



312 File Number: **SESMFS2018012200052**

Filing Description

Question	Response
Description	Market Access request for Express-AM5

Satellite Information

Question	Response
Select Orbit Type	GSO
Space Station or Satellite Network Name	Express-AM5
Estimated Lifetime of Satellite(s) From Date of Launch	15 Years
Will the space station(s) operate on a Common Carrier basis?	No

Operating Frequency Bands (9)

Nature of service	Description	Frequency Band(s)	Mode Type
Fixed-Satellite Service		3404.0 MHz -3406.0 MHz	Transmit
Fixed-Satellite Service		5745.0 MHz -5747.0 MHz	Receive
Fixed-Satellite Service		10950.0 MHz -11200.0 MHz	Transmit
Fixed-Satellite Service		11200.0 MHz -11450.0 MHz	Transmit
Fixed-Satellite Service		11450.0 MHz -11700.0 MHz	Transmit
Fixed-Satellite Service		13750.0 MHz -14000.0 MHz	Receive
Fixed-Satellite Service		14000.0 MHz -14500.0 MHz	Receive
Fixed-Satellite Service		13000.0 MHz -13250.0 MHz	Receive
Fixed-Satellite Service		12500.0 MHz -12750.0 MHz	Transmit

Orbital Information For Geostationary Satellites

Section	Question	Response
Orbital Longitude Information	Orbital Longitude	140.0 degrees
	Hemisphere of Orbital Longitude	E
Longitudinal Tolerance or East /West Station-Keeping	Toward West	0.05 degrees
	Toward East	0.05 degrees
Inclination Excursion or North /South Station-Keeping Tolerance	Inclination Excursion or North /South Station-Keeping Tolerance	0.05 degrees
Antenna Axis Attitude Accuracy	Roll	0.1 degrees
	Pitch	0.1 degrees
	Yaw	0.1 degrees

Receiving Beams 1:

Question	Response
Beam ID	F1H3
Receive Beam Frequency	14000.0 MHz -14500.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	35.4 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
G/T at Max. Gain Point	8.7 dB/K
Min. Saturation Flux Density	-97.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	F1 Service Area from the Service Area Diagrams attachment

Receiving Beams 2:

Question	Response
Beam ID	F2H1
Receive Beam Frequency	13000.0 MHz -13250.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	35.9 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees

Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
G/T at Max. Gain Point	9.8 dB/K
Min. Saturation Flux Density	-97.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	F2 Service Area from the Service Area Diagrams attachment

Receiving Beams 3:

Question	Response
Beam ID	F2V1
Receive Beam Frequency	13000.0 MHz -13250.0 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	35.9 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
G/T at Max. Gain Point	9.8 dB/K
Min. Saturation Flux Density	-97.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	F2 Service Area from the Service Area Diagrams attachment

Receiving Beams 4:

Question	Response
Beam ID	F1V3
Receive Beam Frequency	14000.0 MHz -14500.0 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	35.4 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
G/T at Max. Gain Point	8.7 dB/K
Min. Saturation Flux Density	-97.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	F1 Service Area from the Service Area Diagrams attachment

Receiving Beams 5:

Question	Response
Beam ID	F2H2
Receive Beam Frequency	13750.0 MHz -14000.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	35.9 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	

Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
G/T at Max. Gain Point	9.8 dB/K
Min. Saturation Flux Density	-97.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	F2 Service Area from the Service Area Diagrams attachment

Receiving Beams 6:

Question	Response
Beam ID	F2V2
Receive Beam Frequency	13750.0 MHz -14000.0 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	35.9 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
G/T at Max. Gain Point	35.9 dB/K
Min. Saturation Flux Density	-97.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	F2 Service Area from the Service Area Diagrams attachment

Receiving Beams 7:

Question	Response
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Beam ID	S1H2
Receive Beam Frequency	13750.0 MHz -14000.0 MHz
Beam Type	Steerable
Polarization	H
Peak Gain	38.2 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
G/T at Max. Gain Point	11.7 dB/K
Min. Saturation Flux Density	-97.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	S1 Service Area from the Service Area Diagrams attachment

Receiving Beams 8:

Question	Response
Beam ID	S1V2
Receive Beam Frequency	13750.0 MHz -14000.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	38.2 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees

G/T at Max. Gain Point	11.7 dB/K
Min. Saturation Flux Density	-97.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	S1 Service Area from the Service Area Diagrams attachment

Receiving Beams 9:

Question	Response
Beam ID	CLTC
Receive Beam Frequency	5745.0 MHz -5747.0 MHz
Beam Type	Fixed
Polarization	LHCP
Peak Gain	20.3 dBi
Antenna Pointing Error	0.07 degrees
Antenna Rotational Error	0.07 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	-7.8 dB/K
Min. Saturation Flux Density	-123.0 dBW/m2
Max. Saturation Flux Density	-88.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Global Coverage from 140E longitude

Receiving Channels (37)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
TC1	1.0	5746.0	TT&C
UF9	36.0	13187.3	Service Link
UF8	36.0	13145.6	Service Link
UF7	36.0	13145.6	Service Link
UF6	36.0	13103.9	Service Link
UF5	36.0	13103.9	Service Link
UF4	36.0	13062.2	Service Link
UF3	36.0	13062.2	Service Link
UF2	36.0	13020.5	Service Link
UF12	36.0	13229.0	Service Link
UD4	54.0	14093.75	Service Link
UD3	54.0	14093.75	Service Link
UD2	54.0	14031.25	Service Link
UD1	54.0	14031.25	Service Link
UB8	54.0	14468.75	Service Link
UB7	54.0	14468.75	Service Link
UB6	54.0	14406.25	Service Link
UB5	54.0	14406.25	Service Link
UB4	54.0	14343.75	Service Link
UB3	54.0	14343.75	Service Link
UB2	54.0	14281.25	Service Link
UB1	54.0	14281.25	Service Link
UA8	54.0	13968.75	Service Link
UA7	54.0	13968.75	Service Link

UA6	54.0	13906.25	Service Link
UA5	54.0	13906.25	Service Link
UA4	54.0	13843.75	Service Link
UA3	54.0	13843.75	Service Link
UA2	54.0	13781.25	Service Link
UA1	54.0	13781.25	Service Link
UD5	54.0	14156.25	Service Link
UD6	54.0	14156.25	Service Link
UD7	54.0	14218.75	Service Link
UD8	54.0	14218.75	Service Link
UF1	36.0	13020.5	Service Link
UF10	36.0	13187.3	Service Link
UF11	36.0	13229.0	Service Link

Transmitting Beams 1:

Question	Response
Beam ID	F1H5
Transmit Beam Frequency	10950.0 MHz -11200.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	33.2 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
Max. Transmit EIRP Density	-23.8 dBW/Hz
Max. Transmit EIRP	53.5 dBW
Co- or Cross Polar Mode	C
Service Area Description	F1 Service Area in the Service Area Diagrams attachment

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):
4.0 kHz	-152.4	-152.1	-151.8	-151.4	-151.1	-149.9

Transmitting Beams 2:

Question	Response
Beam ID	F1V5
Transmit Beam Frequency	10950.0 MHz -11200.0 MHz

Beam Type	Fixed
Polarization	V
Peak Gain	33.2 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
Max. Transmit EIRP Density	-23.8 dBW/Hz
Max. Transmit EIRP	53.5 dBW
Co- or Cross Polar Mode	C
Service Area Description	F1 Service Area in the Service Area Diagrams attachment

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
* (dBW/m ² /BW):	(dBW/m ² /BW):	(dBW/m ² /BW):	(dBW/m ² /BW):	(dBW/m ² /BW):	(dBW/m ² /BW):	(dBW/m ² /BW):
4.0 kHz	-152.4	-152.1	-151.8	-151.4	-151.1	-149.9

Transmitting Beams 3:

Question	Response
Beam ID	F1H7
Transmit Beam Frequency	11450.0 MHz -11700.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	33.2 dBi
Antenna Pointing Error	0.05 degrees

Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
Max. Transmit EIRP Density	-23.8 dBW/Hz
Max. Transmit EIRP	53.5 dBW
Co- or Cross Polar Mode	C
Service Area Description	F1 Service Area in the Service Area Diagrams attachment

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):
4.0 kHz	-152.4	-152.1	-151.8	-151.4	-151.1	-149.9

Transmitting Beams 4:

Question	Response
Beam ID	F1V7
Transmit Beam Frequency	11450.0 MHz -11700.0 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	33.2 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
Max. Transmit EIRP Density	-23.8 dBW/Hz

Max. Transmit EIRP	53.5 dBW
Co- or Cross Polar Mode	C
Service Area Description	F1 Service Area in the Service Area Diagrams attachment

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):
4.0 kHz	-152.4	-152.1	-151.8	-151.4	-151.1	-149.9

Transmitting Beams 5:

Question	Response
Beam ID	F2H6
Transmit Beam Frequency	11200.0 MHz -11450.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	34.2 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
Max. Transmit EIRP Density	-22.5 dBW/Hz
Max. Transmit EIRP	54.8 dBW
Co- or Cross Polar Mode	C
Service Area Description	F2 Service Area in the Service Area Diagrams attachment

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):
4.0 kHz	-152.8	-151.7	-151.0	-150.4	-150.0	-148.6

Transmitting Beams 6:

Question	Response
Beam ID	F2V6
Transmit Beam Frequency	11200.0 MHz -11450.0 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	34.2 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
Max. Transmit EIRP Density	-22.5 dBW/Hz
Max. Transmit EIRP	54.8 dBW
Co- or Cross Polar Mode	C
Service Area Description	F2 Service Area in the Service Area Diagrams attachment

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):

4.0	-152.8	-151.7	-151.0	-150.4	-150.0	-148.6
kHz						

Transmitting Beams 7:

Question	Response
Beam ID	F2H8
Transmit Beam Frequency	12500.0 MHz -12750.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	34.2 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
Max. Transmit EIRP Density	-22.5 dBW/Hz
Max. Transmit EIRP	54.8 dBW
Co- or Cross Polar Mode	C
Service Area Description	F2 Service Area in the Service Area Diagrams attachment

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):
4.0	-152.8	-151.7	-151.0	-150.4	-150.0	-148.6
kHz						

Transmitting Beams 8:

Question	Response
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Beam ID	F2V8
Transmit Beam Frequency	12500.0 MHz -12750.0 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	34.2 dBi
Antenna Pointing Error	0.05 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
Max. Transmit EIRP Density	-22.5 dBW/Hz
Max. Transmit EIRP	54.8 dBW
Co- or Cross Polar Mode	C
Service Area Description	F2 Service Area in the Service Area Diagrams attachment

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):
4.0 kHz	-152.8	-151.7	-151.0	-150.4	-150.0	-148.6

Transmitting Beams 9:

Question	Response
Beam ID	S1H8
Transmit Beam Frequency	12500.0 MHz -12750.0 MHz
Beam Type	Steerable
Polarization	H

Peak Gain	37.5 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
Max. Transmit EIRP Density	-22.0 dBW/Hz
Max. Transmit EIRP	55.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	S1 Service Area in the Service Area Diagrams attachment

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
* BW:	(dBW/m ² /BW):	(dBW/m ² /BW):	(dBW/m ² /BW):	(dBW/m ² /BW):	(dBW/m ² /BW):	(dBW/m ² /BW):
4.0 kHz	-149.3	-149.2	-149.0	-148.9	-148.8	-148.1

Transmitting Beams 10:

Question	Response
Beam ID	S1V8
Transmit Beam Frequency	12500.0 MHz -12750.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	37.5 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.0 degrees
Polarization Switchable	

Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
Max. Transmit EIRP Density	-22.0 dBW/Hz
Max. Transmit EIRP	55.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	S1 Service Area in the Service Area Diagrams attachment

Max. Power Flux Density

	* 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):
4.0 kHz	-149.3	-149.2	-149.0	-148.9	-148.8	-148.1

Transmitting Beams 11:

Question	Response
Beam ID	CRT1
Transmit Beam Frequency	3404.0 MHz -3406.0 MHz
Beam Type	Fixed
Polarization	RHCP
Peak Gain	-1.3 dBi
Antenna Pointing Error	0.07 degrees
Antenna Rotational Error	0.07 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-47.3 dBW/Hz
Max. Transmit EIRP	7.4 dBW
Co- or Cross Polar Mode	C

Service Area Description

Earth Coverage from 140E
longitude

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):
4.0 kHz	-174.6	-174.5	-174.3	-174.2	-174.1	-173.4

Transmitting Beams 12:

Question	Response
Beam ID	CRT2
Transmit Beam Frequency	3404.0 MHz -3406.0 MHz
Beam Type	Fixed
Polarization	RHCP
Peak Gain	-5.4 dBi
Antenna Pointing Error	0.07 degrees
Antenna Rotational Error	0.07 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-40.7 dBW/Hz
Max. Transmit EIRP	14.1 dBW
Co- or Cross Polar Mode	C
Service Area Description	Earth Coverage from 140E longitude

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):
4.0 kHz	-168.0	-167.9	-167.7	-167.6	-167.5	-166.8

Transmitting Beams 13:

Question	Response
Beam ID	B1R5
Transmit Beam Frequency	11199.0 MHz -11200.0 MHz
Beam Type	Fixed
Polarization	RHCP
Peak Gain	20.5 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	-22.72 dBW/Hz
Max. Transmit EIRP	13.28 dBW
Co- or Cross Polar Mode	C
Service Area Description	Earth coverage from 140E longitude

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):
4.0 kHz	-154.0	-153.7	-153.3	-153.0	-152.7	-148.8

Transmitting Channels (38)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
TT1	0.3	3405.0	TT&C
DF1	36.0	11220.5	Service Link
DF2	36.0	11220.5	Service Link
DF3	36.0	11262.2	Service Link
DF4	36.0	11262.2	Service Link
DF5	36.0	11303.9	Service Link
DF6	36.0	11303.9	Service Link
DF7	36.0	11345.6	Service Link
DF8	36.0	11345.6	Service Link
DF9	36.0	11387.3	Service Link
DF10	36.0	11387.3	Service Link
DF11	36.0	11429.0	Service Link
DF12	36.0	11429.0	Service Link
B1	0.004	11199.5	Service Link
DD8	54.0	11668.75	Service Link
DD7	54.0	11668.75	Service Link
DD6	54.0	11606.25	Service Link
DD5	54.0	11606.25	Service Link
DD4	54.0	11543.75	Service Link
DD3	54.0	11543.75	Service Link
DD2	54.0	11481.25	Service Link
DD1	54.0	11481.25	Service Link
DB8	54.0	11168.75	Service Link
DB7	54.0	11168.75	Service Link

DB6	54.0	11106.25	Service Link
DB5	54.0	11106.25	Service Link
DB4	54.0	11043.75	Service Link
DB3	54.0	11043.75	Service Link
DB2	54.0	10981.25	Service Link
DB1	54.0	10981.25	Service Link
DA8	54.0	12719.25	Service Link
DA7	54.0	12719.25	Service Link
DA6	54.0	12656.75	Service Link
DA5	54.0	12656.75	Service Link
DA4	54.0	12594.25	Service Link
DA3	54.0	12594.25	Service Link
DA2	54.0	12531.75	Service Link
DA1	54.0	12531.75	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>Yes</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>N/A</p>
<p>Are the applicable full-frequency-reuse requirements of 25.210 met?</p>	<p>Yes</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
<u>am5.mdb</u>		GSO Antenna Gain Contour Data	GIMS file (*.mdb)	GIMS Container with GTX files for all applicable beams
<u>AM5 - Service Areas - RevA.pdf</u>		Service Area Diagram	PDF file (*.pdf)	Document describing the service areas for all applicable beams