



312 File Number: **SATLOA2022060700058**

Filing Description

Question	Response
Description	Galaxy 36 replacing Galaxy 28 at 89 degree W.L.

**Satellite
Information**

Question	Response
Select Orbit Type	GSO
Space Station or Satellite Network Name	Galaxy 36
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 (6)**

Nature of service	Description	Frequency Band(s)	Mode Type
Fixed-Satellite Service		13750.0 MHz -14500.0 MHz	Receive
Fixed-Satellite Service		11700.0 MHz -12450.0 MHz	Transmit
Fixed-Satellite Service		10700.0 MHz -11200.0 MHz	Transmit
Fixed-Satellite Service		12750.0 MHz -13250.0 MHz	Receive
Fixed-Satellite Service		5925.0 MHz -6425.0 MHz	Receive
Fixed-Satellite Service		3700.0 MHz -4200.0 MHz	Transmit

**Orbital
Information For
Geostationary
Satellites**

Section	Question	Response
Orbital Longitude Information	Orbital Longitude	89.0 degrees
	Hemisphere of Orbital Longitude	W
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	0.1 degrees
Antenna Axis Attitude Accuracy	Roll	0.1 degrees
	Pitch	0.1 degrees
	Yaw	0.1 degrees

Receiving Beams 1:

Question	Response
Beam ID	CMD4
Receive Beam Frequency	6424.0 MHz -6425.0 MHz
Beam Type	Fixed
Polarization	RHCP
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	-99.0 dB/K
Min. Saturation Flux Density	-81.0 dBW/m2
Max. Saturation Flux Density	-80.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	CMD 2 Tunable with 100 kHz step (5925-6425 MHz)

Receiving Beams 2:

Question	Response
Beam ID	CMD3
Receive Beam Frequency	6421.5 MHz -6422.5 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees

Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
G/T at Max. Gain Point	-99.0 dB/K
Min. Saturation Flux Density	-81.0 dBW/m2
Max. Saturation Flux Density	-80.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	CM1 Tunable with 100 kHz step (5925-6425 MHz)

Receiving Beams 3:

Question	Response
Beam ID	CMD2
Receive Beam Frequency	6421.5 MHz -6422.5 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
G/T at Max. Gain Point	-99.0 dB/K
Min. Saturation Flux Density	-81.0 dBW/m2
Max. Saturation Flux Density	-80.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	CM1 Tunable with 100 kHz step (5925-6425 MHz)

Receiving Beams 4:

Question	Response
Beam ID	CMD1
Receive Beam Frequency	6421.5 MHz -6422.5 MHz
Beam Type	Fixed
Polarization	RHCP
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	-99.0 dB/K
Min. Saturation Flux Density	-81.0 dBW/m2
Max. Saturation Flux Density	-80.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	CM1 Tunable with 100 kHz step (5925-6425 MHz)

Receiving Beams 5:

Question	Response
Beam ID	CWVU
Receive Beam Frequency	5925.0 MHz -6425.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	30.25 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees

Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
G/T at Max. Gain Point	4.62 dB/K
Min. Saturation Flux Density	-102.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Western Arc . North America including Alaska and Hawaii; Central America; and the Caribbean. This Reflector has a RPM of plus minus 10 degree east-west and plus minus 8 degree north-south.

Receiving Beams 6:

Question	Response
Beam ID	CWHU
Receive Beam Frequency	5925.0 MHz -6425.0 MHz
Beam Type	Steerable
Polarization	H
Peak Gain	30.25 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	No

Receiving Beams 7:

Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
G/T at Max. Gain Point	4.62 dB/K
Min. Saturation Flux Density	-102.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Western Arc . North America including Alaska and Hawaii; Central America; and the Caribbean. This Reflector has a RPM of plus minus 10 degree east-west and plus minus 8 degree north-south

Question	Response
Beam ID	CHHU
Receive Beam Frequency	5925.0 MHz -6425.0 MHz
Beam Type	Steerable
Polarization	H
Peak Gain	30.25 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	No

Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
G/T at Max. Gain Point	30.25 dB/K
Min. Saturation Flux Density	-102.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Hemi Beam. North America including Alaska and Hawaii; Central America; the Caribbean; South America and Western Europe. This Reflector has a RPM of plus minus 10 degree east-west and plus minus 8 degree north-south.

Receiving Beams 8:

Question	Response
Beam ID	CHVU
Receive Beam Frequency	5925.0 MHz -6425.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	30.25 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	No

Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
G/T at Max. Gain Point	4.62 dB/K
Min. Saturation Flux Density	-102.0 dBW/m2
Max. Saturation Flux Density	-77.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Hemi Beam. North America including Alaska and Hawaii; Central America; the Caribbean; South America and Western Europe. This Reflector has a RPM of plus minus 10 degree east-west and plus minus 8 degree north-south.

Receiving Beams 9:

Question	Response
Beam ID	CMD5
Receive Beam Frequency	6424.0 MHz -6425.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
G/T at Max. Gain Point	-99.0 dB/K

Min. Saturation Flux Density	-89.0 dBW/m2
Max. Saturation Flux Density	-80.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	CMD 2 Tunable with 100 kHz step (5925-6425 MHz)

Receiving Beams 10:

Question	Response
Beam ID	CMD6
Receive Beam Frequency	6424.0 MHz -6425.0 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
G/T at Max. Gain Point	-99.0 dB/K
Min. Saturation Flux Density	-89.0 dBW/m2
Max. Saturation Flux Density	-80.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	CMD 2 Tunable with 100 kHz step (5925-6425 MHz)

Receiving Beams 11:

Question	Response
Beam ID	KUHU
Receive Beam Frequency	12750.0 MHz -13250.0 MHz

Beam Type	Fixed
Polarization	H
Peak Gain	29.07 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
G/T at Max. Gain Point	2.08 dB/K
Min. Saturation Flux Density	-91.0 dBW/m2
Max. Saturation Flux Density	-66.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Contiguous United States; Central America; and Caribbean

Receiving Beams 12:

Question	Response
Beam ID	KUVU
Receive Beam Frequency	12750.0 MHz -13250.0 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	29.07 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
G/T at Max. Gain Point	2.08 dB/K
Min. Saturation Flux Density	-91.0 dBW/m2

Max. Saturation Flux Density	-66.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Contiguous United States; Central America; and Caribbean

Receiving Beams 13:

Question	Response
Beam ID	K1HU
Receive Beam Frequency	13750.0 MHz -14500.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	29.07 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
G/T at Max. Gain Point	2.08 dB/K
Min. Saturation Flux Density	-91.0 dBW/m2
Max. Saturation Flux Density	-66.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Contiguous United States; Central America; and Caribbean

Receiving Beams 14:

Question	Response
Beam ID	K1VU
Receive Beam Frequency	13750.0 MHz -14500.0 MHz
Beam Type	Fixed

Polarization	V
Peak Gain	29.07 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
G/T at Max. Gain Point	2.08 dB/K
Min. Saturation Flux Density	-91.0 dBW/m2
Max. Saturation Flux Density	-66.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Contiguous United States; Central America; and Caribbean

Receiving Channels (18)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
CM02	1.0	6424.5	TT&C
CU06	36.0	6345.0	Service Link
CU03	36.0	6225.0	Service Link
CU02	126.0	6130.0	Service Link
KU01	356.0	13047.0	Service Link
KU02	662.0	14118.0	Service Link
CU07	43.0	6388.5	Service Link
CU11	36.0	6285.0	Service Link
CU01	126.0	5990.0	Service Link
CU08	126.0	6010.0	Service Link
CU09	126.0	6150.0	Service Link
CU04	36.0	6265.0	Service Link
CU05	36.0	6305.0	Service Link
CU14	36.0	6405.0	Service Link
CU13	36.0	6365.0	Service Link
CU12	36.0	6325.0	Service Link
CU10	36.0	6245.0	Service Link
CM01	1.0	6422.0	TT&C

Transmitting
Beams 1:

Question	Response
Beam ID	UPC1
Transmit Beam Frequency	4199.937 MHz -4199.963 MHz
Beam Type	Fixed
Polarization	RHCP
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-35.0 dBW/Hz
Max. Transmit EIRP	9.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	ULPC

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	-162.2	-162.1	-162.0	-161.9	-161.8	-161.0

Transmitting
Beams 2:

Question	Response
Beam ID	TLMB
Transmit Beam Frequency	4197.325 MHz -4197.675 MHz

Beam Type	Fixed
Polarization	H
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	Yes
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
Max. Transmit EIRP Density	-47.4 dBW/Hz
Max. Transmit EIRP	8.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	TM1

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	-174.7	-174.6	-174.5	-174.4	-174.2	-173.5

Transmitting Beams 3:

Question	Response
Beam ID	TLMF
Transmit Beam Frequency	4198.825 MHz -4199.175 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees

Antenna Rotational Error	0.34 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
Max. Transmit EIRP Density	-47.4 dBW/Hz
Max. Transmit EIRP	8.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	TM2

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	-174.7	-174.6	-174.5	-174.4	-174.2	-173.5

Transmitting Beams 4:

Question	Response
Beam ID	TLMA
Transmit Beam Frequency	4197.325 MHz -4197.75 MHz
Beam Type	Fixed
Polarization	LHCP
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	Yes
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-47.4 dBW/Hz

Max. Transmit EIRP	8.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	TM1

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	-174.7	-174.6	-174.5	-174.4	-174.2	-173.5

Transmitting Beams 5:

Question	Response
Beam ID	TLMC
Transmit Beam Frequency	4197.325 MHz -4197.675 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	Yes
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
Max. Transmit EIRP Density	-47.4 dBW/Hz
Max. Transmit EIRP	8.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	TM1

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	-174.7	-174.6	-174.5	-174.4	-174.5	-173.5

**Transmitting
Beams 6:**

Question	Response
Beam ID	CWVD
Transmit Beam Frequency	3700.0 MHz -4200.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	28.98 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
Max. Transmit EIRP Density	-29.3 dBW/Hz
Max. Transmit EIRP	46.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	Western Arc . North America including Alaska and Hawaii; Central America; and the Caribbean. This Reflector has a RPM of plus minus 10 degree east-west and plus minus 8 degree north-south

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	-156.5	-156.4	-156.3	-156.2	-156.1	-155.3

Transmitting Beams 7:

Question	Response
Beam ID	CWHD
Transmit Beam Frequency	3700.0 MHz -4200.0 MHz
Beam Type	Steerable
Polarization	H
Peak Gain	28.98 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
Max. Transmit EIRP Density	-29.3 dBW/Hz
Max. Transmit EIRP	46.3 dBW
Co- or Cross Polar Mode	C

Service Area	Western Arc . North America including Alaska and Hawaii;
Description	Central America; and the Caribbean. This Reflector has a RPM of plus minus 10 degree east-west and plus minus 8 degree north-south

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	-156.5	-156.4	-156.3	-156.2	-156.1	-155.3

Transmitting Beams 8:

Question	Response
Beam ID	CHHD
Transmit Beam Frequency	3700.0 MHz -4200.0 MHz
Beam Type	Steerable
Polarization	H
Peak Gain	28.98 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.03 degrees
Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees

Max. Transmit EIRP Density	-29.3 dBW/Hz
Max. Transmit EIRP	46.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	Hemi Beam. North America including Alaska and Hawaii; Central America; the Caribbean; South America and Western Europe. This Reflector has a RPM of plus minus 10 degree east-west and plus minus 8 degree north-south.

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	-156.5	-156.4	-156.3	-156.2	-156.1	-155.3

Transmitting Beams 9:

Question	Response
Beam ID	CHVD
Transmit Beam Frequency	3700.0 MHz -4200.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	28.98 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees

Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
Max. Transmit EIRP Density	-29.3 dBW/Hz
Max. Transmit EIRP	46.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	Hemi Beam. North America including Alaska and Hawaii; Central America; the Caribbean; South America and Western Europe. This Reflector has a RPM of plus minus 10 degree east-west and plus minus 8 degree north-south.

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):
4.0 kHz	-156.5	-156.4	-156.3	-156.2	-156.1	-155.3

Transmitting Beams 10:

Question	Response
Beam ID	TLME
Transmit Beam Frequency	4198.825 MHz -4199.175 MHz
Beam Type	Fixed
Polarization	H

Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	Yes
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
Max. Transmit EIRP Density	-47.4 dBW/Hz
Max. Transmit EIRP	8.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	TM2

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	-174.7	-174.6	-174.5	-174.4	-174.2	-173.5

Transmitting Beams 11:

Question	Response
Beam ID	TLMD
Transmit Beam Frequency	4198.825 MHz -4199.175 MHz
Beam Type	Fixed
Polarization	LHCP
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	Yes

Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-47.4 dBW/Hz
Max. Transmit EIRP	8.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	TM2

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	-174.7	-174.6	-174.5	-174.4	-174.2	-173.5

Transmitting Beams 12:

Question	Response
Beam ID	KUHD
Transmit Beam Frequency	10700.0 MHz -11200.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	27.67 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
Max. Transmit EIRP Density	-36.4 dBW/Hz
Max. Transmit EIRP	49.14 dBW
Co- or Cross Polar Mode	C

Service Area Description

Ku band wide beam

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	-163.6	-163.5	-163.4	-163.3	-163.2	-162.4

Transmitting Beams 13:

Question	Response
Beam ID	KUVD
Transmit Beam Frequency	10700.0 MHz -11200.0 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	27.67 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
Max. Transmit EIRP Density	-36.4 dBW/Hz
Max. Transmit EIRP	49.14 dBW
Co- or Cross Polar Mode	C
Service Area Description	Ku-band wide beam

Max. Power Flux Density

Transmitting
Beams 14:

	* 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	-163.6	-163.5	-163.4	-163.3	-163.2	-162.4

Question	Response
Beam ID	K1HD
Transmit Beam Frequency	11700.0 MHz -12450.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	27.67 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
Max. Transmit EIRP Density	-36.4 dBW/Hz
Max. Transmit EIRP	49.14 dBW
Co- or Cross Polar Mode	C
Service Area Description	Ku band wide beam

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	-163.6	-163.5	-163.4	-163.3	-163.2	-162.4

Transmitting
Beams 15:

Question	Response
Beam ID	K1VD
Transmit Beam Frequency	11700.0 MHz -12450.0 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	27.67 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
Max. Transmit EIRP Density	-36.4 dBW/Hz
Max. Transmit EIRP	49.14 dBW
Co- or Cross Polar Mode	C
Service Area Description	Ku band wide beam

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	-163.6	-163.5	-163.4	-163.3	-163.2	-162.4

**Transmitting
Channels (19)**

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
CD14	36.0	4180.0	Service Link
CD13	36.0	4140.0	Service Link
CD03	36.0	4000.0	Service Link
CD04	36.0	4040.0	Service Link
CD08	126.0	3785.0	Service Link
CD01	126.0	3765.0	Service Link
CD06	36.0	4120.0	Service Link
CD05	36.0	4080.0	Service Link
CD12	36.0	4100.0	Service Link
ULPC	0.025	4199.95	Service Link
CD07	43.0	4163.5	Service Link
TLMA	0.35	4197.5	TT&C
KU02	662.0	12068.0	Service Link
KU01	356.0	10997.0	Service Link
TLMD	0.35	4199.0	TT&C
CD02	126.0	3905.0	Service Link
CD09	126.0	3925.0	Service Link
CD10	36.0	4020.0	Service Link
CD11	36.0	4060.0	Service Link

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?	N/A
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?	N/A
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)?	

Attachments

File Name	Beam	Field	Attachment Type	Description
g-36.mdb		GSO Antenna Gain Contour Data	GIMS file (*.mdb)	
new at 45.mdb		GSO Antenna Gain Contour Data	GIMS file (*.mdb)	