

File Number: **DRAFT-SAT-LOA-20250717-00176**

Call Sign:

## S1. Satellite Information

a. Space Station or Satellite Network Name	b. Orbit Type	c. Estimated Operational Lifetime of Space Station(s) From Date of Launch (yrs)	d. Will the space station(s) operate on a Common Carrier basis?	e. Application Description
ECHO-25	Geostationary (GSO)	15	No	EchoStar is applying for authorization to launch and operate EchoStar 25.

## S2. Operating Frequency Bands

a. Type of Service	b. If a. is Other, provide a service description	c. Satellite Frequency Band (MHz)	d. Satellite Frequency (Lower Band Edge) (MHz)	e. Satellite Frequency (Upper Band Edge) (MHz)	f. Direction of Transmission	g. Non Conforming Indicator
DBS		12200 - 12700	12200	12700	Space-to-Earth (Transmit)	No
FSS		17300 - 17800	17300	17800	Earth-to-Space (Receive)	No

## S3. GSO Orbital Information

a. Orbital Longitude (°)	b. Hemisphere of Orbital Longitude (E/W)	c. East/West Station-Keeping Range: Toward East (°)	d. East/West Station-Keeping Range: Toward West (°)	e. North/South Station-Keeping Range: Toward North (°)	f. North/South Station-Keeping Range: Toward South (°)	g. Maximum Orbital Eccentricity	h. Antenna Axis Attitude Accuracy: Roll (°)	i. Antenna Axis Attitude Accuracy: Pitch (°)	j. Antenna Axis Attitude Accuracy: Yaw (°)
110	West	0.05	0.05	0.05	0.05	0.001	0.12	0.12	0.12

## S4. Earth-to-Space (Receive) Beams

a. Beam ID:	<b>CHUL</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>14.2</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>13.7</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>		
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>		

<b>x. Receive Channels</b>						
<b>(i) Channel ID</b>	<b>(ii) Channel Bandwidth (MHz)</b>	<b>(iii) Center Frequency (MHz)</b>	<b>(iv) Channel Frequency (Lower Band Edge) (MHz)</b>	<b>(v) Channel Frequency (Upper Band Edge) (MHz)</b>	<b>(vi) Channel Type</b>	<b>(vii) Point of Communication</b>
5	26	17382.32	17369.32	17395.32	Feeder Link	
CMD2	1	17795	17794.5	17795.5	TT&C	
22	26	17630.18	17617.18	17643.18	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	
RFAT	1	17309	17308.5	17309.5	TT&C	
CMD1	1	17305	17304.5	17305.5	TT&C	
17	26	17557.28	17544.28	17570.28	Feeder Link	
14	26	17513.54	17500.54	17526.54	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	
12	26	17484.38	17471.38	17497.38	Feeder Link	
26	26	17688.5	17675.5	17701.5	Feeder Link	
25	26	17673.92	17660.92	17686.92	Feeder Link	
31	26	17761.4	17748.4	17774.4	Feeder Link	
6	26	17396.9	17383.9	17409.9	Feeder Link	
23	26	17644.76	17631.76	17657.76	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
27	26	17703.08	17690.08	17716.08	Feeder Link	
16	26	17542.7	17529.7	17555.7	Feeder Link	
19	26	17586.44	17573.44	17599.44	Feeder Link	
2	26	17338.58	17325.58	17351.58	Feeder Link	
10	26	17455.22	17442.22	17468.22	Feeder Link	
8	26	17426.06	17413.06	17439.06	Feeder Link	
1	26	17324	17311	17337	Feeder Link	
15	26	17528.12	17515.12	17541.12	Feeder Link	
18	26	17571.86	17558.86	17584.86	Feeder Link	
24	26	17659.34	17646.34	17672.34	Feeder Link	
4	26	17367.74	17354.74	17380.74	Feeder Link	
9	26	17440.64	17427.64	17453.64	Feeder Link	
13	26	17498.96	17485.96	17511.96	Feeder Link	
11	26	17469.8	17456.8	17482.8	Feeder Link	
20	26	17601.02	17588.02	17614.02	Feeder Link	

a. Beam ID:	<b>NBUL</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	

g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:
j. Maximum G/T (dB/K):	<b>13.8</b>	w. What information will be provided with the predicted antenna gain contours?:
k. Minimum G/T (dB/K):	<b>13.3</b>	
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>	
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>	

**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
25	26	17673.92	17660.92	17686.92	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
23	26	17644.76	17631.76	17657.76	Feeder Link	
9	26	17440.64	17427.64	17453.64	Feeder Link	
15	26	17528.12	17515.12	17541.12	Feeder Link	
10	26	17455.22	17442.22	17468.22	Feeder Link	
18	26	17571.86	17558.86	17584.86	Feeder Link	
12	26	17484.38	17471.38	17497.38	Feeder Link	
27	26	17703.08	17690.08	17716.08	Feeder Link	
RFAT	1	17309	17308.5	17309.5	TT&C	
11	26	17469.8	17456.8	17482.8	Feeder Link	
17	26	17557.28	17544.28	17570.28	Feeder Link	
8	26	17426.06	17413.06	17439.06	Feeder Link	
22	26	17630.18	17617.18	17643.18	Feeder Link	
2	26	17338.58	17325.58	17351.58	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	
5	26	17382.32	17369.32	17395.32	Feeder Link	
6	26	17396.9	17383.9	17409.9	Feeder Link	
14	26	17513.54	17500.54	17526.54	Feeder Link	
1	26	17324	17311	17337	Feeder Link	
4	26	17367.74	17354.74	17380.74	Feeder Link	
20	26	17601.02	17588.02	17614.02	Feeder Link	
19	26	17586.44	17573.44	17599.44	Feeder Link	
31	26	17761.4	17748.4	17774.4	Feeder Link	
CMD1	1	17305	17304.5	17305.5	TT&C	
16	26	17542.7	17529.7	17555.7	Feeder Link	
26	26	17688.5	17675.5	17701.5	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
CMD2	1	17795	17794.5	17795.5	TT&C	
13	26	17498.96	17485.96	17511.96	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	
24	26	17659.34	17646.34	17672.34	Feeder Link	

a. Beam ID:	<b>CHUR</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>14.1</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>13.6</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>		
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>		

#### 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
RFAT	1	17309	17308.5	17309.5	TT&C	
25	26	17673.92	17660.92	17686.92	Feeder Link	
23	26	17644.76	17631.76	17657.76	Feeder Link	
10	26	17455.22	17442.22	17468.22	Feeder Link	
22	26	17630.18	17617.18	17643.18	Feeder Link	
CMD1	1	17305	17304.5	17305.5	TT&C	
4	26	17367.74	17354.74	17380.74	Feeder Link	
5	26	17382.32	17369.32	17395.32	Feeder Link	
CMD2	1	17795	17794.5	17795.5	TT&C	
8	26	17426.06	17413.06	17439.06	Feeder Link	
27	26	17703.08	17690.08	17716.08	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	
24	26	17659.34	17646.34	17672.34	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
31	26	17761.4	17748.4	17774.4	Feeder Link	
1	26	17324	17311	17337	Feeder Link	
15	26	17528.12	17515.12	17541.12	Feeder Link	
12	26	17484.38	17471.38	17497.38	Feeder Link	
17	26	17557.28	17544.28	17570.28	Feeder Link	
19	26	17586.44	17573.44	17599.44	Feeder Link	
14	26	17513.54	17500.54	17526.54	Feeder Link	
2	26	17338.58	17325.58	17351.58	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	
26	26	17688.5	17675.5	17701.5	Feeder Link	
11	26	17469.8	17456.8	17482.8	Feeder Link	

9	26	17440.64	17427.64	17453.64	Feeder Link	
18	26	17571.86	17558.86	17584.86	Feeder Link	
13	26	17498.96	17485.96	17511.96	Feeder Link	
16	26	17542.7	17529.7	17555.7	Feeder Link	
20	26	17601.02	17588.02	17614.02	Feeder Link	
6	26	17396.9	17383.9	17409.9	Feeder Link	

a. Beam ID:	<b>GBUL</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>15</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>14.5</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>		
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>		

<b>x. Receive Channels</b>						
<b>(i) Channel ID</b>	<b>(ii) Channel Bandwidth (MHz)</b>	<b>(iii) Center Frequency (MHz)</b>	<b>(iv) Channel Frequency (Lower Band Edge) (MHz)</b>	<b>(v) Channel Frequency (Upper Band Edge) (MHz)</b>	<b>(vi) Channel Type</b>	<b>(vii) Point of Communication</b>
6	26	17396.9	17383.9	17409.9	Feeder Link	
11	26	17469.8	17456.8	17482.8	Feeder Link	
12	26	17484.38	17471.38	17497.38	Feeder Link	
24	26	17659.34	17646.34	17672.34	Feeder Link	
17	26	17557.28	17544.28	17570.28	Feeder Link	
8	26	17426.06	17413.06	17439.06	Feeder Link	
16	26	17542.7	17529.7	17555.7	Feeder Link	
CMD2	1	17795	17794.5	17795.5	TT&C	
10	26	17455.22	17442.22	17468.22	Feeder Link	
27	26	17703.08	17690.08	17716.08	Feeder Link	
31	26	17761.4	17748.4	17774.4	Feeder Link	
13	26	17498.96	17485.96	17511.96	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	
18	26	17571.86	17558.86	17584.86	Feeder Link	
CMD1	1	17305	17304.5	17305.5	TT&C	
25	26	17673.92	17660.92	17686.92	Feeder Link	
9	26	17440.64	17427.64	17453.64	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
15	26	17528.12	17515.12	17541.12	Feeder Link	

2	26	17338.58	17325.58	17351.58	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
5	26	17382.32	17369.32	17395.32	Feeder Link	
RFAT	1	17309	17308.5	17309.5	TT&C	
19	26	17586.44	17573.44	17599.44	Feeder Link	
23	26	17644.76	17631.76	17657.76	Feeder Link	
20	26	17601.02	17588.02	17614.02	Feeder Link	
26	26	17688.5	17675.5	17701.5	Feeder Link	
4	26	17367.74	17354.74	17380.74	Feeder Link	
14	26	17513.54	17500.54	17526.54	Feeder Link	
1	26	17324	17311	17337	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	
22	26	17630.18	17617.18	17643.18	Feeder Link	

a. Beam ID:	<b>SPUR</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>14</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>13.5</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>		
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>		

<b>x. Receive Channels</b>						
<b>(i) Channel ID</b>	<b>(ii) Channel Bandwidth (MHz)</b>	<b>(iii) Center Frequency (MHz)</b>	<b>(iv) Channel Frequency (Lower Band Edge) (MHz)</b>	<b>(v) Channel Frequency (Upper Band Edge) (MHz)</b>	<b>(vi) Channel Type</b>	<b>(vii) Point of Communication</b>
14	26	17513.54	17500.54	17526.54	Feeder Link	
16	26	17542.7	17529.7	17555.7	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	
15	26	17528.12	17515.12	17541.12	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	
23	26	17644.76	17631.76	17657.76	Feeder Link	
11	26	17469.8	17456.8	17482.8	Feeder Link	
24	26	17659.34	17646.34	17672.34	Feeder Link	
26	26	17688.5	17675.5	17701.5	Feeder Link	
1	26	17324	17311	17337	Feeder Link	
31	26	17761.4	17748.4	17774.4	Feeder Link	
8	26	17426.06	17413.06	17439.06	Feeder Link	

17	26	17557.28	17544.28	17570.28	Feeder Link	
2	26	17338.58	17325.58	17351.58	Feeder Link	
6	26	17396.9	17383.9	17409.9	Feeder Link	
22	26	17630.18	17617.18	17643.18	Feeder Link	
10	26	17455.22	17442.22	17468.22	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
12	26	17484.38	17471.38	17497.38	Feeder Link	
19	26	17586.44	17573.44	17599.44	Feeder Link	
4	26	17367.74	17354.74	17380.74	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
25	26	17673.92	17660.92	17686.92	Feeder Link	
RFAT	1	17309	17308.5	17309.5	TT&C	
20	26	17601.02	17588.02	17614.02	Feeder Link	
CMD2	1	17795	17794.5	17795.5	TT&C	
27	26	17703.08	17690.08	17716.08	Feeder Link	
9	26	17440.64	17427.64	17453.64	Feeder Link	
CMD1	1	17305	17304.5	17305.5	TT&C	
18	26	17571.86	17558.86	17584.86	Feeder Link	
5	26	17382.32	17369.32	17395.32	Feeder Link	
13	26	17498.96	17485.96	17511.96	Feeder Link	

a. Beam ID:	<b>MJUL</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.2</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>14.3</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>13.8</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>		
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>		

<b>x. Receive Channels</b>						
<b>(i) Channel ID</b>	<b>(ii) Channel Bandwidth (MHz)</b>	<b>(iii) Center Frequency (MHz)</b>	<b>(iv) Channel Frequency (Lower Band Edge) (MHz)</b>	<b>(v) Channel Frequency (Upper Band Edge) (MHz)</b>	<b>(vi) Channel Type</b>	<b>(vii) Point of Communication</b>
25	26	17673.92	17660.92	17686.92	Feeder Link	
13	26	17498.96	17485.96	17511.96	Feeder Link	
17	26	17557.28	17544.28	17570.28	Feeder Link	
15	26	17528.12	17515.12	17541.12	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	

26	26	17688.5	17675.5	17701.5	Feeder Link	
RFAT	1	17309	17308.5	17309.5	TT&C	
CMD2	1	17795	17794.5	17795.5	TT&C	
24	26	17659.34	17646.34	17672.34	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
CMD1	1	17305	17304.5	17305.5	TT&C	
31	26	17761.4	17748.4	17774.4	Feeder Link	
5	26	17382.32	17369.32	17395.32	Feeder Link	
1	26	17324	17311	17337	Feeder Link	
20	26	17601.02	17588.02	17614.02	Feeder Link	
18	26	17571.86	17558.86	17584.86	Feeder Link	
27	26	17703.08	17690.08	17716.08	Feeder Link	
16	26	17542.7	17529.7	17555.7	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
12	26	17484.38	17471.38	17497.38	Feeder Link	
9	26	17440.64	17427.64	17453.64	Feeder Link	
14	26	17513.54	17500.54	17526.54	Feeder Link	
23	26	17644.76	17631.76	17657.76	Feeder Link	
8	26	17426.06	17413.06	17439.06	Feeder Link	
2	26	17338.58	17325.58	17351.58	Feeder Link	
11	26	17469.8	17456.8	17482.8	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	
6	26	17396.9	17383.9	17409.9	Feeder Link	
10	26	17455.22	17442.22	17468.22	Feeder Link	
22	26	17630.18	17617.18	17643.18	Feeder Link	
4	26	17367.74	17354.74	17380.74	Feeder Link	
19	26	17586.44	17573.44	17599.44	Feeder Link	

a. Beam ID:	<b>MOUR</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.1</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>14.3</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>13.8</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>		
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>		
<b>x. Receive Channels</b>			

(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
10	26	17455.22	17442.22	17468.22	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
26	26	17688.5	17675.5	17701.5	Feeder Link	
14	26	17513.54	17500.54	17526.54	Feeder Link	
CMD2	1	17795	17794.5	17795.5	TT&C	
25	26	17673.92	17660.92	17686.92	Feeder Link	
1	26	17324	17311	17337	Feeder Link	
23	26	17644.76	17631.76	17657.76	Feeder Link	
5	26	17382.32	17369.32	17395.32	Feeder Link	
4	26	17367.74	17354.74	17380.74	Feeder Link	
6	26	17396.9	17383.9	17409.9	Feeder Link	
15	26	17528.12	17515.12	17541.12	Feeder Link	
CMD1	1	17305	17304.5	17305.5	TT&C	
12	26	17484.38	17471.38	17497.38	Feeder Link	
17	26	17557.28	17544.28	17570.28	Feeder Link	
16	26	17542.7	17529.7	17555.7	Feeder Link	
9	26	17440.64	17427.64	17453.64	Feeder Link	
20	26	17601.02	17588.02	17614.02	Feeder Link	
8	26	17426.06	17413.06	17439.06	Feeder Link	
24	26	17659.34	17646.34	17672.34	Feeder Link	
27	26	17703.08	17690.08	17716.08	Feeder Link	
RFAT	1	17309	17308.5	17309.5	TT&C	
31	26	17761.4	17748.4	17774.4	Feeder Link	
11	26	17469.8	17456.8	17482.8	Feeder Link	
13	26	17498.96	17485.96	17511.96	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
22	26	17630.18	17617.18	17643.18	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	
18	26	17571.86	17558.86	17584.86	Feeder Link	
19	26	17586.44	17573.44	17599.44	Feeder Link	
2	26	17338.58	17325.58	17351.58	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	

a. Beam ID:	<b>CMDR</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	<b>-83</b>
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>24</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.14</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.14</b>
f. Is this a command beam? (Check box if Yes):	<b>Yes</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	

- h. Is the beam steerable? (Check box if Yes): **No**
- i. Is the beam fed into transponders? (Check box if Yes): **No**
- j. Maximum G/T (dB/K): **0**
- k. Minimum G/T (dB/K): **0**
- l. Maximum Saturation Flux Density (dBW/m<sup>2</sup>):
- m. Minimum Saturation Flux Density (dBW/m<sup>2</sup>):

- u. Provide a list of each orbital plane in which this antenna beam is used.:
- v. Are all space stations in the NGSO constellation identical?:
- w. What information will be provided with the predicted antenna gain contours?:

**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
4		17367.74			Feeder Link	
11		17469.8			Feeder Link	
10		17455.22			Feeder Link	
9		17440.64			Feeder Link	
21		17615.6			Feeder Link	
8		17426.06			Feeder Link	
RFAT		17309			TT&C	
27		17703.08			Feeder Link	
1		17324			Feeder Link	
3		17353.16			Feeder Link	
22		17630.18			Feeder Link	
24		17659.34			Feeder Link	
5		17382.32			Feeder Link	
29		17732.24			Feeder Link	
16		17542.7			Feeder Link	
18		17571.86			Feeder Link	
13		17498.96			Feeder Link	
23		17644.76			Feeder Link	
26		17688.5			Feeder Link	
31		17761.4			Feeder Link	
CMD2		17795			TT&C	
7		17411.48			Feeder Link	
19		17586.44			Feeder Link	
20		17601.02			Feeder Link	
12		17484.38			Feeder Link	
15		17528.12			Feeder Link	
CMD1		17305			TT&C	
25		17673.92			Feeder Link	
17		17557.28			Feeder Link	
6		17396.9			Feeder Link	
2		17338.58			Feeder Link	
14		17513.54			Feeder Link	

a. Beam ID:	<b>MJUR</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>14.2</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>13.7</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>		
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>		

**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
20	26	17601.02	17588.02	17614.02	Feeder Link	
27	26	17703.08	17690.08	17716.08	Feeder Link	
4	26	17367.74	17354.74	17380.74	Feeder Link	
14	26	17513.54	17500.54	17526.54	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
24	26	17659.34	17646.34	17672.34	Feeder Link	
5	26	17382.32	17369.32	17395.32	Feeder Link	
26	26	17688.5	17675.5	17701.5	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	
8	26	17426.06	17413.06	17439.06	Feeder Link	
15	26	17528.12	17515.12	17541.12	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
9	26	17440.64	17427.64	17453.64	Feeder Link	
6	26	17396.9	17383.9	17409.9	Feeder Link	
10	26	17455.22	17442.22	17468.22	Feeder Link	
22	26	17630.18	17617.18	17643.18	Feeder Link	
13	26	17498.96	17485.96	17511.96	Feeder Link	
12	26	17484.38	17471.38	17497.38	Feeder Link	
23	26	17644.76	17631.76	17657.76	Feeder Link	
18	26	17571.86	17558.86	17584.86	Feeder Link	
11	26	17469.8	17456.8	17482.8	Feeder Link	
CMD1	1	17305	17304.5	17305.5	TT&C	
1	26	17324	17311	17337	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	
31	26	17761.4	17748.4	17774.4	Feeder Link	
16	26	17542.7	17529.7	17555.7	Feeder Link	

25	26	17673.92	17660.92	17686.92	Feeder Link	
2	26	17338.58	17325.58	17351.58	Feeder Link	
RFAT	1	17309	17308.5	17309.5	TT&C	
17	26	17557.28	17544.28	17570.28	Feeder Link	
CMD2	1	17795	17794.5	17795.5	TT&C	
19	26	17586.44	17573.44	17599.44	Feeder Link	

a. Beam ID:	<b>OMNR</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	<b>-83</b>
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.14</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.14</b>
f. Is this a command beam? (Check box if Yes):	<b>Yes</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>0</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>0</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):			
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):			

<b>x. Receive Channels</b>						
<b>(i) Channel ID</b>	<b>(ii) Channel Bandwidth (MHz)</b>	<b>(iii) Center Frequency (MHz)</b>	<b>(iv) Channel Frequency (Lower Band Edge) (MHz)</b>	<b>(v) Channel Frequency (Upper Band Edge) (MHz)</b>	<b>(vi) Channel Type</b>	<b>(vii) Point of Communication</b>
19		17586.44			Feeder Link	
20		17601.02			Feeder Link	
14		17513.54			Feeder Link	
31		17761.4			Feeder Link	
3		17353.16			Feeder Link	
CMD2		17795			TT&C	
10		17455.22			Feeder Link	
CMD1		17305			TT&C	
9		17440.64			Feeder Link	
25		17673.92			Feeder Link	
21		17615.6			Feeder Link	
17		17557.28			Feeder Link	
RFAT		17309			TT&C	
27		17703.08			Feeder Link	
7		17411.48			Feeder Link	
22		17630.18			Feeder Link	
24		17659.34			Feeder Link	
8		17426.06			Feeder Link	
2		17338.58			Feeder Link	

29		17732.24			Feeder Link	
12		17484.38			Feeder Link	
16		17542.7			Feeder Link	
4		17367.74			Feeder Link	
13		17498.96			Feeder Link	
23		17644.76			Feeder Link	
26		17688.5			Feeder Link	
6		17396.9			Feeder Link	
18		17571.86			Feeder Link	
15		17528.12			Feeder Link	
11		17469.8			Feeder Link	
5		17382.32			Feeder Link	
1		17324			Feeder Link	

a. Beam ID:	<b>OMNL</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	<b>-83</b>
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.14</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.14</b>
f. Is this a command beam? (Check box if Yes):	<b>Yes</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>0</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>0</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):			
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):			

<b>x. Receive Channels</b>						
<b>(i) Channel ID</b>	<b>(ii) Channel Bandwidth (MHz)</b>	<b>(iii) Center Frequency (MHz)</b>	<b>(iv) Channel Frequency (Lower Band Edge) (MHz)</b>	<b>(v) Channel Frequency (Upper Band Edge) (MHz)</b>	<b>(vi) Channel Type</b>	<b>(vii) Point of Communication</b>
9		17440.64			Feeder Link	
23		17644.76			Feeder Link	
3		17353.16			Feeder Link	
12		17484.38			Feeder Link	
24		17659.34			Feeder Link	
RFAT		17309			TT&C	
15		17528.12			Feeder Link	
22		17630.18			Feeder Link	
17		17557.28			Feeder Link	
18		17571.86			Feeder Link	
CMD1		17305			TT&C	
13		17498.96			Feeder Link	

31		17761.4			Feeder Link	
29		17732.24			Feeder Link	
1		17324			Feeder Link	
19		17586.44			Feeder Link	
10		17455.22			Feeder Link	
4		17367.74			Feeder Link	
2		17338.58			Feeder Link	
7		17411.48			Feeder Link	
14		17513.54			Feeder Link	
21		17615.6			Feeder Link	
6		17396.9			Feeder Link	
5		17382.32			Feeder Link	
20		17601.02			Feeder Link	
27		17703.08			Feeder Link	
25		17673.92			Feeder Link	
26		17688.5			Feeder Link	
CMD2		17795			TT&C	
16		17542.7			Feeder Link	
8		17426.06			Feeder Link	
11		17469.8			Feeder Link	

a. Beam ID:	<b>SPUL</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>14</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>13.5</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>		
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>		

<b>x. Receive Channels</b>						
<b>(i) Channel ID</b>	<b>(ii) Channel Bandwidth (MHz)</b>	<b>(iii) Center Frequency (MHz)</b>	<b>(iv) Channel Frequency (Lower Band Edge) (MHz)</b>	<b>(v) Channel Frequency (Upper Band Edge) (MHz)</b>	<b>(vi) Channel Type</b>	<b>(vii) Point of Communication</b>
31	26	17761.4	17748.4	17774.4	Feeder Link	
25	26	17673.92	17660.92	17686.92	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	
14	26	17513.54	17500.54	17526.54	Feeder Link	
2	26	17338.58	17325.58	17351.58	Feeder Link	

9	26	17440.64	17427.64	17453.64	Feeder Link	
CMD2	1	17795	17794.5	17795.5	TT&C	
5	26	17382.32	17369.32	17395.32	Feeder Link	
8	26	17426.06	17413.06	17439.06	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
26	26	17688.5	17675.5	17701.5	Feeder Link	
20	26	17601.02	17588.02	17614.02	Feeder Link	
11	26	17469.8	17456.8	17482.8	Feeder Link	
18	26	17571.86	17558.86	17584.86	Feeder Link	
CMD1	1	17305	17304.5	17305.5	TT&C	
RFAT	1	17309	17308.5	17309.5	TT&C	
10	26	17455.22	17442.22	17468.22	Feeder Link	
24	26	17659.34	17646.34	17672.34	Feeder Link	
1	26	17324	17311	17337	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	
15	26	17528.12	17515.12	17541.12	Feeder Link	
13	26	17498.96	17485.96	17511.96	Feeder Link	
6	26	17396.9	17383.9	17409.9	Feeder Link	
22	26	17630.18	17617.18	17643.18	Feeder Link	
23	26	17644.76	17631.76	17657.76	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
19	26	17586.44	17573.44	17599.44	Feeder Link	
17	26	17557.28	17544.28	17570.28	Feeder Link	
12	26	17484.38	17471.38	17497.38	Feeder Link	
16	26	17542.7	17529.7	17555.7	Feeder Link	
4	26	17367.74	17354.74	17380.74	Feeder Link	
27	26	17703.08	17690.08	17716.08	Feeder Link	

a. Beam ID:	<b>NBUR</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>13.7</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>13.2</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>		
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>		
<b>x. Receive Channels</b>			

(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
1	26	17324	17311	17337	Feeder Link	
23	26	17644.76	17631.76	17657.76	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
2	26	17338.58	17325.58	17351.58	Feeder Link	
CMD2	1	17795	17794.5	17795.5	TT&C	
18	26	17571.86	17558.86	17584.86	Feeder Link	
10	26	17455.22	17442.22	17468.22	Feeder Link	
17	26	17557.28	17544.28	17570.28	Feeder Link	
26	26	17688.5	17675.5	17701.5	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	
4	26	17367.74	17354.74	17380.74	Feeder Link	
CMD1	1	17305	17304.5	17305.5	TT&C	
20	26	17601.02	17588.02	17614.02	Feeder Link	
24	26	17659.34	17646.34	17672.34	Feeder Link	
RFAT	1	17309	17308.5	17309.5	TT&C	
15	26	17528.12	17515.12	17541.12	Feeder Link	
19	26	17586.44	17573.44	17599.44	Feeder Link	
22	26	17630.18	17617.18	17643.18	Feeder Link	
8	26	17426.06	17413.06	17439.06	Feeder Link	
14	26	17513.54	17500.54	17526.54	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	
13	26	17498.96	17485.96	17511.96	Feeder Link	
9	26	17440.64	17427.64	17453.64	Feeder Link	
6	26	17396.9	17383.9	17409.9	Feeder Link	
31	26	17761.4	17748.4	17774.4	Feeder Link	
16	26	17542.7	17529.7	17555.7	Feeder Link	
11	26	17469.8	17456.8	17482.8	Feeder Link	
25	26	17673.92	17660.92	17686.92	Feeder Link	
12	26	17484.38	17471.38	17497.38	Feeder Link	
5	26	17382.32	17369.32	17395.32	Feeder Link	
27	26	17703.08	17690.08	17716.08	Feeder Link	

a. Beam ID:	<b>MOUL</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.8</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	

h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:
j. Maximum G/T (dB/K):	<b>14.3</b>	w. What information will be provided with the predicted antenna gain contours?:
k. Minimum G/T (dB/K):	<b>13.8</b>	
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>	
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>	

**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
24	26	17659.34	17646.34	17672.34	Feeder Link	
8	26	17426.06	17413.06	17439.06	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	
12	26	17484.38	17471.38	17497.38	Feeder Link	
18	26	17571.86	17558.86	17584.86	Feeder Link	
31	26	17761.4	17748.4	17774.4	Feeder Link	
19	26	17586.44	17573.44	17599.44	Feeder Link	
6	26	17396.9	17383.9	17409.9	Feeder Link	
20	26	17601.02	17588.02	17614.02	Feeder Link	
CMD2	1	17795	17794.5	17795.5	TT&C	
23	26	17644.76	17631.76	17657.76	Feeder Link	
15	26	17528.12	17515.12	17541.12	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
4	26	17367.74	17354.74	17380.74	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	
RFAT	1	17309	17308.5	17309.5	TT&C	
14	26	17513.54	17500.54	17526.54	Feeder Link	
16	26	17542.7	17529.7	17555.7	Feeder Link	
1	26	17324	17311	17337	Feeder Link	
CMD1	1	17305	17304.5	17305.5	TT&C	
25	26	17673.92	17660.92	17686.92	Feeder Link	
17	26	17557.28	17544.28	17570.28	Feeder Link	
22	26	17630.18	17617.18	17643.18	Feeder Link	
11	26	17469.8	17456.8	17482.8	Feeder Link	
5	26	17382.32	17369.32	17395.32	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
13	26	17498.96	17485.96	17511.96	Feeder Link	
26	26	17688.5	17675.5	17701.5	Feeder Link	
9	26	17440.64	17427.64	17453.64	Feeder Link	
27	26	17703.08	17690.08	17716.08	Feeder Link	
10	26	17455.22	17442.22	17468.22	Feeder Link	
2	26	17338.58	17325.58	17351.58	Feeder Link	

a. Beam ID:	<b>GBUR</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>Yes</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>14.9</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>14.4</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-83</b>		
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):	<b>-100</b>		

#### 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
22	26	17630.18	17617.18	17643.18	Feeder Link	
7	26	17411.48	17398.48	17424.48	Feeder Link	
13	26	17498.96	17485.96	17511.96	Feeder Link	
26	26	17688.5	17675.5	17701.5	Feeder Link	
CMD2	1	17795	17794.5	17795.5	TT&C	
19	26	17586.44	17573.44	17599.44	Feeder Link	
1	26	17324	17311	17337	Feeder Link	
10	26	17455.22	17442.22	17468.22	Feeder Link	
5	26	17382.32	17369.32	17395.32	Feeder Link	
17	26	17557.28	17544.28	17570.28	Feeder Link	
31	26	17761.4	17748.4	17774.4	Feeder Link	
6	26	17396.9	17383.9	17409.9	Feeder Link	
3	26	17353.16	17340.16	17366.16	Feeder Link	
18	26	17571.86	17558.86	17584.86	Feeder Link	
29	26	17732.24	17719.24	17745.24	Feeder Link	
4	26	17367.74	17354.74	17380.74	Feeder Link	
RFAT	1	17309	17308.5	17309.5	TT&C	
23	26	17644.76	17631.76	17657.76	Feeder Link	
9	26	17440.64	17427.64	17453.64	Feeder Link	
27	26	17703.08	17690.08	17716.08	Feeder Link	
2	26	17338.58	17325.58	17351.58	Feeder Link	
12	26	17484.38	17471.38	17497.38	Feeder Link	
21	26	17615.6	17602.6	17628.6	Feeder Link	
20	26	17601.02	17588.02	17614.02	Feeder Link	
25	26	17673.92	17660.92	17686.92	Feeder Link	
CMD1	1	17305	17304.5	17305.5	TT&C	

15	26	17528.12	17515.12	17541.12	Feeder Link	
24	26	17659.34	17646.34	17672.34	Feeder Link	
16	26	17542.7	17529.7	17555.7	Feeder Link	
11	26	17469.8	17456.8	17482.8	Feeder Link	
8	26	17426.06	17413.06	17439.06	Feeder Link	
14	26	17513.54	17500.54	17526.54	Feeder Link	

a. Beam ID:	<b>CMDL</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	<b>-83</b>
b. Beam Frequency (Lower Band Edge) (MHz):	<b>17300</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>24</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>17800</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.14</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.14</b>
f. Is this a command beam? (Check box if Yes):	<b>Yes</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	<b>0</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):	<b>0</b>		
l. Maximum Saturation Flux Density (dBW/m <sup>2</sup> ):			
m. Minimum Saturation Flux Density (dBW/m <sup>2</sup> ):			

<b>x. Receive Channels</b>						
<b>(i) Channel ID</b>	<b>(ii) Channel Bandwidth (MHz)</b>	<b>(iii) Center Frequency (MHz)</b>	<b>(iv) Channel Frequency (Lower Band Edge) (MHz)</b>	<b>(v) Channel Frequency (Upper Band Edge) (MHz)</b>	<b>(vi) Channel Type</b>	<b>(vii) Point of Communication</b>
5		17382.32			Feeder Link	
CMD1		17305			TT&C	
1		17324			Feeder Link	
12		17484.38			Feeder Link	
21		17615.6			Feeder Link	
CMD2		17795			TT&C	
13		17498.96			Feeder Link	
2		17338.58			Feeder Link	
9		17440.64			Feeder Link	
31		17761.4			Feeder Link	
18		17571.86			Feeder Link	
24		17659.34			Feeder Link	
27		17703.08			Feeder Link	
20		17601.02			Feeder Link	
6		17396.9			Feeder Link	
22		17630.18			Feeder Link	
RFAT		17309			TT&C	
19		17586.44			Feeder Link	
26		17688.5			Feeder Link	

16		17542.7			Feeder Link	
17		17557.28			Feeder Link	
10		17455.22			Feeder Link	
23		17644.76			Feeder Link	
29		17732.24			Feeder Link	
25		17673.92			Feeder Link	
3		17353.16			Feeder Link	
15		17528.12			Feeder Link	
8		17426.06			Feeder Link	
7		17411.48			Feeder Link	
14		17513.54			Feeder Link	
11		17469.8			Feeder Link	
4		17367.74			Feeder Link	

### S5. Space-to-Earth (Transmit) Beams

a. Beam ID:	<b>P05L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.7</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.4</b>		

#### 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	1	12205	12204.5	12205.5	TT&C	
25	26	12573.92	12560.92	12586.92	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
31	26	12661.4	12648.4	12674.4	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	

26	26	12588.5	12575.5	12601.5	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
21	26	12515.6	12502.6	12528.6	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)
		4 kHz	-181.9	-181.9	-171.9	-181.9	-166.8	-141.9					

a. Beam ID:	<b>C06L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.3</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.8</b>		

**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
29	26	12632.24	12619.24	12645.24	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
14	26	12413.54	12400.54	12426.54	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	

TLM2	1	12695	12694.5	12695.5	TT&C
25	26	12573.92	12560.92	12586.92	Service Link
24	26	12559.34	12546.34	12572.34	Service Link
31	26	12661.4	12648.4	12674.4	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)
		4 kHz	-182.5	-182.5	-172.5	-182.5	-167.5	-142.5					

a. Beam ID:	<b>C07R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.2</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.8</b>		

**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
24	26	12559.34	12546.34	12572.34	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
23	26	12544.76	12531.76	12557.76	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
14	26	12413.54	12400.54	12426.54	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	

27	26	12603.08	12590.08	12616.08	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-182.5	-182.5	-172.5	-182.5	-167.5	-142.5					

a. Beam ID:	<b>P08L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.6</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-17.3</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>56.9</b>		

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
18	26	12471.86	12458.86	12484.86	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
15	26	12428.12	12415.12	12441.12	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
23	26	12544.76	12531.76	12557.76	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	

y. Max. Power-Flux Densities										
			Angles of Arrival PFD				Geographic Region PFD			



		4 kHz	-181.7	-181.7	-171.7	-181.7	-166.7	-141.7				
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a. Beam ID:	<b>Y03R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.3</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.9</b>		

<b>x. Transmit Channels</b>						
(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
22	26	12530.18	12517.18	12543.18	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
TLM1	1	12205	12204.5	12205.5	TT&C	
17	26	12457.28	12444.28	12470.28	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	

<b>y. Max. Power-Flux Densities</b>													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-181.4	-181.4	-171.4	-181.4	-166.4	-141.4					

a. Beam ID:	<b>G08R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
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b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.8</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.2</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.9</b>		

**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
31	26	12661.4	12648.4	12674.4	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
15	26	12428.12	12415.12	12441.12	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
27	26	12603.08	12590.08	12616.08	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
23	26	12544.76	12531.76	12557.76	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)
		4 kHz	-181.4	-181.4	-171.4	-181.4	-166.4	-141.4					

a. Beam ID:	<b>OMTL</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.23</b>

e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.23</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-39.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>20.6</b>		

**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
14	26	12413.54	12400.54	12426.54	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
27	26	12603.08	12590.08	12616.08	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
17	26	12457.28	12444.28	12470.28	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	

**y. Max. Power-Flux Densities**

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(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)	
		4 kHz	-171	-169	-168	-167	-166	-165					

a. Beam ID:	<b>Y04L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.8</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	

h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.6</b>	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	<b>58.5</b>	

<b>x. Transmit Channels</b>						
(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
25	26	12573.92	12560.92	12586.92	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
TLM1	1	12205	12204.5	12205.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	

<b>y. Max. Power-Flux Densities</b>													
			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)
		4 kHz	-181.8	-181.8	-171.8	-181.8	-166.8	-141.8					

a. Beam ID:	<b>G02L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.2</b>	w. What information will be provided with the predicted antenna gain contours?:

k. Maximum Transmit EIRP (dBW):		<b>58.9</b>				
<b>x. Transmit Channels</b>						
(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
16	26	12442.7	12429.7	12455.7	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
24	26	12559.34	12546.34	12572.34	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	

<b>y. Max. Power-Flux Densities</b>													
			<b>Angles of Arrival PFD</b>						<b>Geographic Region PFD</b>				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-181.4	-181.4	-171.4	-171.4	-171.4	-141.4					

a. Beam ID:	<b>Y12R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>46.2</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.1</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>60.1</b>		

<b>x. Transmit Channels</b>						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower	(v) Channel Frequency (Upper	(vi) Channel Type	(vii) Point of Communication

			Band Edge) (MHz)	Band Edge) (MHz)		
31	26	12661.4	12648.4	12674.4	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
23	26	12544.76	12531.76	12557.76	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
25	26	12573.92	12560.92	12586.92	Service Link	
24	26	12559.34	12546.34	12572.34	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)
		4 kHz	-155.2	-155.2	-144.2	-140.3	-144.2	-154.3					

a. Beam ID:	<b>Y11R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>46.1</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-19.9</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>54.3</b>		

#### 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
19	26	12486.44	12473.44	12499.44	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	

21	26	12515.6	12502.6	12528.6	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
24	26	12559.34	12546.34	12572.34	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
15	26	12428.12	12415.12	12441.12	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)
		4 kHz	-186	-186	-176	-186	-171	-146					

a. Beam ID:	<b>C11R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-17.7</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>56.4</b>		

#### 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
17	26	12457.28	12444.28	12470.28	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	

TLM2	1	12695	12694.5	12695.5	TT&C	
14	26	12413.54	12400.54	12426.54	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
TLM1	1	12205	12204.5	12205.5	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)
		4 kHz	-183.9	-183.9	-173.9	-183.9	-168.9	-143.9					

a. Beam ID:	<b>Y07R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.1</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.9</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.3</b>		

**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
31	26	12661.4	12648.4	12674.4	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
26	26	12588.5	12575.5	12601.5	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	

15	26	12428.12	12415.12	12441.12	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
14	26	12413.54	12400.54	12426.54	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-182	-182	-172	-182	-167	-142					

a. Beam ID:	<b>C14R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.8</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.3</b>		

**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
22	26	12530.18	12517.18	12543.18	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
26	26	12588.5	12575.5	12601.5	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	

21	26	12515.6	12502.6	12528.6	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
TLM1	1	12205	12204.5	12205.5	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)
		4 kHz	-182	-182	-172	-146	-142	-142.3					

a. Beam ID:	<b>G06R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.6</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.5</b>		

**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
21	26	12515.6	12502.6	12528.6	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	

31	26	12661.4	12648.4	12674.4	Service Link
TLM2	1	12695	12694.5	12695.5	TT&C
26	26	12588.5	12575.5	12601.5	Service Link
20	26	12501.02	12488.02	12514.02	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)
		4 kHz	-182.8	-182.8	-172.8	-182.8	-167.8	-142.8					

a. Beam ID:	<b>Y05R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.2</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.1</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.1</b>		

**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
24	26	12559.34	12546.34	12572.34	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
15	26	12428.12	12415.12	12441.12	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
14	26	12413.54	12400.54	12426.54	Service Link	

29	26	12632.24	12619.24	12645.24	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-182.2	-182.2	-172.2	-182.2	-167.2	-142.2					

a. Beam ID:	<b>Y01R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.7</b>		

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
TLM2	1	12695	12694.5	12695.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
23	26	12544.76	12531.76	12557.76	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	

y. Max. Power-Flux Densities										
			Angles of Arrival PFD				Geographic Region PFD			



		4 kHz	-183.7	-183.7	-173.7	-183.7	-168.7	-143.7				
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a. Beam ID:	<b>P06R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.8</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.4</b>		

**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
20	26	12501.02	12488.02	12514.02	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
27	26	12603.08	12590.08	12616.08	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
26	26	12588.5	12575.5	12601.5	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
25	26	12573.92	12560.92	12586.92	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-180.9	-180.9	-170.9	-180.9	-165.9	-140.9					

a. Beam ID:	<b>P02L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
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b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.9</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.3</b>		

<b>x. Transmit Channels</b>						
(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
15	26	12428.12	12415.12	12441.12	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
TLM2	1	12695	12694.5	12695.5	TT&C	
29	26	12632.24	12619.24	12645.24	Service Link	

<b>y. Max. Power-Flux Densities</b>													
			<b>Angles of Arrival PFD</b>						<b>Geographic Region PFD</b>				
(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)
		4 kHz	-181	-181	-171	-181	-166	-141					

a. Beam ID:	<b>P14L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>47</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>

e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.2</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.9</b>		

**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
24	26	12559.34	12546.34	12572.34	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
TLM2	1	12695	12694.5	12695.5	TT&C	
18	26	12471.86	12458.86	12484.86	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	

**y. Max. Power-Flux Densities**

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(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)	
		4 kHz	-172.4	-172.4	-160.4	-182.4	-167.4	-142.4					

a. Beam ID:	<b>C12R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>44.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	

h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-20.3</b>	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	<b>53.9</b>	

<b>x. Transmit Channels</b>						
(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
24	26	12559.34	12546.34	12572.34	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
18	26	12471.86	12458.86	12484.86	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	

<b>y. Max. Power-Flux Densities</b>													
			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)
		4 kHz	-186.4	-186.4	-176.4	-186.4	-171.4	-146.4					

a. Beam ID:	<b>C05R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.1</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.9</b>	w. What information will be provided with the predicted antenna gain contours?:	

k. Maximum Transmit EIRP (dBW):							57.2						
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							
22	26	12530.18	12517.18	12543.18	Service Link								
TLM1	1	12205	12204.5	12205.5	TT&C								
19	26	12486.44	12473.44	12499.44	Service Link								
16	26	12442.7	12429.7	12455.7	Service Link								
27	26	12603.08	12590.08	12616.08	Service Link								
26	26	12588.5	12575.5	12601.5	Service Link								
21	26	12515.6	12502.6	12528.6	Service Link								
29	26	12632.24	12619.24	12645.24	Service Link								
25	26	12573.92	12560.92	12586.92	Service Link								
20	26	12501.02	12488.02	12514.02	Service Link								
24	26	12559.34	12546.34	12572.34	Service Link								
17	26	12457.28	12444.28	12470.28	Service Link								
31	26	12661.4	12648.4	12674.4	Service Link								
23	26	12544.76	12531.76	12557.76	Service Link								
18	26	12471.86	12458.86	12484.86	Service Link								
15	26	12428.12	12415.12	12441.12	Service Link								
14	26	12413.54	12400.54	12426.54	Service Link								
TLM2	1	12695	12694.5	12695.5	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)
		4 kHz	-183.1	-183.1	-173.1	-183.1	-168.1	-143.1					

a. Beam ID:	<b>Y08R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.2</b>		

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

			Band Edge) (MHz)	Band Edge) (MHz)		
24	26	12559.34	12546.34	12572.34	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
27	26	12603.08	12590.08	12616.08	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
29	26	12632.24	12619.24	12645.24	Service Link	
26	26	12588.5	12575.5	12601.5	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)
		4 kHz	-181.1	-181.1	-171.1	-181.1	-166.1	-141.1					

a. Beam ID:	<b>G03R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.8</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.9</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.2</b>		

#### 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
31	26	12661.4	12648.4	12674.4	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	

16	26	12442.7	12429.7	12455.7	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
23	26	12544.76	12531.76	12557.76	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
18	26	12471.86	12458.86	12484.86	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
25	26	12573.92	12560.92	12586.92	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)
		4 kHz	-181.1	-181.1	-171.1	-181.1	-166.1	-141.1					

a. Beam ID:	<b>G10R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>46.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-18</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>56.2</b>		

#### 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
18	26	12471.86	12458.86	12484.86	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
21	26	12515.6	12502.6	12528.6	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	

29	26	12632.24	12619.24	12645.24	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
16	26	12442.7	12429.7	12455.7	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)
		4 kHz	-184.1	-184.1	-174.1	-184.1	-169.1	-144.1					

a. Beam ID:	<b>C03R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.3</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.8</b>		

**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
TLM2	1	12695	12694.5	12695.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
27	26	12603.08	12590.08	12616.08	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	

24	26	12559.34	12546.34	12572.34	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
17	26	12457.28	12444.28	12470.28	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)
		4 kHz	-180.4	-180.4	-170.4	-180.5	-165.5	-140.5					

a. Beam ID:	<b>G07L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.1</b>		

**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
24	26	12559.34	12546.34	12572.34	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
17	26	12457.28	12444.28	12470.28	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	

15	26	12428.12	12415.12	12441.12	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
TLM2	1	12695	12694.5	12695.5	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)
		4 kHz	-182.2	-182.2	-172.2	-182.2	-167.2	-142.2					

a. Beam ID:	<b>P04L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.7</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.5</b>		

**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	1	12205	12204.5	12205.5	TT&C	
17	26	12457.28	12444.28	12470.28	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	

22	26	12530.18	12517.18	12543.18	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
23	26	12544.76	12531.76	12557.76	Service Link	
16	26	12442.7	12429.7	12455.7	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-182.8	-182.8	-172.8	-182.8	-167.8	-142.8					

a. Beam ID:	<b>Y08L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.5</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.7</b>		

**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
14	26	12413.54	12400.54	12426.54	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
19	26	12486.44	12473.44	12499.44	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
31	26	12661.4	12648.4	12674.4	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	

26	26	12588.5	12575.5	12601.5	Service Link	
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**y. Max. Power-Flux Densities**

			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-182.6	-182.6	-172.6	-182.6	-167.6	-142.6					

a. Beam ID:	<b>P11L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>47.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-18</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>56.2</b>		

**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
24	26	12559.34	12546.34	12572.34	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
TLM2	1	12695	12694.5	12695.5	TT&C	
31	26	12661.4	12648.4	12674.4	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	

**y. Max. Power-Flux Densities**

			Angles of Arrival PFD						Geographic Region PFD				
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		4 kHz	-181.2	-181.2	-171.2	-181.2	-166.2	-141.2				
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a. Beam ID:	<b>C13L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.6</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-17.7</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>56.4</b>		

<b>x. Transmit Channels</b>						
(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
TLM2	1	12695	12694.5	12695.5	TT&C	
15	26	12428.12	12415.12	12441.12	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
14	26	12413.54	12400.54	12426.54	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	

<b>y. Max. Power-Flux Densities</b>													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-186.4	-186.4	-176.4	-183.9	-168.9	-143.9					

a. Beam ID:	<b>P13L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
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b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>47.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-20.2</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>53.9</b>		

<b>x. Transmit Channels</b>						
(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
31	26	12661.4	12648.4	12674.4	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
24	26	12559.34	12546.34	12572.34	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	

<b>y. Max. Power-Flux Densities</b>													
			<b>Angles of Arrival PFD</b>						<b>Geographic Region PFD</b>				
(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)
		4 kHz	-186.4	-186.4	-176.4	-186.4	-171.4	-146.4					

a. Beam ID:	<b>P05R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.6</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>

e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-13.9</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>60.2</b>		

**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
19	26	12486.44	12473.44	12499.44	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
31	26	12661.4	12648.4	12674.4	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	

**y. Max. Power-Flux Densities**

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(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)	
		4 kHz	-180.1	-180.1	-170.1	-180.1	-165.1	-140.1					

a. Beam ID:	<b>Y04R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	

h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.3</b>	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	<b>58.8</b>	

<b>x. Transmit Channels</b>						
(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
24	26	12559.34	12546.34	12572.34	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
14	26	12413.54	12400.54	12426.54	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	

<b>y. Max. Power-Flux Densities</b>													
			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)
		4 kHz	-181.5	-181.5	-171.5	-181.8	-166.8	-141.8					

a. Beam ID:	<b>G09L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>47.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-17.6</b>	w. What information will be provided with the predicted antenna gain contours?:	

k. Maximum Transmit EIRP (dBW):							56.6						
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							
19	26	12486.44	12473.44	12499.44	Service Link								
25	26	12573.92	12560.92	12586.92	Service Link								
14	26	12413.54	12400.54	12426.54	Service Link								
29	26	12632.24	12619.24	12645.24	Service Link								
26	26	12588.5	12575.5	12601.5	Service Link								
24	26	12559.34	12546.34	12572.34	Service Link								
22	26	12530.18	12517.18	12543.18	Service Link								
TLM2	1	12695	12694.5	12695.5	TT&C								
18	26	12471.86	12458.86	12484.86	Service Link								
23	26	12544.76	12531.76	12557.76	Service Link								
21	26	12515.6	12502.6	12528.6	Service Link								
15	26	12428.12	12415.12	12441.12	Service Link								
27	26	12603.08	12590.08	12616.08	Service Link								
17	26	12457.28	12444.28	12470.28	Service Link								
TLM1	1	12205	12204.5	12205.5	TT&C								
31	26	12661.4	12648.4	12674.4	Service Link								
16	26	12442.7	12429.7	12455.7	Service Link								
20	26	12501.02	12488.02	12514.02	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)
		4 kHz	-183.7	-183.7	-173.7	-183.7	-168.7	-143.7					

a. Beam ID:	<b>P01R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.3</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-13</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>61.2</b>		

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

			Band Edge) (MHz)	Band Edge) (MHz)		
23	26	12544.76	12531.76	12557.76	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
26	26	12588.5	12575.5	12601.5	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
29	26	12632.24	12619.24	12645.24	Service Link	
16	26	12442.7	12429.7	12455.7	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)
		4 kHz	-179.1	-179.1	-169.1	-154.1	-140.3	-139.1					

a. Beam ID:	<b>P11R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-20</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>54.1</b>		

#### 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
23	26	12544.76	12531.76	12557.76	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	

21	26	12515.6	12502.6	12528.6	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
TLM2	1	12695	12694.5	12695.5	TT&C	
29	26	12632.24	12619.24	12645.24	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
25	26	12573.92	12560.92	12586.92	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-161.2	-161.2	-150.2	-147.3	-146.2	-148.3					

a. Beam ID:	<b>G11R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>45.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-20.2</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>54</b>		

**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
25	26	12573.92	12560.92	12586.92	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
26	26	12588.5	12575.5	12601.5	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	

15	26	12428.12	12415.12	12441.12	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
21	26	12515.6	12502.6	12528.6	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
24	26	12559.34	12546.34	12572.34	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)
		4 kHz	-186.3	-186.3	-176.3	-186.3	-171.3	-146.3					

a. Beam ID:	<b>P09L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.8</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.8</b>		

**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	1	12205	12204.5	12205.5	TT&C	
18	26	12471.86	12458.86	12484.86	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	

TLM2	1	12695	12694.5	12695.5	TT&C	
31	26	12661.4	12648.4	12674.4	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
24	26	12559.34	12546.34	12572.34	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)
		4 kHz	-182.5	-182.5	-172.5	-182.5	-167.5	-142.5					

a. Beam ID:	<b>Y09L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>45.1</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-19.1</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>55.1</b>		

#### 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
23	26	12544.76	12531.76	12557.76	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	

TLM1	1	12205	12204.5	12205.5	TT&C
15	26	12428.12	12415.12	12441.12	Service Link
18	26	12471.86	12458.86	12484.86	Service Link
27	26	12603.08	12590.08	12616.08	Service Link
17	26	12457.28	12444.28	12470.28	Service Link
29	26	12632.24	12619.24	12645.24	Service Link
31	26	12661.4	12648.4	12674.4	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-185.2	-185.2	-175.2	-185.2	-170.2	-145.2					

a. Beam ID:	<b>C10R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.8</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.8</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.3</b>		

**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
21	26	12515.6	12502.6	12528.6	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
17	26	12457.28	12444.28	12470.28	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	

16	26	12442.7	12429.7	12455.7	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
25	26	12573.92	12560.92	12586.92	Service Link	
18	26	12471.86	12458.86	12484.86	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-183	-183	-173	-183	-168	-143					

a. Beam ID:	<b>P12L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>46</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-20.6</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>53.5</b>		

**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
19	26	12486.44	12473.44	12499.44	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
16	26	12442.7	12429.7	12455.7	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
18	26	12471.86	12458.86	12484.86	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	

23	26	12544.76	12531.76	12557.76	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-186.8	-186.8	-176.8	-186.8	-171.8	-146.8					

a. Beam ID:	<b>G04L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-13.3</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>60.9</b>		

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
18	26	12471.86	12458.86	12484.86	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
24	26	12559.34	12546.34	12572.34	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	

y. Max. Power-Flux Densities										
			Angles of Arrival PFD				Geographic Region PFD			



		4 kHz	-180.5	-180.5	-170.5	-180.5	-165.5	-140.5				
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a. Beam ID:	<b>G01R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.6</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-13.7</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>60.4</b>		

#### 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
27	26	12603.08	12590.08	12616.08	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
31	26	12661.4	12648.4	12674.4	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
18	26	12471.86	12458.86	12484.86	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	

#### y. Max. Power-Flux Densities

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(iv) 0-2° (dBW/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	
		4 kHz	-179.9	-179.9	-159.9	-155.9	-145.9	-139.9					

a. Beam ID:	<b>Y10L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
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b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>47</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-18.3</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>55.8</b>		

**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
27	26	12603.08	12590.08	12616.08	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
25	26	12573.92	12560.92	12586.92	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
22	26	12530.18	12517.18	12543.18	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)
		4 kHz	-184.5	-184.5	-174.5	-184.5	-169.5	-144.5					

a. Beam ID:	<b>C06R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>

e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.2</b>		

**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
24	26	12559.34	12546.34	12572.34	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
23	26	12544.76	12531.76	12557.76	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
25	26	12573.92	12560.92	12586.92	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	

**y. Max. Power-Flux Densities**

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(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)	
		4 kHz	-181.1	-181.1	-171.1	-181.1	-166.1	-141.1					

a. Beam ID:	<b>Y06L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>47.8</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	

h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-17.1</b>	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	<b>57</b>	

**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
20	26	12501.02	12488.02	12514.02	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
25	26	12573.92	12560.92	12586.92	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
29	26	12632.24	12619.24	12645.24	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)
		4 kHz	-183.3	-183.3	-173.3	-183.3	-168.3	-143.3					

a. Beam ID:	<b>Y01L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.7</b>	w. What information will be provided with the predicted antenna gain contours?:	

k. Maximum Transmit EIRP (dBW):							57.5						
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							
23	26	12544.76	12531.76	12557.76	Service Link								
27	26	12603.08	12590.08	12616.08	Service Link								
15	26	12428.12	12415.12	12441.12	Service Link								
29	26	12632.24	12619.24	12645.24	Service Link								
TLM1	1	12205	12204.5	12205.5	TT&C								
26	26	12588.5	12575.5	12601.5	Service Link								
22	26	12530.18	12517.18	12543.18	Service Link								
14	26	12413.54	12400.54	12426.54	Service Link								
16	26	12442.7	12429.7	12455.7	Service Link								
TLM2	1	12695	12694.5	12695.5	TT&C								
20	26	12501.02	12488.02	12514.02	Service Link								
31	26	12661.4	12648.4	12674.4	Service Link								
21	26	12515.6	12502.6	12528.6	Service Link								
17	26	12457.28	12444.28	12470.28	Service Link								
24	26	12559.34	12546.34	12572.34	Service Link								
19	26	12486.44	12473.44	12499.44	Service Link								
18	26	12471.86	12458.86	12484.86	Service Link								
25	26	12573.92	12560.92	12586.92	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-182.8	-182.8	-172.8	-172.8	-153.8	-142.8					

a. Beam ID:	<b>Y03L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.8</b>		

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

			Band Edge) (MHz)	Band Edge) (MHz)		
25	26	12573.92	12560.92	12586.92	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
27	26	12603.08	12590.08	12616.08	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
15	26	12428.12	12415.12	12441.12	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)
		4 kHz	-181.5	-181.5	-171.5	-181.5	-166.5	-141.5					

a. Beam ID:	<b>Y02R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.2</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.8</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.4</b>		

#### 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
22	26	12530.18	12517.18	12543.18	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	

26	26	12588.5	12575.5	12601.5	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
24	26	12559.34	12546.34	12572.34	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
20	26	12501.02	12488.02	12514.02	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)
		4 kHz	-180.9	-180.9	-170.9	-180.9	-165.9	-140.9					

a. Beam ID:	<b>C12L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.8</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-18.6</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>55.6</b>		

#### 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
29	26	12632.24	12619.24	12645.24	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
14	26	12413.54	12400.54	12426.54	Service Link	

17	26	12457.28	12444.28	12470.28	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
21	26	12515.6	12502.6	12528.6	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
26	26	12588.5	12575.5	12601.5	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)
		4 kHz	-184.7	-184.7	-174.7	-184.7	-169.7	-144.7					

a. Beam ID:	<b>G09R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.3</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-17</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.1</b>		

**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
31	26	12661.4	12648.4	12674.4	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
TLM2	1	12695	12694.5	12695.5	TT&C	
25	26	12573.92	12560.92	12586.92	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	

14	26	12413.54	12400.54	12426.54	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
19	26	12486.44	12473.44	12499.44	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)
		4 kHz	-183.2	-183.2	-173.2	-183.2	-168.2	-143.2					

a. Beam ID:	<b>P07L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-13.5</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>60.6</b>		

**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
18	26	12471.86	12458.86	12484.86	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
25	26	12573.92	12560.92	12586.92	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	

27	26	12603.08	12590.08	12616.08	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
26	26	12588.5	12575.5	12601.5	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)
		4 kHz	-179.7	-179.7	-169.7	-179.7	-164.7	-139.7					

a. Beam ID:	<b>C01L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.1</b>		

**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
TLM2	1	12695	12694.5	12695.5	TT&C	
31	26	12661.4	12648.4	12674.4	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	

TLM1	1	12205	12204.5	12205.5	TT&C
22	26	12530.18	12517.18	12543.18	Service Link
23	26	12544.76	12531.76	12557.76	Service Link
18	26	12471.86	12458.86	12484.86	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-181.2	-181.2	-171.2	-171.2	-151.2	-141.2					

a. Beam ID:	<b>G05R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.7</b>		

**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
25	26	12573.92	12560.92	12586.92	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
31	26	12661.4	12648.4	12674.4	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
27	26	12603.08	12590.08	12616.08	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	

22	26	12530.18	12517.18	12543.18	Service Link	
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**y. Max. Power-Flux Densities**

			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-181.6	-181.6	-171.6	-181.6	-166.6	-141.6					

a. Beam ID:	<b>G01L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.1</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59</b>		

**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
31	26	12661.4	12648.4	12674.4	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
24	26	12559.34	12546.34	12572.34	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	

**y. Max. Power-Flux Densities**

			Angles of Arrival PFD						Geographic Region PFD				
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		4 kHz	-186.2	-186.2	-176.2	-186.2	-171.2	-146.2				
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a. Beam ID:	<b>C09R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-19</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>55.1</b>		

**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
15	26	12428.12	12415.12	12441.12	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
24	26	12559.34	12546.34	12572.34	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	

**y. Max. Power-Flux Densities**

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(iv) 0-2° (dBW/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	
		4 kHz	-185.2	-185.2	-175.2	-185.2	-170.2	-145.2					

a. Beam ID:	<b>C03L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
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b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.2</b>		

**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
26	26	12588.5	12575.5	12601.5	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
25	26	12573.92	12560.92	12586.92	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)
		4 kHz	-181.1	-181.1	-171.1	-181.1	-166.1	-141.1					

a. Beam ID:	<b>OMTR</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.23</b>

e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.23</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-38.5</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>21.5</b>		

**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
23	26	12544.76	12531.76	12557.76	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
25	26	12573.92	12560.92	12586.92	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	

**y. Max. Power-Flux Densities**

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(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)	
		4 kHz	-171	-169	-168	-167	-166	-165					

a. Beam ID:	<b>C08L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	

h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-18.3</b>	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	<b>55.9</b>	

<b>x. Transmit Channels</b>						
(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
TLM2	1	12695	12694.5	12695.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	

<b>y. Max. Power-Flux Densities</b>													
			<b>Angles of Arrival PFD</b>						<b>Geographic Region PFD</b>				
(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)
		4 kHz	-184.4	-184.4	-174.4	-184.4	-169.4	-144.4					

a. Beam ID:	<b>C01R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-13.9</b>	w. What information will be provided with the predicted antenna gain contours?:	

k. Maximum Transmit EIRP (dBW):							60.3						
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							
22	26	12530.18	12517.18	12543.18	Service Link								
25	26	12573.92	12560.92	12586.92	Service Link								
27	26	12603.08	12590.08	12616.08	Service Link								
TLM2	1	12695	12694.5	12695.5	TT&C								
24	26	12559.34	12546.34	12572.34	Service Link								
15	26	12428.12	12415.12	12441.12	Service Link								
21	26	12515.6	12502.6	12528.6	Service Link								
31	26	12661.4	12648.4	12674.4	Service Link								
TLM1	1	12205	12204.5	12205.5	TT&C								
14	26	12413.54	12400.54	12426.54	Service Link								
16	26	12442.7	12429.7	12455.7	Service Link								
26	26	12588.5	12575.5	12601.5	Service Link								
29	26	12632.24	12619.24	12645.24	Service Link								
18	26	12471.86	12458.86	12484.86	Service Link								
20	26	12501.02	12488.02	12514.02	Service Link								
23	26	12544.76	12531.76	12557.76	Service Link								
17	26	12457.28	12444.28	12470.28	Service Link								
19	26	12486.44	12473.44	12499.44	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)
		4 kHz	-180	-180	-170	-170	-165	-140					

a. Beam ID:	<b>P08R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.6</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.6</b>		

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

			Band Edge) (MHz)	Band Edge) (MHz)		
TLM1	1	12205	12204.5	12205.5	TT&C	
24	26	12559.34	12546.34	12572.34	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
22	26	12530.18	12517.18	12543.18	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
26	26	12588.5	12575.5	12601.5	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)
		4 kHz	-182.7	-182.7	-172.7	-182.7	-167.7	-142.7					

a. Beam ID:	<b>Y05L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.6</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.7</b>		

#### 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
29	26	12632.24	12619.24	12645.24	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	

TLM2	1	12695	12694.5	12695.5	TT&C	
16	26	12442.7	12429.7	12455.7	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
TLM1	1	12205	12204.5	12205.5	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)
		4 kHz	-181.6	-181.6	-171.6	-181.6	-166.6	-141.6					

a. Beam ID:	<b>G06L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.8</b>		

#### 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
25	26	12573.92	12560.92	12586.92	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
19	26	12486.44	12473.44	12499.44	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
17	26	12457.28	12444.28	12470.28	Service Link	

16	26	12442.7	12429.7	12455.7	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
15	26	12428.12	12415.12	12441.12	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)
		4 kHz	-182.5	-182.5	-172.5	-182.5	-167.5	-142.5					

a. Beam ID:	<b>C05L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.6</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.5</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.6</b>		

**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
23	26	12544.76	12531.76	12557.76	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
TLM1	1	12205	12204.5	12205.5	TT&C	
21	26	12515.6	12502.6	12528.6	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	

15	26	12428.12	12415.12	12441.12	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
20	26	12501.02	12488.02	12514.02	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)
		4 kHz	-180.7	-180.7	-170.7	-180.7	-165.7	-140.7					

a. Beam ID:	<b>G05L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.6</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-17</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.2</b>		

**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
20	26	12501.02	12488.02	12514.02	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
16	26	12442.7	12429.7	12455.7	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
19	26	12486.44	12473.44	12499.44	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	

29	26	12632.24	12619.24	12645.24	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
24	26	12559.34	12546.34	12572.34	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)
		4 kHz	-183.1	-183.1	-173.1	-173.1	-160.1	-143.1					

a. Beam ID:	<b>C13R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.2</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-18.6</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>55.5</b>		

**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
17	26	12457.28	12444.28	12470.28	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
TLM1	1	12205	12204.5	12205.5	TT&C	
23	26	12544.76	12531.76	12557.76	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	

29	26	12632.24	12619.24	12645.24	Service Link
31	26	12661.4	12648.4	12674.4	Service Link
19	26	12486.44	12473.44	12499.44	Service Link
26	26	12588.5	12575.5	12601.5	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-184.8	-184.8	-174.8	-184.8	-169.8	-144.8					

a. Beam ID:	<b>Y10R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.1</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-18.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>55.8</b>		

**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
22	26	12530.18	12517.18	12543.18	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
18	26	12471.86	12458.86	12484.86	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
21	26	12515.6	12502.6	12528.6	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	

16	26	12442.7	12429.7	12455.7	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-184.5	-184.5	-174.5	-184.5	-169.5	-144.5					

a. Beam ID:	<b>G11L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>47.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-18.8</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>55.3</b>		

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				
24	26	12559.34	12546.34	12572.34	Service Link					
25	26	12573.92	12560.92	12586.92	Service Link					
16	26	12442.7	12429.7	12455.7	Service Link					
27	26	12603.08	12590.08	12616.08	Service Link					
26	26	12588.5	12575.5	12601.5	Service Link					
31	26	12661.4	12648.4	12674.4	Service Link					
15	26	12428.12	12415.12	12441.12	Service Link					
18	26	12471.86	12458.86	12484.86	Service Link					
29	26	12632.24	12619.24	12645.24	Service Link					
TLM2	1	12695	12694.5	12695.5	TT&C					
TLM1	1	12205	12204.5	12205.5	TT&C					
21	26	12515.6	12502.6	12528.6	Service Link					
19	26	12486.44	12473.44	12499.44	Service Link					
22	26	12530.18	12517.18	12543.18	Service Link					
14	26	12413.54	12400.54	12426.54	Service Link					
17	26	12457.28	12444.28	12470.28	Service Link					
23	26	12544.76	12531.76	12557.76	Service Link					
20	26	12501.02	12488.02	12514.02	Service Link					
y. Max. Power-Flux Densities										
			Angles of Arrival PFD				Geographic Region PFD			



		4 kHz	-182.3	-182.3	-172.3	-182.3	-167.3	-142.3				
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a. Beam ID:	<b>C07L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-13.7</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>60.5</b>		

#### 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
18	26	12471.86	12458.86	12484.86	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
26	26	12588.5	12575.5	12601.5	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	

#### y. Max. Power-Flux Densities

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(iv) 0-2° (dBW/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	
		4 kHz	-179.8	-179.8	-169.8	-179.8	-164.8	-139.8					

a. Beam ID:	<b>G04R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
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b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.4</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.8</b>		

**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
16	26	12442.7	12429.7	12455.7	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
23	26	12544.76	12531.76	12557.76	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
24	26	12559.34	12546.34	12572.34	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)
		4 kHz	-180.5	-180.5	-170.5	-180.5	-165.5	-140.5					

a. Beam ID:	<b>Y02L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>

e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.9</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.3</b>		

#### 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
14	26	12413.54	12400.54	12426.54	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
25	26	12573.92	12560.92	12586.92	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
16	26	12442.7	12429.7	12455.7	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	

#### y. Max. Power-Flux Densities

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(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)	
		4 kHz	-181	-181	-171	-181	-166	-141					

a. Beam ID:	<b>G07R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	

h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15</b>	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	<b>59.1</b>	

<b>x. Transmit Channels</b>						
(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
24	26	12559.34	12546.34	12572.34	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
15	26	12428.12	12415.12	12441.12	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	

<b>y. Max. Power-Flux Densities</b>													
			<b>Angles of Arrival PFD</b>						<b>Geographic Region PFD</b>				
(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)
		4 kHz	-181.2	-181.2	-171.2	-181.2	-166.2	-141.2					

a. Beam ID:	<b>C02R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.2</b>	w. What information will be provided with the predicted antenna gain contours?:	

k. Maximum Transmit EIRP (dBW):							59.9						
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							
31	26	12661.4	12648.4	12674.4	Service Link								
TLM2	1	12695	12694.5	12695.5	TT&C								
16	26	12442.7	12429.7	12455.7	Service Link								
20	26	12501.02	12488.02	12514.02	Service Link								
18	26	12471.86	12458.86	12484.86	Service Link								
14	26	12413.54	12400.54	12426.54	Service Link								
21	26	12515.6	12502.6	12528.6	Service Link								
27	26	12603.08	12590.08	12616.08	Service Link								
15	26	12428.12	12415.12	12441.12	Service Link								
25	26	12573.92	12560.92	12586.92	Service Link								
29	26	12632.24	12619.24	12645.24	Service Link								
TLM1	1	12205	12204.5	12205.5	TT&C								
17	26	12457.28	12444.28	12470.28	Service Link								
26	26	12588.5	12575.5	12601.5	Service Link								
24	26	12559.34	12546.34	12572.34	Service Link								
22	26	12530.18	12517.18	12543.18	Service Link								
19	26	12486.44	12473.44	12499.44	Service Link								
23	26	12544.76	12531.76	12557.76	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)
		4 kHz	-180.4	-180.4	-170.4	-180.4	-165.4	-140.4					

a. Beam ID:	<b>G13R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.2</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-19.6</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>54.6</b>		

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

			Band Edge) (MHz)	Band Edge) (MHz)		
15	26	12428.12	12415.12	12441.12	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
29	26	12632.24	12619.24	12645.24	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
14	26	12413.54	12400.54	12426.54	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
31	26	12661.4	12648.4	12674.4	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)
		4 kHz	-185.7	-185.7	-175.7	-185.7	-170.7	-145.7					

a. Beam ID:	<b>C09L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.3</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.7</b>		

**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
19	26	12486.44	12473.44	12499.44	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	

21	26	12515.6	12502.6	12528.6	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
TLM2	1	12695	12694.5	12695.5	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)
		4 kHz	-181.6	-181.6	-171.6	-181.6	-166.6	-141.6					

a. Beam ID:	<b>P10L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.6</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-17.2</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57</b>		

**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	1	12205	12204.5	12205.5	TT&C	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
29	26	12632.24	12619.24	12645.24	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	

20	26	12501.02	12488.02	12514.02	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
31	26	12661.4	12648.4	12674.4	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)
		4 kHz	-183.3	-183.3	-173.3	-183.3	-168.3	-143.3					

a. Beam ID:	<b>P01L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.3</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.9</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.3</b>		

**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
23	26	12544.76	12531.76	12557.76	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
16	26	12442.7	12429.7	12455.7	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	

17	26	12457.28	12444.28	12470.28	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
14	26	12413.54	12400.54	12426.54	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
22	26	12530.18	12517.18	12543.18	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-181	-181	-171	-171	-161	-141					

a. Beam ID:	<b>C08R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>48.1</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.7</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.5</b>		

#### 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
22	26	12530.18	12517.18	12543.18	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
23	26	12544.76	12531.76	12557.76	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
16	26	12442.7	12429.7	12455.7	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	

20	26	12501.02	12488.02	12514.02	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
21	26	12515.6	12502.6	12528.6	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)
		4 kHz	-181.8	-181.8	-171.8	-181.8	-166.8	-141.8					

a. Beam ID:	<b>TLML</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>20</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.23</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.23</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-46.2</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>13.8</b>		

**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	1	12205	12204.5	12205.5	TT&C	
25	26	12573.92	12560.92	12586.92	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	

TLM2	1	12695	12694.5	12695.5	TT&C
14	26	12413.54	12400.54	12426.54	Service Link
23	26	12544.76	12531.76	12557.76	Service Link
19	26	12486.44	12473.44	12499.44	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)
		4 kHz	-212.3	-212.3	-212.3	-212.3	-197.3	-172.3					

a. Beam ID:	<b>C02L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-15.5</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>58.7</b>		

**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
31	26	12661.4	12648.4	12674.4	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
24	26	12559.34	12546.34	12572.34	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
14	26	12413.54	12400.54	12426.54	Service Link	

21	26	12515.6	12502.6	12528.6	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/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-181.6	-181.6	-171.6	-181.6	-166.6	-141.6					

a. Beam ID:	<b>P03R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.3</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>59.9</b>		

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
22	26	12530.18	12517.18	12543.18	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
26	26	12588.5	12575.5	12601.5	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
17	26	12457.28	12444.28	12470.28	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	

y. Max. Power-Flux Densities										
			Angles of Arrival PFD				Geographic Region PFD			



		4 kHz	-183	-183	-170.4	-183	-168	-143				
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a. Beam ID:	<b>G02R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-13.2</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>60.9</b>		

**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
22	26	12530.18	12517.18	12543.18	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
27	26	12603.08	12590.08	12616.08	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
29	26	12632.24	12619.24	12645.24	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	

**y. Max. Power-Flux Densities**

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(iv) 0-2° (dBW/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	
		4 kHz	-179.4	-179.4	-169.4	-169.4	-159.4	-139.4					

a. Beam ID:	<b>P07R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
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b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.5</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-13.9</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>60.2</b>		

**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
25	26	12573.92	12560.92	12586.92	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
18	26	12471.86	12458.86	12484.86	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
24	26	12559.34	12546.34	12572.34	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	

**y. Max. Power-Flux Densities**

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(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)	
		4 kHz	-180.1	-180.1	-170.1	-180.1	-165.1	-140.1					

a. Beam ID:	<b>TLMR</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>20</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.23</b>

e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.23</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-46.4</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>13.6</b>		

**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
21	26	12515.6	12502.6	12528.6	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
15	26	12428.12	12415.12	12441.12	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
24	26	12559.34	12546.34	12572.34	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	

**y. Max. Power-Flux Densities**

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	Angles of Arrival PFD						Geographic Region PFD				(xiv) Energy Dispersal Bandwidth (kHz)
			(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)	
		4 kHz	-212.5	-212.5	-212.5	-212.5	-197.5	-172.5					

a. Beam ID:	<b>G08L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.9</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	

h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14</b>	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	<b>60.1</b>	

<b>x. Transmit Channels</b>						
(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
22	26	12530.18	12517.18	12543.18	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
23	26	12544.76	12531.76	12557.76	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
27	26	12603.08	12590.08	12616.08	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	

<b>y. Max. Power-Flux Densities</b>													
			<b>Angles of Arrival PFD</b>						<b>Geographic Region PFD</b>				
(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)
		4 kHz	-180.2	-180.2	-170.2	-180.2	-165.2	-140.2					

a. Beam ID:	<b>G12L</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>LHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-13.3</b>	w. What information will be provided with the predicted antenna gain contours?:	

k. Maximum Transmit EIRP (dBW):							<b>60.9</b>						
<b>x. Transmit Channels</b>													
(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	
TLM2		1		12695		12694.5		12695.5		TT&C			
18		26		12471.86		12458.86		12484.86		Service Link			
27		26		12603.08		12590.08		12616.08		Service Link			
22		26		12530.18		12517.18		12543.18		Service Link			
16		26		12442.7		12429.7		12455.7		Service Link			
23		26		12544.76		12531.76		12557.76		Service Link			
19		26		12486.44		12473.44		12499.44		Service Link			
29		26		12632.24		12619.24		12645.24		Service Link			
15		26		12428.12		12415.12		12441.12		Service Link			
24		26		12559.34		12546.34		12572.34		Service Link			
31		26		12661.4		12648.4		12674.4		Service Link			
17		26		12457.28		12444.28		12470.28		Service Link			
21		26		12515.6		12502.6		12528.6		Service Link			
25		26		12573.92		12560.92		12586.92		Service Link			
14		26		12413.54		12400.54		12426.54		Service Link			
TLM1		1		12205		12204.5		12205.5		TT&C			
26		26		12588.5		12575.5		12601.5		Service Link			
20		26		12501.02		12488.02		12514.02		Service Link			

<b>y. Max. Power-Flux Densities</b>													
			<b>Angles of Arrival PFD</b>						<b>Geographic Region PFD</b>				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m <sup>2</sup> /BW)	(v) 2-5° (dBW/m <sup>2</sup> /BW)	(vi) 5-15° (dBW/m <sup>2</sup> /BW)	(vii) 15-20° (dBW/m <sup>2</sup> /BW)	(viii) 20-25° (dBW/m <sup>2</sup> /BW)	(ix) 25-90° (dBW/m <sup>2</sup> /BW)	(x) Southeastern Region (dBW/m <sup>2</sup> /BW)	(xi) Northeastern Region (dBW/m <sup>2</sup> /BW)	(xii) Western Region (dBW/m <sup>2</sup> /BW)	(xiii) Other Region (dBW/m <sup>2</sup> /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-179.4	-179.4	-169.4	-179.4	-164.4	-139.4					

a. Beam ID:	<b>P02R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m <sup>2</sup> ):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>50.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-16.5</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>57.7</b>		

<b>x. Transmit Channels</b>						
(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)		
TLM1	1	12205	12204.5	12205.5	TT&C	
14	26	12413.54	12400.54	12426.54	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
26	26	12588.5	12575.5	12601.5	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
27	26	12603.08	12590.08	12616.08	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)
		4 kHz	-182.6	-182.6	-172.6	-182.6	-167.6	-142.6					

a. Beam ID:	<b>G12R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.7</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-18.3</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>55.9</b>		

#### 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
17	26	12457.28	12444.28	12470.28	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	

26	26	12588.5	12575.5	12601.5	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
25	26	12573.92	12560.92	12586.92	Service Link	
TLM1	1	12205	12204.5	12205.5	TT&C	
20	26	12501.02	12488.02	12514.02	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
15	26	12428.12	12415.12	12441.12	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
27	26	12603.08	12590.08	12616.08	Service Link	
18	26	12471.86	12458.86	12484.86	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)
		4 kHz	-184.4	-184.4	-174.4	-184.4	-169.4	-144.4					

a. Beam ID:	<b>P09R</b>	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	<b>12200</b>	o. Peak Isotropic Antenna Gain (dBi):	<b>49.2</b>
c. Beam Frequency (Upper Band Edge) (MHz):	<b>12700</b>	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	<b>RHCP</b>	q. Antenna Pointing Error (°):	<b>0.04</b>
e. Can the space station vary the channel bandwidth with on-board processing?:	<b>No</b>	r. Antenna Rotational Error (°):	<b>0.04</b>
f. Is this a command beam? (Check box if Yes):	<b>No</b>	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	<b>No</b>	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	<b>No</b>	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):	<b>No</b>	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	<b>-14.2</b>	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	<b>60</b>		

**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
25	26	12573.92	12560.92	12586.92	Service Link	
31	26	12661.4	12648.4	12674.4	Service Link	
17	26	12457.28	12444.28	12470.28	Service Link	
14	26	12413.54	12400.54	12426.54	Service Link	
21	26	12515.6	12502.6	12528.6	Service Link	

27	26	12603.08	12590.08	12616.08	Service Link	
22	26	12530.18	12517.18	12543.18	Service Link	
16	26	12442.7	12429.7	12455.7	Service Link	
TLM2	1	12695	12694.5	12695.5	TT&C	
TLM1	1	12205	12204.5	12205.5	TT&C	
15	26	12428.12	12415.12	12441.12	Service Link	
18	26	12471.86	12458.86	12484.86	Service Link	
20	26	12501.02	12488.02	12514.02	Service Link	
29	26	12632.24	12619.24	12645.24	Service Link	
19	26	12486.44	12473.44	12499.44	Service Link	
24	26	12559.34	12546.34	12572.34	Service Link	
23	26	12544.76	12531.76	12557.76	Service Link	
26	26	12588.5	12575.5	12601.5	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)
		4 kHz	-180.3	-180.3	-170.3	-180.3	-165.3	-140.3					

**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
		GIMS Container File		Echo25.mdb
C01L	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C01L.gxt
C01R	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C01R.gxt
C02L	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C02L.gxt
C02R	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C02R.gxt
C03L	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C03L.gxt
C03R	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C03R.gxt
C04L	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C04L.gxt
C04R	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C04R.gxt
C05L	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C05L.gxt
C05R	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C05R.gxt
C06L	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C06L.gxt
C06R	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 C06R.gxt



G13R	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		ES25 G13R.gxt
GBUL	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		ES25 GBUL.gxt
GBUR	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		ES25 GBUR.gxt
MJUL	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		ES25 MJUL.gxt
MJUR	Earth-to-Space (Receive)	Transmit Antenna Gain Contour Diagram		ES25 MJUR.gxt