

File Number: **DRAFT-SAT-PDR-20260702-00271**

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
OUTERNET	Non-Geostationary (NGSO)	5	No	Rivada requests U.S. Market Access for its NGSO satellite Constellation.

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		17300 - 20200	17300	20200	Space-to-Earth (Transmit)	No
FSS		27500 - 30000	27500	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
576	576	2029-06-01	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
1	24	89	2	6,371	1,050	30	1,050	30	0	0	0.1	-90	90	No	Evenly-Spaced	15	0	0.003
2	24	89	2	6,371	1,050	30	1,050	30	0	7.5	0.1	-90	90	No	Evenly-Spaced	15	3.75	0.003
3	24	89	2	6,371	1,050	30	1,050	30	0	15	0.1	-90	90	No	Evenly-Spaced	15	7.5	0.003
4	24	89	2	6,371	1,050	30	1,050	30	0	22.5	0.1	-90	90	No	Evenly-Spaced	15	11.25	0.003

5	24	89	2	6,371	1,050	30	1,050	30	0	30	0.1	-90	90	No	Evenly-Spaced	15	0	0.003
6	24	89	2	6,371	1,050	30	1,050	30	0	37.5	0.1	-90	90	No	Evenly-Spaced	15	3.75	0.003
7	24	89	2	6,371	1,050	30	1,050	30	0	45	0.1	-90	90	No	Evenly-Spaced	15	7.5	0.003
8	24	89	2	6,371	1,050	30	1,050	30	0	52.5	0.1	-90	90	No	Evenly-Spaced	15	11.25	0.003
9	24	89	2	6,371	1,050	30	1,050	30	0	60	0.1	-90	90	No	Evenly-Spaced	15	0	0.003
10	24	89	2	6,371	1,050	30	1,050	30	0	67.5	0.1	-90	90	No	Evenly-Spaced	15	3.75	0.003
11	24	89	2	6,371	1,050	30	1,050	30	0	75	0.1	-90	90	No	Evenly-Spaced	15	7.5	0.003
12	24	89	2	6,371	1,050	30	1,050	30	0	82.5	0.1	-90	90	No	Evenly-Spaced	15	11.25	0.003
13	24	89	2	6,371	1,050	30	1,050	30	0	90	0.1	-90	90	No	Evenly-Spaced	15	0	0.003
14	24	89	2	6,371	1,050	30	1,050	30	0	97.5	0.1	-90	90	No	Evenly-Spaced	15	3.75	0.003
15	24	89	2	6,371	1,050	30	1,050	30	0	105	0.1	-90	90	No	Evenly-Spaced	15	7.5	0.003
16	24	89	2	6,371	1,050	30	1,050	30	0	112.5	0.1	-90	90	No	Evenly-Spaced	15	11.25	0.003
17	24	89	2	6,371	1,050	30	1,050	30	0	120	0.1	-90	90	No	Evenly-Spaced	15	0	0.003
18	24	89	2	6,371	1,050	30	1,050	30	0	127.5	0.1	-90	90	No	Evenly-Spaced	15	3.75	0.003
19	24	89	2	6,371	1,050	30	1,050	30	0	135	0.1	-90	90	No	Evenly-Spaced	15	7.5	0.003
20	24	89	2	6,371	1,050	30	1,050	30	0	142.5	0.1	-90	90	No	Evenly-Spaced	15	11.25	0.003
21	24	89	2	6,371	1,050	30	1,050	30	0	150	0.1	-90	90	No	Evenly-Spaced	15	0	0.003
22	24	89	2	6,371	1,050	30	1,050	30	0	157.5	0.1	-90	90	No	Evenly-Spaced	15	3.75	0.003
23	24	89	2	6,371	1,050	30	1,050	30	0	165	0.1	-90	90	No	Evenly-Spaced	15	7.5	0.003
24	24	89	2	6,371	1,050	30	1,050	30	0	172.5	0.1	-90	90	No	Evenly-Spaced	15	11.25	0.003

h. Initial Phase Angle Information

(i) Orbital Plane No.	(i) Satellite No.	(ii) Initial Phase Angle (°)
1	1	0
1	2	15
1	3	30

1	4	45
1	5	60
1	6	75
1	7	90
1	8	105
1	9	120
1	10	135
1	11	150
1	12	165
1	13	180
1	14	195
1	15	210
1	16	225
1	17	240
1	18	255
1	19	270
1	20	285
1	21	300
1	22	315
1	23	330
1	24	345
2	1	3.75
2	2	18.75
2	3	33.75
2	4	48.75
2	5	63.75
2	6	78.75
2	7	93.75
2	8	108.75
2	9	123.75
2	10	138.75
2	11	153.75
2	12	168.75
2	13	183.75
2	14	198.75
2	15	213.75
2	16	228.75
2	17	243.75
2	18	258.75
2	19	273.75
2	20	288.75
2	21	303.75

2	22	318.75
2	23	333.75
2	24	348.75
3	1	7.5
3	2	22.5
3	3	37.5
3	4	52.5
3	5	67.5
3	6	82.5
3	7	97.5
3	8	112.5
3	9	127.5
3	10	142.5
3	11	157.5
3	12	172.5
3	13	187.5
3	14	202.5
3	15	217.5
3	16	232.5
3	17	247.5
3	18	262.5
3	19	277.5
3	20	292.5
3	21	307.5
3	22	322.5
3	23	337.5
3	24	352.5
4	1	11.25
4	2	26.25
4	3	41.25
4	4	56.25
4	5	71.25
4	6	86.25
4	7	101.25
4	8	116.25
4	9	131.25
4	10	146.25
4	11	161.25
4	12	176.25
4	13	191.25
4	14	206.25
4	15	221.25

4	16	236.25
4	17	251.25
4	18	266.25
4	19	281.25
4	20	296.25
4	21	311.25
4	22	326.25
4	23	341.25
4	24	356.25
5	1	0
5	2	15
5	3	30
5	4	45
5	5	60
5	6	75
5	7	90
5	8	105
5	9	120
5	10	135
5	11	150
5	12	165
5	13	180
5	14	195
5	15	210
5	16	225
5	17	240
5	18	255
5	19	270
5	20	285
5	21	300
5	22	315
5	23	330
5	24	345
6	1	3.75
6	2	18.75
6	3	33.75
6	4	48.75
6	5	63.75
6	6	78.75
6	7	93.75
6	8	108.75
6	9	123.75

6	10	138.75
6	11	153.75
6	12	168.75
6	13	183.75
6	14	198.75
6	15	213.75
6	16	228.75
6	17	243.75
6	18	258.75
6	19	273.75
6	20	288.75
6	21	303.75
6	22	318.75
6	23	333.75
6	24	348.75
7	1	7.5
7	2	22.5
7	3	37.5
7	4	52.5
7	5	67.5
7	6	82.5
7	7	97.5
7	8	112.5
7	9	127.5
7	10	142.5
7	11	157.5
7	12	172.5
7	13	187.5
7	14	202.5
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7	16	232.5
7	17	247.5
7	18	262.5
7	19	277.5
7	20	292.5
7	21	307.5
7	22	322.5
7	23	337.5
7	24	352.5
8	1	11.25
8	2	26.25
8	3	41.25

8	4	56.25
8	5	71.25
8	6	86.25
8	7	101.25
8	8	116.25
8	9	131.25
8	10	146.25
8	11	161.25
8	12	176.25
8	13	191.25
8	14	206.25
8	15	221.25
8	16	236.25
8	17	251.25
8	18	266.25
8	19	281.25
8	20	296.25
8	21	311.25
8	22	326.25
8	23	341.25
8	24	356.25
9	1	0
9	2	15
9	3	30
9	4	45
9	5	60
9	6	75
9	7	90
9	8	105
9	9	120
9	10	135
9	11	150
9	12	165
9	13	180
9	14	195
9	15	210
9	16	225
9	17	240
9	18	255
9	19	270
9	20	285
9	21	300

9	22	315
9	23	330
9	24	345
10	1	3.75
10	2	18.75
10	3	33.75
10	4	48.75
10	5	63.75
10	6	78.75
10	7	93.75
10	8	108.75
10	9	123.75
10	10	138.75
10	11	153.75
10	12	168.75
10	13	183.75
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10	15	213.75
10	16	228.75
10	17	243.75
10	18	258.75
10	19	273.75
10	20	288.75
10	21	303.75
10	22	318.75
10	23	333.75
10	24	348.75
11	1	7.5
11	2	22.5
11	3	37.5
11	4	52.5
11	5	67.5
11	6	82.5
11	7	97.5
11	8	112.5
11	9	127.5
11	10	142.5
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11	23	337.5
11	24	352.5
12	1	11.25
12	2	26.25
12	3	41.25
12	4	56.25
12	5	71.25
12	6	86.25
12	7	101.25
12	8	116.25
12	9	131.25
12	10	146.25
12	11	161.25
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12	14	206.25
12	15	221.25
12	16	236.25
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12	18	266.25
12	19	281.25
12	20	296.25
12	21	311.25
12	22	326.25
12	23	341.25
12	24	356.25
13	1	0
13	2	15
13	3	30
13	4	45
13	5	60
13	6	75
13	7	90
13	8	105
13	9	120

13	10	135
13	11	150
13	12	165
13	13	180
13	14	195
13	15	210
13	16	225
13	17	240
13	18	255
13	19	270
13	20	285
13	21	300
13	22	315
13	23	330
13	24	345
14	1	3.75
14	2	18.75
14	3	33.75
14	4	48.75
14	5	63.75
14	6	78.75
14	7	93.75
14	8	108.75
14	9	123.75
14	10	138.75
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14	17	243.75
14	18	258.75
14	19	273.75
14	20	288.75
14	21	303.75
14	22	318.75
14	23	333.75
14	24	348.75
15	1	7.5
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15	20	292.5
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15	22	322.5
15	23	337.5
15	24	352.5
16	1	11.25
16	2	26.25
16	3	41.25
16	4	56.25
16	5	71.25
16	6	86.25
16	7	101.25
16	8	116.25
16	9	131.25
16	10	146.25
16	11	161.25
16	12	176.25
16	13	191.25
16	14	206.25
16	15	221.25
16	16	236.25
16	17	251.25
16	18	266.25
16	19	281.25
16	20	296.25
16	21	311.25

16	22	326.25
16	23	341.25
16	24	356.25
17	1	0
17	2	15
17	3	30
17	4	45
17	5	60
17	6	75
17	7	90
17	8	105
17	9	120
17	10	135
17	11	150
17	12	165
17	13	180
17	14	195
17	15	210
17	16	225
17	17	240
17	18	255
17	19	270
17	20	285
17	21	300
17	22	315
17	23	330
17	24	345
18	1	3.75
18	2	18.75
18	3	33.75
18	4	48.75
18	5	63.75
18	6	78.75
18	7	93.75
18	8	108.75
18	9	123.75
18	10	138.75
18	11	153.75
18	12	168.75
18	13	183.75
18	14	198.75
18	15	213.75

18	16	228.75
18	17	243.75
18	18	258.75
18	19	273.75
18	20	288.75
18	21	303.75
18	22	318.75
18	23	333.75
18	24	348.75
19	1	7.5
19	2	22.5
19	3	37.5
19	4	52.5
19	5	67.5
19	6	82.5
19	7	97.5
19	8	112.5
19	9	127.5
19	10	142.5
19	11	157.5
19	12	172.5
19	13	187.5
19	14	202.5
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19	16	232.5
19	17	247.5
19	18	262.5
19	19	277.5
19	20	292.5
19	21	307.5
19	22	322.5
19	23	337.5
19	24	352.5
20	1	11.25
20	2	26.25
20	3	41.25
20	4	56.25
20	5	71.25
20	6	86.25
20	7	101.25
20	8	116.25
20	9	131.25

20	10	146.25
20	11	161.25
20	12	176.25
20	13	191.25
20	14	206.25
20	15	221.25
20	16	236.25
20	17	251.25
20	18	266.25
20	19	281.25
20	20	296.25
20	21	311.25
20	22	326.25
20	23	341.25
20	24	356.25
21	1	0
21	2	15
21	3	30
21	4	45
21	5	60
21	6	75
21	7	90
21	8	105
21	9	120
21	10	135
21	11	150
21	12	165
21	13	180
21	14	195
21	15	210
21	16	225
21	17	240
21	18	255
21	19	270
21	20	285
21	21	300
21	22	315
21	23	330
21	24	345
22	1	3.75
22	2	18.75
22	3	33.75

22	4	48.75
22	5	63.75
22	6	78.75
22	7	93.75
22	8	108.75
22	9	123.75
22	10	138.75
22	11	153.75
22	12	168.75
22	13	183.75
22	14	198.75
22	15	213.75
22	16	228.75
22	17	243.75
22	18	258.75
22	19	273.75
22	20	288.75
22	21	303.75
22	22	318.75
22	23	333.75
22	24	348.75
23	1	7.5
23	2	22.5
23	3	37.5
23	4	52.5
23	5	67.5
23	6	82.5
23	7	97.5
23	8	112.5
23	9	127.5
23	10	142.5
23	11	157.5
23	12	172.5
23	13	187.5
23	14	202.5
23	15	217.5
23	16	232.5
23	17	247.5
23	18	262.5
23	19	277.5
23	20	292.5
23	21	307.5

23	22	322.5
23	23	337.5
23	24	352.5
24	1	11.25
24	2	26.25
24	3	41.25
24	4	56.25
24	5	71.25
24	6	86.25
24	7	101.25
24	8	116.25
24	9	131.25
24	10	146.25
24	11	161.25
24	12	176.25
24	13	191.25
24	14	206.25
24	15	221.25
24	16	236.25
24	17	251.25
24	18	266.25
24	19	281.25
24	20	296.25
24	21	311.25
24	22	326.25
24	23	341.25
24	24	356.25

S4. Earth-to-Space (Receive) Beams

a. Beam ID:	R3	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):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.2
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.2
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?:	25.114(c)(4)(vi)(D) (NGSO)
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):	No	v. Are all space stations in the NGSO constellation identical?:	Yes
j. Maximum G/T (dB/K):	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):			

m. Minimum Saturation Flux Density (dBW/m²):

a. Beam ID:	R4	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):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.2
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.2
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?:	25.114(c)(4)(vi)(D) (NGSO)
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):	No	v. Are all space stations in the NGSO constellation identical?:	Yes
j. Maximum G/T (dB/K):	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):			
m. Minimum Saturation Flux Density (dBW/m ²):			

a. Beam ID:	R2	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):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.2
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.2
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?:	25.114(c)(4)(vi)(D) (NGSO)
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):	No	v. Are all space stations in the NGSO constellation identical?:	Yes
j. Maximum G/T (dB/K):	6	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):			
m. Minimum Saturation Flux Density (dBW/m ²):			

a. Beam ID:	R1	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):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.2
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.2
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?:	25.114(c)(4)(vi)(D) (NGSO)
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):	No	v. Are all space stations in the NGSO constellation identical?:	Yes
j. Maximum G/T (dB/K):	6	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):			
m. Minimum Saturation Flux Density (dBW/m ²):			

S5. Space-to-Earth (Transmit) Beams

a. Beam ID:	T4	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):
b. Beam Frequency (Lower Band Edge) (MHz):	17300	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 (°): 0.2
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°): 0.2
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?: 25.114(c)(4)(vi)(D) (NGSO)
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):	No	v. Are all space stations in the NGSO constellation identical?: Yes
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-50	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	10	

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/m ² /BW)	(v) 2-5° (dBW/m ² /BW)	(vi) 5-15° (dBW/m ² /BW)	(vii) 15-20° (dBW/m ² /BW)	(viii) 20-25° (dBW/m ² /BW)	(ix) 25-90° (dBW/m ² /BW)	(x) Southeastern Region (dBW/m ² /BW)	(xi) Northeastern Region (dBW/m ² /BW)	(xii) Western Region (dBW/m ² /BW)	(xiii) Other Region (dBW/m ² /BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
17300	20200	1 MHz	-138.3	-136.6	-128.9	-127.9	-126.9	-125						

a. Beam ID:	T2	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):
b. Beam Frequency (Lower Band Edge) (MHz):	17300	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 (°): 0.2
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°): 0.2
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?: 25.114(c)(4)(vi)(D) (NGSO)
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):	No	v. Are all space stations in the NGSO constellation identical?: Yes
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-44.1	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	15.9	

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/m ² /BW)	(v) 2-5° (dBW/m ² /BW)	(vi) 5-15° (dBW/m ² /BW)	(vii) 15-20° (dBW/m ² /BW)	(viii) 20-25° (dBW/m ² /BW)	(ix) 25-90° (dBW/m ² /BW)	(x) Southeastern Region (dBW/m ² /BW)	(xi) Northeastern Region (dBW/m ² /BW)	(xii) Western Region (dBW/m ² /BW)	(xiii) Other Region (dBW/m ² /BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
17300	20200	1 MHz	-132.4	-130.7	-123	-123	-123	-123						

a. Beam ID:	T3	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):
b. Beam Frequency (Lower Band Edge) (MHz):	17300	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 (°):	0.2
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.2
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?:	25.114(c)(4)(vi)(D) (NGSO)
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):	No	v. Are all space stations in the NGSO constellation identical?:	Yes
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-50	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	10		

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)	
17300	20200	1 MHz	-138.3	-136.6	-128.9	-127.9	-126.9	-125						

a. Beam ID:	T1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17300	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 (°):	0.2
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.2
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?:	25.114(c)(4)(vi)(D) (NGSO)
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):	No	v. Are all space stations in the NGSO constellation identical?:	Yes
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-44.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	15.9		

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)	
17300	20200	1 MHz	-132.4	-130.7	-123	-123	-123	-123						

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
R1	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		Gain Contours.png

R2	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		Gain Contours.png
R3	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		Gain Contours.png
R4	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		Gain Contours.png
T1	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		Gain Contours.png
T2	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		Gain Contours.png
T3	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		Gain Contours.png
T4	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		Gain Contours.png