



312 File Number: **SATPPL2021110400141**

Filing Description

Question	Response
Description	Orchestra Q/V band NGSO

Satellite Information

Question	Response
Select Orbit Type	NGSO
Space Station or Satellite Network Name	TARD-1S
Estimated Lifetime of Satellite(s) From Date of Launch	10 Years
Will the space station(s) operate on a Common Carrier basis?	No

Operating Frequency Bands (4)

Nature of service	Description	Frequency Band(s)	Mode Type
Mobile-Satellite Service		40000.0 MHz -41000.0 MHz	Transmit
Fixed-Satellite Service		50400.0 MHz -51400.0 MHz	Receive
Fixed-Satellite Service		47200.0 MHz -50200.0 MHz	Receive
Fixed-Satellite Service		37500.0 MHz -42000.0 MHz	Transmit

**Orbital
Information For
Non-
Geostationary
Satellites**

Question	Response
Total Number of Satellites in the active constellation	198
Orbit Epoch Date	09/20/2021
Celestial Reference Body	Earth

Orbital Plane 1:

Question	Response
Number of Satellites in Plane	18
Inclination Angle	50.0 degrees
Right Ascension of Ascending Node	0.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6337.3 seconds
Apogee	1023.5 km
Perigee	1023.5 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.0 degrees
Active Service Arc End Angle with respect to Ascending Node	50.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	360.0
2	340.0
3	300.0
4	280.0
5	260.0
6	240.0
7	220.0
8	200.0
9	180.0
10	160.0
11	140.0
12	120.0
13	100.0

14	80.0
15	60.0
16	40.0
17	20.0
18	0.0

Orbital Plane 2:

Question	Response
Number of Satellites in Plane	18
Inclination Angle	50.0 degrees
Right Ascension of Ascending Node	36.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6337.3 seconds
Apogee	1023.5 km
Perigee	1023.5 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.0 degrees
Active Service Arc End Angle with respect to Ascending Node	50.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	352.0
2	332.0
3	312.0
4	292.0
5	272.0
6	252.0
7	232.0

8	212.0
9	192.0
10	172.0
11	152.0
12	132.0
13	112.0
14	92.0
15	72.0
16	52.0
17	32.0
18	12.0

Orbital Plane 3:

Question	Response
Number of Satellites in Plane	18
Inclination Angle	50.0 degrees
Right Ascension of Ascending Node	72.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6337.3 seconds
Apogee	1023.5 km
Perigee	1023.5 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.0 degrees
Active Service Arc End Angle with respect to Ascending Node	50.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	44.0

2	64.0
3	84.0
4	104.0
5	124.0
6	144.0
7	164.0
8	184.0
9	204.0
10	224.0
11	244.0
12	264.0
13	284.0
14	304.0
15	324.0
16	344.0
17	4.0
18	24.0

Orbital Plane 4:

Question	Response
Number of Satellites in Plane	18
Inclination Angle	50.0 degrees
Right Ascension of Ascending Node	108.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6337.3 seconds
Apogee	1023.5 km
Perigee	1023.5 km

Active Service Arc Begin Angle with respect to Ascending Node -50.0 degrees

Active Service Arc End Angle with respect to Ascending Node 50.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	256.0
2	276.0
3	296.0
4	316.0
5	336.0
6	356.0
7	16.0
8	36.0
9	56.0
10	76.0
11	96.0
12	116.0
13	136.0
14	156.0
15	176.0
16	196.0
17	216.0
18	236.0

Orbital Plane 5:

Question	Response
Number of Satellites in Plane	18

Inclination Angle	50.0 degrees
Right Ascension of Ascending Node	144.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6337.3 seconds
Apogee	1023.5 km
Perigee	1023.5 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.0 degrees
Active Service Arc End Angle with respect to Ascending Node	50.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	248.0
2	228.0
3	208.0
4	188.0
5	168.0
6	148.0
7	128.0
8	108.0
9	88.0
10	68.0
11	48.0
12	268.0
13	288.0
14	308.0
15	328.0
16	348.0

17	8.0
18	28.0

Orbital Plane 6:

Question	Response
Number of Satellites in Plane	18
Inclination Angle	50.0 degrees
Right Ascension of Ascending Node	180.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6337.3 seconds
Apogee	1023.5 km
Perigee	1023.5 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.0 degrees
Active Service Arc End Angle with respect to Ascending Node	50.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	60.0
2	80.0
3	100.0
4	120.0
5	140.0
6	160.0
7	180.0
8	40.0
9	20.0
10	0.0

11	340.0
12	320.0
13	300.0
14	280.0
15	260.0
16	240.0
17	220.0
18	200.0

Orbital Plane 7:

Question	Response
Number of Satellites in Plane	18
Inclination Angle	50.0 degrees
Right Ascension of Ascending Node	216.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6337.3 seconds
Apogee	1023.5 km
Perigee	1023.5 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.0 degrees
Active Service Arc End Angle with respect to Ascending Node	50.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	72.0
2	52.0
3	32.0
4	12.0

5	352.0
6	332.0
7	312.0
8	292.0
9	272.0
10	252.0
11	232.0
12	212.0
13	192.0
14	172.0
15	152.0
16	132.0
17	112.0
18	92.0

Orbital Plane 8:

Question	Response
Number of Satellites in Plane	18
Inclination Angle	50.0 degrees
Right Ascension of Ascending Node	252.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6337.3 seconds
Apogee	1023.5 km
Perigee	1023.5 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.0 degrees
Active Service Arc End Angle with respect to Ascending Node	50.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	184.0
2	204.0
3	224.0
4	244.0
5	264.0
6	284.0
7	304.0
8	324.0
9	344.0
10	4.0
11	24.0
12	44.0
13	64.0
14	164.0
15	144.0
16	124.0
17	104.0
18	84.0

Orbital Plane 9:

Question	Response
Number of Satellites in Plane	18
Inclination Angle	50.0 degrees
Right Ascension of Ascending Node	288.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6337.3 seconds

Apogee	1023.5 km
Perigee	1023.5 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.0 degrees
Active Service Arc End Angle with respect to Ascending Node	50.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	96.0
2	116.0
3	136.0
4	156.0
5	176.0
6	76.0
7	56.0
8	36.0
9	16.0
10	356.0
11	336.0
12	316.0
13	296.0
14	276.0
15	256.0
16	236.0
17	216.0
18	196.0

Orbital Plane 10:

Question	Response
Number of Satellites in Plane	18
Inclination Angle	50.0 degrees
Right Ascension of Ascending Node	324.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6337.3 seconds
Apogee	1023.5 km
Perigee	1023.5 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.0 degrees
Active Service Arc End Angle with respect to Ascending Node	50.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	108.0
2	88.0
3	68.0
4	48.0
5	28.0
6	8.0
7	348.0
8	328.0
9	308.0
10	288.0
11	268.0
12	248.0
13	228.0
14	208.0

15	188.0
16	168.0
17	148.0
18	128.0

Orbital Plane 11:

Question	Response
Number of Satellites in Plane	18
Inclination Angle	0.0 degrees
Right Ascension of Ascending Node	0.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	5956.6 seconds
Apogee	724.0 km
Perigee	724.0 km
Active Service Arc Begin Angle with respect to Ascending Node	0.0 degrees
Active Service Arc End Angle with respect to Ascending Node	0.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	0.0
2	20.0
3	40.0
4	60.0
5	80.0
6	100.0
7	120.0
8	140.0

9	160.0
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10	180.0
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11	200.0
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12	240.0
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13	260.0
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14	280.0
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15	300.0
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16	320.0
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17	340.0
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18	220.0
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Receiving Beams 1:

Question	Response
Beam ID	RUL3
Receive Beam Frequency	48200.0 MHz -50200.0 MHz
Beam Type	Steerable
Polarization	LHCP
Peak Gain	49.4 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	19.9 dB/K
Min. Saturation Flux Density	-101.6 dBW/m ²
Max. Saturation Flux Density	-51.8 dBW/m ²
Co- or Cross Polar Mode	C
Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles

Receiving Beams 2:

Question	Response
Beam ID	RGR1
Receive Beam Frequency	47200.0 MHz -50200.0 MHz
Beam Type	Steerable
Polarization	RHCP

Peak Gain	42.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	12.5 dB/K
Min. Saturation Flux Density	-74.2 dBW/m ²
Max. Saturation Flux Density	-56.4 dBW/m ²
Co- or Cross Polar Mode	C
Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles.

Receiving Beams 3:

Question	Response
Beam ID	RGR2
Receive Beam Frequency	50400.0 MHz -51400.0 MHz
Beam Type	Steerable
Polarization	RHCP
Peak Gain	42.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees

G/T at Max. Gain Point	12.5 dB/K
Min. Saturation Flux Density	-74.2 dBW/m2
Max. Saturation Flux Density	-56.4 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles

Receiving Beams 4:

Question	Response
Beam ID	RGL1
Receive Beam Frequency	47200.0 MHz -50200.0 MHz
Beam Type	Steerable
Polarization	LHCP
Peak Gain	42.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	12.5 dB/K
Min. Saturation Flux Density	-74.2 dBW/m2
Max. Saturation Flux Density	-56.4 dBW/m2
Co- or Cross Polar Mode	C

Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles
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Receiving Beams 5:

Question	Response
Beam ID	RGL2
Receive Beam Frequency	50400.0 MHz -51400.0 MHz
Beam Type	Steerable
Polarization	LHCP
Peak Gain	42.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	12.5 dB/K
Min. Saturation Flux Density	-74.2 dBW/m2
Max. Saturation Flux Density	-56.4 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles

Receiving Beams 6:

Question	Response
Beam ID	RUR3
Receive Beam Frequency	48200.0 MHz -50200.0 MHz

Beam Type	Steerable
Polarization	RHCP
Peak Gain	49.4 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	19.9 dB/K
Min. Saturation Flux Density	-101.6 dBW/m ²
Max. Saturation Flux Density	-51.8 dBW/m ²
Co- or Cross Polar Mode	C
Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles

Receiving Channels (24)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
FGR3	500.0	48450.0	Feeder Link
FGR2	500.0	47950.0	Feeder Link
FGR1	500.0	47450.0	Feeder Link
FGL8	500.0	51150.0	Feeder Link
FGL7	500.0	50650.0	Feeder Link
RUR2	500.0	48950.0	Service Link
RUL4	500.0	49950.0	Service Link
RUR3	500.0	49450.0	Service Link
RUL1	500.0	48450.0	Service Link
FGL1	500.0	47450.0	Feeder Link
FGL2	500.0	47950.0	Feeder Link
FGL3	500.0	48450.0	Feeder Link
FGL4	500.0	48950.0	Feeder Link
FGL6	500.0	49950.0	Feeder Link
FGL5	500.0	49450.0	Feeder Link
FGR4	500.0	48950.0	Feeder Link
FGR5	500.0	49450.0	Feeder Link
FGR6	500.0	49950.0	Feeder Link
FGR7	500.0	50650.0	Feeder Link
FGR8	500.0	51150.0	Feeder Link
RUR1	500.0	48450.0	Service Link
RUL3	500.0	49450.0	Service Link
RUR4	500.0	49950.0	Service Link
RUL2	500.0	48950.0	Service Link

Transmitting Beams 1:

Question	Response
Beam ID	EGR1
Transmit Beam Frequency	37500.0 MHz -42000.0 MHz
Beam Type	Steerable
Polarization	RHCP
Peak Gain	40.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-45.0 dBW/Hz
Max. Transmit EIRP	26.8 dBW
Co- or Cross Polar Mode	C
Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-170.4	-169.1	-167.9	-166.9	-165.9	-120.3

Transmitting Beams 2:

Question	Response
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Beam ID	EML3
Transmit Beam Frequency	40000.0 MHz -41000.0 MHz
Beam Type	Steerable
Polarization	LHCP
Peak Gain	49.4 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-34.0 dBW/Hz
Max. Transmit EIRP	52.6 dBW
Co- or Cross Polar Mode	C
Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)
	/BW:	/BW:	/BW:	/BW:	/BW:	/BW:
1.0 MHz	-170.4	-169.1	-167.9	-166.9	-165.9	-120.3

Transmitting Beams 3:

Question	Response
Beam ID	EMR3
Transmit Beam Frequency	40000.0 MHz -41000.0 MHz

Beam Type	Steerable
Polarization	RHCP
Peak Gain	49.4 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-34.0 dBW/Hz
Max. Transmit EIRP	52.6 dBW
Co- or Cross Polar Mode	C
Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)
*	BW: /BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-170.4	-169.1	-167.9	-166.9	-165.9	-120.3

Transmitting Beams 4:

Question	Response
Beam ID	EGL1
Transmit Beam Frequency	37500.0 MHz -42000.0 MHz
Beam Type	Steerable
Polarization	LHCP

Peak Gain	40.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-15.0 dBW/Hz
Max. Transmit EIRP	26.8 dBW
Co- or Cross Polar Mode	C
Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-170.4	-169.1	-167.9	-166.9	-165.9	-120.3

Transmitting Beams 5:

Question	Response
Beam ID	EUR3
Transmit Beam Frequency	40000.0 MHz -42000.0 MHz
Beam Type	Steerable
Polarization	RHCP
Peak Gain	49.4 dBi
Antenna Pointing Error	0.1 degrees

Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-34.0 dBW/Hz
Max. Transmit EIRP	52.6 dBW
Co- or Cross Polar Mode	C
Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-155.3	-154.1	-152.8	-151.8	-150.8	-105.2

Transmitting Beams 6:

Question	Response
Beam ID	EUL3
Transmit Beam Frequency	40000.0 MHz -42000.0 MHz
Beam Type	Steerable
Polarization	LHCP
Peak Gain	49.4 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	

Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-34.0 dBW/Hz
Max. Transmit EIRP	52.6 dBW
Co- or Cross Polar Mode	C
Service Area Description	Service area is defined as the latitude between 73 degrees North and 73 degrees South and for all longitude angles

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0	-155.3	-154.1	-152.8	-151.8	-150.8	-105.2
MHz						

Transmitting Channels (26)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
RGL1	500.0	37750.0	Feeder Link
RGL2	500.0	38250.0	Feeder Link
RGL3	500.0	38750.0	Feeder Link
RGL4	500.0	39250.0	Feeder Link
RGL6	500.0	40250.0	Feeder Link
RGL7	500.0	40750.0	Feeder Link
RGR9	500.0	41750.0	Feeder Link
RGR7	500.0	40750.0	Feeder Link
RGR6	500.0	40250.0	Feeder Link
RGR5	500.0	39750.0	Feeder Link
RGR4	500.0	39250.0	Feeder Link
RGR3	500.0	38750.0	Feeder Link
RGL9	500.0	41750.0	Feeder Link
RGL8	500.0	41250.0	Feeder Link
RGR8	500.0	41250.0	Feeder Link
FUL1	500.0	40250.0	Service Link
FUL4	500.0	41750.0	Service Link
RGR2	500.0	38250.0	Feeder Link
RGR1	500.0	37750.0	Feeder Link
FUL2	500.0	40750.0	Service Link
FUL3	500.0	41250.0	Service Link
FUR2	500.0	40750.0	Service Link
FUR3	500.0	41250.0	Service Link
FUR4	500.0	41750.0	Service Link

RGL5	500.0	39750.0	Feeder Link
FUR1	500.0	40250.0	Service Link

Certification Questions

Question	Response
<p>Are the applicable service area coverage requirements of 25.143(b)(2) (ii) and (iii), or 25.144(a)(3)(i), or 25.145 (c)(1) and (2), or 25.146(i)(1) and (2), or 25.148(c), or 25.225 met?</p>	<p>N/A</p>
<p>Are the applicable frequency tolerances of 25.202(e) and out-of-band emission limits of 25.202(f)(1),(2), and (3) met?</p>	<p>N/A</p>
<p>Are the cessation of emissions requirements of 25.207 met?</p>	<p>Yes</p>
<p>Are the applicable power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?</p>	<p>Yes</p>
<p>For NGSO applications, are the applicable equivalent-power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?</p>	<p>Yes</p>
<p>Are the applicable full-frequency-reuse requirements of 25.210 met?</p>	
<p>If the application is for a 17/24 GHz BSS space station, will it be operated at an offset location with full power and interference protection in accordance with 25.262(b)?</p>	

Attachments

File Name	Beam	Field	Attachment Type	Description
EGL1_EGR1.pdf	EGR1	NGSO Antenna Gain Data	PDF file (*.pdf)	
RGL1-2_RGR1-2.pdf	RGL1	NGSO Antenna Gain Data	PDF file (*.pdf)	
RGL1-2_RGR1-2.pdf	RGL2	NGSO Antenna Gain Data	PDF file (*.pdf)	
RGL1-2_RGR1-2.pdf	RGR1	NGSO Antenna Gain Data	PDF file (*.pdf)	
RGL1-2_RGR1-2.pdf	RGR2	NGSO Antenna Gain Data	PDF file (*.pdf)	
RUL3-4_RUR3-4.pdf	RUL3	NGSO Antenna Gain Data	PDF file (*.pdf)	
RUL3-4_RUR3-4.pdf	RUR3	NGSO Antenna Gain Data	PDF file (*.pdf)	
EGL1_EGR1.pdf	EGL1	NGSO Antenna Gain Data	PDF file (*.pdf)	
EUL3_EUR3.pdf	EUL3	NGSO Antenna Gain Data	PDF file (*.pdf)	
EUL3_EUR3.pdf	EUR3	NGSO Antenna Gain Data	PDF file (*.pdf)	
UserBmTx1023.5km.gxt	EUR3	NGSO Antenna Gain Data	GXT file (*.gxt)	
USERBmTx1023.5km-EOC.gxt	EUR3	NGSO Antenna Gain Data	GXT file (*.gxt)	
UserBmTx724km.gxt	EUR3	NGSO Antenna Gain Data	GXT file (*.gxt)	
USERBmTx724km-EOC.gxt	EUR3	NGSO Antenna Gain Data	GXT file (*.gxt)	
RGL1-2_RGR1-2_724km.pdf	RGL1	NGSO Antenna Gain Data	PDF file (*.pdf)	
RGL1-2_RGR1-2_724km.pdf	RGL2	NGSO Antenna Gain Data	PDF file (*.pdf)	

<u>RGL1-2_RGR1-2 724km.pdf</u>	RGR1	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>RGL1-2_RGR1-2 724km.pdf</u>	RGR2	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>RUL3-4_RUR3-4 724km.pdf</u>	RUL3	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>RUL3-4_RUR3-4 724km.pdf</u>	RUR3	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>GWBmRx1023.5km. gxt</u>	RGL1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>EML3_EMR3.pdf</u>	EML3	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>EML3_EMR3.pdf</u>	EMR3	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>EGL1_EGR1 724km. pdf</u>	EGL1	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>EGL1_EGR1 724km. pdf</u>	EGR1	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>EUL3_EUR3 724km. pdf</u>	EUL3	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>EUL3_EUR3 724km. pdf</u>	EUR3	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>EML3_EMR3 724km. pdf</u>	EML3	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>EML3_EMR3 724km. pdf</u>	EMR3	NGSO Antenna Gain Data	PDF file (*.pdf)
<u>GWBmTx1023.5km. gxt</u>	EGL1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmTx1023.5km- EOC.gxt</u>	EGL1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmTx1023.5km. gxt</u>	EGR1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmTx1023.5km- EOC.gxt</u>	EGR1	NGSO Antenna Gain Data	GXT file (*.gxt)

<u>GWBmTx724km.gxt</u>	EGL1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmTx724km-EOC.gxt</u>	EGL1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmTx724km.gxt</u>	EGR1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmTx724km-EOC.gxt</u>	EGR1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>UserBmTx1023.5km.gxt</u>	EML3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>USERBmRx1023.5km-EOC.gxt</u>	EML3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>UserBmTx724km.gxt</u>	EML3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>USERBmTx724km-EOC.gxt</u>	EML3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>UserBmTx1023.5km.gxt</u>	EMR3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>USERBmTx1023.5km-EOC.gxt</u>	EMR3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>UserBmTx724km.gxt</u>	EMR3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>UserBmTx1023.5km.gxt</u>	EUL3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>USERBmTx1023.5km-EOC.gxt</u>	EUL3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>UserBmTx724km.gxt</u>	EUL3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>USERBmTx724km-EOC.gxt</u>	EUL3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx1023.5km-EOC.gxt</u>	RGR2	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx724km.gxt</u>	RGR2	NGSO Antenna Gain Data	GXT file (*.gxt)

<u>GWBmRx724km-EOC.gxt</u>	RGR2	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>UserBmRx1023.5km.gxt</u>	RUL3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>USERBmRx1023.5km-EOC.gxt</u>	RUL3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>UserBmTx724km.gxt</u>	RUL3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>USERBmRx724km-EOC.gxt</u>	RUL3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>UserBmRx1023.5km.gxt</u>	RUR3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>USERBmRx1023.5km-EOC.gxt</u>	RUR3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>UserBmRx724km.gxt</u>	RUR3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>USERBmRx724km-EOC.gxt</u>	RUR3	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx1023.5km.gxt</u>	RGR2	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx724km-EOC.gxt</u>	RGR1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx724km.gxt</u>	RGR1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx1023.5km-EOC.gxt</u>	RGR1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx1023.5km.gxt</u>	RGR1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx724km-EOC.gxt</u>	RGL2	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx724km.gxt</u>	RGL2	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx1023.5km-EOC.gxt</u>	RGL2	NGSO Antenna Gain Data	GXT file (*.gxt)

<u>GWBmRx1023.5km.gxt</u>	RGL2	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx724km-EOC.gxt</u>	RGL1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx724km.gxt</u>	RGL1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>GWBmRx1023.5km-EOC.gxt</u>	RGL1	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>USERBmTx724km-EOC.gxt</u>	EMR3	NGSO Antenna Gain Data	GXT file (*.gxt)
