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 34		10/1/2015	N
b. Construction Commencement Date:		f. Estimated Lifetime of Satellite(s):	j. Number of transponders offered on a common carrier basis:
6/20/2013		15 Years	
c. Construction Completion Date:		g. Total Number of Transponders:	k. Total Common Carrier Transponder Bandwidth:
6/20/2015		40	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:
7/27/2015	1/27/2016	1738 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)		
5925	M	6425	M	R	Fixed Satellite Service
14000	M	14500	M	R	Fixed Satellite Service
3700	M	4200	M	T	Fixed Satellite Service
11450	M	11700	M	T	Fixed Satellite Service
11700	M	12200	M	T	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:
55.5 W			REPLACE EXISTING INTELSAT 805 AND GALAXY 11 SPACECRAFT
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.
1	S		NORTH AND SOUTH AMERICA AND EUROPE
2	S		BRAZIL
3	S		UNITED STATES, MEXICO, CENTRAL AMERICA, CARIBBEAN, EUROPE, ATLANTIC OCEAN
4	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
HHU	R	28.2	22.3	0.1	0.2	30	N	0	1				531	1	-104	25	1
HVUL	R	28.2	22.3	0.1	0.2	30	N	90	1				531	0.9	-104.9	25	1
BHUL	R	36.5	31.3	0.1	0.2	30	N	0	2				708	8	-103	21	1
BVUL	R	36.5	31.3	0.1	0.2	30	N	90	2				708	8	-103	21	1
NHU	R	28.3	23	0.1	0.2	30	N	0	3				589	0.6	-95.6	21	1
HHD	T	25.6	21.6	0.1	0.2	30	N	0	1	2.5	65	41.2					
HVDL	T	25.5	21.5	0.1	0.2	30	N	90	1	2.5	65	41.1					
BHDL	T	35.5	29.8	0.1	0.2	30	N	0	2	2.9	150	54.4					
BVDL	T	35.5	29.8	0.1	0.2	30	N	90	2	2.9	150	54.4					
NVDL	T	28.2	22.6	0.1	0.2	30	N	90	3	3.2	150	46.8					
CMD	R	28.2	22.3	0.1	0.2		N	0	1				5146	-8.9	-124.4		
CMD	R	2	-2.1	0.1	0.2		N		4				4925	-34.9	-96.4		
TLMV	T	25.5	21.5	0.1	0.2		N	90	1	9.7	0.5	9.6					
TLMB	T	6	3.4	0.1	0.2		N		4	10	45	12.5					
UPC	T	24.9	20.8	0.1	0.2		N	0	4	5.6	0.4	15.3					
UPK	T	21.5	17.4	0.1	0.2		N	90	4	2	0.5	16.5					
UPK	T	22	17.9	0.1	0.2		N	0	4	2	0.5	17					

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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
HHU	R	C	-55.5		hhul.gxt					
HVUL	R	C	-55.5		hvul.gxt					
BHUL	R	C	-55.5		bhul.gxt					
BVUL	R	C	-55.5		bvul.gxt					
NHU	R	C	-55.5		nhul.gxt					
HHD	T	C	-55.5		hhdl.gxt	-152.1	-152	-151.8	-151.7	-151.6
HVDL	T	C	-55.5		hvdl.gxt	-152.2	-152.1	-151.9	-151.8	-151.7
BHDL	T	C	-55.5		bhdl.gxt					
BVDL	T	C	-55.5		bvdl.gxt					
NVDL	T	C	-55.5		nvdl.gxt	-150	-147.5	-146.2	-146.1	-146
CMD	R	C	-55.5		cmdh.gxt					
CMD	R	C	-55.5		cmdb.gxt					
TLMV	T	C	-55.5		TLMV.gxt	-166.2	-166.1	-166	-165.9	-165.8
TLMB	T	C	-55.5		tlmb.gxt	-170.9	-170.8	-170.7	-170.6	-170.5
UPC	T	C	-55.5		upch.gxt	-155.9	-155.8	-155.7	-155.6	-155.5
UPK	T	C	-55.5		upkh.gxt	-154.2	-154.1	-154	-153.9	-153.8
UPK	T	C	-55.5		upkv.gxt	-154.7	-154.6	-154.5	-154.4	-154.3

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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)
1CU	72000	R	5970	H	C
3CU	36000	R	6030	H	C
5CU	36000	R	6070	H	C
7CU	36000	R	6110	H	C
9CU	36000	R	6150	H	C
11CU	36000	R	6200	H	C
13CU	36000	R	6240	H	C
15CU	36000	R	6280	H	C
17CU	36000	R	6320	H	C
19CU	36000	R	6360	H	C
2CU	72000	R	5970	V	C
4CU	36000	R	6030	V	C
6CU	36000	R	6070	V	C
8CU	36000	R	6110	V	C
10CU	36000	R	6150	V	C
12CU	36000	R	6200	V	C
14CU	36000	R	6240	V	C
16CU	36000	R	6280	V	C
18CU	36000	R	6320	V	C
20CU	36000	R	6360	V	C
1CD	72000	T	3745	V	C
3CD	36000	T	3805	V	C
5CD	36000	T	3845	V	C
7CD	36000	T	3885	V	C
9CD	36000	T	3925	V	C
11CD	36000	T	3975	V	C
13CD	36000	T	4015	V	C
15CD	36000	T	4055	V	C
17CD	36000	T	4095	V	C
19CD	36000	T	4135	V	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
C0001	129.6	1CU	HHUL	1CD	HVDL
C0003	129.6	3CU	HHUL	3CD	HVDL
C0005	129.6	5CU	HHUL	5CD	HVDL
C0007	129.6	7CU	HHUL	7CD	HVDL
C0009	129.6	9CU	HHUL	9CD	HVDL
C0011	129.6	11CU	HHUL	11CD	HVDL
C0013	129.6	13CU	HHUL	13CD	HVDL
C0015	129.6	15CU	HHUL	15CD	HVDL
C0017	129.6	17CU	HHUL	17CD	HVDL
C0019	129.6	19CU	HHUL	19CD	HVDL
C0002	129.6	2CU	HVUL	2CD	HHDL
C0004	129.6	4CU	HVUL	4CD	HHDL
C0006	129.6	6CU	HVUL	6CD	HHDL
C0008	129.6	8CU	HVUL	8CD	HHDL
C0010	129.6	10CU	HVUL	10CD	HHDL
C0012	129.6	12CU	HVUL	12CD	HHDL
C0014	129.6	14CU	HVUL	14CD	HHDL
C0016	129.6	16CU	HVUL	16CD	HHDL
C0018	129.6	18CU	HVUL	18CD	HHDL
C0020	129.6	20CU	HVUL	20CD	HHDL
BB001	129.8	1KU	BHUL	1KD	BVDL
BB003	129.8	3KU	BHUL	3KD	BVDL
BB005	129.8	5KU	BHUL	5KD	BVDL
BB002	129.8	2KU	BVUL	2KD	BHDL
BB004	129.8	4KU	BVUL	4KD	BHDL
BB006	129.8	6KU	BVUL	6KD	BHDL
BB008	129.8	8KU	BVUL	8KD	BHDL
BB010	139.8	10KU	BVUL	10KD	BHDL
BB012	139.8	12KU	BVUL	12KD	BHDL
BB014	139.8	14KU	BVUL	14KD	BHDL

2CD	72000	T	3745	H	C
4CD	36000	T	3805	H	C
6CD	36000	T	3845	H	C
8CD	36000	T	3885	H	C
10CD	36000	T	3925	H	C
12CD	36000	T	3975	H	C
14CD	36000	T	4015	H	C
16CD	36000	T	4055	H	C
18CD	36000	T	4095	H	C
20CD	36000	T	4135	H	C
1KU	72000	R	14045	H	C
3KU	36000	R	14105	H	C
5KU	36000	R	14145	H	C
7KU	36000	R	14195	H	C
9KU	36000	R	14225	H	C
11KU	72000	R	14290	H	C
13KU	72000	R	14370	H	C
15KU	72000	R	14450	H	C
17KU	72000	R	14045	H	C
19KU	36000	R	14105	H	C
2KU	72000	R	14045	V	C
4KU	72000	R	14125	V	C
6KU	36000	R	14190	V	C
8KU	36000	R	14230	V	C
10KU	36000	R	14270	V	C
12KU	36000	R	14310	V	C
14KU	36000	R	14350	V	C
16KU	36000	R	14390	V	C
18KU	36000	R	14430	V	C
20KU	36000	R	14470	V	C
1KD	72000	T	11990	V	C
3KD	36000	T	12050	V	C
5KD	36000	T	12090	V	C
7KD	36000	T	12130	V	C
9KD	36000	T	12170	V	C
11KD	72000	T	11745	V	C
13KD	72000	T	11825	V	C
15KD	72000	T	11905	V	C
17KD	72000	T	11495	V	C

BB016	139.8	16KU	BVUL	16KD	BHDL
BB018	139.8	18KU	BVUL	18KD	BHDL
BB020	139.8	20KU	BVUL	20KD	BHDL
C0021	129.6	21CU	HHUL	21CD	HHDL
C0022	129.6	22CU	HHUL	22CD	HHDL
BB007	129.8	7KU	BHUL	7KD	BVDL
BB009	129.8	9KU	BHUL	9KD	BVDL
BB011	129.8	11KU	BHUL	11KD	BVDL
BB013	129.8	13KU	BHUL	13KD	BVDL
BB015	129.8	15KU	BHUL	15KD	BVDL
NN017	136.3	17KU	NHUL	17KD	NVDL
NN019	136.3	19KU	NHUL	19KD	NVDL
NN021	136.3	21KU	NHUL	21KD	NVDL
NN023	136.3	23KU	NHUL	23KD	NVDL
NN025	136.3	25KU	NHUL	25KD	NVDL

19KD	36000	T	11555	V	C
2KD	72000	T	11745	H	C
4KD	72000	T	11825	H	C
6KD	36000	T	11890	H	C
8KD	36000	T	11930	H	C
10KD	36000	T	11970	H	C
12KD	36000	T	12010	H	C
14KD	36000	T	12050	H	C
16KD	36000	T	12090	H	C
18KD	36000	T	12130	H	C
20KD	36000	T	12170	H	C
CMD1	1000	R	6173.7	H	T
CMD2	1000	R	6176.3	H	T
TM1	500	T	3949	V	T
TM2	500	T	3949.5	V	T
TM3	500	T	3950.5	V	T
TM4	500	T	3951	V	T
TM5	500	T	3949	R	T
TM6	500	T	3949.5	R	T
TM7	500	T	3950.5	R	T
TM8	500	T	3951	R	T
UPC1	25	T	3700.25	H	T
UPK1	25	T	11699.25	V	T
UPK2	25	T	11699.5	H	T
21KD	36000	T	11595	V	C
23KD	36000	T	11635	V	C
25KD	36000	T	11675	V	C
21CU	41000	R	6402.5	H	C
22CU	41000	R	6402.5	V	C
CMD3	1000	R	6173.7	L	T
CMD4	1000	R	6176.3	L	T
21CD	41000	T	4177.5	V	C
22CD	41000	T	4177.5	H	C
21KU	36000	R	11595	H	C
23KU	36000	R	11635	H	C
25KU	36000	R	11675	H	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)
D1	72M0G7W	72000	4	49150	0.5		4.5	20.2
D2	8M7G7W	8789.5	4	6000	0.5		4.5	30
D3	323KG7W	323.5	4	256	0.5		3	23.2
D4	5M33G7W	5333	2	512	0.5		-5.2	24.5
D5	1M33G7W	1333.5	2	128	0.5		-5.2	22.3

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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						
A1	36M0F3F	36000	TV/FM	1					NTSC	12.8	2.6		15.4	25.5

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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.		
C0001	C0022		A1	1		C-Band Link Bu	4000	56.7	19.3	25.2	31.2	37.1	-156	31.7
C0001	C0022	D1		1		C-Band Link Bu		51.2	18.5	24.4	31.1	37	-167.4	22.7
C0001	C0022	D2		8		C-Band Link Bu		48.6	19	24.9	18.7	24.6	-170.6	22.7
C0001	C0022	D3		223		C-Band Link Bu		45.1	7.2	13.1	3.4	9.3	-172.1	22.7
BB001	BB015		A1	1		Brazil Link Bud	4000	53.1	16.9	22.1	42.5	47.7	-152.7	29
BB001	BB015	D1		1		Brazil Link Bud		53.1	18.3	23.5	40.3	45.5	-166.1	23.3
BB001	BB015	D2		8		Brazil Link Bud		46.6	10.5	15.7	30.9	36.1	-166.4	23.3
BB001	BB015	D3		223		Brazil Link Bud		46.6	-4.5	0.7	15.8	21	-167.7	23.3
BB001	BB015	D4		14		Brazil Link Bud		46.6	8.8	14	29.2	34.4	-166.4	16.5
BB001	BB015	D5		54		Brazil Link Bud		46.6	2.9	8.1	23.2	28.4	-166.4	16.5
NN017	NN025		A1	1		NAOR Link Bud	4000	57.4	16.9	22.2	35.2	40.8	-159.5	39
NN017	NN025	D1		1		NAOR Link Bud		48.7	18.3	23.6	35.5	41.1	-170.4	29.5
NN017	NN025	D2		8		NAOR Link Bud		53	17.8	24.2	23.9	29.5	-172.9	29
NN017	NN025	D3		223		NAOR Link Bud		53	-2.6	2.7	8.7	14.3	-174.3	29
NN017	NN025	D4		14		NAOR Link Bud		49.1	9	14.3	16.3	21.9	-178.9	25
NN017	NN025	D5		54		NAOR Link Bud		49.1	3	8.3	10.4	16	-178.7	25

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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: 3400 INTERNATIONAL DRIVE, NW			
S14b. City: WASHINGTON	S14c. County:	S14d. State/Country DC	S14e. Zip Code: 20008
S14f. Telephone Number: 202-944-7701	S14g. Call Sign of Control Station (if appropriate):		

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S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S15a: Mass of spacecraft without fuel (kg): 1818	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 1482		
S15c. Mass of spacecraft and fuel at launch (kg): 3300	S15f. Length (m): 24.7	S15i. Payload: 0.926
S15d. Mass of fuel, in orbit, at beginning of life (kg): 190	S15g. Width (m): 9.5	S15j. Bus: 0.863
S15e. Deployed Area of Solar Array (square meters): 22.4	S15h. Height (m): 5.8	S15k. Total: 0.753

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): 6623	(f): 6623	(k): 6623	(p): 6623
Bus (Watts):	(b): 1860	(g): 1199	(l): 1763	(q): 1118
Total (Watts):	(c): 8483	(h): 7822	(m) 8483	(r): 7822
Solar Array (Watts):	(d): 10913	(i): 9709	(n): 10015	(s): 9023
Depth of Battery Discharge (%):	(e) 71.2 %	(j) %	(o) 71.2 %	(t) %

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?	X	**YES**		**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.