Exhibit 6 Draft Schedule S for 298 satellites

Approved by OMB 3060-0678

Estimated Burden: up to 80 hours

April 2016

Federal Communications Commission

(DRAFT COPY - Not for submission) Schedule S

312 File Number:

Filing Description

Question	Response
Description	298

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Satellite Information

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

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Operating Frequency Bands (5)

Nature of service	Description	Frequency Band(s)	Mode Type
Fixed-Satellite Service		29500.0 MHz -30000.0 MHz	Receive
Fixed-Satellite Service		27500.0 MHz -29100.0 MHz	Receive
Fixed-Satellite Service		19700.0 MHz -20200.0 MHz	Transmit
Fixed-Satellite Service		18800.0 MHz -19300.0 MHz	Transmit
Fixed-Satellite Service		17800.0 MHz -18600.0 MHz	Transmit

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Orbital Information For Non-Geostationary Satellites

Question	Response
Total Number of Satellites in the active constellation	298
Orbit Epoch Date	01/01/2017
Celestrial Reference Body	Earth

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Orbital Plane 1:

Question	Response
Number of Satellites in Plane	13
Inclination Angle	99.0 degrees
Right Ascension of Ascending Node	0.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6326.3 seconds
Apogee	1015.0 km
Perigee	1015.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-90.0 degrees
Active Service Arc End Angle with respect to Ascending Node	90.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	0.0
2	332.3
3	304.6
4	276.9
5	249.2
6	221.5
7	193.8
8	166.2
9	138.5
10	110.8
11	83.1
12	55.4
13	27.7

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Orbital Plane 2:

Question	Response
Number of Satellites in Plane	13
Inclination Angle	99.0 degrees
Right Ascension of Ascending Node	40.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6326.3 seconds
Apogee	1015.0 km
Perigee	1015.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-90.0 degrees
Active Service Arc End Angle with respect to Ascending Node	90.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	347.7
2	320.0
3	292.3
4	264.6
5	236.9
6	209.2
7	181.5
8	153.8
9	126.2
10	98.5
11	70.8
12	43.1
13	15.4

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Orbital Plane 3:

Question	Response
Number of Satellites in Plane	13
Inclination Angle	99.0 degrees
Right Ascension of Ascending Node	80.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6326.3 seconds
Apogee	1015.0 km
Perigee	1015.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-90.0 degrees
Active Service Arc End Angle with respect to Ascending Node	90.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	335.4
2	307.7
3	280.0
4	252.3
5	224.6
6	196.9
7	169.2
8	141.5
9	113.8
10	86.2
11	58.5
12	30.8

13	3.1

Orbital Plane 4:

Question	Response
Number of Satellites in Plane	13
Inclination Angle	99.0 degrees
Right Ascension of Ascending Node	120.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6326.3 seconds
Apogee	1015.0 km
Perigee	1015.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-90.0 degrees
Active Service Arc End Angle with respect to Ascending Node	90.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	350.8
2	323.1
3	295.4
4	267.7
5	240.0
6	212.3
7	184.6
8	156.9
9	129.2
10	101.5
11	73.8

12	46.2
13	18.5

Orbital Plane 5:

Question	Response
Number of Satellites in Plane	13
Inclination Angle	99.0 degrees
Right Ascension of Ascending Node	160.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6326.3 seconds
Apogee	1015.0 km
Perigee	1015.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-90.0 degrees
Active Service Arc End Angle with respect to Ascending Node	90.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	338.5
2	310.8
3	283.1
4	255.4
5	227.7
6	200.0
7	172.3
8	144.6
9	116.9
10	89.2

11	61.5
12	33.8
13	6.2

Orbital Plane 6:

Question	Response
Number of Satellites in Plane	13
Inclination Angle	99.0 degrees
Right Ascension of Ascending Node	200.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6326.3 seconds
Apogee	1015.0 km
Perigee	1015.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-90.0 degrees
Active Service Arc End Angle with respect to Ascending Node	90.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	353.8
2	326.2
3	298.5
4	270.8
5	243.1
6	215.4
7	187.7
8	160.0
9	132.3

10	104.6
11	76.9
12	49.2
13	21.5

Orbital Plane 7:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	0.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	294.5
2	327.3
3	0.0
4	32.7
5	65.5
6	98.2
7	130.9
8	163.6

9	196.4
10	229.1
11	261.8

Orbital Plane 8:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	18.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	13.1
2	45.8
3	78.5
4	111.3
5	144.0
6	176.7
7	209.5
8	242.2
9	274.9

10	307.6
11	340.4

Orbital Plane 9:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	36.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	26.2
2	58.9
3	91.6
4	124.4
5	157.1
6	189.8
7	222.5
8	255.3
9	288.0
10	320.7

11	353.5

Orbital Plane 10:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	54.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	268.4
2	301.1
3	333.8
4	202.9
5	235.6
6	170.2
7	137.5
8	104.7
9	72.0
10	39.3
11	6.5

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Orbital Plane 11:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	72.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	19.6
2	52.4
3	85.1
4	117.8
5	150.5
6	183.3
7	216.0
8	248.7
9	281.5
10	314.2
11	346.9

Orbital Plane 12:

Question	Response

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Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	90.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	327.3
2	294.5
3	261.8
4	229.1
5	196.4
6	163.6
7	130.9
8	98.2
9	65.5
10	32.7
11	0.0

Orbital Plane 13:

Question	Response
Number of Satellites in Plane	11

Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	108.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	340.4
2	307.6
3	274.9
4	242.2
5	209.5
6	176.7
7	144.0
8	111.3
9	78.5
10	45.8
11	13.1

Orbital Plane 14:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees

Right Ascension of Ascending Node	126.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	353.5
2	320.7
3	288.0
4	255.3
5	222.5
6	189.8
7	157.1
8	124.4
9	91.6
10	58.9
11	26.2

Orbital Plane 15:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	144.0 degrees

Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	6.5
2	39.3
3	72.0
4	104.7
5	137.5
6	170.2
7	202.9
8	235.6
9	268.4
10	301.1
11	333.8

Orbital Plane 16:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	162.0 degrees
Argument of Perigee	0.0 degrees

Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	183.3
2	216.0
3	248.7
4	281.5
5	314.2
6	346.9
7	150.5
8	117.8
9	85.1
10	52.4
11	19.6

Orbital Plane 17:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	180.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds

Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	294.5
2	261.8
3	229.1
4	196.4
5	163.6
6	130.9
7	0.0
8	32.7
9	65.5
10	98.2
11	327.3

Orbital Plane 18:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	198.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km

Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	13.1
2	340.4
3	307.6
4	274.9
5	242.2
6	209.5
7	176.7
8	144.0
9	111.3
10	78.5
11	45.8

Orbital Plane 19:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	216.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km

Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	353.5
2	320.7
3	288.0
4	255.3
5	222.5
6	189.8
7	157.0
8	124.4
9	91.6
10	58.9
11	26.2

Orbital Plane 20:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	234.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees

Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	6.5
2	39.3
3	72.0
4	104.7
5	137.5
6	170.2
7	202.9
8	235.6
9	268.4
10	333.8
11	301.1

Orbital Plane 21:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	252.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

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Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	19.6
2	346.9
3	314.2
4	281.5
5	248.7
6	216.0
7	183.3
8	150.5
9	117.8
10	85.1
11	52.4

Orbital Plane 22:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	270.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

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Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	229.1
2	196.4
3	163.6
4	130.9
5	98.2
6	65.5
7	32.7
8	0.0
9	327.3
10	294.5
11	261.8

Orbital Plane 23:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	288.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

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

1	340.4
2	307.6
3	274.9
4	242.2
5	209.5
6	176.7
7	144.0
8	111.3
9	78.5
10	45.8
11	13.1

Orbital Plane 24:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	306.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	26.2

2	58.9
3	91.6
4	353.5
5	320.7
6	288.0
7	255.3
8	222.5
9	189.8
10	157.1
11	124.4

Orbital Plane 25:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	324.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	6.5
2	333.8

3	301.1
4	268.4
5	235.6
6	202.9
7	170.2
8	137.5
9	104.7
10	72.0
11	39.3

Orbital Plane 26:

Question	Response
Number of Satellites in Plane	11
Inclination Angle	50.9 degrees
Right Ascension of Ascending Node	342.0 degrees
Argument of Perigee	0.0 degrees
Orbital Period	6728.4 seconds
Apogee	1325.0 km
Perigee	1325.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-50.9 degrees
Active Service Arc End Angle with respect to Ascending Node	50.9 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	346.9
2	314.2
3	281.5

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4	248.7
5	216.0
6	183.3
7	150.5
8	117.8
9	85.1
10	52.4
11	19.6

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Receiving Beams 1:

Question	Response
Beam ID	G1P1
Receive Beam Frequency	27500.0 MHz -29100.0 MHz
Beam Type	Steerable
Polarization	RHCP
Peak Gain	31.8 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	1.0 dB/K
Min. Saturation Flux Density	-98.5 dBW/m2
Max. Saturation Flux Density	-93.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Receiving Beams 2:

Question	Response
Beam ID	G1P2
Receive Beam Frequency	27500.0 MHz -29100.0 MHz
Beam Type	Steerable
Polarization	LHCP
Peak Gain	31.8 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees

Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	1.0 dB/K
Min. Saturation Flux Density	-98.5 dBW/m2
Max. Saturation Flux Density	-93.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Receiving Beams 3:

Question	Response
Beam ID	G2P1
Receive Beam Frequency	29500.0 MHz -30000.0 MHz
Beam Type	Steerable
Polarization	RHCP
Peak Gain	31.8 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	1.0 dB/K
Min. Saturation Flux Density	-98.5 dBW/m2
Max. Saturation Flux Density	-93.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Receiving

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Beams 4:

Question	Response
Beam ID	G2P2
Receive Beam Frequency	29500.0 MHz -30000.0 MHz
Beam Type	Steerable
Polarization	LHCP
Peak Gain	31.8 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	1.0 dB/K
Min. Saturation Flux Density	-98.5 dBW/m2
Max. Saturation Flux Density	-93.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Receiving Beams 5:

Question	Response
Beam ID	F1P1
Receive Beam Frequency	27500.0 MHz -29100.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	35.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	

Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	4.5 dB/K
Min. Saturation Flux Density	-108.0 dBW/m2
Max. Saturation Flux Density	-87.8 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Receiving Beams 6:

Question	Response
Beam ID	F1P2
Receive Beam Frequency	27500.0 MHz -29100.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	35.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	4.5 dB/K
Min. Saturation Flux Density	-108.0 dBW/m2
Max. Saturation Flux Density	-87.8 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Receiving Beams 7:

Question	Response

Beam ID	F2P1
Receive Beam Frequency	29500.0 MHz -30000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	35.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	4.5 dB/K
Min. Saturation Flux Density	-108.0 dBW/m2
Max. Saturation Flux Density	-87.8 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Receiving Beams 8:

Question	Response
Beam ID	F2P2
Receive Beam Frequency	29500.0 MHz -30000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	35.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	

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Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	4.5 dB/K
Min. Saturation Flux Density	-108.0 dBW/m2
Max. Saturation Flux Density	-87.8 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

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Receiving Channels (14)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
U2	500.0	29750.0	Service Link
TC9	1.0	27501.0	TT&C
TC8	1.0	29999.0	TT&C
TC7	1.0	29998.0	TT&C
TC6	1.0	29502.0	TT&C
TC5	1.0	29501.0	TT&C
TC4	1.0	29099.0	TT&C
TC3	1.0	29098.0	TT&C
TC2	1.0	28352.0	TT&C
TC12	1.0	28630.0	TT&C
TC11	1.0	28620.0	TT&C
TC10	1.0	27502.0	TT&C
TC1	1.0	28351.0	TT&C
U1	1600.0	28300.0	Service Link

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Transmitting Beams 1:

Question	Response
Beam ID	M1P1
Transmit Beam Frequency	17800.0 MHz -18600.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	32.5 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-50.0 dBW/Hz
Max. Transmit EIRP	39.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-131.2	-129.9	-128.7	-127.6	-126.6	-121.1

Transmitting Beams 2:

Question	Response
Beam ID	M1P2
Transmit Beam Frequency	17800.0 MHz -18600.0 MHz

Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	32.5 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-50.0 dBW/Hz
Max. Transmit EIRP	39.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-131.2	-129.9	-128.7	-127.6	-126.6	-121.1

Transmitting Beams 3:

Question	Response
Beam ID	M2P1
Transmit Beam Frequency	18800.0 MHz -19300.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	32.5 dBi
Antenna Pointing Error	0.1 degrees

Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-50.0 dBW/Hz
Max. Transmit EIRP	37.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-131.2	-129.9	-128.7	-127.6	-126.6	-121.1

Transmitting Beams 4:

Question	Response
Beam ID	M2P2
Transmit Beam Frequency	18800.0 MHz -19300.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	32.5 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-50.0 dBW/Hz

Max. Transmit EIRP	37.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-131.2	-129.9	-128.7	-127.6	-126.6	-121.1

Transmitting Beams 5:

Question	Response
Beam ID	M3P1
Transmit Beam Frequency	19700.0 MHz -20200.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	32.5 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-56.4 dBW/Hz
Max. Transmit EIRP	30.6 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

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* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-137.6	-136.3	-135.1	-134.0	-133.2	-127.5

Transmitting Beams 6:

Question	Response
Beam ID	M3P2
Transmit Beam Frequency	19700.0 MHz -20200.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	32.5 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-56.4 dBW/Hz
Max. Transmit EIRP	30.6 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-137.6	-136.3	-135.1	-134.0	-133.2	-127.5

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Transmitting Beams 7:

Question	Response
Beam ID	N1P1
Transmit Beam Frequency	17800.0 MHz -18600.0 MHz
Beam Type	Steerable
Polarization	RHCP
Peak Gain	32.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-50.0 dBW/Hz
Max. Transmit EIRP	39.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-131.2	-129.9	-128.7	-127.6	-126.6	-121.1

Transmitting Beams 8:

Question	Response
Beam ID	N1P2
Transmit Beam Frequency	17800.0 MHz -18600.0 MHz

Beam Type	Steerable
Polarization	LHCP
Peak Gain	32.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-50.0 dBW/Hz
Max. Transmit EIRP	39.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-131.2	-129.9	-128.7	-127.6	-126.6	-121.1

Transmitting Beams 9:

Question	Response
Beam ID	N2P1
Transmit Beam Frequency	18800.0 MHz -19300.0 MHz
Beam Type	Steerable
Polarization	RHCP
Peak Gain	32.0 dBi
Antenna Pointing Error	0.1 degrees

Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-50.0 dBW/Hz
Max. Transmit EIRP	37.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-131.2	-129.9	-128.7	-127.6	-126.6	-121.1

Transmitting Beams 10:

Question	Response
Beam ID	N2P2
Transmit Beam Frequency	18800.0 MHz -19300.0 MHz
Beam Type	Steerable
Polarization	LHCP
Peak Gain	32.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-50.0 dBW/Hz

Max. Transmit EIRP	37.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-131.2	-129.9	-128.7	-127.6	-126.6	-121.1

Transmitting Beams 11:

Question	Response
Beam ID	N3P1
Transmit Beam Frequency	19700.0 MHz -20200.0 MHz
Beam Type	Steerable
Polarization	RHCP
Peak Gain	32.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-56.4 dBW/Hz
Max. Transmit EIRP	30.6 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

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* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-137.6	-136.3	-135.1	-134.0	-133.2	-127.5

Transmitting Beams 12:

Question	Response
Beam ID	N3P2
Transmit Beam Frequency	19700.0 MHz -20200.0 MHz
Beam Type	Steerable
Polarization	LHCP
Peak Gain	32.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-56.4 dBW/Hz
Max. Transmit EIRP	30.6 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Earth

Max. Power Flux Density

* BW:	* 0° - 5° (dbW/m^2 /BW):	* 5° - 10° (dbW/m^2 /BW):	* 10° - 15° (dbW/m^2 /BW):	* 15° - 20° (dbW/m^2 /BW):	* 20° - 25° (dbW/m^2 /BW):	* 25° - 90° (dbW/m^2 /BW):
1.0 MHz	-137.6	-136.3	-135.1	-134.0	-133.2	-127.5

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Transmitting Channels (17)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
TM12	0.5	20199.0	TT&C
TM2	0.5	17802.0	TT&C
TM3	0.5	18598.0	TT&C
TM11	0.5	20198.0	TT&C
TM1	0.5	17801.0	TT&C
D3	500.0	19950.0	Service Link
D2	500.0	19050.0	Service Link
TM10	0.5	19702.0	TT&C
TM13	1.0	18820.0	TT&C
TM14	1.0	18830.0	TT&C
TM9	0.5	19701.0	TT&C
TM8	0.5	19299.0	TT&C
TM7	0.5	19298.0	TT&C
TM6	0.5	18802.0	TT&C
TM5	0.5	18801.0	TT&C
TM4	0.5	18599.0	TT&C
D1	800.0	18200.0	Service Link

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Certification Questions

Question	Response
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?	Yes
Are the applicable frequency tolerances of 25.202(e) and out-of-band emission limits of 25.202(f)(1),(2), and (3) met?	Yes
Are the cessation of emissions requirements of 25.207 met?	Yes
Are the applicable power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?	Yes
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?	Yes
Are the applicable full-frequency-reuse requirements of 25.210 met?	Yes
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)?	

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Attachments

File Name	Beam	Field	Attachment Type	Description
GIMSLEO.mdb		NGSO Antenna Gain Data	GIMS file (*.mdb)	GIMS database containing all beams data