

**FEDERAL COMMUNICATIONS COMMISSION
SATELLITE SPACE STATION AUTHORIZATIONS
(Technical and Operational Description)**

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: GALAXY BSS-2		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): 15 Years		j. Number of transponders offered on a common carrier basis:	
c. Construction Completion Date:		g. Total Number of Transponders: 45		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) 1656 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)		
24.75	G	25.25	G	R	17/24 GHz BSS
17.3	G	17.8	G	T	17/24 GHz BSS

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 95.15 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: The grid orbital location of 95W is already used by Intelsat (possibility of multi-band payloads). The 0.15 degree offset is required because of satellites currently in orbit.	
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> Degrees </u> <u> E/W </u>	
d. Toward West:	0.05 Degrees	e. Toward East:		g. Westernmost:	
	0.05 Degrees			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		United States
2	S		South America
3	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														
NRFL	R	35.5	25.5	0.15	0.15	25	N		1				795	6.5	-100	25	1
NRF	R	35.5	25.5	0.15	0.15	25	N		1				795	6.5	-100	25	1
SRF	R	35.5	25.5	0.15	0.15	25	N		2				795	6.5	-100	25	1
GR	R	46.1	40.1	0.075	0.075	25	N		1				915	16.5	-110	25	1
NTFL	T	34.5	28.5	0.15	0.15	25	N		1	1.6	89.1	54					
NTF	T	34.5	28.5	0.15	0.15	25	N		1	1.6	89.1	54					
STF	T	32	26	0.15	0.15	25	N		2	1	631	60					
UT	T	46.1	40.1	0.075	0.075	25	N		1	1.9	49	63					
CMR	R	35.5	25.5	0.15	0.15		N		1				5157	-1.6	-118.5		
CML	R	35.5	25.5	0.15	0.15		N		1				5157	-1.6	-118.5		
CMH	R	20.2	17.2	0.15	0.15		N		03				745	-8.5	-118.5		
CMV	R	20.2	17.2	0.15	0.15		N	90	3				745	-8.5	-118.5		
TMR	T	34.5	24.5	0.15	0.15		N		1	1.5	0.28	29					
TML	T	34.5	24.5	0.15	0.15		N		1	1.5	0.28	29					
TMV	T	20	17	0.15	0.15		N	90	3	2	0.63	18					
PBR	T	34.5	24.5	0.15	0.15		N		1	2.5	0.22	28					
PBL	T	34.5	24.5	0.15	0.15		N		1	2.5	0.22	28					

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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
NRFL	R	C	-95.15		NRFL.gxt					
NRF	R	C	-95.15		NRFR.gxt					
SRF	R	C	-95.15		SRF.gxt					
GR	R	C	-95.15		GR.gxt					
NTFL	T	C	-95.15		NTFL.gxt	-122.3	-122.2	-122.1	-121.9	-121.8
NTF	T	C	-95.15		NTFR.gxt	-122.3	-122.2	-122.1	-121.9	-121.8
STF	T	C	-95.15		STF.gxt	-116.3	-116.2	-116.1	-115.9	-115.8
UT	T	C	-95.15		UT.gxt	-116.3	-116.2	-116.1	-116	-115.8
CMR	R	C	-95.15		CMR.gxt					
CML	R	C	-95.15		CML.gxt					
CMH	R	C	-95.15		CMH.gxt					
CMV	R	C	-95.15		CMV.gxt					
TMR	T	C	-95.15		TMR.gxt	-128.3	-128.1	-128	-127.9	-127.8
TML	T	C	-95.15		TML.gxt	-128.3	-128.1	-128	-127.9	-127.8
TMV	T	C	-95.15		TMV.gxt	-163.2	-163.1	-163	-162.9	-162.8
PBR	T	C	-95.15		PBR.gxt	-122.3	-122.1	-122	-121.9	-121.8
PBL	T	C	-95.15		PBL.gxt	-122.3	-122.1	-122	-121.9	-121.8

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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)
GA001	48000	R	24802.66	L	C
GA002	48000	R	24860.98	L	C
GA003	48000	R	24919.3	L	C
GA004	48000	R	24977.62	L	C
GB001	48000	R	24802.66	L	C
GB002	48000	R	24860.98	L	C
GB003	48000	R	24919.3	L	C
GB004	48000	R	24977.62	L	C
GC001	48000	R	24802.66	L	C
GC002	48000	R	24860.98	L	C
GC003	48000	R	24919.3	L	C
GC004	48000	R	24977.62	L	C
GD001	48000	R	24802.66	L	C
GD002	48000	R	24860.98	L	C
GD003	48000	R	24919.3	L	C
GD004	48000	R	24977.62	L	C
GE001	48000	R	24802.66	L	C
GE002	48000	R	24860.98	L	C
GE003	48000	R	24919.3	L	C
GE004	48000	R	24977.62	L	C
GF001	48000	R	24802.66	L	C
GF002	48000	R	24860.98	L	C
GF003	48000	R	24919.3	L	C
GF004	48000	R	24977.62	L	C
UA001	48000	T	17352.66	R	C
UA002	48000	T	17410.98	R	C
UA003	48000	T	17469.3	R	C
UA004	48000	T	17527.62	R	C
UB001	48000	T	17352.66	R	C
UB002	48000	T	17410.98	R	C

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
NT001	133.4	NR001	NRFR	NT001	NTFL
NT003	133.4	NR003	NRFR	NT003	NTFL
NT005	133.4	NR005	NRFR	NT005	NTFL
NT007	133.4	NR007	NRFR	NT007	NTFL
NT009	133.4	NR009	NRFR	NT009	NTFL
NT011	133.4	NR011	NRFR	NT011	NTFL
NT013	133.4	NR013	NRFR	NT013	NTFL
NT015	133.4	NR015	NRFR	NT015	NTFL
NT017	133.4	NR017	NRFR	NT017	NTFL
NT019	133.4	NR019	NRFR	NT019	NTFL
NT021	133.4	NR021	NRFR	NT021	NTFL
NT023	133.4	NR023	NRFR	NT023	NTFL
NT025	133.4	NR025	NRFR	NT025	NTFL
NT002	133.4	NR002	NRFL	NT002	NTFR
NT004	133.4	NR004	NRFL	NT004	NTFR
NT006	133.4	NR006	NRFL	NT006	NTFR
NT008	133.4	NR008	NRFL	NT008	NTFR
NT010	133.4	NR010	NRFL	NT010	NTFR
A0001	130.2	GA001	GR	UA001	UT
A0002	130.2	GA002	GR	UA002	UT
A0003	130.2	GA003	GR	UA003	UT
A0004	130.2	GA004	GR	UA004	UT
B0001	130.2	GB001	GR	UB001	UT
B0002	130.2	GB002	GR	UB002	UT
B0003	130.2	GB003	GR	UB003	UT
B0004	130.2	GB004	GR	UB004	UT
C0001	130.2	GC001	GR	UC001	UT
C0002	130.2	GC002	GR	UC002	UT
C0003	130.2	GC003	GR	UC003	UT
C0004	130.2	GC004	GR	UC004	UT

UB003	48000	T	17469.3	R	C
UB004	48000	T	17527.62	R	C
UC001	48000	T	17352.66	R	C
UC002	48000	T	17410.98	R	C
UC003	48000	T	17469.3	R	C
UC004	48000	T	17527.62	R	C
UD001	48000	T	17352.66	R	C
UD002	48000	T	17410.98	R	C
UD003	48000	T	17469.3	R	C
UD004	48000	T	17527.62	R	C
UE001	48000	T	17352.66	R	C
UE002	48000	T	17410.98	R	C
UE003	48000	T	17469.3	R	C
UE004	48000	T	17527.62	R	C
UF001	48000	T	17352.66	R	C
UF002	48000	T	17410.98	R	C
UF003	48000	T	17469.3	R	C
UF004	48000	T	17527.62	R	C
NR001	24000	R	24773.5	R	C
NR003	24000	R	24802.66	R	C
NR005	24000	R	24831.82	R	C
NR007	24000	R	24860.98	R	C
NR009	24000	R	24890.14	R	C
NR011	24000	R	24919.3	R	C
NR013	24000	R	24948.46	R	C
NR015	24000	R	24977.62	R	C
NR017	24000	R	25006.78	R	C
NR019	24000	R	25035.94	R	C
NR021	24000	R	25065.1	R	C
NR023	24000	R	25094.26	R	C
NR025	24000	R	25123.42	R	C
NR002	24000	R	24788.08	L	C
NR004	24000	R	24817.24	L	C
NR006	24000	R	24846.4	L	C
NR008	24000	R	24875.56	L	C
NR010	24000	R	24904.72	L	C
NR012	24000	R	24933.88	L	C
NR014	24000	R	24963.04	L	C
NR016	24000	R	24992.2	L	C

D0001	130.2	GD001	GR	UD001	UT
D0002	130.2	GD002	GR	UD002	UT
D0003	130.2	GD003	GR	UD003	UT
D0004	130.2	GD004	GR	UD004	UT
E0001	130.2	GE001	GR	UE001	UT
E0002	130.2	GE002	GR	UE002	UT
E0003	130.2	GE003	GR	UE003	UT
E0004	130.2	GE004	GR	UE004	UT
F0001	130.2	GF001	GR	UF001	UT
F0002	130.2	GF002	GR	UF002	UT
F0003	130.2	GF003	GR	UF003	UT
NT012	133.4	NR012	NRFL	NT012	NTFR
NT014	133.4	NR014	NRFL	NT014	NTFR
NT016	133.4	NR016	NRFL	NT016	NTFR
NT018	133.4	NR018	NRFL	NT018	NTFR
NT020	133.4	NR020	NRFL	NT020	NTFR
NT022	133.4	NR022	NRFL	NT022	NTFR
NT024	133.4	NR024	NRFL	NT024	NTFR
NT026	133.4	NR026	NRFL	NT026	NTFR
ST018	141.9	SR018	SRF	ST018	STF
ST020	141.9	SR020	SRF	ST020	STF
ST022	141.9	SR022	SRF	ST022	STF
ST024	141.9	SR024	SRF	ST024	STF
ST026	141.9	SR026	SRF	ST026	STF
ST028	141.9	SR028	SRF	ST028	STF
ST030	141.9	SR030	SRF	ST030	STF
ST032	141.9	SR032	SRF	ST032	STF
SF018	141.9	NR018	NRFL	ST018	STF
SF020	141.9	NR020	NRFL	ST020	STF
SF022	141.9	NR022	NRFL	ST022	STF
SF024	141.9	NR024	NRFL	ST024	STF
SF026	141.9	NR026	NRFL	ST026	STF
SF028	141.9	NR028	NRFL	ST028	STF
SF030	141.9	NR030	NRFL	ST030	STF
SF032	141.9	NR032	NRFL	ST032	STF
F0004	130.2	GF004	GR	UF004	UT

NR018	24000	R	25021.36	L	C
NR020	24000	R	25050.52	L	C
NR022	24000	R	25079.68	L	C
NR024	24000	R	25108.84	L	C
NR026	24000	R	25138	L	C
NR028	24000	R	25167.16	L	C
NR030	24000	R	25196.32	L	C
NR032	24000	R	25225.48	L	C
SR018	24000	R	25021.36	L	C
SR020	24000	R	25050.52	L	C
SR022	24000	R	25079.68	L	C
SR024	24000	R	25108.84	L	C
SR026	24000	R	25138	L	C
SR028	24000	R	25167.16	L	C
SR030	24000	R	25196.32	L	C
SR032	24000	R	25225.48	L	C
NT001	24000	T	17323.5	L	C
NT003	24000	T	17352.66	L	C
NT005	24000	T	17381.82	L	C
NT007	24000	T	17410.98	L	C
NT009	24000	T	17440.14	L	C
NT011	24000	T	17469.3	L	C
NT013	24000	T	17498.46	L	C
NT015	24000	T	17527.62	L	C
NT017	24000	T	17556.78	L	C
NT019	24000	T	17585.94	L	C
NT021	24000	T	17615.1	L	C
NT023	24000	T	17644.26	L	C
NT025	24000	T	17673.42	L	C
NT002	24000	T	17338.08	R	C
NT004	24000	T	17367.24	R	C
NT006	24000	T	17396.4	R	C
NT008	24000	T	17425.56	R	C
NT010	24000	T	17454.72	R	C
NT012	24000	T	17483.88	R	C
NT014	24000	T	17513.04	R	C
NT016	24000	T	17542.2	R	C
NT018	24000	T	17571.36	R	C
NT020	24000	T	17600.52	R	C

NT022	24000	T	17629.68	R	C
NT024	24000	T	17658.84	R	C
NT026	24000	T	17688	R	C
ST018	24000	T	17571.36	R	C
ST020	24000	T	17600.52	R	C
ST022	24000	T	17629.68	R	C
ST024	24000	T	17658.84	R	C
ST026	24000	T	17688	R	C
ST028	24000	T	17717.16	R	C
ST030	24000	T	17746.32	R	C
ST032	24000	T	17775.48	R	C
CMD1	1000	R	24751.5	R	T
CMD2	1000	R	25248.5	L	T
CMD3	1000	R	5925.5	V	T
CMD4	1000	R	6424.5	H	T
TM1	350	T	17303.0	R	T
TM2	350	T	17303.5	L	T
TM3	350	T	4197	V	T
TM4	350	T	4198.5	V	T
UPC1	50	T	17301	R	T
UPC2	50	T	17301.5	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)
1	48M0G7W	40000	8	100000	0.83		8.9	26.1
2	24M0G7W	19988	4	26650	0.67		4.1	19.3
3	360KG7W	360	2	128	0.5		2.7	38.3

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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 ² /Hz)	(o) Assoc. Stn Rec. G/T (dB/K)
NT001	NT026	2		1		GBSS2-LINK B		65.2	14	14	52	54	-121.8	16.2
NT001	NT026	3		66	360	GBSS2-LINK B		42.8	-2.8	-2.8	27.7	29.7	-127.4	39
ST018	ST032	2		1		GBSS2-LINK B		65.2	14	14	58	60	-115.8	13
ST018	ST032	3		66	360	GBSS2-LINK B		42.8	-2.8	-2.8	33.7	35.7	-121.4	39
SF018	SF032	2		1		GBSS2-LINK B		65.2	14	14	58	60	-115.8	13
A0001	F0004	1		1		GBSS2-LINK B		65.2	8	8	63	63	-115.8	17.4
A0001	F0004	3		133	360	GBSS2-LINK B		39.5	-10.6	-10.6	20.6	20.6	-136.5	38.9
A0001	F0004	1		1		GBSS2-LINK B		65.2	8	8	60	60	-118.8	17.4
A0001	F0004	3		133	360	GBSS2-LINK B		44	-15	-15	17.7	17.7	-139.4	38.9
A0001	F0004	1		1		GBSS2-LINK B		65.2	8	8	57	57	-121.8	17.9
A0001	F0004	3		133	360	GBSS2-LINK B		44.5	-15.5	-15.5	14.6	14.6	-142.5	38.9

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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: 3400 INTERNATIONAL DRIVE, N.W.			
S14b. City: WASHINGTON, D.C.	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): 3070	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 4170		
S15c. Mass of spacecraft and fuel at launch (kg): 7240	S15f. Length (m): 8.6	S15i. Payload: 0.87
S15d. Mass of fuel, in orbit, at beginning of life (kg): 1290	S15g. Width (m): 4.3	S15j. Bus: 0.8
S15e. Deployed Area of Solar Array (square meters): 77.1	S15h. Height (m): 8.6	S15k. Total: 0.7

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): 12950	(f): 12950	(k): 12950	(p): 12950
Bus (Watts):	(b): 3400	(g): 2010	(l): 2400	(q): 1600
Total (Watts):	(c): 16350	(h): 14960	(m): 15350	(r): 14550
Solar Array (Watts):	(d): 20170	(i): 17780	(n): 17800	(s): 16000
Depth of Battery Discharge (%):	(e) 74 %	(j) %	(o) 80 %	(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.