1							
CGL	R		-45.1							
WHL	R		-45.1							
EHLU	R		-45.1							
NWR	R		-45.1							
SWR	R		-45.1							
MER	R		-45.1							
SER	R		-45.1							
NER	R		-45.1							
CER	R		-45.1							
CGL	T		-45.1			-160.3	-160.1	-160	-159.9	-159.8
CGR	T		-45.1			-160.3	-160.1	-160	-159.9	-159.8
WHR	T		-45.1			-160.3	-160.1	-160	-159.9	-159.8
EHR	T		-45.1			-160.3	-160.1	-160	-159.9	-159.8
NWL	T		-45.1			-160.3	-160.1	-160	-159.9	-159.8
SWL	T		-45.1			-160.3	-160.1	-160	-159.9	-159.8
MEL	T		-45.1			-160.3	-160.1	-160	-159.9	-159.8
SELD	T		-45.1			-160.3	-160.1	-160	-159.9	-159.8
NELD	T		-45.1			-160.3	-160.1	-160	-159.9	-159.8
CELD	T		-45.1			-160.3	-160.1	-160	-159.9	-159.8
S1HU	R		-45.1							
S2VU	R		-45.1							
S1VD	T		-45.1			-149.7	-149.5	-149.4	-149.3	-149.2
S2HD	T		-45.1			-149.7	-149.5	-149.4	-149.3	-149.2
CMD	R		-45.1							
CMD	R		-45.1							
TLM	T		-45.1			-174	-173.9	-173.8	-173.7	-173.6
TLMB	T		-45.1			-174	-173.9	-173.8	-173.7	-173.6

UPK	T		-45.1			-160.2	-160.1	-160	-159.9	-159.8
UPC	T		-45.1			-163.2	-163.1	-163	-162.9	-162.8

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S9. SPACE STATION CHANNELS For each frequency channel 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)
CEU01	72000	R	5890	L	C
CEU02	72000	R	5970	L	C
CEU03	72000	R	6050	L	C
CEU04	72000	R	6130	L	C
CEU05	72000	R	6220	L	C
CEU06	36000	R	6280	L	C
CWU01	72000	R	5890	L	C
CWU02	72000	R	5970	L	C
CWU03	72000	R	6050	L	C
CWU04	72000	R	6130	L	C
CWU05	72000	R	6220	L	C
CWU06	36000	R	6280	L	C
CED01	72000	T	3665	R	C
CED02	72000	T	3745	R	C
CED03	72000	T	3825	R	C
CED04	72000	T	3905	R	C
CED05	72000	T	3995	R	C
CED06	36000	T	4055	R	C
CWD01	72000	T	3665	R	C
CWD02	72000	T	3745	R	C
CWD03	72000	T	3825	R	C
CWD04	72000	T	3905	R	C
CWD05	72000	T	3995	R	C
CWD06	36000	T	4055	R	C
CGU01	36000	R	6320	L	C
CGU02	36000	R	6360	L	C
CGU03	36000	R	6402.5	L	C
CGU04	36000	R	6320	R	C
CGU05	36000	R	6360	R	C
CGU06	36000	R	6402.5	R	C

S10. SPACE STATION TRANSPONDERS For each transponder provide:

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
TCH01	1	CEU01	EHLU	CED01	EHRD
TCH02	1	CEU02	EHLU	CED02	EHRD
TCH03	1	CEU03	EHLU	CED03	EHRD
TCH04	1	CEU04	EHLU	CED04	EHRD
TCH05	1	CEU05	EHLU	CED05	EHRD
TCH06	1	CEU06	EHLU	CED06	EHRD
TCH07	1	CWU01	WHLU	CWD01	WHRD
TCH08	1	CWU02	WHLU	CWD02	WHRD
TCH09	1	CWU03	WHLU	CWD03	WHRD
TCH10	1	CWU04	WHLU	CWD04	WHRD
TCH11	1	CWU05	WHLU	CWD05	WHRD
TCH12	1	CWU06	WHLU	CWD06	WHRD
TCZ01	1	C1U01	NWRU	C1D01	NWLD
TCZ02	1	C1U02	NWRU	C1D02	NWLD
TCZ03	1	C1U03	NWRU	C1D03	NWLD
TCZ04	1	C1U04	NWRU	C1D04	NWLD
TCZ05	1	C1U05	NWRU	C1D05	NWLD
TCZ06	1	C1U06	NWRU	C1D06	NWLD
TCZ07	1	C2U01	SWRU	C2D01	SWLD
TCZ08	1	C2U02	SWRU	C2D02	SWLD
TCZ09	1	C2U03	SWRU	C2D03	SWLD
TCZ10	1	C2U04	SWRU	C2D04	SWLD
TCZ11	1	C2U05	SWRU	C2D05	SWLD
TCZ12	1	C2U06	SWRU	C2D06	SWLD
TCZ13	1	C3U01	MERU	C3D01	MELD
TCZ14	1	C3U02	MERU	C3D02	MELD
TCZ15	1	C3U03	MERU	C3D03	MELD
TCZ16	1	C3U04	MERU	C3D04	MELD
TCZ17	1	C3U05	MERU	C3D05	MELD
TCZ18	1	C3U06	MERU	C3D06	MELD

CGD01	36000	T	4095	R	C
CGD02	36000	T	4135	R	C
CGD03	36000	T	4177.5	R	C
CGD04	36000	T	4095	L	C
CGD05	36000	T	4135	L	C
CGD06	36000	T	4177.5	L	C
C1U01	72000	R	5890	R	C
C1U02	72000	R	5970	R	C
C1U03	72000	R	6050	R	C
C1U04	72000	R	6130	R	C
C1U05	72000	R	6220	R	C
C1U06	36000	R	6280	R	C
C2U01	72000	R	5890	R	C
C2U02	72000	R	5970	R	C
C2U03	72000	R	6050	R	C
C2U04	72000	R	6130	R	C
C2U05	72000	R	6220	R	C
C2U06	36000	R	6280	R	C
C3U01	72000	R	5890	R	C
C3U02	72000	R	5970	R	C
C3U03	72000	R	6050	R	C
C3U04	72000	R	6130	R	C
C3U05	72000	R	6220	R	C
C3U06	36000	R	6280	R	C
C4U01	72000	R	5890	R	C
C4U02	72000	R	5970	R	C
C4U03	72000	R	6050	R	C
C4U04	72000	R	6130	R	C
C4U05	72000	R	6220	R	C
C4U06	36000	R	6280	R	C
C5U01	72000	R	5890	R	C
C5U02	72000	R	5970	R	C
C5U03	72000	R	6050	R	C
C5U04	72000	R	6130	R	C
C5U05	72000	R	6220	R	C
C5U06	36000	R	6280	R	C
C45U1	72000	R	5890	R	C
C45U2	72000	R	5970	R	C
C45U3	72000	R	6050	R	C

TCZ19	1	C4U01	SERU	C4D01	SELD
TCZ20	1	C4U02	SERU	C4D02	SELD
TCZ21	1	C4U03	SERU	C4D03	SELD
TCZ22	1	C4U04	SERU	C4D04	SELD
TCZ23	1	C4U05	SERU	C4D05	SELD
TCZ24	1	C4U06	SERU	C4D06	SELD
TCZ25	1	C5U01	NERU	C5D01	NELD
TCZ26	1	C5U02	NERU	C5D02	NELD
TCZ27	1	C5U03	NERU	C5D03	NELD
TCZ28	1	C5U04	NERU	C5D04	NELD
TCZ29	1	C5U05	NERU	C5D05	NELD
TCZ30	1	C5U06	NERU	C5D06	NELD
TCZ31	1	C45U1	CERU	C45D1	CELD
TCZ32	1	C45U2	CERU	C45D2	CELD
TCZ33	1	C45U3	CERU	C45D3	CELD
TCZ34	1	C45U4	CERU	C45D4	CELD
TCZ35	1	C45U5	CERU	C45D5	CELD
TCZ36	1	C45U6	CERU	C45D6	CELD
TCG01	1	CGU01	CGLU	CGD01	CGRD
TCG02	1	CGU02	CGLU	CGD02	CGRD
TCG03	1	CGU03	CGLU	CGD03	CGRD
TCG04	1	CGU04	CGRU	CGD04	CGLD
TCG05	1	CGU05	CGRU	CGD05	CGLD
TCG06	1	CGU06	CGRU	CGD06	CGLD
TKS01	1	S1U1	S1HU	S1D1	S1VD
TKS02	1	S1U2	S1HU	S1D2	S1VD
TKS03	1	S1U3	S1HU	S1D3	S1VD
TKS04	1	S1U4	S1HU	S1D4	S1VD
TKS05	1	S1U5	S1HU	S1D5	S1VD
TKS06	1	S1U6	S1HU	S1D6	S1VD
TKS07	1	S1U7	S1HU	S1D7	S1VD
TKS08	1	S1U8	S1HU	S1D8	S1VD
TKS09	1	S2U1	S2VU	S2D1	S2HD
TKS10	1	S2U2	S2VU	S2D2	S2HD
TKS11	1	S2U3	S2VU	S2D3	S2HD
TKS12	1	S2U4	S2VU	S2D4	S2HD
TKS13	1	S2U5	S2VU	S2D5	S2HD
TKS14	1	S2U6	S2VU	S2D6	S2HD
TKS15	1	S2U7	S2VU	S2D7	S2HD

C45U4	72000	R	6130	R	C
C45U5	72000	R	6220	R	C
C45U6	36000	R	6280	R	C
C1D01	72000	T	3665	L	C
C1D02	72000	T	3745	L	C
C1D03	72000	T	3825	L	C
C1D04	72000	T	3905	L	C
C1D05	72000	T	3995	L	C
C1D06	36000	T	4055	L	C
C2D01	72000	T	3665	L	C
C2D02	72000	T	3745	L	C
C2D03	72000	T	3825	L	C
C2D04	72000	T	3905	L	C
C2D05	72000	T	3995	L	C
C2D06	36000	T	4055	L	C
C3D01	72000	T	3665	L	C
C3D02	72000	T	3745	L	C
C3D03	72000	T	3825	L	C
C3D04	72000	T	3905	L	C
C3D05	72000	T	3995	L	C
C3D06	36000	T	4055	L	C
C4D01	72000	T	3665	L	C
C4D02	72000	T	3745	L	C
C4D03	72000	T	3825	L	C
C4D04	72000	T	3905	L	C
C4D05	72000	T	3995	L	C
C4D06	36000	T	4055	L	C
C5D01	72000	T	3665	L	C
C5D02	72000	T	3745	L	C
C5D03	72000	T	3825	L	C
C5D04	72000	T	3905	L	C
C5D05	72000	T	3995	L	C
C5D06	36000	T	4055	L	C
C45D1	72000	T	3665	L	C
C45D2	72000	T	3745	L	C
C45D3	72000	T	3825	L	C
C45D4	72000	T	3905	L	C
C45D5	72000	T	3995	L	C
C45D6	36000	T	4055	L	C

TKS16	1	S2U8	S2VU	S2D8	S2HD

S1U1	77000	R	14042.5	H	C
S1U2	72000	R	14125	H	C
S1U3	72000	R	14205	H	C
S1U4	72000	R	14295	H	C
S1U5	36000	R	14355	H	C
S1U6	36000	R	14395	H	C
S1U7	36000	R	14435	H	C
S1U8	36000	R	14475	H	C
S2U1	77000	R	14042.5	V	C
S2U2	72000	R	14125	V	C
S2U3	72000	R	14205	V	C
S2U4	72000	R	14295	V	C
S2U5	36000	R	14355	V	C
S2U6	36000	R	14395	V	C
S2U7	36000	R	14435	V	C
S2U8	36000	R	14475	V	C
S1D1	77000	T	10992.5	V	C
S1D2	72000	T	11075	V	C
S1D3	72000	T	11155	V	C
S1D4	72000	T	11495	V	C
S1D5	36000	T	11555	V	C
S1D6	36000	T	11595	V	C
S1D7	36000	T	11635	V	C
S1D8	36000	T	11675	V	C
S2D1	77000	T	10992.5	H	C
S2D2	72000	T	11075	H	C
S2D3	72000	T	11155	H	C
S2D4	72000	T	11495	H	C
S2D5	36000	T	11555	H	C
S2D6	36000	T	11595	H	C
S2D7	36000	T	11635	H	C
S2D8	36000	T	11675	H	C
TLM1	270	T	3947.5	R	T
TLM2	270	T	3952	R	T
TLM3	270	T	3948	V	T
TLM4	270	T	3952.5	V	T
CMDG1	960	R	6173.7	L	T
CMDB1	960	R	6176.3	L	T
BCNC	25	T	3950	V	T

BCNK1	25	T		R	T
BCNK2	25	T	11452	R	T

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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	36M0G7W							
D2	10M3G7W							
D3	100KG7W							
D4	1M45G7W							
D5	27M0G7W							

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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						

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S13. TYPICAL EMISSIONS For each planned type of emission provide:

Associated Transponder ID Range		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)			
								(i)Assoc. Stn. Max. Antenna Gain (dBi)	Assoc. Station Transmit Power (dBW)		EIRP (dBW)		(n) Max. Power Flux Density (dBW/m2/Hz)	(o)Assoc. Stn Rec. G/T (dB/K)
(a) Start	(b) End	(c) Digital (Table S11)	(d) Analog (Table S12)						(j) Min.	(k) Max.	(l) Min.	(m) Max.		
TCH01	TCH12	D1										41.2		
TCH01	TCH12	D2										34.8		
TCH01	TCH12	D3										28.1		
TCH01	TCH12	D4										22.3		
TCZ01	TCZ36	D1										41.2		
TCZ01	TCZ36	D2										34.8		
TCZ01	TCZ36	D3										28.1		
TCZ01	TCZ36	D4										22.3		
TCG01	TCG06	D1										41.2		
TCG01	TCG06	D2										34.8		
TCG01	TCG06	D3										28.1		
TCG01	TCG06	D4										22.3		
TKS01	TKS16	D1										47.6		
TKS01	TKS16	D2										41.9		
TKS01	TKS16	D3										30.9		
TKS01	TKS16	D4										25.9		

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

S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S16. SPACECRAFT ELECTRICAL CHARACTERISTICS:

S17. CERTIFICATIONS:

a. Are the power flux density limits of § 25.208 met?:	[X]	**YES**	[ ]	**NO**	[ ]	**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?	[ ]	**YES**	[ ]	**NO**	[X]	**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?	[ ]	**YES**	[X]	**NO**	[ ]	**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.

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