

File Number: **DRAFT-SAT-LOA-20260507-00191**

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
Amazonas-2	Geostationary (GSO)	20	No	Amazonas-2 at 72W

S2. Operating Frequency Bands

a. Type of Service	b. If a. is Other, provide a service description	c. Satellite Frequency Band (MHz)	d. Satellite Frequency (Lower Band Edge) (MHz)	e. Satellite Frequency (Upper Band Edge) (MHz)	f. Direction of Transmission	g. Non Conforming Indicator
FSS		6725 - 7025	6725	7025	Earth-to-Space (Receive)	No
FSS		12750 - 13250	12750	13250	Earth-to-Space (Receive)	No
FSS		10700 - 11450	10700	11450	Space-to-Earth (Transmit)	No
FSS		13750 - 14500	13750	14500	Earth-to-Space (Receive)	No
FSS		4500 - 4800	4500	4800	Space-to-Earth (Transmit)	No
FSS		11700 - 12200	11700	12200	Space-to-Earth (Transmit)	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 (°)
72	West	0.1	0.1	0.1	0.1		0.02	0.02	0.05

S4. Earth-to-Space (Receive) Beams

a. Beam ID:	S1RH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	12750	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	13000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	H	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?: Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:
j. Maximum G/T (dB/K):	5.1	w. What information will be provided with the predicted antenna gain contours?:

k. Minimum G/T (dB/K):						
l. Maximum Saturation Flux Density (dBW/m²):			-79.1			
m. Minimum Saturation Flux Density (dBW/m²):			-97.1			
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
K003	36	12858	12840	12876	Service Link	
K004	36	12898	12880	12916	Service Link	
K002	36	12818	12800	12836	Service Link	
K005	36	12938	12920	12956	Service Link	
K006	36	12978	12960	12996	Service Link	
K001	36	12778	12760	12796	Service Link	

a. Beam ID:	CRH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):				
b. Beam Frequency (Lower Band Edge) (MHz):	6725	o. Peak Isotropic Antenna Gain (dBi):				
c. Beam Frequency (Upper Band Edge) (MHz):	7025	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	H	q. Antenna Pointing Error (°):				
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):				
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes			
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:				
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:				
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:				
j. Maximum G/T (dB/K):	2.1	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):						
l. Maximum Saturation Flux Density (dBW/m²):	-79.8					
m. Minimum Saturation Flux Density (dBW/m²):	-97.8					
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
C003	54	6875	6848	6902	Service Link	
C005	54	6995	6968	7022	Service Link	
C002	54	6815	6788	6842	Service Link	
C001	54	6755	6728	6782	Service Link	
C004	54	6935	6908	6962	Service Link	

a. Beam ID:	N4RH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	14000	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	14500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	

i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:
j. Maximum G/T (dB/K):	6.7	w. What information will be provided with the predicted antenna gain contours?:
k. Minimum G/T (dB/K):		
l. Maximum Saturation Flux Density (dBW/m²):	-80.7	
m. Minimum Saturation Flux Density (dBW/m²):	-98.7	

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
K019	36	14030	14012	14048	Service Link	
K021	36	14110	14092	14128	Service Link	
K020	36	14070	14052	14088	Service Link	
K025	36	14271	14253	14289	Service Link	
K028	36	14391	14373	14409	Service Link	
K029	36	14431	14413	14449	Service Link	
K024	36	14230	14212	14248	Service Link	
K026	36	14311	14293	14329	Service Link	
K027	36	14351	14333	14369	Service Link	
K030	36	14471	14453	14489	Service Link	
K023	36	14190	14172	14208	Service Link	
K022	36	14150	14132	14168	Service Link	

a. Beam ID:	N1RH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	12750	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	13000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	H	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?: Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:
j. Maximum G/T (dB/K):	6.7	w. What information will be provided with the predicted antenna gain contours?:
k. Minimum G/T (dB/K):		
l. Maximum Saturation Flux Density (dBW/m²):	-80.7	
m. Minimum Saturation Flux Density (dBW/m²):	-98.7	

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
K003	36	12858	12840	12876	Service Link	
K005	36	12938	12920	12956	Service Link	
K004	36	12898	12880	12916	Service Link	
K001	36	12778	12760	12796	Service Link	
K006	36	12978	12960	12996	Service Link	
K002	36	12818	12800	12836	Service Link	

a. Beam ID:	N3RV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	13750	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	14000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	6.7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-80.7		
m. Minimum Saturation Flux Density (dBW/m²):	-98.7		

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
K016	36	13892	13874	13910	Service Link	
K017	36	13932	13914	13950	Service Link	
K018	36	13972	13954	13990	Service Link	
K014	36	13812	13794	13830	Service Link	
K013	36	13772	13754	13790	Service Link	
K015	36	13852	13834	13870	Service Link	

a. Beam ID:	S2RV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	13000	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	5.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-79.1		
m. Minimum Saturation Flux Density (dBW/m²):	-97.1		

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
K007	36	13022	13004	13040	Service Link	
K011	36	13182	13164	13200	Service Link	
K009	36	13102	13084	13120	Service Link	
K008	36	13062	13044	13080	Service Link	

K012	36	13222	13204	13240	Service Link	
K010	36	13142	13124	13160	Service Link	

a. Beam ID:	S3RH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	13750	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	14000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	5.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-79.1		
m. Minimum Saturation Flux Density (dBW/m²):	-97.1		

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
K016	36	13892	13874	13910	Service Link	
K017	36	13932	13914	13950	Service Link	
K014	36	13812	13794	13830	Service Link	
K013	36	13772	13754	13790	Service Link	
K018	36	13972	13954	13990	Service Link	
K015	36	13852	13834	13870	Service Link	

a. Beam ID:	N1RV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	12750	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	13000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	6.7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-80.7		
m. Minimum Saturation Flux Density (dBW/m²):	-98.7		

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
K003	36	12858	12840	12876	Service Link	

K001	36	12778	12760	12796	Service Link	
K002	36	12818	12800	12836	Service Link	
K006	36	12978	12960	12996	Service Link	
K005	36	12938	12920	12956	Service Link	
K004	36	12898	12880	12916	Service Link	

a. Beam ID:	CRV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	6725	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	7025	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	2.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-79.8		
m. Minimum Saturation Flux Density (dBW/m²):	-97.8		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
C001	54	6755	6728	6782	Service Link	
C002	54	6815	6788	6842	Service Link	
C003	54	6875	6848	6902	Service Link	
C005	54	6995	6968	7022	Service Link	
C004	54	6935	6908	6962	Service Link	

a. Beam ID:	N3RH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	13750	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	14000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	6.7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-80.7		
m. Minimum Saturation Flux Density (dBW/m²):	-98.7		

x. Receive 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)		
K016	36	13892	13874	13910	Service Link	
K018	36	13972	13954	13990	Service Link	
K013	36	13772	13754	13790	Service Link	
K017	36	13932	13914	13950	Service Link	
K014	36	13812	13794	13830	Service Link	
K015	36	13852	13834	13870	Service Link	

a. Beam ID:	S2RH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	13000	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	5.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-79.1		
m. Minimum Saturation Flux Density (dBW/m²):	-97.1		

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
K008	36	13062	13044	13080	Service Link	
K007	36	13022	13004	13040	Service Link	
K012	36	13222	13204	13240	Service Link	
K011	36	13182	13164	13200	Service Link	
K010	36	13142	13124	13160	Service Link	
K009	36	13102	13084	13120	Service Link	

a. Beam ID:	N2RH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	13000	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	6.7	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-80.7		

m. Minimum Saturation Flux Density (dBW/m²):			-98.7			
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
K012	36	13222	13204	13240	Service Link	
K011	36	13182	13164	13200	Service Link	
K010	36	13142	13124	13160	Service Link	
K009	36	13102	13084	13120	Service Link	
K008	36	13062	13044	13080	Service Link	
K007	36	13022	13004	13040	Service Link	

a. Beam ID:	TCV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-93.6			
b. Beam Frequency (Lower Band Edge) (MHz):	13996.55	o. Peak Isotropic Antenna Gain (dBi):				
c. Beam Frequency (Upper Band Edge) (MHz):	14496.45	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	V	q. Antenna Pointing Error (°):				
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):				
f. Is this a command beam? (Check box if Yes):	Yes	s. Will a GIMS container file containing all antenna contour data be provided?:	No			
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:				
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:				
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:				
j. Maximum G/T (dB/K):	-19.6	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):						
l. Maximum Saturation Flux Density (dBW/m²):						
m. Minimum Saturation Flux Density (dBW/m²):						
x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
TC1		13997			TT&C	
TC2		14496			TT&C	

a. Beam ID:	B3RH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	13750	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	14000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	5.8	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-79.8		
m. Minimum Saturation Flux Density (dBW/m²):	-97.8		

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
K016	36	13892	13874	13910	Service Link	
K014	36	13812	13794	13830	Service Link	
K018	36	13972	13954	13990	Service Link	
K017	36	13932	13914	13950	Service Link	
K013	36	13772	13754	13790	Service Link	
K015	36	13852	13834	13870	Service Link	

a. Beam ID:	S3RV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	13750	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	14000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	V	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?: Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:
j. Maximum G/T (dB/K):	5.1	w. What information will be provided with the predicted antenna gain contours?:
k. Minimum G/T (dB/K):		
l. Maximum Saturation Flux Density (dBW/m²):	-79.1	
m. Minimum Saturation Flux Density (dBW/m²):	-97.1	

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
K016	36	13892	13874	13910	Service Link	
K014	36	13812	13794	13830	Service Link	
K018	36	13972	13954	13990	Service Link	
K017	36	13932	13914	13950	Service Link	
K013	36	13772	13754	13790	Service Link	
K015	36	13852	13834	13870	Service Link	

a. Beam ID:	N4RV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	14000	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	14500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	V	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?: Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:
j. Maximum G/T (dB/K):	6.7	w. What information will be provided with the predicted antenna gain contours?:

k. Minimum G/T (dB/K):						
l. Maximum Saturation Flux Density (dBW/m²):			-80.7			
m. Minimum Saturation Flux Density (dBW/m²):			-98.7			
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
K023	36	14190	14172	14208	Service Link	
K026	36	14311	14293	14329	Service Link	
K024	36	14230	14212	14248	Service Link	
K025	36	14271	14253	14289	Service Link	
K027	36	14351	14333	14369	Service Link	
K028	36	14391	14373	14409	Service Link	
K030	36	14471	14453	14489	Service Link	
K029	36	14431	14413	14449	Service Link	
K021	36	14110	14092	14128	Service Link	
K020	36	14070	14052	14088	Service Link	
K022	36	14150	14132	14168	Service Link	
K019	36	14030	14012	14048	Service Link	

a. Beam ID:	S4RV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):				
b. Beam Frequency (Lower Band Edge) (MHz):	14250	o. Peak Isotropic Antenna Gain (dBi):				
c. Beam Frequency (Upper Band Edge) (MHz):	14500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	V	q. Antenna Pointing Error (°):				
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):				
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes			
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:				
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:				
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:				
j. Maximum G/T (dB/K):	5.1	w. What information will be provided with the predicted antenna gain contours?:				
k. Minimum G/T (dB/K):						
l. Maximum Saturation Flux Density (dBW/m²):	-79.1					
m. Minimum Saturation Flux Density (dBW/m²):	-97.1					
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
K026	36	14311	14293	14329	Service Link	
K027	36	14351	14333	14369	Service Link	
K028	36	14391	14373	14409	Service Link	
K029	36	14431	14413	14449	Service Link	
K025	36	14271	14253	14289	Service Link	
K030	36	14471	14453	14489	Service Link	

a. Beam ID:	B2RH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
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b. Beam Frequency (Lower Band Edge) (MHz):	13000	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	5.8	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-79.8		
m. Minimum Saturation Flux Density (dBW/m²):	-97.8		

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
K010	36	13142	13124	13160	Service Link	
K008	36	13062	13044	13080	Service Link	
K012	36	13222	13204	13240	Service Link	
K007	36	13022	13004	13040	Service Link	
K011	36	13182	13164	13200	Service Link	
K009	36	13102	13084	13120	Service Link	

a. Beam ID:	S1RV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	12750	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	13000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum G/T (dB/K):	5.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-79.1		
m. Minimum Saturation Flux Density (dBW/m²):	-97.1		

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
K004	36	12898	12880	12916	Service Link	
K005	36	12938	12920	12956	Service Link	
K001	36	12778	12760	12796	Service Link	
K003	36	12858	12840	12876	Service Link	
K002	36	12818	12800	12836	Service Link	

K006	36	12978	12960	12996	Service Link	
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S5. Space-to-Earth (Transmit) Beams

a. Beam ID:	K3TV	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	11200	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	11450	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	52		

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
K017	36	11382	11364	11400	Service Link	
K016	36	11342	11324	11360	Service Link	
K014	36	11262	11244	11280	Service Link	
K015	36	11302	11284	11320	Service Link	
K018	36	11422	11404	11440	Service Link	
K013	36	11222	11204	11240	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 ² /BW)	(v) 2-5° (dBW/m ² /BW)	(vi) 5-15° (dBW/m ² /BW)	(vii) 15-20° (dBW/m ² /BW)	(viii) 20-25° (dBW/m ² /BW)	(ix) 25-90° (dBW/m ² /BW)	(x) Southeastern Region (dBW/m ² /BW)	(xi) Northeastern Region (dBW/m ² /BW)	(xii) Western Region (dBW/m ² /BW)	(xiii) Other Region (dBW/m ² /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	K2TH	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	10950	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	11200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	

k. Maximum Transmit EIRP (dBW):			52										
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	
K008		36		11015		10997		11033		Service Link			
K007		36		10975		10957		10993		Service Link			
K009		36		11055		11037		11073		Service Link			
K012		36		11175		11157		11193		Service Link			
K011		36		11135		11117		11153		Service Link			
K010		36		11095		11077		11113		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	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	S1TH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	10700	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	10950	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50		

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			
K003		36	10808		10790		10826		Service Link					
K004		36	10848		10830		10866		Service Link					
K005		36	10888		10870		10906		Service Link					
K006		36	10928		10910		10946		Service Link					
K001		36	10728		10710		10746		Service Link					
K002		36	10768		10750		10786		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	-151.9	-151.4	-151.1	-148.8	-150.7	-148					
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a. Beam ID:	N4TH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	11700	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	11950	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	52		

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
K019	36	11730	11712	11748	Service Link	
K024	36	11930	11912	11948	Service Link	
K023	36	11890	11872	11908	Service Link	
K021	36	11810	11792	11828	Service Link	
K022	36	11850	11832	11868	Service Link	
K020	36	11770	11752	11788	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	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	TMV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	11702.75	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	12198.5	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	No
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-6.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	12.7		

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

TM2	0.5	12198.25	12198	12198.5	TT&C	
TM1	0.5	11703	11702.75	11703.25	TT&C	

a. Beam ID:	K5TH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	11950	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	12200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	52		

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
K026	36	12012	11994	12030	Service Link	
K029	36	12132	12114	12150	Service Link	
K028	36	12092	12074	12110	Service Link	
K027	36	12052	12034	12070	Service Link	
K030	36	12172	12154	12190	Service Link	
K025	36	11972	11954	11990	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	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	S5TH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	11950	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	12200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50		

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)		
K027	36	12052	12034	12070	Service Link	
K026	36	12012	11994	12030	Service Link	
K029	36	12132	12114	12150	Service Link	
K028	36	12092	12074	12110	Service Link	
K030	36	12172	12154	12190	Service Link	
K025	36	11972	11954	11990	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	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	N4TV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	11700	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	11950	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	V	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?: Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	52	

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
K022	36	11850	11832	11868	Service Link	
K021	36	11810	11792	11828	Service Link	
K020	36	11770	11752	11788	Service Link	
K024	36	11930	11912	11948	Service Link	
K019	36	11730	11712	11748	Service Link	
K023	36	11890	11872	11908	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	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	K5TV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
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b. Beam Frequency (Lower Band Edge) (MHz):	11950	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	12200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	52		

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		
K026		36	12012		11994		12030		Service Link				
K029		36	12132		12114		12150		Service Link				
K027		36	12052		12034		12070		Service Link				
K025		36	11972		11954		11990		Service Link				
K030		36	12172		12154		12190		Service Link				
K028		36	12092		12074		12110		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	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	S1TV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	10700	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	10950	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50		

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
K003	36	10808	10790	10826	Service Link	
K002	36	10768	10750	10786	Service Link	
K006	36	10928	10910	10946	Service Link	

K004	36	10848	10830	10866	Service Link	
K001	36	10728	10710	10746	Service Link	
K005	36	10888	10870	10906	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)
		4 kHz	-151.9	-151.4	-151.1	-148.8
						-148.7
						-148

a. Beam ID:	K1TV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	10700	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	10950	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	52		

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
K004	36	10848	10830	10866	Service Link	
K003	36	10808	10790	10826	Service Link	
K002	36	10768	10750	10786	Service Link	
K001	36	10728	10710	10746	Service Link	
K006	36	10928	10910	10946	Service Link	
K005	36	10888	10870	10906	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)
		4 kHz	-151.9	-151.4	-151.1	-148.8
						-148.7
						-148

a. Beam ID:	K1TH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	10700	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	10950	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	

f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	52		

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
K001	36	10728	10710	10746	Service Link	
K004	36	10848	10830	10866	Service Link	
K006	36	10928	10910	10946	Service Link	
K002	36	10768	10750	10786	Service Link	
K005	36	10888	10870	10906	Service Link	
K003	36	10808	10790	10826	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	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	S3TV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	11200	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	11450	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50		

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
K017	36	11382	11364	11400	Service Link	
K015	36	11302	11284	11320	Service Link	
K013	36	11222	11204	11240	Service Link	
K016	36	11342	11324	11360	Service Link	
K018	36	11422	11404	11440	Service Link	
K014	36	11262	11244	11280	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	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	S3TH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	11200	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	11450	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50		

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
K015	36	11302	11284	11320	Service Link	
K016	36	11342	11324	11360	Service Link	
K018	36	11422	11404	11440	Service Link	
K014	36	11262	11244	11280	Service Link	
K013	36	11222	11204	11240	Service Link	
K017	36	11382	11364	11400	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	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	S2TH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	10950	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	11200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	

i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	50	

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
K008	36	11015	10997	11033	Service Link	
K012	36	11175	11157	11193	Service Link	
K007	36	10975	10957	10993	Service Link	
K010	36	11095	11077	11113	Service Link	
K011	36	11135	11117	11153	Service Link	
K009	36	11055	11037	11073	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	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	N2TV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	10950	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	11200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	V	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?: Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	52	

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
K007	36	10975	10957	10993	Service Link	
K011	36	11135	11117	11153	Service Link	
K012	36	11175	11157	11193	Service Link	
K008	36	11015	10997	11033	Service Link	
K009	36	11055	11037	11073	Service Link	
K010	36	11095	11077	11113	Service Link	

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency	(ii) Beam Sub-Frequency	(iii) Reference Bandwidth	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern	(xi) Northeastern	(xii) Western Region	(xiii) Other Region	(xiv) Energy Dispersal

(Lower Band Edge) (MHz)	(Upper Band Edge) (MHz)	(BW)							Region (dBW/m²/BW)	Region (dBW/m²/BW)	(dBW/m²/BW)	(dBW/m²/BW)	Bandwidth (kHz)
		4 kHz	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	S5TV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	11950	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	12200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	14.1	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50		

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
K029	36	12132	12114	12150	Service Link	
K028	36	12092	12074	12110	Service Link	
K030	36	12172	12154	12190	Service Link	
K026	36	12012	11994	12030	Service Link	
K027	36	12052	12034	12070	Service Link	
K025	36	11972	11954	11990	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	-151.9	-151.4	-151.1	-148.8	-148.7	-148					

a. Beam ID:	CTV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	4500	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	4800	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	2.7	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	41		

x. Transmit Channels			
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(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
C003	54	4652.5	4625.5	4679.5	Service Link	
C005	54	4772.5	4745.5	4799.5	Service Link	
C004	54	4712.5	4685.5	4739.5	Service Link	
C002	54	4592.5	4565.5	4619.5	Service Link	
C001	54	4532.5	4505.5	4559.5	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	-161.2	-160.7	-160.4	-160.2	-160	-159.4					

a. Beam ID:	CTH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	4500	o. Peak Isotropic Antenna Gain (dBi):
c. Beam Frequency (Upper Band Edge) (MHz):	4800	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	H	q. Antenna Pointing Error (°):
e. Can the space station vary the channel bandwidth with on-board processing?:	No	r. Antenna Rotational Error (°):
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?: Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	No	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	Yes	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	2.7	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	41	

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
C005	54	4772.5	4745.5	4799.5	Service Link	
C003	54	4652.5	4625.5	4679.5	Service Link	
C001	54	4532.5	4505.5	4559.5	Service Link	
C004	54	4712.5	4685.5	4739.5	Service Link	
C002	54	4592.5	4565.5	4619.5	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	-161.2	-160.7	-160.4	-160.2	-160	-159.4					

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
B2RH	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_BR.GXT
B3RH	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_BR.GXT
CRH	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_CR.GXT
CRV	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_CR.GXT
CTH	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_CT.GXT
CTV	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_CT.GXT
K1TH	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_KT.GXT
K1TV	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_KT.GXT
K2TH	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_KT.GXT
K3TV	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_KT.GXT
K5TH	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_KT.GXT
K5TV	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_KT.GXT
N1RH	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_NR.GXT
N1RV	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_NR.GXT
N2RH	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_NR.GXT
N2TV	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_NT.GXT
N3RH	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_NR.GXT
N3RV	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_NR.GXT
N4RH	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_NR.GXT
N4RV	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_NR.GXT
N4TH	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_NT.GXT
N4TV	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_NT.GXT
S1RH	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_SR.GXT
S1RV	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_SR.GXT
S1TH	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_ST.GXT
S1TV	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_ST.GXT
S2RH	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_SR.GXT
S2RV	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_SR.GXT
S2TH	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_ST.GXT
S3RH	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_SR.GXT
S3RV	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_SR.GXT
S3TH	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_ST.GXT
S3TV	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_ST.GXT
S4RV	Earth-to-Space (Receive)	Receive Antenna Gain Contour Diagram		AMAZONAS-2_SR.GXT
S5TH	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		AMAZONAS-2_ST.GXT

S5TV	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram	AMAZONAS-2_ST.GXT
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