

File Number: **DRAFT-SAT-MOD-20260814-00337**

Call Sign: **S00784**

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
ASTRANIS 131W GSO System	Geostationary (GSO)	10	No	Modification of the ASTRANIS 131W GSO System to update the coverage area

S2. Operating Frequency Bands

a. Type of Service	b. If a. is Other, provide a service description	c. Satellite Frequency Band (MHz)	d. Satellite Frequency (Lower Band Edge) (MHz)	e. Satellite Frequency (Upper Band Edge) (MHz)	f. Direction of Transmission	g. Non Conforming Indicator
FSS		17300 - 20200	17300	20200	Space-to-Earth (Transmit)	Yes
FSS		13750 - 14500	13750	14500	Earth-to-Space (Receive)	No
FSS		10700 - 12200	10700	12200	Space-to-Earth (Transmit)	No
FSS		27500 - 30000	27500	30000	Earth-to-Space (Receive)	Yes
FSS		12750 - 13250	12750	13250	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 (°)
131.1	West	0.05	0.05	0.1	0.1	0.0003	0.1	0.1	0.1

S4. Earth-to-Space (Receive) Beams

a. Beam ID:	KUUH2	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):	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?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	25.114(c)(4)(vii) (GSO)
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):	17	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))

k. Minimum G/T (dB/K):	0					
l. Maximum Saturation Flux Density (dBW/m²):	-100					
m. Minimum Saturation Flux Density (dBW/m²):	-113					
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
Ku2008	50	13125	13100	13150	Service Link	
Ku2007	50	13075	13050	13100	Service Link	
Ku2004	50	12925	12900	12950	Service Link	
Ku2006	50	13025	13000	13050	Service Link	
Ku2009	50	13175	13150	13200	Service Link	
Ku2002	50	12825	12800	12850	Service Link	
Ku2003	50	12875	12850	12900	Service Link	
Ku2005	50	12975	12950	13000	Service Link	
Ku2010	50	13225	13200	13250	Service Link	
Ku20012	250	13125	13000	13250	Service Link	
Ku20011	250	12875	12750	13000	Service Link	
Ku2001	50	12775	12750	12800	Service Link	

a. Beam ID:	CLRR	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-80			
b. Beam Frequency (Lower Band Edge) (MHz):	28350	o. Peak Isotropic Antenna Gain (dBi):	5			
c. Beam Frequency (Upper Band Edge) (MHz):	28550	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09			
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):	-25.4	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
GU11	200	28450	28350	28550	TT&C	
TU1	200	28450	28350	28550	TT&C	
GU47	200	28450	28350	28550	TT&C	
GU29	200	28450	28350	28550	TT&C	
GU9	200	28450	28350	28550	TT&C	
AU29	200	28450	28350	28550	TT&C	
GU10	200	28450	28350	28550	TT&C	
AU10	200	28450	28350	28550	TT&C	

AU11	200	28450	28350	28550	TT&C	
AU9	200	28450	28350	28550	TT&C	

a. Beam ID:	KAUR	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	51.1
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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?:	25.114(c)(4)(vii) (GSO)
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):	22	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Minimum G/T (dB/K):	7		
l. Maximum Saturation Flux Density (dBW/m²):	-104		
m. Minimum Saturation Flux Density (dBW/m²):	-114		

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
GU36	500	27750	27500	28000	Service Link	
GU1	100	27550	27500	27600	Service Link	
AU17	100	29150	29100	29200	Service Link	
AU35	250	29875	29750	30000	Service Link	
AU15	100	28950	28900	29000	Service Link	
AU34	250	29625	29500	29750	Service Link	
GU20	100	29450	29400	29500	Service Link	
GU17	100	29150	29100	29200	Service Link	
GU15	100	28950	28900	29000	Service Link	
AU12	100	28650	28600	28700	Service Link	
AU24	100	29850	29800	29900	Service Link	
GU34	250	29625	29500	29750	Service Link	
AU20	100	29450	29400	29500	Service Link	
GU19	100	29350	29300	29400	Service Link	
AU23	100	29750	29700	29800	Service Link	
AU5	100	27950	27900	28000	Service Link	
AU29	250	28375	28250	28500	Service Link	
GU18	100	29250	29200	29300	Service Link	
AU9	100	28350	28300	28400	Service Link	
AU18	100	29250	29200	29300	Service Link	
GU8	100	28250	28200	28300	Service Link	
GU31	250	28875	28750	29000	Service Link	
GU22	100	29650	29600	29700	Service Link	

GU6	100	28050	28000	28100	Service Link	
GU5	100	27950	27900	28000	Service Link	
GU51	250	29875	29750	30000	Service Link	
GU14	100	28850	28800	28900	Service Link	
GU25	100	29950	29900	30000	Service Link	
AU8	100	28250	28200	28300	Service Link	
AU28	250	28125	28000	28250	Service Link	
GU7	100	28150	28100	28200	Service Link	
AU19	100	29350	29300	29400	Service Link	
GU46	375	28062.5	27875	28250	Service Link	
AU1	100	27550	27500	27600	Service Link	
AU11	100	28550	28500	28600	Service Link	
GU29	250	28375	28250	28500	Service Link	
GU44	250	29875	29750	30000	Service Link	
GU28	250	28125	28000	28250	Service Link	
GU16	100	29050	29000	29100	Service Link	
AU31	250	28875	28750	29000	Service Link	
GU12	100	28650	28600	28700	Service Link	
GU26	250	27625	27500	27750	Service Link	
AU21	100	29550	29500	29600	Service Link	
AU6	100	28050	28000	28100	Service Link	
AU22	100	29650	29600	29700	Service Link	
GU4	100	27850	27800	27900	Service Link	
GU40	500	29750	29500	30000	Service Link	
AU25	100	29950	29900	30000	Service Link	
GU35	250	29875	29750	30000	Service Link	
GU49	375	29187.5	29000	29375	Service Link	
GU10	100	28450	28400	28500	Service Link	
GU3	100	27750	27700	27800	Service Link	
GU37	500	28250	28000	28500	Service Link	
AU27	250	27875	27750	28000	Service Link	
GU48	375	28812.5	28625	29000	Service Link	
TU1	200	28450	28350	28550	Service Link	
AU30	250	28625	28500	28750	Service Link	
GU42	750	28625	28250	29000	Service Link	
GU21	100	29550	29500	29600	Service Link	
GU24	100	29850	29800	29900	Service Link	
AU7	100	28150	28100	28200	Service Link	
GU38	500	28750	28500	29000	Service Link	
GU50	375	29562.5	29375	29750	Service Link	
GU47	375	28437.5	28250	28625	Service Link	

GU32	250	29125	29000	29250	Service Link	
GU45	375	27687.5	27500	27875	Service Link	
GU11	100	28550	28500	28600	Service Link	
AU14	100	28850	28800	28900	Service Link	
GU9	100	28350	28300	28400	Service Link	
GU33	250	29375	29250	29500	Service Link	
AU3	100	27750	27700	27800	Service Link	
AU2	100	27650	27600	27700	Service Link	
AU16	100	29050	29000	29100	Service Link	
GU43	750	29375	29000	29750	Service Link	
AU4	100	27850	27800	27900	Service Link	
GU2	100	27650	27600	27700	Service Link	
GU13	100	28750	28700	28800	Service Link	
GU23	100	29750	29700	29800	Service Link	
GU27	250	27875	27750	28000	Service Link	
AU10	100	28450	28400	28500	Service Link	
AU33	250	29375	29250	29500	Service Link	
GU30	250	28625	28500	28750	Service Link	
AU32	250	29125	29000	29250	Service Link	
AU26	250	27625	27500	27750	Service Link	
GU41	750	27875	27500	28250	Service Link	
GU39	500	29250	29000	29500	Service Link	
AU13	100	28750	28700	28800	Service Link	

a. Beam ID:	CGRR	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-80			
b. Beam Frequency (Lower Band Edge) (MHz):	28350	o. Peak Isotropic Antenna Gain (dBi):	51.1			
c. Beam Frequency (Upper Band Edge) (MHz):	28550	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):				
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1			
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09			
f. Is this a command beam? (Check box if Yes):	Yes	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?:	25.114(c)(4)(vii) (GSO)			
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):	22	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))			
k. Minimum G/T (dB/K):	7					
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
GU9	200	28450	28350	28550	TT&C	
GU47	200	28450	28350	28550	TT&C	

AU9	200	28450	28350	28550	TT&C	
AU29	200	28450	28350	28550	TT&C	
GU11	200	28450	28350	28550	TT&C	
TU1	200	28450	28350	28550	TT&C	
AU11	200	28450	28350	28550	TT&C	
GU29	200	28450	28350	28550	TT&C	
GU10	200	28450	28350	28550	TT&C	
AU10	200	28450	28350	28550	TT&C	

a. Beam ID:	CGRL	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-80
b. Beam Frequency (Lower Band Edge) (MHz):	28350	o. Peak Isotropic Antenna Gain (dBi):	51.1
c. Beam Frequency (Upper Band Edge) (MHz):	28550	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
f. Is this a command beam? (Check box if Yes):	Yes	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?:	25.114(c)(4)(vii) (GSO)
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):	22	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Minimum G/T (dB/K):	7		
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
GU47	200	28450	28350	28550	TT&C	
AU11	200	28450	28350	28550	TT&C	
GU11	200	28450	28350	28550	TT&C	
AU29	200	28450	28350	28550	TT&C	
AU10	200	28450	28350	28550	TT&C	
GU9	200	28450	28350	28550	TT&C	
AU9	200	28450	28350	28550	TT&C	
GU10	200	28450	28350	28550	TT&C	
TU1	200	28450	28350	28550	TT&C	
GU29	200	28450	28350	28550	TT&C	

a. Beam ID:	KUUH	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	13750	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	14500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	H	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	25.114(c)(4)(vii) (GSO)

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):	17	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Minimum G/T (dB/K):	0		
l. Maximum Saturation Flux Density (dBW/m²):	-100		
m. Minimum Saturation Flux Density (dBW/m²):	-113		

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
Ku015	50	14475	14450	14500	Service Link	
Ku001	50	13775	13750	13800	Service Link	
Ku002	50	13825	13800	13850	Service Link	
Ku014	50	14425	14400	14450	Service Link	
Ku011	50	14275	14250	14300	Service Link	
Ku0018	250	14375	14250	14500	Service Link	
Ku010	50	14225	14200	14250	Service Link	
Ku006	50	14025	14000	14050	Service Link	
Ku003	50	13875	13850	13900	Service Link	
Ku008	50	14125	14100	14150	Service Link	
Ku013	50	14375	14350	14400	Service Link	
Ku012	50	14325	14300	14350	Service Link	
Ku0017	250	14125	14000	14250	Service Link	
Ku009	50	14175	14150	14200	Service Link	
Ku005	50	13975	13950	14000	Service Link	
Ku0016	250	13875	13750	14000	Service Link	
Ku007	50	14075	14050	14100	Service Link	
Ku004	50	13925	13900	13950	Service Link	

a. Beam ID:	KGUR	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	51.1
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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?:	25.114(c)(4)(vii) (GSO)
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):	22	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Minimum G/T (dB/K):	7		
l. Maximum Saturation Flux Density (dBW/m²):	-87		
m. Minimum Saturation Flux Density (dBW/m²):	-98		

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

			Band Edge) (MHz)	Band Edge) (MHz)		
GU30	250	28625	28500	28750	Feeder Link	
AU26	250	27625	27500	27750	Feeder Link	
AU27	250	27875	27750	28000	Feeder Link	
GU22	100	29650	29600	29700	Feeder Link	
AU24	100	29850	29800	29900	Feeder Link	
GU3	100	27750	27700	27800	Feeder Link	
AU19	100	29350	29300	29400	Feeder Link	
GU13	100	28750	28700	28800	Feeder Link	
GU34	250	29625	29500	29750	Feeder Link	
AU16	100	29050	29000	29100	Feeder Link	
AU25	100	29950	29900	30000	Feeder Link	
GU24	100	29850	29800	29900	Feeder Link	
GU50	375	29562.5	29375	29750	Feeder Link	
GU41	750	27875	27500	28250	Feeder Link	
GU46	375	28062.5	27875	28250	Feeder Link	
GU9	100	28350	28300	28400	Feeder Link	
GU31	250	28875	28750	29000	Feeder Link	
GU40	500	29750	29500	30000	Feeder Link	
GU23	100	29750	29700	29800	Feeder Link	
GU18	100	29250	29200	29300	Feeder Link	
GU38	500	28750	28500	29000	Feeder Link	
GU51	250	29875	29750	30000	Feeder Link	
AU13	100	28750	28700	28800	Feeder Link	
AU14	100	28850	28800	28900	Feeder Link	
AU11	100	28550	28500	28600	Feeder Link	
GU2	100	27650	27600	27700	Feeder Link	
GU42	750	28625	28250	29000	Feeder Link	
GU21	100	29550	29500	29600	Feeder Link	
GU39	500	29250	29000	29500	Feeder Link	
AU31	250	28875	28750	29000	Feeder Link	
AU28	250	28125	28000	28250	Feeder Link	
AU15	100	28950	28900	29000	Feeder Link	
GU6	100	28050	28000	28100	Feeder Link	
AU9	100	28350	28300	28400	Feeder Link	
GU16	100	29050	29000	29100	Feeder Link	
GU35	250	29875	29750	30000	Feeder Link	
GU28	250	28125	28000	28250	Feeder Link	
GU32	250	29125	29000	29250	Feeder Link	
GU27	250	27875	27750	28000	Feeder Link	
AU5	100	27950	27900	28000	Feeder Link	

GU5	100	27950	27900	28000	Feeder Link	
GU47	375	28437.5	28250	28625	Feeder Link	
AU22	100	29650	29600	29700	Feeder Link	
GU17	100	29150	29100	29200	Feeder Link	
GU11	100	28550	28500	28600	Feeder Link	
GU10	100	28450	28400	28500	Feeder Link	
AU29	250	28375	28250	28500	Feeder Link	
AU34	250	29625	29500	29750	Feeder Link	
GU8	100	28250	28200	28300	Feeder Link	
GU15	100	28950	28900	29000	Feeder Link	
GU12	100	28650	28600	28700	Feeder Link	
GU19	100	29350	29300	29400	Feeder Link	
GU36	500	27750	27500	28000	Feeder Link	
AU1	100	27550	27500	27600	Feeder Link	
AU21	100	29550	29500	29600	Feeder Link	
GU43	750	29375	29000	29750	Feeder Link	
AU10	100	28450	28400	28500	Feeder Link	
GU37	500	28250	28000	28500	Feeder Link	
GU49	375	29187.5	29000	29375	Feeder Link	
AU18	100	29250	29200	29300	Feeder Link	
AU20	100	29450	29400	29500	Feeder Link	
AU32	250	29125	29000	29250	Feeder Link	
AU7	100	28150	28100	28200	Feeder Link	
AU12	100	28650	28600	28700	Feeder Link	
GU4	100	27850	27800	27900	Feeder Link	
GU48	375	28812.5	28625	29000	Feeder Link	
GU44	250	29875	29750	30000	Feeder Link	
GU1	100	27550	27500	27600	Feeder Link	
GU26	250	27625	27500	27750	Feeder Link	
AU30	250	28625	28500	28750	Feeder Link	
AU33	250	29375	29250	29500	Feeder Link	
AU8	100	28250	28200	28300	Feeder Link	
AU23	100	29750	29700	29800	Feeder Link	
TU1	200	28450	28350	28550	Feeder Link	
GU45	375	27687.5	27500	27875	Feeder Link	
GU29	250	28375	28250	28500	Feeder Link	
AU3	100	27750	27700	27800	Feeder Link	
AU2	100	27650	27600	27700	Feeder Link	
GU25	100	29950	29900	30000	Feeder Link	
GU33	250	29375	29250	29500	Feeder Link	
GU7	100	28150	28100	28200	Feeder Link	

AU6	100	28050	28000	28100	Feeder Link	
AU35	250	29875	29750	30000	Feeder Link	
GU20	100	29450	29400	29500	Feeder Link	
AU4	100	27850	27800	27900	Feeder Link	
GU14	100	28850	28800	28900	Feeder Link	
AU17	100	29150	29100	29200	Feeder Link	

a. Beam ID:	KAUL	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	51.1
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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?:	25.114(c)(4)(vii) (GSO)
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):	22	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Minimum G/T (dB/K):			
l. Maximum Saturation Flux Density (dBW/m²):	-104		
m. Minimum Saturation Flux Density (dBW/m²):	-114		

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
GU41	750	27875	27500	28250	Service Link	
AU24	100	29850	29800	29900	Service Link	
GU51	250	29875	29750	30000	Service Link	
AU4	100	27850	27800	27900	Service Link	
AU7	100	28150	28100	28200	Service Link	
GU30	250	28625	28500	28750	Service Link	
GU27	250	27875	27750	28000	Service Link	
GU7	100	28150	28100	28200	Service Link	
GU22	100	29650	29600	29700	Service Link	
GU40	500	29750	29500	30000	Service Link	
AU26	250	27625	27500	27750	Service Link	
GU14	100	28850	28800	28900	Service Link	
GU48	375	28812.5	28625	29000	Service Link	
AU6	100	28050	28000	28100	Service Link	
GU47	375	28437.5	28250	28625	Service Link	
AU13	100	28750	28700	28800	Service Link	
GU3	100	27750	27700	27800	Service Link	
AU15	100	28950	28900	29000	Service Link	
AU21	100	29550	29500	29600	Service Link	

AU35	250	29875	29750	30000	Service Link	
GU10	100	28450	28400	28500	Service Link	
GU5	100	27950	27900	28000	Service Link	
AU16	100	29050	29000	29100	Service Link	
GU8	100	28250	28200	28300	Service Link	
GU50	375	29562.5	29375	29750	Service Link	
GU19	100	29350	29300	29400	Service Link	
AU25	100	29950	29900	30000	Service Link	
GU39	500	29250	29000	29500	Service Link	
GU20	100	29450	29400	29500	Service Link	
AU12	100	28650	28600	28700	Service Link	
AU17	100	29150	29100	29200	Service Link	
AU2	100	27650	27600	27700	Service Link	
GU2	100	27650	27600	27700	Service Link	
GU15	100	28950	28900	29000	Service Link	
GU23	100	29750	29700	29800	Service Link	
AU11	100	28550	28500	28600	Service Link	
AU32	250	29125	29000	29250	Service Link	
AU27	250	27875	27750	28000	Service Link	
AU23	100	29750	29700	29800	Service Link	
GU44	250	29875	29750	30000	Service Link	
GU6	100	28050	28000	28100	Service Link	
TU1	200	28450	28350	28550	Service Link	
GU1	100	27550	27500	27600	Service Link	
GU29	250	28375	28250	28500	Service Link	
GU35	250	29875	29750	30000	Service Link	
GU49	375	29187.5	29000	29375	Service Link	
GU17	100	29150	29100	29200	Service Link	
AU18	100	29250	29200	29300	Service Link	
AU30	250	28625	28500	28750	Service Link	
GU38	500	28750	28500	29000	Service Link	
GU37	500	28250	28000	28500	Service Link	
AU5	100	27950	27900	28000	Service Link	
GU13	100	28750	28700	28800	Service Link	
AU19	100	29350	29300	29400	Service Link	
AU10	100	28450	28400	28500	Service Link	
GU42	750	28625	28250	29000	Service Link	
AU33	250	29375	29250	29500	Service Link	
GU34	250	29625	29500	29750	Service Link	
AU8	100	28250	28200	28300	Service Link	
AU1	100	27550	27500	27600	Service Link	

GU46	375	28062.5	27875	28250	Service Link	
GU36	500	27750	27500	28000	Service Link	
GU16	100	29050	29000	29100	Service Link	
GU43	750	29375	29000	29750	Service Link	
AU31	250	28875	28750	29000	Service Link	
AU20	100	29450	29400	29500	Service Link	
AU28	250	28125	28000	28250	Service Link	
GU4	100	27850	27800	27900	Service Link	
GU11	100	28550	28500	28600	Service Link	
GU12	100	28650	28600	28700	Service Link	
GU33	250	29375	29250	29500	Service Link	
GU9	100	28350	28300	28400	Service Link	
AU3	100	27750	27700	27800	Service Link	
GU25	100	29950	29900	30000	Service Link	
AU14	100	28850	28800	28900	Service Link	
AU22	100	29650	29600	29700	Service Link	
GU28	250	28125	28000	28250	Service Link	
GU31	250	28875	28750	29000	Service Link	
GU32	250	29125	29000	29250	Service Link	
AU29	250	28375	28250	28500	Service Link	
GU18	100	29250	29200	29300	Service Link	
AU34	250	29625	29500	29750	Service Link	
GU21	100	29550	29500	29600	Service Link	
AU9	100	28350	28300	28400	Service Link	
GU45	375	27687.5	27500	27875	Service Link	
GU26	250	27625	27500	27750	Service Link	
GU24	100	29850	29800	29900	Service Link	

a. Beam ID:	KUUV	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	13750	o. Peak Isotropic Antenna Gain (dBi):	
c. Beam Frequency (Upper Band Edge) (MHz):	14500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	V	q. Antenna Pointing Error (°):	
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	25.114(c)(4)(vii) (GSO)
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):	17	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Minimum G/T (dB/K):	0		
l. Maximum Saturation Flux Density (dBW/m²):	-100		
m. Minimum Saturation Flux Density (dBW/m²):	-113		
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
Ku008	50	14125	14100	14150	Service Link	
Ku003	50	13875	13850	13900	Service Link	
Ku012	50	14325	14300	14350	Service Link	
Ku011	50	14275	14250	14300	Service Link	
Ku010	50	14225	14200	14250	Service Link	
Ku009	50	14175	14150	14200	Service Link	
Ku015	50	14475	14450	14500	Service Link	
Ku014	50	14425	14400	14450	Service Link	
Ku013	50	14375	14350	14400	Service Link	
Ku0016	250	13875	13750	14000	Service Link	
Ku0018	250	14375	14250	14500	Service Link	
Ku0017	250	14125	14000	14250	Service Link	
Ku002	50	13825	13800	13850	Service Link	
Ku005	50	13975	13950	14000	Service Link	
Ku007	50	14075	14050	14100	Service Link	
Ku006	50	14025	14000	14050	Service Link	
Ku004	50	13925	13900	13950	Service Link	
Ku001	50	13775	13750	13800	Service Link	

a. Beam ID:	KGUL	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	27500	o. Peak Isotropic Antenna Gain (dBi):	51.1
c. Beam Frequency (Upper Band Edge) (MHz):	30000	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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?:	25.114(c)(4)(vii) (GSO)
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):	22	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Minimum G/T (dB/K):	7		
l. Maximum Saturation Flux Density (dBW/m²):	-87		
m. Minimum Saturation Flux Density (dBW/m²):	-98		

x. Receive Channels						
(i) Channel ID	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type	(vii) Point of Communication
AU3	100	27750	27700	27800	Feeder Link	
GU20	100	29450	29400	29500	Feeder Link	
GU44	250	29875	29750	30000	Feeder Link	
GU38	500	28750	28500	29000	Feeder Link	
AU4	100	27850	27800	27900	Feeder Link	
GU22	100	29650	29600	29700	Feeder Link	

AU9	100	28350	28300	28400	Feeder Link	
AU28	250	28125	28000	28250	Feeder Link	
GU2	100	27650	27600	27700	Feeder Link	
GU14	100	28850	28800	28900	Feeder Link	
GU24	100	29850	29800	29900	Feeder Link	
AU5	100	27950	27900	28000	Feeder Link	
GU4	100	27850	27800	27900	Feeder Link	
AU6	100	28050	28000	28100	Feeder Link	
GU16	100	29050	29000	29100	Feeder Link	
AU14	100	28850	28800	28900	Feeder Link	
AU10	100	28450	28400	28500	Feeder Link	
AU24	100	29850	29800	29900	Feeder Link	
GU3	100	27750	27700	27800	Feeder Link	
AU19	100	29350	29300	29400	Feeder Link	
AU12	100	28650	28600	28700	Feeder Link	
GU48	375	28812.5	28625	29000	Feeder Link	
AU17	100	29150	29100	29200	Feeder Link	
AU25	100	29950	29900	30000	Feeder Link	
AU18	100	29250	29200	29300	Feeder Link	
GU43	750	29375	29000	29750	Feeder Link	
GU10	100	28450	28400	28500	Feeder Link	
GU18	100	29250	29200	29300	Feeder Link	
AU31	250	28875	28750	29000	Feeder Link	
GU27	250	27875	27750	28000	Feeder Link	
GU47	375	28437.5	28250	28625	Feeder Link	
GU19	100	29350	29300	29400	Feeder Link	
GU31	250	28875	28750	29000	Feeder Link	
GU25	100	29950	29900	30000	Feeder Link	
GU40	500	29750	29500	30000	Feeder Link	
GU34	250	29625	29500	29750	Feeder Link	
AU2	100	27650	27600	27700	Feeder Link	
AU30	250	28625	28500	28750	Feeder Link	
GU9	100	28350	28300	28400	Feeder Link	
TU1	200	28450	28350	28550	Feeder Link	
GU50	375	29562.5	29375	29750	Feeder Link	
AU22	100	29650	29600	29700	Feeder Link	
GU32	250	29125	29000	29250	Feeder Link	
AU15	100	28950	28900	29000	Feeder Link	
GU37	500	28250	28000	28500	Feeder Link	
AU13	100	28750	28700	28800	Feeder Link	
AU7	100	28150	28100	28200	Feeder Link	

GU42	750	28625	28250	29000	Feeder Link	
GU41	750	27875	27500	28250	Feeder Link	
AU21	100	29550	29500	29600	Feeder Link	
GU15	100	28950	28900	29000	Feeder Link	
GU30	250	28625	28500	28750	Feeder Link	
AU23	100	29750	29700	29800	Feeder Link	
AU34	250	29625	29500	29750	Feeder Link	
AU16	100	29050	29000	29100	Feeder Link	
GU21	100	29550	29500	29600	Feeder Link	
GU17	100	29150	29100	29200	Feeder Link	
AU29	250	28375	28250	28500	Feeder Link	
GU35	250	29875	29750	30000	Feeder Link	
GU5	100	27950	27900	28000	Feeder Link	
AU11	100	28550	28500	28600	Feeder Link	
GU51	250	29875	29750	30000	Feeder Link	
GU49	375	29187.5	29000	29375	Feeder Link	
GU29	250	28375	28250	28500	Feeder Link	
GU13	100	28750	28700	28800	Feeder Link	
GU36	500	27750	27500	28000	Feeder Link	
AU33	250	29375	29250	29500	Feeder Link	
GU28	250	28125	28000	28250	Feeder Link	
AU26	250	27625	27500	27750	Feeder Link	
AU35	250	29875	29750	30000	Feeder Link	
GU46	375	28062.5	27875	28250	Feeder Link	
AU1	100	27550	27500	27600	Feeder Link	
GU33	250	29375	29250	29500	Feeder Link	
GU23	100	29750	29700	29800	Feeder Link	
GU45	375	27687.5	27500	27875	Feeder Link	
GU1	100	27550	27500	27600	Feeder Link	
AU27	250	27875	27750	28000	Feeder Link	
AU8	100	28250	28200	28300	Feeder Link	
GU26	250	27625	27500	27750	Feeder Link	
GU12	100	28650	28600	28700	Feeder Link	
GU39	500	29250	29000	29500	Feeder Link	
AU20	100	29450	29400	29500	Feeder Link	
GU11	100	28550	28500	28600	Feeder Link	
GU8	100	28250	28200	28300	Feeder Link	
GU7	100	28150	28100	28200	Feeder Link	
GU6	100	28050	28000	28100	Feeder Link	
AU32	250	29125	29000	29250	Feeder Link	

a. Beam ID:	KUUV2	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):	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?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	25.114(c)(4)(vii) (GSO)
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):	17	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Minimum G/T (dB/K):	0		
l. Maximum Saturation Flux Density (dBW/m²):	-100		
m. Minimum Saturation Flux Density (dBW/m²):	-113		

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
Ku2002	50	12825	12800	12850	Service Link	
Ku2003	50	12875	12850	12900	Service Link	
Ku2008	50	13125	13100	13150	Service Link	
Ku2004	50	12925	12900	12950	Service Link	
Ku2010	50	13225	13200	13250	Service Link	
Ku2005	50	12975	12950	13000	Service Link	
Ku2001	50	12775	12750	12800	Service Link	
Ku2006	50	13025	13000	13050	Service Link	
Ku2009	50	13175	13150	13200	Service Link	
Ku20011	250	12875	12750	13000	Service Link	
Ku2007	50	13075	13050	13100	Service Link	
Ku20012	250	13125	13000	13250	Service Link	

a. Beam ID:	CLRL	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	-80
b. Beam Frequency (Lower Band Edge) (MHz):	28350	o. Peak Isotropic Antenna Gain (dBi):	5
c. Beam Frequency (Upper Band Edge) (MHz):	28550	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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):	-25.4	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
AU29	200	28450	28350	28550	TT&C	
AU11	200	28450	28350	28550	TT&C	
TU1	200	28450	28350	28550	TT&C	
GU11	200	28450	28350	28550	TT&C	
GU47	200	28450	28350	28550	TT&C	
AU10	200	28450	28350	28550	TT&C	
GU29	200	28450	28350	28550	TT&C	
GU9	200	28450	28350	28550	TT&C	
AU9	200	28450	28350	28550	TT&C	
GU10	200	28450	28350	28550	TT&C	

S5. Space-to-Earth (Transmit) Beams

a. Beam ID:	KADL	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17300	o. Peak Isotropic Antenna Gain (dBi):	46.9
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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?:	25.114(c)(4)(vii) (GSO)
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):	-20.2	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Maximum Transmit EIRP (dBW):	65.5		

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
GD85	50	20175	20150	20200	Service Link	
U006	250	17675	17550	17800	Service Link	
GD79	50	19875	19850	19900	Service Link	
GD51	50	18475	18450	18500	Service Link	
U005	250	17425	17300	17550	Service Link	
GD17	100	19350	19300	19400	Service Link	
GD62	50	19025	19000	19050	Service Link	
GD81	50	19975	19950	20000	Service Link	
GD5	100	18150	18100	18200	Service Link	
GD71	50	19475	19450	19500	Service Link	
GD50	50	18425	18400	18450	Service Link	
AD6	375	19762.5	19575	19950	Service Link	

GD30	250	18825	18700	18950	Service Link	
GD19	100	19550	19500	19600	Service Link	
GD34	250	19825	19700	19950	Service Link	
GD83	50	20075	20050	20100	Service Link	
AD8	750	18075	17700	18450	Service Link	
GD48	50	18325	18300	18350	Service Link	
GD35	250	20075	19950	20200	Service Link	
GD15	100	19150	19100	19200	Service Link	
GD58	50	18825	18800	18850	Service Link	
GD8	100	18450	18400	18500	Service Link	
GD46	50	18225	18200	18250	Service Link	
GD72	50	19525	19500	19550	Service Link	
GD6	100	18250	18200	18300	Service Link	
GD63	50	19075	19050	19100	Service Link	
GD3	100	17950	17900	18000	Service Link	
GD11	100	18750	18700	18800	Service Link	
GD76	50	19725	19700	19750	Service Link	
GD26	250	17825	17700	17950	Service Link	
GD33	250	19575	19450	19700	Service Link	
GD29	250	18575	18450	18700	Service Link	
GD16	100	19250	19200	19300	Service Link	
GD73	50	19575	19550	19600	Service Link	
GD27	250	18075	17950	18200	Service Link	
GD9	100	18550	18500	18600	Service Link	
GD2	100	17850	17800	17900	Service Link	
GD12	100	18850	18800	18900	Service Link	
GD39	50	17875	17850	17900	Service Link	
AD5	375	19387.5	19200	19575	Service Link	
GD64	50	19125	19100	19150	Service Link	
GD53	50	18575	18550	18600	Service Link	
GD45	50	18175	18150	18200	Service Link	
GD47	50	18275	18250	18300	Service Link	
GD67	50	19275	19250	19300	Service Link	
GD56	50	18725	18700	18750	Service Link	
GD55	50	18675	18650	18700	Service Link	
GD32	250	19325	19200	19450	Service Link	
GD10	100	18650	18600	18700	Service Link	
GD14	100	19050	19000	19100	Service Link	
GD61	50	18975	18950	19000	Service Link	
GD77	50	19775	19750	19800	Service Link	
GD74	50	19625	19600	19650	Service Link	

GD75	50	19675	19650	19700	Service Link	
AD11	250	20075	19950	20200	Service Link	
GD69	50	19375	19350	19400	Service Link	
GD24	100	20050	20000	20100	Service Link	
GD20	100	19650	19600	19700	Service Link	
AD3	375	18637.5	18450	18825	Service Link	
GD1	100	17750	17700	17800	Service Link	
GD59	50	18875	18850	18900	Service Link	
GD60	50	18925	18900	18950	Service Link	
AD2	375	18262.5	18075	18450	Service Link	
GD38	50	17825	17800	17850	Service Link	
AD4	375	19012.5	18825	19200	Service Link	
GD37	50	17775	17750	17800	Service Link	
GD25	100	20150	20100	20200	Service Link	
GD82	50	20025	20000	20050	Service Link	
GD78	50	19825	19800	19850	Service Link	
AD7	250	20075	19950	20200	Service Link	
GD80	50	19925	19900	19950	Service Link	
U003	100	17550	17500	17600	Service Link	
GD44	50	18125	18100	18150	Service Link	
GD13	100	18950	18900	19000	Service Link	
AD10	750	19575	19200	19950	Service Link	
AD9	750	18825	18450	19200	Service Link	
GD84	50	20125	20100	20150	Service Link	
TD1	200	19700	19600	19800	Service Link	
GD43	50	18075	18050	18100	Service Link	
GD41	50	17975	17950	18000	Service Link	
GD22	100	19850	19800	19900	Service Link	
GD57	50	18775	18750	18800	Service Link	
AD1	375	17887.5	17700	18075	Service Link	
U001	100	17350	17300	17400	Service Link	
GD7	100	18350	18300	18400	Service Link	
GD52	50	18525	18500	18550	Service Link	
GD40	50	17925	17900	17950	Service Link	
GD42	50	18025	18000	18050	Service Link	
GD49	50	18375	18350	18400	Service Link	
GD21	100	19750	19700	19800	Service Link	
GD31	250	19075	18950	19200	Service Link	
U004	100	17650	17600	17700	Service Link	
GD18	100	19450	19400	19500	Service Link	
GD68	50	19325	19300	19350	Service Link	

GD66	50	19225	19200	19250	Service Link	
U002	100	17450	17400	17500	Service Link	
GD4	100	18050	18000	18100	Service Link	
GD65	50	19175	19150	19200	Service Link	
GD23	100	19950	19900	20000	Service Link	
GD70	50	19425	19400	19450	Service Link	
GD54	50	18625	18600	18650	Service Link	
GD28	250	18325	18200	18450	Service Link	
GD36	50	17725	17700	17750	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)
17300	20200	1 MHz	-123.5	-123.5	-123.3	-123.2	-123.1	-122.3	-122.3	-122.3	-122.3	-122.3	

a. Beam ID:	CGDL	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19600	o. Peak Isotropic Antenna Gain (dBi):	46.9
c. Beam Frequency (Upper Band Edge) (MHz):	19800	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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?:	25.114(c)(4)(vii) (GSO)
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):	-20.2	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Maximum Transmit EIRP (dBW):	26.8		

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
GD20	100	19650	19600	19700	TT&C	
GD76	50	19725	19700	19750	TT&C	
GD77	50	19775	19750	19800	TT&C	
GD75	50	19675	19650	19700	TT&C	
GD74	50	19625	19600	19650	TT&C	
GD21	100	19750	19700	19800	TT&C	
AD6	200	19700	19600	19800	TT&C	
TD1	200	19700	19600	19800	TT&C	

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

Edge) (MHz)	Edge) (MHz)								(dBW/m²/BW)	(dBW/m²/BW)			(kHz)
19600	19800	1 MHz	-123.5	-123.5	-123.3	-123.2	-123.1	-122.3	-122.3	-122.3	-122.3	-122.3	

a. Beam ID:	KUDV	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):	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?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	25.114(c)(4)(vii) (GSO)
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):	-22	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Maximum Transmit EIRP (dBW):	63.7		

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
KuD0021	250	12075	11950	12200		
KuD0016	250	10825	10700	10950	Service Link	
KuD0020	250	11825	11700	11950		
KuD001	100	10750	10700	10800		
KuD009	100	11550	11500	11600		
KuD006	100	11250	11200	11300		
KuD005	100	11150	11100	11200		
KuD008	100	11450	11400	11500		
KuD007	100	11350	11300	11400		
KuD003	100	10950	10900	11000		
KuD002	100	10850	10800	10900		
KuD004	100	11050	11000	11100		
KuD010	100	11650	11600	11700		
KuD015	100	12150	12100	12200		
KuD011	100	11750	11700	11800		
KuD012	100	11850	11800	11900		
KuD013	100	11950	11900	12000		
KuD014	100	12050	12000	12100		
KuD0017	250	11075	10950	11200	Service Link	
KuD0018	250	11325	11200	11450	Service Link	
KuD0019	250	11575	11450	11700		

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

Edge) (MHz)	Edge) (MHz)								(dBW/m²/BW)	(dBW/m²/BW)			(kHz)
10700	11700	4 kHz	-150.2	-150.2	-150.2	-148	-148	-148					

a. Beam ID:	KUDH	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):	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?:	Yes	r. Antenna Rotational Error (°):	
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	Yes
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	25.114(c)(4)(vii) (GSO)
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):	-22	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Maximum Transmit EIRP (dBW):	63.7		

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
KuD0016	250	10825	10700	10950	Service Link	
KuD0019	250	11575	11450	11700		
KuD006	100	11250	11200	11300		
KuD005	100	11150	11100	11200		
KuD014	100	12050	12000	12100		
KuD003	100	10950	10900	11000		
KuD010	100	11650	11600	11700		
KuD0018	250	11325	11200	11450	Service Link	
KuD012	100	11850	11800	11900		
KuD0021	250	12075	11950	12200		
KuD008	100	11450	11400	11500		
KuD001	100	10750	10700	10800		
KuD011	100	11750	11700	11800		
KuD004	100	11050	11000	11100		
KuD0020	250	11825	11700	11950		
KuD002	100	10850	10800	10900		
KuD015	100	12150	12100	12200		
KuD007	100	11350	11300	11400		
KuD0017	250	11075	10950	11200	Service Link	
KuD013	100	11950	11900	12000		
KuD009	100	11550	11500	11600		

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

Edge) (MHz)	Edge) (MHz)								(dBW/m²/BW)	(dBW/m²/BW)			(kHz)
10700	11700	4 kHz	-150.2	-150.2	-150.2	-148	-148	-148					

a. Beam ID:	CLDL	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19600	o. Peak Isotropic Antenna Gain (dBi):	5
c. Beam Frequency (Upper Band Edge) (MHz):	19800	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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):	-30.8	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	16.2		

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
GD77	50	19775	19750	19800	TT&C	
GD20	100	19650	19600	19700	TT&C	
GD75	50	19675	19650	19700	TT&C	
GD76	50	19725	19700	19750	TT&C	
GD21	100	19750	19700	19800	TT&C	
TD1	200	19700	19600	19800	TT&C	
GD74	50	19625	19600	19650	TT&C	
AD6	200	19700	19600	19800	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)
19600	19800	1 MHz	-132.9	-132.9	-132.9	-132.9	-132.9	-132.9					

a. Beam ID:	CLDR	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19600	o. Peak Isotropic Antenna Gain (dBi):	5
c. Beam Frequency (Upper Band Edge) (MHz):	19800	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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):	-30.8	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	16.2		

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
GD20	100	19650	19600	19700	TT&C	
GD77	50	19775	19750	19800	TT&C	
TD1	200	19700	19600	19800	TT&C	
GD21	100	19750	19700	19800	TT&C	
GD74	50	19625	19600	19650	TT&C	
GD76	50	19725	19700	19750	TT&C	
AD6	200	19700	19600	19800	TT&C	
GD75	50	19675	19650	19700	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)
19600	19800	1 MHz	-132.9	-132.9	-132.9	-132.9	-132.9	-132.9					

a. Beam ID:	CGDR	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	19600	o. Peak Isotropic Antenna Gain (dBi):	46.9
c. Beam Frequency (Upper Band Edge) (MHz):	19800	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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?:	25.114(c)(4)(vii) (GSO)
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):	-20.2	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Maximum Transmit EIRP (dBW):	26.8		

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
GD77	50	19775	19750	19800	TT&C	
AD6	200	19700	19600	19800	TT&C	
GD20	100	19650	19600	19700	TT&C	
GD75	50	19675	19650	19700	TT&C	
GD21	100	19750	19700	19800	TT&C	
TD1	200	19700	19600	19800	TT&C	
GD74	50	19625	19600	19650	TT&C	
GD76	50	19725	19700	19750	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)
19600	19800	1 MHz	-123.5	-123.5	-123.3	-123.2	-123.1	-122.3	-122.3	-122.3	-122.3	-122.3	

a. Beam ID:	KGDR	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17300	o. Peak Isotropic Antenna Gain (dBi):	46.9
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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?:	25.114(c)(4)(vii) (GSO)
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):	-20.2	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Maximum Transmit EIRP (dBW):	65.5		

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
GD81	50	19975	19950	20000	Feeder Link	
GD16	100	19250	19200	19300	Feeder Link	
GD39	50	17875	17850	17900	Feeder Link	
GD62	50	19025	19000	19050	Feeder Link	
GD30	250	18825	18700	18950	Feeder Link	
GD25	100	20150	20100	20200	Feeder Link	
GD77	50	19775	19750	19800	Feeder Link	
G010	250	17425	17300	17550	Feeder Link	
GD85	50	20175	20150	20200	Feeder Link	
GD33	250	19575	19450	19700	Feeder Link	
GD19	100	19550	19500	19600	Feeder Link	
GD46	50	18225	18200	18250	Feeder Link	
GD5	100	18150	18100	18200	Feeder Link	
AD9	750	18825	18450	19200	Feeder Link	
GD57	50	18775	18750	18800	Feeder Link	
GD74	50	19625	19600	19650	Feeder Link	
GD1	100	17750	17700	17800	Feeder Link	
GD20	100	19650	19600	19700	Feeder Link	
G008	50	17675	17650	17700	Feeder Link	
AD11	250	20075	19950	20200	Feeder Link	
GD22	100	19850	19800	19900	Feeder Link	
GD65	50	19175	19150	19200	Feeder Link	
GD2	100	17850	17800	17900	Feeder Link	

GD8	100	18450	18400	18500	Feeder Link	
GD42	50	18025	18000	18050	Feeder Link	
GD75	50	19675	19650	19700	Feeder Link	
GD38	50	17825	17800	17850	Feeder Link	
AD2	375	18262.5	18075	18450	Feeder Link	
GD78	50	19825	19800	19850	Feeder Link	
GD37	50	17775	17750	17800	Feeder Link	
AD7	250	20075	19950	20200	Feeder Link	
GD26	250	17825	17700	17950	Feeder Link	
GD50	50	18425	18400	18450	Feeder Link	
GD58	50	18825	18800	18850	Feeder Link	
G001	50	17325	17300	17350	Feeder Link	
G011	250	17675	17550	17800	Feeder Link	
GD40	50	17925	17900	17950	Feeder Link	
GD72	50	19525	19500	19550	Feeder Link	
GD64	50	19125	19100	19150	Feeder Link	
GD67	50	19275	19250	19300	Feeder Link	
GD36	50	17725	17700	17750	Feeder Link	
GD9	100	18550	18500	18600	Feeder Link	
GD61	50	18975	18950	19000	Feeder Link	
GD18	100	19450	19400	19500	Feeder Link	
GD28	250	18325	18200	18450	Feeder Link	
GD73	50	19575	19550	19600	Feeder Link	
GD49	50	18375	18350	18400	Feeder Link	
GD66	50	19225	19200	19250	Feeder Link	
GD27	250	18075	17950	18200	Feeder Link	
AD3	375	18637.5	18450	18825	Feeder Link	
GD4	100	18050	18000	18100	Feeder Link	
GD3	100	17950	17900	18000	Feeder Link	
GD52	50	18525	18500	18550	Feeder Link	
GD69	50	19375	19350	19400	Feeder Link	
GD41	50	17975	17950	18000	Feeder Link	
GD12	100	18850	18800	18900	Feeder Link	
GD31	250	19075	18950	19200	Feeder Link	
AD8	750	18075	17700	18450	Feeder Link	
G006	50	17575	17550	17600	Feeder Link	
G007	50	17625	17600	17650	Feeder Link	
GD21	100	19750	19700	19800	Feeder Link	
G004	50	17475	17450	17500	Feeder Link	
GD24	100	20050	20000	20100	Feeder Link	
G005	50	17525	17500	17550	Feeder Link	

G003	50	17425	17400	17450	Feeder Link	
GD76	50	19725	19700	19750	Feeder Link	
GD43	50	18075	18050	18100	Feeder Link	
GD13	100	18950	18900	19000	Feeder Link	
TD1	200	19700	19600	19800	Feeder Link	
GD51	50	18475	18450	18500	Feeder Link	
GD83	50	20075	20050	20100	Feeder Link	
GD47	50	18275	18250	18300	Feeder Link	
G002	50	17375	17350	17400	Feeder Link	
GD32	250	19325	19200	19450	Feeder Link	
GD35	250	20075	19950	20200	Feeder Link	
GD80	50	19925	19900	19950	Feeder Link	
GD53	50	18575	18550	18600	Feeder Link	
GD23	100	19950	19900	20000	Feeder Link	
GD70	50	19425	19400	19450	Feeder Link	
GD11	100	18750	18700	18800	Feeder Link	
GD71	50	19475	19450	19500	Feeder Link	
GD14	100	19050	19000	19100	Feeder Link	
GD55	50	18675	18650	18700	Feeder Link	
GD63	50	19075	19050	19100	Feeder Link	
GD48	50	18325	18300	18350	Feeder Link	
AD4	375	19012.5	18825	19200	Feeder Link	
GD44	50	18125	18100	18150	Feeder Link	
GD17	100	19350	19300	19400	Feeder Link	
GD29	250	18575	18450	18700	Feeder Link	
GD6	100	18250	18200	18300	Feeder Link	
AD6	375	19762.5	19575	19950	Feeder Link	
GD10	100	18650	18600	18700	Feeder Link	
GD45	50	18175	18150	18200	Feeder Link	
GD54	50	18625	18600	18650	Feeder Link	
GD59	50	18875	18850	18900	Feeder Link	
GD82	50	20025	20000	20050	Feeder Link	
GD60	50	18925	18900	18950	Feeder Link	
GD56	50	18725	18700	18750	Feeder Link	
GD7	100	18350	18300	18400	Feeder Link	
GD79	50	19875	19850	19900	Feeder Link	
AD1	375	17887.5	17700	18075	Feeder Link	
GD34	250	19825	19700	19950	Feeder Link	
GD15	100	19150	19100	19200	Feeder Link	
GD84	50	20125	20100	20150	Feeder Link	
GD68	50	19325	19300	19350	Feeder Link	

AD5			375	19387.5	19200	19575	Feeder Link						
AD10			750	19575	19200	19950	Feeder Link						
y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
17300	20200	1 MHz	-123.5	-123.5	-123.3	-123.2	-123.1	-122.3	-122.3	-122.3	-122.3	-122.3	

a. Beam ID:	KGDL	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17300	o. Peak Isotropic Antenna Gain (dBi):	46.9
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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?:	25.114(c)(4)(vii) (GSO)
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):	-20.2	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Maximum Transmit EIRP (dBW):	65.5		

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
GD44	50	18125	18100	18150	Feeder Link	
GD54	50	18625	18600	18650	Feeder Link	
AD7	250	20075	19950	20200	Feeder Link	
GD17	100	19350	19300	19400	Feeder Link	
GD79	50	19875	19850	19900	Feeder Link	
GD58	50	18825	18800	18850	Feeder Link	
GD27	250	18075	17950	18200	Feeder Link	
AD10	750	19575	19200	19950	Feeder Link	
GD5	100	18150	18100	18200	Feeder Link	
GD26	250	17825	17700	17950	Feeder Link	
GD49	50	18375	18350	18400	Feeder Link	
GD69	50	19375	19350	19400	Feeder Link	
GD51	50	18475	18450	18500	Feeder Link	
GD16	100	19250	19200	19300	Feeder Link	
G001	50	17325	17300	17350	Feeder Link	
GD64	50	19125	19100	19150	Feeder Link	
GD1	100	17750	17700	17800	Feeder Link	
AD9	750	18825	18450	19200	Feeder Link	
GD52	50	18525	18500	18550	Feeder Link	

GD50	50	18425	18400	18450	Feeder Link	
GD24	100	20050	20000	20100	Feeder Link	
AD4	375	19012.5	18825	19200	Feeder Link	
GD80	50	19925	19900	19950	Feeder Link	
GD57	50	18775	18750	18800	Feeder Link	
G005	50	17525	17500	17550	Feeder Link	
GD41	50	17975	17950	18000	Feeder Link	
GD39	50	17875	17850	17900	Feeder Link	
GD20	100	19650	19600	19700	Feeder Link	
GD23	100	19950	19900	20000	Feeder Link	
G007	50	17625	17600	17650	Feeder Link	
GD83	50	20075	20050	20100	Feeder Link	
GD12	100	18850	18800	18900	Feeder Link	
GD47	50	18275	18250	18300	Feeder Link	
GD85	50	20175	20150	20200	Feeder Link	
GD62	50	19025	19000	19050	Feeder Link	
GD21	100	19750	19700	19800	Feeder Link	
G008	50	17675	17650	17700	Feeder Link	
GD25	100	20150	20100	20200	Feeder Link	
AD11	250	20075	19950	20200	Feeder Link	
GD53	50	18575	18550	18600	Feeder Link	
G002	50	17375	17350	17400	Feeder Link	
GD32	250	19325	19200	19450	Feeder Link	
G004	50	17475	17450	17500	Feeder Link	
GD8	100	18450	18400	18500	Feeder Link	
GD77	50	19775	19750	19800	Feeder Link	
G003	50	17425	17400	17450	Feeder Link	
GD43	50	18075	18050	18100	Feeder Link	
GD33	250	19575	19450	19700	Feeder Link	
GD35	250	20075	19950	20200	Feeder Link	
G006	50	17575	17550	17600	Feeder Link	
GD48	50	18325	18300	18350	Feeder Link	
GD42	50	18025	18000	18050	Feeder Link	
GD22	100	19850	19800	19900	Feeder Link	
GD19	100	19550	19500	19600	Feeder Link	
G010	250	17425	17300	17550	Feeder Link	
GD76	50	19725	19700	19750	Feeder Link	
GD65	50	19175	19150	19200	Feeder Link	
GD31	250	19075	18950	19200	Feeder Link	
GD13	100	18950	18900	19000	Feeder Link	
AD8	750	18075	17700	18450	Feeder Link	

GD74	50	19625	19600	19650	Feeder Link	
GD81	50	19975	19950	20000	Feeder Link	
GD46	50	18225	18200	18250	Feeder Link	
AD1	375	17887.5	17700	18075	Feeder Link	
GD29	250	18575	18450	18700	Feeder Link	
TD1	200	19700	19600	19800	Feeder Link	
GD34	250	19825	19700	19950	Feeder Link	
GD36	50	17725	17700	17750	Feeder Link	
GD2	100	17850	17800	17900	Feeder Link	
GD30	250	18825	18700	18950	Feeder Link	
GD70	50	19425	19400	19450	Feeder Link	
GD6	100	18250	18200	18300	Feeder Link	
GD67	50	19275	19250	19300	Feeder Link	
GD56	50	18725	18700	18750	Feeder Link	
GD75	50	19675	19650	19700	Feeder Link	
GD9	100	18550	18500	18600	Feeder Link	
GD11	100	18750	18700	18800	Feeder Link	
GD38	50	17825	17800	17850	Feeder Link	
GD61	50	18975	18950	19000	Feeder Link	
G011	250	17675	17550	17800	Feeder Link	
AD2	375	18262.5	18075	18450	Feeder Link	
AD3	375	18637.5	18450	18825	Feeder Link	
GD7	100	18350	18300	18400	Feeder Link	
GD71	50	19475	19450	19500	Feeder Link	
GD18	100	19450	19400	19500	Feeder Link	
GD14	100	19050	19000	19100	Feeder Link	
GD40	50	17925	17900	17950	Feeder Link	
GD78	50	19825	19800	19850	Feeder Link	
GD4	100	18050	18000	18100	Feeder Link	
GD15	100	19150	19100	19200	Feeder Link	
GD28	250	18325	18200	18450	Feeder Link	
GD59	50	18875	18850	18900	Feeder Link	
GD72	50	19525	19500	19550	Feeder Link	
AD6	375	19762.5	19575	19950	Feeder Link	
GD84	50	20125	20100	20150	Feeder Link	
GD55	50	18675	18650	18700	Feeder Link	
GD82	50	20025	20000	20050	Feeder Link	
GD63	50	19075	19050	19100	Feeder Link	
GD37	50	17775	17750	17800	Feeder Link	
GD3	100	17950	17900	18000	Feeder Link	
GD60	50	18925	18900	18950	Feeder Link	

GD10	100	18650	18600	18700	Feeder Link	
GD73	50	19575	19550	19600	Feeder Link	
GD68	50	19325	19300	19350	Feeder Link	
GD66	50	19225	19200	19250	Feeder Link	
GD45	50	18175	18150	18200	Feeder Link	
AD5	375	19387.5	19200	19575	Feeder Link	

y. Max. Power-Flux Densities

			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
17300	20200	1 MHz	-123.5	-123.5	-123.3	-123.2	-123.1	-122.3	-122.3	-122.3	-122.3	-122.3	

a. Beam ID:	KADR	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	17300	o. Peak Isotropic Antenna Gain (dBi):	46.9
c. Beam Frequency (Upper Band Edge) (MHz):	20200	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.09
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?:	25.114(c)(4)(vii) (GSO)
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):	-20.2	w. What information will be provided with the predicted antenna gain contours?:	Isoline Map (25.114(c)(4)(vii)(C))
k. Maximum Transmit EIRP (dBW):	65.5		

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
GD68	50	19325	19300	19350	Service Link	
GD54	50	18625	18600	18650	Service Link	
GD5	100	18150	18100	18200	Service Link	
GD15	100	19150	19100	19200	Service Link	
GD63	50	19075	19050	19100	Service Link	
AD5	375	19387.5	19200	19575	Service Link	
GD47	50	18275	18250	18300	Service Link	
GD24	100	20050	20000	20100	Service Link	
AD7	250	20075	19950	20200	Service Link	
GD44	50	18125	18100	18150	Service Link	
GD52	50	18525	18500	18550	Service Link	
GD18	100	19450	19400	19500	Service Link	
AD9	750	18825	18450	19200	Service Link	
GD57	50	18775	18750	18800	Service Link	
GD23	100	19950	19900	20000	Service Link	

GD81	50	19975	19950	20000	Service Link	
AD8	750	18075	17700	18450	Service Link	
GD8	100	18450	18400	18500	Service Link	
GD45	50	18175	18150	18200	Service Link	
GD74	50	19625	19600	19650	Service Link	
GD59	50	18875	18850	18900	Service Link	
GD80	50	19925	19900	19950	Service Link	
AD10	750	19575	19200	19950	Service Link	
GD40	50	17925	17900	17950	Service Link	
GD65	50	19175	19150	19200	Service Link	
AD6	375	19762.5	19575	19950	Service Link	
GD19	100	19550	19500	19600	Service Link	
GD72	50	19525	19500	19550	Service Link	
GD29	250	18575	18450	18700	Service Link	
GD82	50	20025	20000	20050	Service Link	
GD22	100	19850	19800	19900	Service Link	
GD21	100	19750	19700	19800	Service Link	
GD25	100	20150	20100	20200	Service Link	
GD33	250	19575	19450	19700	Service Link	
GD12	100	18850	18800	18900	Service Link	
GD61	50	18975	18950	19000	Service Link	
AD2	375	18262.5	18075	18450	Service Link	
GD55	50	18675	18650	18700	Service Link	
GD10	100	18650	18600	18700	Service Link	
AD11	250	20075	19950	20200	Service Link	
GD13	100	18950	18900	19000	Service Link	
GD43	50	18075	18050	18100	Service Link	
U001	100	17350	17300	17400	Service Link	
GD51	50	18475	18450	18500	Service Link	
GD30	250	18825	18700	18950	Service Link	
GD46	50	18225	18200	18250	Service Link	
GD11	100	18750	18700	18800	Service Link	
GD16	100	19250	19200	19300	Service Link	
U003	100	17550	17500	17600	Service Link	
GD26	250	17825	17700	17950	Service Link	
GD2	100	17850	17800	17900	Service Link	
GD14	100	19050	19000	19100	Service Link	
GD1	100	17750	17700	17800	Service Link	
GD53	50	18575	18550	18600	Service Link	
GD32	250	19325	19200	19450	Service Link	
GD75	50	19675	19650	19700	Service Link	

GD84	50	20125	20100	20150	Service Link	
GD41	50	17975	17950	18000	Service Link	
U005	250	17425	17300	17550	Service Link	
AD4	375	19012.5	18825	19200	Service Link	
TD1	200	19700	19600	19800	Service Link	
GD42	50	18025	18000	18050	Service Link	
GD66	50	19225	19200	19250	Service Link	
GD38	50	17825	17800	17850	Service Link	
GD70	50	19425	19400	19450	Service Link	
GD36	50	17725	17700	17750	Service Link	
GD71	50	19475	19450	19500	Service Link	
GD4	100	18050	18000	18100	Service Link	
GD31	250	19075	18950	19200	Service Link	
GD78	50	19825	19800	19850	Service Link	
AD1	375	17887.5	17700	18075	Service Link	
GD49	50	18375	18350	18400	Service Link	
U002	100	17450	17400	17500	Service Link	
GD7	100	18350	18300	18400	Service Link	
AD3	375	18637.5	18450	18825	Service Link	
GD28	250	18325	18200	18450	Service Link	
GD79	50	19875	19850	19900	Service Link	
U004	100	17650	17600	17700	Service Link	
GD48	50	18325	18300	18350	Service Link	
GD6	100	18250	18200	18300	Service Link	
GD76	50	19725	19700	19750	Service Link	
GD64	50	19125	19100	19150	Service Link	
GD56	50	18725	18700	18750	Service Link	
GD69	50	19375	19350	19400	Service Link	
GD85	50	20175	20150	20200	Service Link	
GD17	100	19350	19300	19400	Service Link	
GD34	250	19825	19700	19950	Service Link	
GD35	250	20075	19950	20200	Service Link	
GD9	100	18550	18500	18600	Service Link	
GD20	100	19650	19600	19700	Service Link	
GD37	50	17775	17750	17800	Service Link	
GD50	50	18425	18400	18450	Service Link	
GD58	50	18825	18800	18850	Service Link	
GD3	100	17950	17900	18000	Service Link	
GD27	250	18075	17950	18200	Service Link	
GD67	50	19275	19250	19300	Service Link	
GD77	50	19775	19750	19800	Service Link	

U006	250	17675	17550	17800	Service Link	
GD62	50	19025	19000	19050	Service Link	
GD83	50	20075	20050	20100	Service Link	
GD73	50	19575	19550	19600	Service Link	
GD60	50	18925	18900	18950	Service Link	
GD39	50	17875	17850	17900	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)
17300	20200	1 MHz	-123.5	-123.5	-123.3	-123.2	-123.1	-122.3	-122.3	-122.3	-122.3	-122.3	

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
CGDL	Space-to-Earth (Transmit)	GIMS Container File		131W_Mod_Container.mdb
CGDR	Space-to-Earth (Transmit)	GIMS Container File		131W_Mod_Container.mdb
CGRL	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb
CGRR	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb
CLDL	Space-to-Earth (Transmit)	GIMS Container File		131W_Mod_Container.mdb
CLDR	Space-to-Earth (Transmit)	GIMS Container File		131W_Mod_Container.mdb
CLRL	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb
CLRR	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb
KADL	Space-to-Earth (Transmit)	GIMS Container File		131W_Mod_Container.mdb
KADR	Space-to-Earth (Transmit)	GIMS Container File		131W_Mod_Container.mdb
KAUL	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb
KAUR	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb
KGDL	Space-to-Earth (Transmit)	GIMS Container File		131W_Mod_Container.mdb
KGDR	Space-to-Earth (Transmit)	GIMS Container File		131W_Mod_Container.mdb
KGUL	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb
KGUR	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb
KUDH	Space-to-Earth (Transmit)	GIMS Container File		131W_Mod_Container.mdb
KUDV	Space-to-Earth (Transmit)	GIMS Container File		131W_Mod_Container.mdb
KUUH	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb
KUUH2	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb

KUUV	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb
KUUV2	Earth-to-Space (Receive)	GIMS Container File		131W_Mod_Container.mdb