

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: GALAXY 11		e. Estimated Date of Placement into Service:		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date:		f. Estimated Lifetime of Satellite(s): Years		j. Number of transponders offered on a common carrier basis:	
c. Construction Completion Date:		g. Total Number of Transponders: 64		k. Total Common Carrier Transponder Bandwidth: MHz	
d1. Est Launch Date Begin:	d2. Est Launch Date End:	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 2160 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
14000	M	14500	M	R	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): 84.9 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: PROVIDE C-BAND SERVICE TO THE CONTIGUOUS UNITED STATES, THE VISIBLE PORTION OF ALASKA, HAWAII, MEXICO, PORTIONS OF CANADA AND CENTRAL AMERICA			
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): Degrees 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.
1	S		CONTIGUOUS UNITED STATES, VISIBLE PORTION OF ALASK, HAWAII, MEXICO AND PORTIONS OF CAN
2	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 Iso- lation (dB)	(h) Polar- ization Switch- able? (Y/N)	(i) Polarization Alignment Rel. Equatorial Plane (Degrees)	(j) Service Area ID	Transmit			Receive				
										(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)	Input Attenuator (dB)	
		(q) Max. Value	(r) Step Size														
CVU	R	29.6	25.6	0.14	0.22		Y	90	1					2.5	-94	16	1
CHU	R	31.2	27.2	0.14	0.22		Y	0	1					4.2	-95.2	16	1
CVD	T	28.8	24.8	0.14	0.22		Y	90	1			40.2					
CHD	T	29	25	0.14	0.22		Y	0	1			40.1					
CMD	R	32	22	0.14	0.22		N	90	1					-3	-119.6		
CMD	R	2.2	-2.8	0.14	0.22		N	0	2					-30.8	-91.8		
CMD	R	3.8	-1.2	0.14	0.22		N		2					-28.7	-94.3		
TLM	T	31.9	21.9	0.14	0.22		N	90	1			15.3					
TLM	T	2.7	-0.8	0.14	0.22		N	90	2			11.6					
TLM	T	5.3	-0.7	0.14	0.22		N		2			11.6					

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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
CVU	R	C	-84.9		cvul.gxt					
CHU	R	C	-84.9		chul.gxt					
CVD	T	C	-84.9		cvdl.gxt	-153.1	-153	-152.8	-152.7	-152.6
CHD	T	C	-84.9		chdl.gxt	-153.2	-153.1	-152.9	-152.8	-152.7
CMD	R	C	-84.9		cmdc.gxt					
CMD	R	C	-84.9	cmdb.pdf						
CMD	R	C	-84.9	cmdp.pdf						
TLM	T	C	-84.9		tlmc.gxt					
TLM	T	C	-84.9	tlmb.pdf						
TLM	T	C	-84.9	tlmp.pdf						

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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)
CU001	36000	R	5945	H	C
CU003	36000	R	5985	H	C
CU005	36000	R	6025	H	C
CU007	36000	R	6065	H	C
CU009	36000	R	6105	H	C
CU011	36000	R	6145	H	C
CU013	36000	R	6185	H	C
CU015	36000	R	6225	H	C
CU017	36000	R	6265	H	C
CU019	36000	R	6305	H	C
CU021	36000	R	6345	H	C
CU023	36000	R	6385	H	C
CU002	36000	R	5965	V	C
CU004	36000	R	6005	V	C
CU006	36000	R	6045	V	C
CU008	36000	R	6085	V	C
CU010	36000	R	6125	V	C
CU012	36000	R	6165	V	C
CU014	36000	R	6205	V	C
CU016	36000	R	6245	V	C
CU018	36000	R	6285	V	C
CU020	36000	R	6325	V	C
CU022	36000	R	6365	V	C
CU024	36000	R	6405	V	C
CD001	36000	T	3720	V	C
CD003	36000	T	3760	V	C
CD005	36000	T	3800	V	C
CD007	36000	T	3840	V	C
CD009	36000	T	3880	V	C
CD011	36000	T	3920	V	C

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
C0001	112.7	CU001	CHUL	CD001	CVDL
C0003	112.7	CU003	CHUL	CD003	CVDL
C0005	112.7	CU005	CHUL	CD005	CVDL
C0007	112.7	CU007	CHUL	CD007	CVDL
C0009	112.7	CU009	CHUL	CD009	CVDL
C0011	112.7	CU011	CHUL	CD011	CVDL
C0013	112.7	CU013	CHUL	CD013	CVDL
C0015	112.7	CU015	CHUL	CD015	CVDL
C0017	112.7	CU017	CHUL	CD017	CVDL
C0019	112.7	CU019	CHUL	CD019	CVDL
C0021	112.7	CU021	CHUL	CD021	CVDL
C0023	112.7	CU023	CHUL	CD023	CVDL
C0002	112.8	CU002	CVUL	CD002	CHDL
C0004	112.8	CU004	CVUL	CD004	CHDL
C0006	112.8	CU006	CVUL	CD006	CHDL
C0008	112.8	CU008	CVUL	CD008	CHDL
C0010	112.8	CU010	CVUL	CD010	CHDL
C0012	112.8	CU012	CVUL	CD012	CHDL
C0014	112.8	CU014	CVUL	CD014	CHDL
C0016	112.8	CU016	CVUL	CD016	CHDL
C0018	112.8	CU018	CVUL	CD018	CHDL
C0020	112.8	CU020	CVUL	CD020	CHDL
C0022	112.8	CU022	CVUL	CD022	CHDL
C0024	112.8	CU024	CVUL	CD024	CHDL

CD013	36000	T	3960	V	C
CD015	36000	T	4000	V	C
CD017	36000	T	4040	V	C
CD019	36000	T	4080	V	C
CD021	36000	T	4120	V	C
CD023	36000	T	4160	V	C
CD002	36000	T	3740	H	C
CD004	36000	T	3780	H	C
CD006	36000	T	3820	H	C
CD008	36000	T	3860	H	C
CD010	36000	T	3900	H	C
CD012	36000	T	3940	H	C
CD014	36000	T	3980	H	C
CD016	36000	T	4020	H	C
CD018	36000	T	4060	H	C
CD020	36000	T	4100	H	C
CD022	36000	T	4140	H	C
CD024	36000	T	4180	H	C
CMD1	1000	R	14498.5	V	T
CMD2	1000	R	14498.5	H	T
CMD3	1000	R	14000.5	L	T
TLM1	500	T	11701	V	T
TLM2	500	T	11702	V	T
TLM3	500	T	11701	V	T
TLM4	500	T	11702	V	T
TLM5	500	T	11701	L	T
TLM6	500	T	11702	L	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	30133	4	36863	0.75		6.1	15.6
D2	10M3G7W	6771.1	4	6000	0.5		3.9	13.9
D3	100KG7W	75.4	4	64	0.5		3	13

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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		10	19.9

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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)		EIRP (dBW)		(n) Max. Power Flux Density (dBW/m ² /Hz)	(o) Assoc. Stn Rec. G/T (dB/K)
						(j) Min.	(k) Max.		(l) Min.	(m) Max.				
C0001	C0023		A1	1		G11 LINK BUD	4000	52.8	15.9	19.9	36.2	40.2	-151.9	26.6
C0001	C0023	D1		1		G11 LINK BUD		49.4	19.3	23.3	36.2	40.2	-160.6	21
C0001	C0023	D2		2	10300	G11 LINK BUD		49.4	15.8	19.8	29	33	-161.4	19.2
C0001	C0023	D3		256	100	G11 LINK BUD		49.4	-4.6	-0.6	8.6	12.6	-162.3	19.2
C0002	C0024		A1	1		G11 LINK BUD	4000	52.8	16.1	20.1	36.1	40.1	-152	26.6
C0002	C0024	D1		1		G11 LINK BUD		49.4	19.5	23.5	36.1	40.1	-160.7	21
C0002	C0024	D2		2	10300	G11 LINK BUD		49.4	18.1	22.1	28.9	32.9	-161.5	19.2
C0002	C0024	D3		257	100	G11 LINK BUD		49.4	-2.4	1.6	8.5	12.5	-162.4	19.2

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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, N.W.			
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:

S16. SPACECRAFT ELECTRICAL CHARACTERISTICS:

S17. CERTIFICATIONS:

a. Are the power flux density limits of § 25.208 met?:	<input 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 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 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.								