

File Number: **DRAFT-SAT-LOA-20260615-00239**

Call Sign:

S1. Satellite Information

a. Space Station or Satellite Network Name	b. Orbit Type	c. Estimated Operational Lifetime of Space Station(s) From Date of Launch (yrs)	d. Will the space station(s) operate on a Common Carrier basis?	e. Application Description
F-SAT-NG-15_B	Non-Geostationary (NGSO)	10	No	WorldVu Satellites Limited petitions for a declaratory ruling granting access to the United States market for its Eutelsat Next NGSO satellite system.

S2. Operating Frequency Bands

a. Type of Service	b. If a. is Other, provide a service description	c. Satellite Frequency Band (MHz)	d. Satellite Frequency (Lower Band Edge) (MHz)	e. Satellite Frequency (Upper Band Edge) (MHz)	f. Direction of Transmission	g. Non Conforming Indicator
FSS		17800 - 18600	17800	18600	Space-to-Earth (Transmit)	No
FSS		18800 - 19300	18800	19300	Space-to-Earth (Transmit)	No
FSS		10700 - 12700	10700	12700	Space-to-Earth (Transmit)	No
FSS		19700 - 20200	19700	20200	Space-to-Earth (Transmit)	No
FSS		13750 - 14500	13750	14500	Earth-to-Space (Receive)	No
FSS		27500 - 29100	27500	29100	Earth-to-Space (Receive)	No
FSS		29500 - 30000	29500	30000	Earth-to-Space (Receive)	No

S3. NGSO Orbital Information

a. Total Number of Simultaneously Operating Satellites in Constellation	b. Total Number of Satellites Deployed During the License Term	c. Orbit Epoch Date	d. Celestial Reference Body	e. If d. is "Other", provide the name of celestial body being referenced	f. Total Number of Orbital Planes
528	528	2026-06-15	Earth		24

g. Orbital Plane Information

(i) Orbital Plane No.	(ii) Number of Satellites in Plane	(iii) Inclination Angle (°)	(iv) Inclination Angle Tolerance (+/- °)	(v) Orbital Period (seconds)	(vi) Apogee (km)	(vii) Apogee Tolerance (+/- km)	(viii) Perigee (km)	(ix) Perigee Tolerance (+/- km)	(x) Argument of Perigee (°)	(xi) Right Ascension of Ascending Node (°)	(xii) Right Ascension of Ascending Node Tolerance (+/- °)	(xiii) Active Service Arc Begin Angle with Respect to Ascending Node (°)	(xiv) Active Service Arc End Angle with Respect to Ascending Node (°)	(xv) Is additional info on the active service arc provided in the application?	(xvi) Satellite Spacing	(xvii) Phase Angle Spacing (°)	(xviii) First Satellite Initial Phase Angle (°)	(xix) Maximum Orbital Eccentricity
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1	22	60	2	6,600	1,220	70	1,220	70	0	0	0.2	-60	60	No	Irregularly -Spaced			
2	22	60	2	6,600	1,220	70	1,220	70	0	14.4	0.2	-60	60	No	Irregularly -Spaced			
3	22	60	2	6,600	1,220	70	1,220	70	0	28.8	0.2	-60	60	No	Irregularly -Spaced			
4	22	60	2	6,600	1,220	70	1,220	70	0	43.2	0.2	-60	60	No	Irregularly -Spaced			
5	22	60	2	6,600	1,220	70	1,220	70	0	57.6	0.2	-60	60	No	Irregularly -Spaced			
6	22	60	2	6,600	1,220	70	1,220	70	0	72	0.2	-60	60	No	Irregularly -Spaced			
7	22	60	2	6,600	1,220	70	1,220	70	0	86.4	0.2	-60	60	No	Irregularly -Spaced			
8	22	60	2	6,600	1,220	70	1,220	70	0	100.8	0.2	-60	60	No	Irregularly -Spaced			
9	22	60	2	6,600	1,220	70	1,220	70	0	115.2	0.2	-60	60	No	Irregularly -Spaced			
10	22	60	2	6,600	1,220	70	1,220	70	0	129.6	0.2	-60	60	No	Irregularly -Spaced			
11	22	60	2	6,600	1,220	70	1,220	70	0	144	0.2	-60	60	No	Irregularly -Spaced			
12	22	60	2	6,600	1,220	70	1,220	70	0	158.4	0.2	-60	60	No	Irregularly -Spaced			
13	22	60	2	6,600	1,220	70	1,220	70	0	172.8	0.2	-60	60	No	Irregularly -Spaced			
14	22	60	2	6,600	1,220	70	1,220	70	0	187.2	0.2	-60	60	No	Irregularly -Spaced			
15	22	60	2	6,600	1,220	70	1,220	70	0	201.6	0.2	-60	60	No	Irregularly -Spaced			
16	22	60	2	6,600	1,220	70	1,220	70	0	216	0.2	-60	60	No	Irregularly -Spaced			
17	22	60	2	6,600	1,220	70	1,220	70	0	230.4	0.2	-60	60	No	Irregularly -Spaced			
18	22	60	2	6,600	1,220	70	1,220	70	0	244.8	0.2	-60	60	No	Irregularly -Spaced			
19	22	60	2	6,600	1,220	70	1,220	70	0	259.2	0.2	-60	60	No	Irregularly -Spaced			
20	22	60	2	6,600	1,220	70	1,220	70	0	273.6	0.2	-60	60	No	Irregularly -Spaced			
21	22	60	2	6,600	1,220	70	1,220	70	0	288	0.2	-60	60	No	Irregularly -Spaced			
22	22	60	2	6,600	1,220	70	1,220	70	0	302.4	0.2	-60	60	No	Irregularly -Spaced			
23	22	60	2	6,600	1,220	70	1,220	70	0	316.8	0.2	-60	60	No	Irregularly -Spaced			
24	22	60	2	6,600	1,220	70	1,220	70	0	331.2	0.2	-60	60	No	Irregularly -Spaced			

h. Initial Phase Angle Information

(i) Orbital Plane No.	(i) Satellite No.	(ii) Initial Phase Angle (°)
1	1	0
1	2	16.36
1	3	32.72
1	4	49.09
1	5	65.45
1	6	81.81
1	7	98.18
1	8	114.54
1	9	130.9
1	10	147.27
1	11	163.63
1	12	180
1	13	196.36
1	14	212.72
1	15	229.09
1	16	245.45
1	17	261.81
1	18	278.18
1	19	294.54
1	20	310.9
1	21	327.27
1	22	343.63
2	1	3
2	2	19.36
2	3	35.72
2	4	52.09
2	5	68.45
2	6	84.81
2	7	101.18
2	8	117.54
2	9	133.9
2	10	150.27
2	11	166.63
2	12	183
2	13	199.36
2	14	215.72
2	15	232.09

2	16	248.45
2	17	264.81
2	18	281.18
2	19	297.54
2	20	313.9
2	21	330.27
2	22	346.63
3	1	0
3	2	16.36
3	3	32.72
3	4	49.09
3	5	65.45
3	6	81.81
3	7	98.18
3	8	114.54
3	9	130.9
3	10	147.27
3	11	163.63
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3	13	196.36
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3	15	229.09
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3	18	278.18
3	19	294.54
3	20	310.9
3	21	327.27
3	22	343.63
4	1	3
4	2	19.36
4	3	35.72
4	4	52.09
4	5	68.45
4	6	84.81
4	7	101.18
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24	15	232.09
24	16	248.45
24	17	264.81
24	18	281.18
24	19	297.54
24	20	313.9
24	21	330.27
24	22	346.63

S4. Earth-to-Space (Receive) Beams

a. Beam ID:	RGL1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	29100	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	No
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	Yes

j. Maximum G/T (dB/K):	0.3	w. What information will be provided with the predicted antenna gain contours?:
k. Minimum G/T (dB/K):		
l. Maximum Saturation Flux Density (dBW/m²):	-125	
m. Minimum Saturation Flux Density (dBW/m²):	-135	

a. Beam ID:	RGL2	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	29500	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	LHCP	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?: No
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?: Yes
j. Maximum G/T (dB/K):	0.3	w. What information will be provided with the predicted antenna gain contours?:
k. Minimum G/T (dB/K):		
l. Maximum Saturation Flux Density (dBW/m²):	-125	
m. Minimum Saturation Flux Density (dBW/m²):	-135	

a. Beam ID:	RGR2	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	29500	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	RHCP	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?: No
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?: Yes
j. Maximum G/T (dB/K):	0.3	w. What information will be provided with the predicted antenna gain contours?:
k. Minimum G/T (dB/K):		
l. Maximum Saturation Flux Density (dBW/m²):	-125	
m. Minimum Saturation Flux Density (dBW/m²):	-135	

a. Beam ID:	RUL1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	13750	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	14500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	LHCP	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?: No
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?: Yes
j. Maximum G/T (dB/K):	3.1	w. What information will be provided with the predicted antenna gain contours?:
k. Minimum G/T (dB/K):		

l. Maximum Saturation Flux Density (dBW/m ²):	-110	
m. Minimum Saturation Flux Density (dBW/m ²):	-130	

a. Beam ID:	RGR1	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	29100	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	No
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	Yes
j. Maximum G/T (dB/K):	0.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m ²):	-125		
m. Minimum Saturation Flux Density (dBW/m ²):	-135		

a. Beam ID:	RUR1	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	13750	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	14500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	Yes
j. Maximum G/T (dB/K):	3.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m ²):	-110		
m. Minimum Saturation Flux Density (dBW/m ²):	-130		

S5. Space-to-Earth (Transmit) Beams

a. Beam ID:	TUL1	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	10700	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	12700	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	Yes

j. Maximum Transmit EIRP Density (dBW/Ref BW):	11.9	w. What information will be provided with the predicted antenna gain contours?:											
k. Maximum Transmit EIRP (dBW):	37												
y. Max. Power-Flux Densities													
	Angles of Arrival PFD	Geographic Region PFD											
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
10700	12700	4 kHz	-158	-157	-147.5	-144	-144	-144					

a. Beam ID:	TUR1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):											
b. Beam Frequency (Lower Band Edge) (MHz):	10700	o. Peak Isotropic Antenna Gain (dBi):											
c. Beam Frequency (Upper Band Edge) (MHz):	12700	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):											
d. Polarization:	RHCP	q. Antenna Pointing Error (°):											
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):											
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:											
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:											
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:											
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?: Yes											
j. Maximum Transmit EIRP Density (dBW/Ref BW):	11.9	w. What information will be provided with the predicted antenna gain contours?:											
k. Maximum Transmit EIRP (dBW):	37												
y. Max. Power-Flux Densities													
	Angles of Arrival PFD	Geographic Region PFD											
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
10700	12700	4 kHz	-158	-157	-147.5	-144	-144	-144					

a. Beam ID:	TGL2	n. Beam Peak Flux Density at Command Threshold (dBW/m²):											
b. Beam Frequency (Lower Band Edge) (MHz):	18800	o. Peak Isotropic Antenna Gain (dBi):											
c. Beam Frequency (Upper Band Edge) (MHz):	19300	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):											
d. Polarization:	LHCP	q. Antenna Pointing Error (°):											
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):											
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:											
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:											
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:											
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?: Yes											
j. Maximum Transmit EIRP Density (dBW/Ref BW):	11.3	w. What information will be provided with the predicted antenna gain contours?:											
k. Maximum Transmit EIRP (dBW):	40												
y. Max. Power-Flux Densities													
	Angles of Arrival PFD	Geographic Region PFD											
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region	(xi) Northeastern Region	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth

Edge) (MHz)	Edge) (MHz)								(dBW/m²/BW)	(dBW/m²/BW)			(kHz)
17800	18600	1 MHz	-131.6	-130.8	-128.5	-127.5	-126	-121					

a. Beam ID:	TGL1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	17800	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	18600	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	LHCP	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?: Yes
j. Maximum Transmit EIRP Density (dBW/Ref BW):	11.3	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	40	

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
17800	18600	1 MHz	-131.6	-130.8	-128.5	-127.5	-126	-121					

a. Beam ID:	TGR1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	17800	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	18600	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	RHCP	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?: Yes
j. Maximum Transmit EIRP Density (dBW/Ref BW):	11.3	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	40	

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
17800	18600	1 MHz	-131.6	-130.8	-128.5	-127.5	-126	-121					

a. Beam ID:	TGL3	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	19700	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):

d. Polarization:	LHCP	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	Yes
j. Maximum Transmit EIRP Density (dBW/Ref BW):	11.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	40		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
17800	18600	1 MHz	-131.6	-130.8	-128.5	-127.5	-126	-121						

a. Beam ID:	TGR2	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	18800	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	19300	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	Yes
j. Maximum Transmit EIRP Density (dBW/Ref BW):	11.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	40		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
17800	18600	1 MHz	-131.6	-130.8	-128.5	-127.5	-126	-121						

a. Beam ID:	TGR3	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19700	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	Yes
j. Maximum Transmit EIRP Density (dBW/Ref BW):	11.3	w. What information will be provided with the predicted antenna gain contours?:	

k. Maximum Transmit EIRP (dBW):														40
y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
17800	18600	1 MHz	-131.6	-130.8	-128.5	-127.5	-126	-121						

S6. Space-to-Space (Receive) Beams

S7. Space-to-Space (Transmit) Beams

S8. Attachments

Beam ID	Direction of Transmission	(i) Document Type	(ii) If Document Type is "Other", provide short description	(iii) File Name
RGL1	Earth-to-Space (Receive)	Other	Receive Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ka_feeder_aa_uplink.gxt
RGL2	Earth-to-Space (Receive)	Other	Receive Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ka_feeder_aa_uplink.gxt
RGR1	Earth-to-Space (Receive)	Other	Receive Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ka_feeder_aa_uplink.gxt
RGR2	Earth-to-Space (Receive)	Other	Receive Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ka_feeder_aa_uplink.gxt
RUL1	Earth-to-Space (Receive)	Other	Receive Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ku_user_uplink.gxt
RUR1	Earth-to-Space (Receive)	Other	Receive Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ku_user_uplink.gxt
TGL1	Space-to-Earth (Transmit)	Other	Transmit Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ka_feeder_aa_downlink.gxt
TGL2	Space-to-Earth (Transmit)	Other	Transmit Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ka_feeder_aa_downlink.gxt
TGL3	Space-to-Earth (Transmit)	Other	Transmit Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ka_feeder_aa_downlink.gxt
TGR1	Space-to-Earth (Transmit)	Other	Transmit Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ka_feeder_aa_downlink.gxt
TGR2	Space-to-Earth (Transmit)	Other	Transmit Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ka_feeder_aa_downlink.gxt
TGR3	Space-to-Earth (Transmit)	Other	Transmit Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ka_feeder_aa_downlink.gxt
TUL1	Space-to-Earth (Transmit)	Other	Transmit Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ku_user_downlink.gxt
TUL1	Space-to-Earth (Transmit)	Isoline Map of Transmit Spot Beams		Composite Ku band user beam layout.jpg
TUR1	Space-to-Earth (Transmit)	Other	Transmit Antenna Gain Contour for Spot Beams pointed to Nadir and Edge of Coverage	ku_user_downlink.gxt

TUR1	Space-to-Earth (Transmit)	Isoline Map of Transmit Spot Beams		Composite Ku band user beam layout.jpg
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