

1	32	0.001	3	17,280	8,062	30	8,062	30	0	0	3	0	360	No	Evenly-Spaced	11	0	0.1
2	2	0.001	3	17,280	8,062	30	8,062	30	0	0	3	0	360	No	Evenly-Spaced	11	0	0.1
3	8	55	3	17,280	8,062	30	8,062	30	0	0	3	0	360	No	Evenly-Spaced	45	0	0.1
4	8	55	3	17,280	8,062	30	8,062	30	0	60	3	0	360	No	Evenly-Spaced	45	7.5	0.1
5	8	55	3	17,280	8,062	30	8,062	30	0	120	3	0	360	No	Evenly-Spaced	45	15	0.1
6	8	55	3	17,280	8,062	30	8,062	30	0	180	3	0	360	No	Evenly-Spaced	45	22.5	0.1
7	8	55	3	17,280	8,062	30	8,062	30	0	240	3	0	360	No	Evenly-Spaced	45	30	0.1
8	8	55	3	17,280	8,062	30	8,062	30	0	300	3	0	360	No	Evenly-Spaced	45	37.5	0.1
9	8	49	3	17,280	8,062	30	8,062	30	0	30	3	0	360	No	Evenly-Spaced	45	0	0.1
10	8	49	3	17,280	8,062	30	8,062	30	0	150	3	0	360	No	Evenly-Spaced	45	15	0.1
11	8	49	3	17,280	8,062	30	8,062	30	0	270	3	0	360	No	Evenly-Spaced	45	30	0.1

h. Initial Phase Angle Information

(i) Orbital Plane No.	(i) Satellite No.	(ii) Initial Phase Angle (°)
1	1	0
1	2	11
1	3	22
1	4	33
1	5	44
1	6	55
1	7	66
1	8	77
1	9	88
1	10	99
1	11	110
1	12	121
1	13	132
1	14	143
1	15	154
1	16	165
1	17	176
1	18	187

1	19	198
1	20	209
1	21	220
1	22	231
1	23	242
1	24	253
1	25	264
1	26	275
1	27	286
1	28	297
1	29	308
1	30	319
1	31	330
1	32	341
2	1	0
2	2	11
3	1	0
3	2	45
3	3	90
3	4	135
3	5	180
3	6	225
3	7	270
3	8	315
4	1	7.5
4	2	52.5
4	3	97.5
4	4	142.5
4	5	187.5
4	6	232.5
4	7	277.5
4	8	322.5
5	1	15
5	2	60
5	3	105
5	4	150
5	5	195
5	6	240
5	7	285
5	8	330
6	1	22.5
6	2	67.5

6	3	112.5
6	4	157.5
6	5	202.5
6	6	247.5
6	7	292.5
6	8	337.5
7	1	30
7	2	75
7	3	120
7	4	165
7	5	210
7	6	255
7	7	300
7	8	345
8	1	37.5
8	2	82.5
8	3	127.5
8	4	172.5
8	5	217.5
8	6	262.5
8	7	307.5
8	8	352.5
9	1	0
9	2	45
9	3	90
9	4	135
9	5	180
9	6	225
9	7	270
9	8	315
10	1	15
10	2	60
10	3	105
10	4	150
10	5	195
10	6	240
10	7	285
10	8	330
11	1	30
11	2	75
11	3	120
11	4	165

11	5	210
11	6	255
11	7	300
11	8	345

S4. Earth-to-Space (Receive) Beams

a. Beam ID:	UR1G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27600	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	27900	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	7		
l. Maximum Saturation Flux Density (dBW/m²):	-55		
m. Minimum Saturation Flux Density (dBW/m²):	-101		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R1L	300	27750	27600	27900	Service Link	

a. Beam ID:	UR6G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27600	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	27900	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	7		
l. Maximum Saturation Flux Density (dBW/m²):	-55		
m. Minimum Saturation Flux Density (dBW/m²):	-101		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R1R	300	27750	27600	27900	Service Link	

a. Beam ID:	UR7G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):				
b. Beam Frequency (Lower Band Edge) (MHz):	27890	o. Peak Isotropic Antenna Gain (dBi):	35			
c. Beam Frequency (Upper Band Edge) (MHz):	28150	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5			
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):	No	v. Are all space stations in the NGSO constellation identical?:				
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	7					
l. Maximum Saturation Flux Density (dBW/m²):	-55					
m. Minimum Saturation Flux Density (dBW/m²):	-101					
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R2R	260	28020	27890	28150	Service Link	

a. Beam ID:	UR9N	n. Beam Peak Flux Density at Command Threshold (dBW/m²):				
b. Beam Frequency (Lower Band Edge) (MHz):	28600	o. Peak Isotropic Antenna Gain (dBi):	35			
c. Beam Frequency (Upper Band Edge) (MHz):	28850	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5			
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):	No	v. Are all space stations in the NGSO constellation identical?:				
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	7					
l. Maximum Saturation Flux Density (dBW/m²):	-55					
m. Minimum Saturation Flux Density (dBW/m²):	-101					
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R4R	250	28725	28600	28850	Service Link	

a. Beam ID:	V2RU	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	47200	o. Peak Isotropic Antenna Gain (dBi):	44
c. Beam Frequency (Upper Band Edge) (MHz):	50200	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):	Yes	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?:				
j. Maximum G/T (dB/K):	14.2	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	14.2					
l. Maximum Saturation Flux Density (dBW/m²):	-60					
m. Minimum Saturation Flux Density (dBW/m²):	-90					
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
VU01	1000	47700	47200	48200	Feeder Link	
VU02	1000	48700	48200	49200	Feeder Link	
VU03	1000	49700	49200	50200	Feeder Link	

a. Beam ID:	CMD5	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-60			
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	12			
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5			
f. Is this a command beam? (Check box if Yes):	Yes	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):	No	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?:				
j. Maximum G/T (dB/K):	-20	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	-20					
l. Maximum Saturation Flux Density (dBW/m²):						
m. Minimum Saturation Flux Density (dBW/m²):						
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
C001	5	29097.5	29095	29100	TT&C	
TC1	1.2	29088.5	29087.9	29089.1	TT&C	
C003	2500	28750	27500	30000	TT&C	

a. Beam ID:	UR8G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	28140	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	28400	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	7		

l. Maximum Saturation Flux Density (dBW/m²):		-55				
m. Minimum Saturation Flux Density (dBW/m²):		-101				
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R3R	260	28270	28140	28400	Service Link	

a. Beam ID:	UR4N	n. Beam Peak Flux Density at Command Threshold (dBW/m²):				
b. Beam Frequency (Lower Band Edge) (MHz):	28600	o. Peak Isotropic Antenna Gain (dBi):	35			
c. Beam Frequency (Upper Band Edge) (MHz):	28850	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5			
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):	No	v. Are all space stations in the NGSO constellation identical?:				
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	7					
l. Maximum Saturation Flux Density (dBW/m²):	-55					
m. Minimum Saturation Flux Density (dBW/m²):	-101					
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R4L	250	28725	28600	28850	Service Link	

a. Beam ID:	GR1N	n. Beam Peak Flux Density at Command Threshold (dBW/m²):				
b. Beam Frequency (Lower Band Edge) (MHz):	28600	o. Peak Isotropic Antenna Gain (dBi):	35			
c. Beam Frequency (Upper Band Edge) (MHz):	29087.5	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5			
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):	No	v. Are all space stations in the NGSO constellation identical?:				
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	7					
l. Maximum Saturation Flux Density (dBW/m²):	-55					
m. Minimum Saturation Flux Density (dBW/m²):	-98					
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R4R	250	28725	28600	28850	Service Link	
R5R	250	28962.5	28837.5	29087.5	Service Link	

a. Beam ID:	UR10	n. Beam Peak Flux Density at Command Threshold (dBW/m²):				
b. Beam Frequency (Lower Band Edge) (MHz):	28837.5	o. Peak Isotropic Antenna Gain (dBi):	35			
c. Beam Frequency (Upper Band Edge) (MHz):	29087.5	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5			
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):	No	v. Are all space stations in the NGSO constellation identical?:				
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	7					
l. Maximum Saturation Flux Density (dBW/m²):	-55					
m. Minimum Saturation Flux Density (dBW/m²):	-101					
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R5R	250	28962.5	28837.5	29087.5	Service Link	

a. Beam ID:	GR3G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):				
b. Beam Frequency (Lower Band Edge) (MHz):	29500	o. Peak Isotropic Antenna Gain (dBi):	35			
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5			
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):	No	v. Are all space stations in the NGSO constellation identical?:				
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	7					
l. Maximum Saturation Flux Density (dBW/m²):	-55					
m. Minimum Saturation Flux Density (dBW/m²):	-98					
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R6R	500	29750	29500	30000	Service Link	
R6L	500	29750	29500	30000	Service Link	

a. Beam ID:	UR11	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	29500	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	7		
l. Maximum Saturation Flux Density (dBW/m²):	-55		
m. Minimum Saturation Flux Density (dBW/m²):	-101		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R6L	500	29750	29500	30000	Service Link	

a. Beam ID:	CMD6	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-60
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	12
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
f. Is this a command beam? (Check box if Yes):	Yes	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):	No	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?:	
j. Maximum G/T (dB/K):	-20	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	-20		
l. Maximum Saturation Flux Density (dBW/m²):			
m. Minimum Saturation Flux Density (dBW/m²):			

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
C001	5	29097.5	29095	29100	TT&C	
TC1	1.2	29088.5	29087.9	29089.1	TT&C	
C003	2500	28750	27500	30000	TT&C	

a. Beam ID:	RHL1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	43.2
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	Yes	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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	19.2	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	19.2		
l. Maximum Saturation Flux Density (dBW/m²):	-55		
m. Minimum Saturation Flux Density (dBW/m²):	-90		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R2R	260	28020	27890	28150	Service Link	
R4L	250	28725	28600	28850	Service Link	
R5L	250	28962.5	28837.5	29087.5	Service Link	
C001	5	29097.5	29095	29100	TT&C	
C002	20	29090	29080	29100	TT&C	
R5R	250	28962.5	28837.5	29087.5	Service Link	
R1R	300	27750	27600	27900	Service Link	
R6R	500	29750	29500	30000	Service Link	
TC1	1.2	29088.5	29087.9	29089.1	TT&C	
R6L	500	29750	29500	30000	Service Link	
R1L	300	27750	27600	27900	Service Link	
R001	2500	28750	27500	30000	Service Link	
R3L	260	28270	28140	28400	Service Link	
R2L	260	28020	27890	28150	Service Link	
R4R	250	28725	28600	28850	Service Link	
R3R	260	28270	28140	28400	Service Link	

a. Beam ID:	RR1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	Yes	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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	11	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	11		
l. Maximum Saturation Flux Density (dBW/m²):	-55		
m. Minimum Saturation Flux Density (dBW/m²):	-90		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R6R	500	29750	29500	30000	Service Link	
R4R	250	28725	28600	28850	Service Link	
R3R	260	28270	28140	28400	Service Link	
R1R	300	27750	27600	27900	Service Link	
R001	2500	28750	27500	30000	Service Link	
R5R	250	28962.5	28837.5	29087.5	Service Link	
R2R	260	28020	27890	28150	Service Link	

a. Beam ID:	GR1G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27600	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	28400	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	7		
l. Maximum Saturation Flux Density (dBW/m²):	-55		
m. Minimum Saturation Flux Density (dBW/m²):	-98		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R3R	260	28270	28140	28400	Service Link	
R2R	260	28020	27890	28150	Service Link	
R1R	300	27750	27600	27900	Service Link	

a. Beam ID:	UR3G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	28140	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	28400	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	7		
l. Maximum Saturation Flux Density (dBW/m²):	-55		
m. Minimum Saturation Flux Density (dBW/m²):	-101		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R3L	260	28270	28140	28400	Service Link	

a. Beam ID:	GR2N	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	28600	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	29087.5	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:
k. Minimum G/T (dB/K):	7	
l. Maximum Saturation Flux Density (dBW/m²):	-55	
m. Minimum Saturation Flux Density (dBW/m²):	-98	

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R4L	250	28725	28600	28850	Service Link	
R5L	250	28962.5	28837.5	29087.5	Service Link	

a. Beam ID:	GR4G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	29500	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	7		
l. Maximum Saturation Flux Density (dBW/m²):	-55		
m. Minimum Saturation Flux Density (dBW/m²):	-98		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R6L	500	29750	29500	30000	Service Link	
R6R	500	29750	29500	30000	Service Link	

a. Beam ID:	RHR1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	43.2
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	Yes	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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	19.2	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	19.2		
l. Maximum Saturation Flux Density (dBW/m²):	-55		

m. Minimum Saturation Flux Density (dBW/m²):			-90			
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R6L	500	29750	29500	30000	Service Link	
R001	2500	28750	27500	30000	Service Link	
C002	20	29090	29080	29100	TT&C	
R3L	260	28270	28140	28400	Service Link	
R2L	260	28020	27890	28150	Service Link	
C001	5	29097.5	29095	29100	TT&C	
R4R	250	28725	28600	28850	Service Link	
R1L	300	27750	27600	27900	Service Link	
R5R	250	28962.5	28837.5	29087.5	Service Link	
R6R	500	29750	29500	30000	Service Link	
TC1	1.2	29088.5	29087.9	29089.1	TT&C	
R2R	260	28020	27890	28150	Service Link	
R3R	260	28270	28140	28400	Service Link	
R4L	250	28725	28600	28850	Service Link	
R1R	300	27750	27600	27900	Service Link	
R5L	250	28962.5	28837.5	29087.5	Service Link	

a. Beam ID:	CMD3	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-60			
b. Beam Frequency (Lower Band Edge) (MHz):	29080	o. Peak Isotropic Antenna Gain (dBi):	12			
c. Beam Frequency (Upper Band Edge) (MHz):	29100	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5			
f. Is this a command beam? (Check box if Yes):	Yes	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):	No	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?:				
j. Maximum G/T (dB/K):	-20	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	-20					
l. Maximum Saturation Flux Density (dBW/m²):						
m. Minimum Saturation Flux Density (dBW/m²):						
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
C001	5	29097.5	29095	29100	TT&C	
TC1	1.2	29088.5	29087.9	29089.1	TT&C	
C002	20	29090	29080	29100	TT&C	

a. Beam ID:	V3LU	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	48200	o. Peak Isotropic Antenna Gain (dBi):	44

c. Beam Frequency (Upper Band Edge) (MHz):	50200	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):	Yes	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?:	
j. Maximum G/T (dB/K):	14.2	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	14.2		
l. Maximum Saturation Flux Density (dBW/m²):	-70		
m. Minimum Saturation Flux Density (dBW/m²):	-100		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
UV01	125	48262.5	48200	48325	Service Link	
UV04	125	48637.5	48575	48700	Service Link	
UV05	125	48762.5	48700	48825	Service Link	
UV08	125	49137.5	49075	49200	Service Link	
UV11	125	49512.5	49450	49575	Service Link	
UV12	125	49637.5	49575	49700	Service Link	
UV13	125	49762.5	49700	49825	Service Link	
UV14	125	49887.5	49825	49950	Service Link	
UV15	125	50012.5	49950	50075	Service Link	
UV16	125	50137.5	50075	50200	Service Link	
UV02	125	48387.5	48325	48450	Service Link	
UV03	125	48512.5	48450	48575	Service Link	
UV07	125	49012.5	48950	49075	Service Link	
UV06	125	48887.5	48825	48950	Service Link	
UV09	125	49262.5	49200	49325	Service Link	
UV10	125	49387.5	49325	49450	Service Link	

a. Beam ID:	CMD	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-80
b. Beam Frequency (Lower Band Edge) (MHz):	29087.9	o. Peak Isotropic Antenna Gain (dBi):	12
c. Beam Frequency (Upper Band Edge) (MHz):	29089.1	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
f. Is this a command beam? (Check box if Yes):	Yes	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):	No	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?:	
j. Maximum G/T (dB/K):	-20	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	-20		
l. Maximum Saturation Flux Density (dBW/m²):			

m. Minimum Saturation Flux Density (dBW/m²):						
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
TC1	1.1	29088.5	29087.95	29089.05	TT&C	

a. Beam ID:	CMD1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-60			
b. Beam Frequency (Lower Band Edge) (MHz):	29095	o. Peak Isotropic Antenna Gain (dBi):	12			
c. Beam Frequency (Upper Band Edge) (MHz):	29100	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5			
f. Is this a command beam? (Check box if Yes):	Yes	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):	No	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?:				
j. Maximum G/T (dB/K):	-20	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	-20					
l. Maximum Saturation Flux Density (dBW/m²):						
m. Minimum Saturation Flux Density (dBW/m²):						
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
C001	5	29097.5	29095	29100	TT&C	

a. Beam ID:	CMD2	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-60			
b. Beam Frequency (Lower Band Edge) (MHz):	29095	o. Peak Isotropic Antenna Gain (dBi):	12			
c. Beam Frequency (Upper Band Edge) (MHz):	29100	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5			
f. Is this a command beam? (Check box if Yes):	Yes	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):	No	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?:				
j. Maximum G/T (dB/K):	-20	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	-20					
l. Maximum Saturation Flux Density (dBW/m²):						
m. Minimum Saturation Flux Density (dBW/m²):						
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
C001	5	29097.5	29095	29100	TT&C	

a. Beam ID:	CMD4	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-60
b. Beam Frequency (Lower Band Edge) (MHz):	29080	o. Peak Isotropic Antenna Gain (dBi):	12

c. Beam Frequency (Upper Band Edge) (MHz):	29100	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
f. Is this a command beam? (Check box if Yes):	Yes	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):	No	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?:	
j. Maximum G/T (dB/K):	-20	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	-20		
l. Maximum Saturation Flux Density (dBW/m²):			
m. Minimum Saturation Flux Density (dBW/m²):			

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
C001	5	29097.5	29095	29100	TT&C	
TC1	1.2	29088.5	29087.9	29089.1	TT&C	
C002	20	29090	29080	29100	TT&C	

a. Beam ID:	RL1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	Yes	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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	11	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	11		
l. Maximum Saturation Flux Density (dBW/m²):	-55		
m. Minimum Saturation Flux Density (dBW/m²):	-90		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R1L	300	27750	27600	27900	Service Link	
R001	2500	28750	27500	30000	Service Link	
R3L	260	28270	28140	28400	Service Link	
R6L	500	29750	29500	30000	Service Link	
R5L	250	28962.5	28837.5	29087.5	Service Link	
R2L	260	28020	27890	28150	Service Link	
R4L	250	28725	28600	28850	Service Link	

a. Beam ID:	GR2G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
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b. Beam Frequency (Lower Band Edge) (MHz):	27600	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	28400	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	7		
l. Maximum Saturation Flux Density (dBW/m²):	-55		
m. Minimum Saturation Flux Density (dBW/m²):	-98		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R2L	260	28020	27890	28150	Service Link	
R3L	260	28270	28140	28400	Service Link	
R1L	300	27750	27600	27900	Service Link	

a. Beam ID:	UR5N	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	28837.5	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	29087.5	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	7		
l. Maximum Saturation Flux Density (dBW/m²):	-55		
m. Minimum Saturation Flux Density (dBW/m²):	-101		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R5L	250	28962.5	28837.5	29087.5	Service Link	

a. Beam ID:	UR12	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	29500	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:
k. Minimum G/T (dB/K):	7	
l. Maximum Saturation Flux Density (dBW/m²):	-55	
m. Minimum Saturation Flux Density (dBW/m²):	-101	

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R6R	500	29750	29500	30000	Service Link	

a. Beam ID:	V4RU	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	50400	o. Peak Isotropic Antenna Gain (dBi):	44.4
c. Beam Frequency (Upper Band Edge) (MHz):	51400	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):	Yes	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?:	
j. Maximum G/T (dB/K):	14.6	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	14.6		
l. Maximum Saturation Flux Density (dBW/m²):	-60		
m. Minimum Saturation Flux Density (dBW/m²):	-90		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
VU04	1000	50900	50400	51400	Feeder Link	

a. Beam ID:	V3RU	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	48200	o. Peak Isotropic Antenna Gain (dBi):	44
c. Beam Frequency (Upper Band Edge) (MHz):	50200	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):	Yes	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?:	
j. Maximum G/T (dB/K):	14.2	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	14.2		
l. Maximum Saturation Flux Density (dBW/m²):	-70		
m. Minimum Saturation Flux Density (dBW/m²):	-100		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication

			Band Edge) (MHz)	Band Edge) (MHz)		
UV01	125	48262.5	48200	48325	Service Link	
UV04	125	48637.5	48575	48700	Service Link	
UV05	125	48762.5	48700	48825	Service Link	
UV08	125	49137.5	49075	49200	Service Link	
UV11	125	49512.5	49450	49575	Service Link	
UV12	125	49637.5	49575	49700	Service Link	
UV13	125	49762.5	49700	49825	Service Link	
UV14	125	49887.5	49825	49950	Service Link	
UV15	125	50012.5	49950	50075	Service Link	
UV16	125	50137.5	50075	50200	Service Link	
UV02	125	48387.5	48325	48450	Service Link	
UV03	125	48512.5	48450	48575	Service Link	
UV07	125	49012.5	48950	49075	Service Link	
UV06	125	48887.5	48825	48950	Service Link	
UV09	125	49262.5	49200	49325	Service Link	
UV10	125	49387.5	49325	49450	Service Link	

a. Beam ID:	V4LU	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	50400	o. Peak Isotropic Antenna Gain (dBi):	44.4
c. Beam Frequency (Upper Band Edge) (MHz):	51400	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):	Yes	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?:	
j. Maximum G/T (dB/K):	14.6	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	14.6		
l. Maximum Saturation Flux Density (dBW/m²):	-60		
m. Minimum Saturation Flux Density (dBW/m²):	-90		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
VU04	1000	50900	50400	51400	Feeder Link	

a. Beam ID:	UR2G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27890	o. Peak Isotropic Antenna Gain (dBi):	35
c. Beam Frequency (Upper Band Edge) (MHz):	28150	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:				
j. Maximum G/T (dB/K):	7	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	7					
l. Maximum Saturation Flux Density (dBW/m²):	-55					
m. Minimum Saturation Flux Density (dBW/m²):	-101					
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
R2L	260	28020	27890	28150	Service Link	

a. Beam ID:	V2LU	n. Beam Peak Flux Density at Command Threshold (dBW/m²):				
b. Beam Frequency (Lower Band Edge) (MHz):	47200	o. Peak Isotropic Antenna Gain (dBi):	44			
c. Beam Frequency (Upper Band Edge) (MHz):	50200	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):	Yes	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?:				
j. Maximum G/T (dB/K):	14.2	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):	14.2					
l. Maximum Saturation Flux Density (dBW/m²):	-60					
m. Minimum Saturation Flux Density (dBW/m²):	-90					
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
VU01	1000	47700	47200	48200	Feeder Link	
VU02	1000	48700	48200	49200	Feeder Link	
VU03	1000	49700	49200	50200	Feeder Link	

S5. Space-to-Earth (Transmit) Beams

a. Beam ID:	GT2G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17800	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	18600	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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?:	

j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:											
k. Maximum Transmit EIRP (dBW):	49.7												
x. Transmit Channels													
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication							
T3L	260	18470	18340	18600	Service Link								
T2L	260	18220	18090	18350	Service Link								
T1L	300	17950	17800	18100	Service Link								
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)
		1 MHz	-119.2	-119.2	-118.5	-118.2	-118	-115.7					

a. Beam ID:	UT1G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17800	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	18100	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels													
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication							
T1R	300	17950	17800	18100	Service Link								
T1L	300	17950	17800	18100	Service Link								
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)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

a. Beam ID:	GT2N	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	18800	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	19287.5	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6

e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
T4L	250	18925	18800	19050	Service Link	
T5L	250	19162.5	19037.5	19287.5	Service Link	

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)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

a. Beam ID:	THR1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17700	o. Peak Isotropic Antenna Gain (dBi):	38
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	Yes	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	63.2		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
T4R	250	18925	18800	19050	Service Link	
T6R	500	19950	19700	20200	Service Link	
T2R	260	18220	18090	18350	Service Link	
T3R	260	18470	18340	18600	Service Link	
T5R	250	19162.5	19037.5	19287.5	Service Link	
T1R	300	17950	17800	18100	Service Link	
T001	2500	18950	17700	20200	Service Link	

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-	(ii) Beam Sub-	(iii) Reference	(iv) 0-2°	(v) 2-5°	(vi) 5-15°	(vii) 15-20°	(viii) 20-25°	(ix) 25-90°	(x)	(xi)	(xii) Western	(xiii) Other	(xiv) Energy

Frequency (Lower Band Edge) (MHz)	Frequency (Upper Band Edge) (MHz)	Bandwidth (BW)	(dBW/m ² /BW)	(dBW/m ² /BW)	(dBW/m ² /BW)	(dBW/m ² /BW)	(dBW/m ² /BW)	(dBW/m ² /BW)	Southeastern Region (dBW/m ² /BW)	Northeastern Region (dBW/m ² /BW)	Region (dBW/m ² /BW)	Region (dBW/m ² /BW)	Dispersal Bandwidth (kHz)
		1 MHz	-118.9	-118.9	-118.1	-117.8	-117.4	-115.1					

a. Beam ID:	TLM1	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19295	o. Peak Isotropic Antenna Gain (dBi):	8
c. Beam Frequency (Upper Band Edge) (MHz):	19300	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	37.5	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	26.3		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
TM5	1	19297.4	19296.9	19297.9	TT&C	
TM6	1	19297.6	19297.1	19298.1	TT&C	
TM1	1	19296.6	19296.1	19297.1	TT&C	
TM8	1	19298	19297.5	19298.5	TT&C	
TM13	1	19299	19298.5	19299.5	TT&C	
TM4	1	19297.2	19296.7	19297.7	TT&C	
TLM1	5	19297.5	19295	19300	TT&C	
TM11	1	19298.6	19298.1	19299.1	TT&C	
TM2	1	19296.8	19296.3	19297.3	TT&C	
TM10	1	19298.4	19297.9	19298.9	TT&C	
TM15	1	19299.4	19298.9	19299.9	TT&C	
TM9	1	19298.2	19297.7	19298.7	TT&C	
TM12	1	19298.8	19298.3	19299.3	TT&C	
TM3	1	19297	19296.5	19297.5	TT&C	
TM7	1	19297.8	19297.3	19298.3	TT&C	
TM14	1	19299.2	19298.7	19299.7	TT&C	

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)
		1 MHz	-115.4	-115.4	-114.7	-114.3	-114	-111.6					

a. Beam ID:	TLM3	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):
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b. Beam Frequency (Lower Band Edge) (MHz):	19280	o. Peak Isotropic Antenna Gain (dBi):	8
c. Beam Frequency (Upper Band Edge) (MHz):	19300	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	26.3		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
TM5	1	19297.4	19296.9	19297.9	TT&C	
TM6	1	19297.6	19297.1	19298.1	TT&C	
TM12	1	19298.8	19298.3	19299.3	TT&C	
TM3	1	19297	19296.5	19297.5	TT&C	
TM9	1	19298.2	19297.7	19298.7	TT&C	
TM8	1	19298	19297.5	19298.5	TT&C	
TM11	1	19298.6	19298.1	19299.1	TT&C	
TM2	1	19296.8	19296.3	19297.3	TT&C	
TM1	1	19296.6	19296.1	19297.1	TT&C	
TM7	1	19297.8	19297.3	19298.3	TT&C	
TM13	1	19299	19298.5	19299.5	TT&C	
TM4	1	19297.2	19296.7	19297.7	TT&C	
TM10	1	19298.4	19297.9	19298.9	TT&C	
TM15	1	19299.4	19298.9	19299.9	TT&C	
TM14	1	19299.2	19298.7	19299.7	TT&C	
TLM2	20	19290	19280	19300	TT&C	

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)
		1 MHz	-118.9	-118.5	-118.1	-117.8	-117.4	-115.1					

a. Beam ID:	THL1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17700	o. Peak Isotropic Antenna Gain (dBi):	38
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	Yes	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?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	63.2	

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
T6L	500	19950	19700	20200	Service Link	
T5L	250	19162.5	19037.5	19287.5	Service Link	
T4L	250	18925	18800	19050	Service Link	
T2L	260	18220	18090	18350	Service Link	
T001	2500	18950	17700	20200	Service Link	
T3L	260	18470	18340	18600	Service Link	
T1L	300	17950	17800	18100	Service Link	

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)
		1 MHz	-117	-117	-114	-114	-114	-114					

a. Beam ID:	GT1N	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):	19287.5	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?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	49.7	

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication		
T5R		250	19162.5		19037.5		19287.5		Service Link				
T4R		250	18925		18800		19050		Service Link				
y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band	(ii) Beam Sub-Frequency (Upper Band	(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)
		1 MHz	-119.2	-119.2	-118.5	-118.2	-118	-115.7					

a. Beam ID:	TL1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17700	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	Yes	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	37.5	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	55		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
T4L	250	18925	18800	19050	Service Link	
T6L	500	19950	19700	20200	Service Link	
T3L	260	18470	18340	18600	Service Link	
T1L	300	17950	17800	18100	Service Link	
T001	2500	18950	17700	20200	Service Link	
T5L	250	19162.5	19037.5	19287.5	Service Link	
T2L	260	18220	18090	18350	Service Link	

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)
		1 MHz	-115.4	-115	-114.7	-114.3	-114	-111.6					

a. Beam ID:	TR1	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17700	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	Yes	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	37.5	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	55		

x. Transmit Channels			
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(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
T4L	250	18925	18800	19050	Service Link	
T001	2500	18950	17700	20200	Service Link	
T5L	250	19162.5	19037.5	19287.5	Service Link	
T2L	260	18220	18090	18350	Service Link	
T5R	250	19162.5	19037.5	19287.5	Service Link	
T1R	300	17950	17800	18100	Service Link	
T4R	250	18925	18800	19050	Service Link	
T3R	260	18470	18340	18600	Service Link	
T3L	260	18470	18340	18600	Service Link	
T6R	500	19950	19700	20200	Service Link	
T2R	260	18220	18090	18350	Service Link	
T1L	300	17950	17800	18100	Service Link	
T6L	500	19950	19700	20200	Service Link	

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)
		1 MHz	-117	-117	-114	-114	-114	-114					

a. Beam ID:	GT3G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19700	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)		(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication	
T6R		500		19950		19700		20200		Service Link			
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)

		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					
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a. Beam ID:	GT4G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19700	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication		
T6L		500	19950		19700		20200		Service Link				
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)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

a. Beam ID:	TLM2	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19295	o. Peak Isotropic Antenna Gain (dBi):	8
c. Beam Frequency (Upper Band Edge) (MHz):	19300	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	37.5	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	26.3		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
TLM1	5	19297.5	19295	19300	TT&C	
TS10	1	19298.4	19297.9	19298.9	TT&C	
TS4	1	19297.2	19296.7	19297.7	TT&C	
TS14	1	19299.2	19298.7	19299.7	TT&C	
TS7	1	19297.8	19297.3	19298.3	TT&C	

TS11	1	19298.6	19298.1	19299.1	TT&C	
TS5	1	19297.4	19296.9	19297.9	TT&C	
TS8	1	19298	19297.5	19298.5	TT&C	
TS2	1	19296.8	19296.3	19297.3	TT&C	
TS12	1	19298.8	19298.3	19299.3	TT&C	
TS13	1	19299	19298.5	19299.5	TT&C	
TS3	1	19297	19296.5	19297.5	TT&C	
TS6	1	19297.6	19297.1	19298.1	TT&C	
TS9	1	19298.2	19297.7	19298.7	TT&C	
TS15	1	19299.4	19298.9	19299.9	TT&C	
TS1	1	19296.6	19296.1	19297.1	TT&C	

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)
		1 MHz	-115.4	-115.4	-114.7	-114.3	-114	-111.6					

a. Beam ID:	TLM6	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17700	o. Peak Isotropic Antenna Gain (dBi):	8
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	26.3		

x. Transmit Channels

(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
TLM3	2500	18950	17700	20200	TT&C	
TS8	1	19298	19297.5	19298.5	TT&C	
TS16	1	19299.6	19299.1	19300.1	TT&C	
TS9	1	19298.2	19297.7	19298.7	TT&C	
TS12	1	19298.8	19298.3	19299.3	TT&C	
TS2	1	19296.8	19296.3	19297.3	TT&C	
TS3	1	19297	19296.5	19297.5	TT&C	
TS4	1	19297.2	19296.7	19297.7	TT&C	
TS15	1	19299.4	19298.9	19299.9	TT&C	
TS13	1	19299	19298.5	19299.5	TT&C	

TS7	1	19297.8	19297.3	19298.3	TT&C	
TS5	1	19297.4	19296.9	19297.9	TT&C	
TS11	1	19298.6	19298.1	19299.1	TT&C	
TS10	1	19298.4	19297.9	19298.9	TT&C	
TS6	1	19297.6	19297.1	19298.1	TT&C	
TS14	1	19299.2	19298.7	19299.7	TT&C	
TS1	1	19296.6	19296.1	19297.1	TT&C	

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)
		1 MHz	-118.9	-118.5	-119.1	-117.8	-117.4	-115.1					

a. Beam ID:	TLM5	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17700	o. Peak Isotropic Antenna Gain (dBi):	8
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	26.3		

x. Transmit Channels

(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
TM6	1	19297.6	19297.1	19298.1	TT&C	
TM12	1	19298.8	19298.3	19299.3	TT&C	
TM3	1	19297	19296.5	19297.5	TT&C	
TM9	1	19298.2	19297.7	19298.7	TT&C	
TM8	1	19298	19297.5	19298.5	TT&C	
TM11	1	19298.6	19298.1	19299.1	TT&C	
TM2	1	19296.8	19296.3	19297.3	TT&C	
TM1	1	19296.6	19296.1	19297.1	TT&C	
TM7	1	19297.8	19297.3	19298.3	TT&C	
TM13	1	19299	19298.5	19299.5	TT&C	
TM4	1	19297.2	19296.7	19297.7	TT&C	
TM5	1	19297.4	19296.9	19297.9	TT&C	
TM10	1	19298.4	19297.9	19298.9	TT&C	
TM15	1	19299.4	19298.9	19299.9	TT&C	

TM14			1	19299.2	19298.7	19299.7	TT&C						
TLM3			2500	18950	17700	20200	TT&C						
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)
		1 MHz	-118.9	-118.5	-118.1	-117.8	-117.4	-115.1					

a. Beam ID:	TLMN	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19296.1	o. Peak Isotropic Antenna Gain (dBi):	8
c. Beam Frequency (Upper Band Edge) (MHz):	19300	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	22.2	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	5.2		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
TS15	1	19299.4	19298.9	19299.9	TT&C	
TS8	1	19298	19297.5	19298.5	TT&C	
TS2	1	19296.8	19296.3	19297.3	TT&C	
TS5	1	19297.4	19296.9	19297.9	TT&C	
TS3	1	19297	19296.5	19297.5	TT&C	
TS4	1	19297.2	19296.7	19297.7	TT&C	
TS9	1	19298.2	19297.7	19298.7	TT&C	
TS13	1	19299	19298.5	19299.5	TT&C	
TS7	1	19297.8	19297.3	19298.3	TT&C	
TS12	1	19298.8	19298.3	19299.3	TT&C	
TS6	1	19297.6	19297.1	19298.1	TT&C	
TS14	1	19299.2	19298.7	19299.7	TT&C	
TS1	1	19296.6	19296.1	19297.1	TT&C	
TS11	1	19298.6	19298.1	19299.1	TT&C	
TS10	1	19298.4	19297.9	19298.9	TT&C	

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band	(ii) Beam Sub-Frequency (Upper Band	(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)
		1 MHz	-130.7	-130.7	-130	-129.6	-129.3	-126.9					

a. Beam ID:	TLMS	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19296.1	o. Peak Isotropic Antenna Gain (dBi):	8
c. Beam Frequency (Upper Band Edge) (MHz):	19300	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	20.5		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
TM7	1	19297.8	19297.3	19298.3	TT&C	
TM6	1	19297.6	19297.1	19298.1	TT&C	
TM9	1	19298.2	19297.7	19298.7	TT&C	
TM12	1	19298.8	19298.3	19299.3	TT&C	
TM3	1	19297	19296.5	19297.5	TT&C	
TM10	1	19298.4	19297.9	19298.9	TT&C	
TM15	1	19299.4	19298.9	19299.9	TT&C	
TM1	1	19296.6	19296.1	19297.1	TT&C	
TM5	1	19297.4	19296.9	19297.9	TT&C	
TM13	1	19299	19298.5	19299.5	TT&C	
TM4	1	19297.2	19296.7	19297.7	TT&C	
TM8	1	19298	19297.5	19298.5	TT&C	
TM14	1	19299.2	19298.7	19299.7	TT&C	
TM11	1	19298.6	19298.1	19299.1	TT&C	
TM2	1	19296.8	19296.3	19297.3	TT&C	

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)
		1 MHz	-119.2	-119.2	-118.5	-118.2	-118	-115.7					

a. Beam ID:	UT11	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19700	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	

d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication		
T6L		500	19950		19700		20200		Service Link				
T6R		500	19950		19700		20200		Service Link				
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)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

a. Beam ID:	UT2G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	18090	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	18350	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication		
T2L		260	18220		18090		18350		Service Link				
T2R		260	18220		18090		18350		Service Link				
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)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

a. Beam ID:	UT3G	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	18340	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	18600	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication		
T3L		260	18470		18340		18600		Service Link				
T3R		260	18470		18340		18600		Service Link				
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)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

a. Beam ID:	UT4N	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	18800	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	19050	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)		(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication	
T4L		250		18925		18800		19050		Service Link			
T4R		250		18925		18800		19050		Service Link			
y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency	(ii) Beam Sub-Frequency	(iii) Reference Bandwidth	(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	(xi) Northeastern	(xii) Western Region	(xiii) Other Region	(xiv) Energy Dispersal

(Lower Band Edge) (MHz)	(Upper Band Edge) (MHz)	(BW)							Region (dBW/m²/BW)	Region (dBW/m²/BW)	(dBW/m²/BW)	(dBW/m²/BW)	Bandwidth (kHz)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

a. Beam ID:	UT5N	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19037.5	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	19287.5	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
T5L	250	19162.5	19037.5	19287.5	Service Link	
T5R	250	19162.5	19037.5	19287.5	Service Link	

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)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

a. Beam ID:	UT6G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17800	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	18100	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
T1L	300	17950	17800	18100	Service Link	
T1R	300	17950	17800	18100	Service Link	

(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
T4R	250	18925	18800	19050	Service Link	
T4L	250	18925	18800	19050	Service Link	

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)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

a. Beam ID:	UT10	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19037.5	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	19287.5	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels

(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
T5L	250	19162.5	19037.5	19287.5	Service Link	
T5R	250	19162.5	19037.5	19287.5	Service Link	

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)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

a. Beam ID:	V5RD	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	40000	o. Peak Isotropic Antenna Gain (dBi):	42.1
c. Beam Frequency (Upper Band Edge) (MHz):	42000	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):	Yes	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?:	

j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	64	

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication		
GD03		1000	40500		40000		41000		Feeder Link				
GD04		1000	41500		41000		42000		Feeder Link				
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)
40000	42000	1 MHz	-118.9	-118.9	-118.2	-117.6	-117	-115.7					

a. Beam ID:	V4LD	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	40000	o. Peak Isotropic Antenna Gain (dBi):	42.6
c. Beam Frequency (Upper Band Edge) (MHz):	42000	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):	Yes	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	61		

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication		
UD09		500	41750		41500		42000		Service Link				
UD06		500	40250		40000		40500		Service Link				
UD07		500	40750		40500		41000		Service Link				
UD08		500	41250		41000		41500		Service Link				
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)
40000	42000	1 MHz	-118.9	-118.9	-118.2	-117.6	-117	-115.7					

a. Beam ID:	THR2	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17300	o. Peak Isotropic Antenna Gain (dBi):	38
c. Beam Frequency (Upper Band Edge) (MHz):	17700	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	

d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	Yes	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	63.2		

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication		
T002		400	17500		17300		17700		Service Link				
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)
		1 MHz	-117	-117	-114	-114	-114	-114					

a. Beam ID:	TLM4	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19280	o. Peak Isotropic Antenna Gain (dBi):	8
c. Beam Frequency (Upper Band Edge) (MHz):	19300	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	26.3		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
TS8	1	19298	19297.5	19298.5	TT&C	
TS9	1	19298.2	19297.7	19298.7	TT&C	
TS12	1	19298.8	19298.3	19299.3	TT&C	
TS2	1	19296.8	19296.3	19297.3	TT&C	
TS3	1	19297	19296.5	19297.5	TT&C	
TS4	1	19297.2	19296.7	19297.7	TT&C	
TS15	1	19299.4	19298.9	19299.9	TT&C	
TS13	1	19299	19298.5	19299.5	TT&C	
TS7	1	19297.8	19297.3	19298.3	TT&C	
TS5	1	19297.4	19296.9	19297.9	TT&C	

TS11	1	19298.6	19298.1	19299.1	TT&C	
TS10	1	19298.4	19297.9	19298.9	TT&C	
TS6	1	19297.6	19297.1	19298.1	TT&C	
TS14	1	19299.2	19298.7	19299.7	TT&C	
TS1	1	19296.6	19296.1	19297.1	TT&C	
TLM2	20	19290	19280	19300	TT&C	

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)
		1 MHz	-117	-117	-114	-114	-114	-114					

a. Beam ID:	V5LD	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	40000	o. Peak Isotropic Antenna Gain (dBi):	42.1
c. Beam Frequency (Upper Band Edge) (MHz):	42000	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):	Yes	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	64		

x. Transmit Channels

(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
GD03	1000	40500	40000	41000	Feeder Link	
GD04	1000	41500	41000	42000	Feeder Link	

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)
40000	42000	1 MHz	-118.9	-118.9	-118.2	-117.6	-117	-115.7					

a. Beam ID:	V4RD	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	40000	o. Peak Isotropic Antenna Gain (dBi):	42.6
c. Beam Frequency (Upper Band Edge) (MHz):	42000	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):	Yes	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?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	61	

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
UD09	500	41750	41500	42000	Service Link	
UD06	500	40250	40000	40500	Service Link	
UD07	500	40750	40500	41000	Service Link	
UD08	500	41250	41000	41500	Service Link	

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)
40000	42000	1 MHz	-118.9	-118.9	-118.2	-117.6	-117	-115.7					

a. Beam ID:	V3RD	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	37500	o. Peak Isotropic Antenna Gain (dBi): 42.1
c. Beam Frequency (Upper Band Edge) (MHz):	40000	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):	Yes	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?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	21.5	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	50.5	

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
GD02	1000	39000	38500	39500	Feeder Link	
GD01	1000	38000	37500	38500	Feeder Link	

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)
37500	40000	1 MHz	-132.4	-131.7	-131.1	-131.1	-130.5	-129.2					

			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)
37500	40000	1 MHz	-132.4	-131.7	-131.1	-131.1	-130.5	-129.2					

a. Beam ID:	VURD	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	37500	o. Peak Isotropic Antenna Gain (dBi):	42.6
c. Beam Frequency (Upper Band Edge) (MHz):	40000	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):	Yes	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	20.5	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	47.5		

x. Transmit Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
UD01	500	37750	37500	38000	Service Link	
UD02	500	38250	38000	38500	Service Link	
UD03	500	38750	38500	39000	Service Link	
UD04	500	39250	39000	39500	Service Link	
UD05	500	39750	39500	40000	Service Link	

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)
37500	40000	1 MHz	-132.4	-131.7	-131.1	-131.1	-130.5	-129.2					

a. Beam ID:	GT1G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17800	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	18600	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication		
T2R		260	18220		18090		18350		Service Link				
T1R		300	17950		17800		18100		Service Link				
T3R		260	18470		18340		18600		Service Link				
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)
		1 MHz	-119.2	-119.2	-118.5	-118.2	-118	-115.7					

a. Beam ID:	THL2	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17300	o. Peak Isotropic Antenna Gain (dBi):	38
c. Beam Frequency (Upper Band Edge) (MHz):	17700	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	Yes	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?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	34	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	63.2		

x. Transmit Channels													
(i) Channel ID		(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)		(iv) Channel Frequency (Lower Band Edge) (MHz)		(v) Channel Frequency (Upper Band Edge) (MHz)		(vi) Channel Type		(vii) Point of Communication		
T002		400	17500		17300		17700		Service Link				
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)
		1 MHz	-117	-117	-114	-114	-114	-114					

a. Beam ID:	UT12	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19700	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	49.7	

x. Transmit Channels													
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication							
T6L	500	19950	19700	20200	Service Link								
T6R	500	19950	19700	20200	Service Link								

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)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

a. Beam ID:	UT7G	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	18090	o. Peak Isotropic Antenna Gain (dBi):	31
c. Beam Frequency (Upper Band Edge) (MHz):	18350	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.6
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.5
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):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	33.4	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	49.7		

x. Transmit Channels													
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication							
T2R	260	18220	18090	18350	Service Link								
T2L	260	18220	18090	18350	Service Link								

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)
		1 MHz	-119.2	-118.8	-118.5	-118.2	-118	-115.7					

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
GR1G	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
GR1N	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
GR2G	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
GR2N	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
GR3G	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
GR4G	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
GT1G	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
GT1N	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
GT2G	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
GT2N	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
GT3G	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
GT4G	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
RHL1	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	MEO RX.pdf
RHL1	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	MEO Ka band RX.pdf
RHR1	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	MEO Ka band RX.pdf
RHR1	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	MEO RX.pdf
RL1	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	RX_beams.pdf
RR1	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	RX_beams.pdf
THL1	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO TX.pdf
THL1	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO Ka band TX.pdf
THL2	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO Ka band TX.pdf
THR1	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO Ka band TX.pdf
THR1	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO TX.pdf
THR2	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO Ka band TX.pdf
TL1	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	TX_beams.pdf
TR1	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	TX_beams.pdf
UR10	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UR11	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UR12	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UR1G	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UR2G	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UR3G	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UR4N	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UR5N	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UR6G	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UR7G	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UR8G	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf

UR9N	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT10	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT11	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT12	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT1G	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT2G	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT3G	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT4N	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT5N	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT6G	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT7G	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT8G	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
UT9G	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	O3b TX-RX antenna pattern equation.pdf
V2LU	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	MEO V band RX.pdf
V2RU	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	MEO V band RX.pdf
V3LD	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO V band TX.pdf
V3LU	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	MEO V band RX.pdf
V3RD	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO V band TX.pdf
V3RU	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	MEO V band RX.pdf
V4LD	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO V band TX.pdf
V4LU	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	MEO V band RX.pdf
V4RD	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO V band TX.pdf
V4RU	Earth-to-Space (Receive)	Other	NGSO Antenna Gain Data	MEO V band RX.pdf
V5LD	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO V band TX.pdf
V5RD	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO V band TX.pdf
VULD	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO V band TX.pdf
VURD	Space-to-Earth (Transmit)	Other	NGSO Antenna Gain Data	MEO V band TX.pdf