



312 File Number: **SATMOD2023031000053**

Filing Description

Question	Response
Description	Intelsat-10 redeployment and operation from 47.5 E.L to 177.8 E. L

**Satellite
Information**

Question	Response
Select Orbit Type	GSO
Space Station or Satellite Network Name	Intelsat 10
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 (5)**

Nature of service	Description	Frequency Band(s)	Mode Type
Fixed-Satellite Service		5925.0 MHz -6425.0 MHz	Receive
Fixed-Satellite Service		14000.0 MHz -14500.0 MHz	Receive
Fixed-Satellite Service		3700.0 MHz -4200.0 MHz	Transmit
Fixed-Satellite Service		11450.0 MHz -11700.0 MHz	Transmit
Fixed-Satellite Service		12250.0 MHz -12750.0 MHz	Transmit

**Orbital
Information For
Geostationary
Satellites**

Section	Question	Response
Orbital Longitude Information	Orbital Longitude	178.0 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	6.15 degrees
Antenna Axis Attitude Accuracy	Roll	0.1 degrees
	Pitch	0.1 degrees
	Yaw	0.1 degrees

Receiving
Beams 1:

Question	Response
Beam ID	NEVU
Receive Beam Frequency	14000.0 MHz -14500.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	33.6 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	4.8 dB/K
Min. Saturation Flux Density	-99.8 dBW/m2
Max. Saturation Flux Density	-74.8 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Steerable, Northeast Pacific (Northeast Asia, Western United States, and Canada)

Receiving
Beams 2:

Question	Response
Beam ID	GCVU
Receive Beam Frequency	5925.0 MHz -6425.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	28.2 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees

Receiving Beams 3:

Polarization Switchable	No
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
G/T at Max. Gain Point	-0.4 dB/K
Min. Saturation Flux Density	-103.6 dBW/m2
Max. Saturation Flux Density	-78.6 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Steerable, Visible earth of 177.8 E degree

Question	Response
Beam ID	GCHU
Receive Beam Frequency	5925.0 MHz -6425.0 MHz
Beam Type	Steerable
Polarization	H
Peak Gain	28.2 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	0.4 dB/K
Min. Saturation Flux Density	-104.4 dBW/m2
Max. Saturation Flux Density	-79.4 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Steerable, Visible earth of 177.8 E degree

Receiving Beams 4:

Question	Response
Beam ID	NPHU
Receive Beam Frequency	14000.0 MHz -14250.0 MHz
Beam Type	Steerable
Polarization	H
Peak Gain	34.7 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	6.4 dB/K
Min. Saturation Flux Density	-101.4 dBW/m2
Max. Saturation Flux Density	-76.4 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Steerable, North Pacific, (Northeast Asia, Alaska and Canada)

Receiving Beams 5:

Question	Response
Beam ID	NWVU
Receive Beam Frequency	14000.0 MHz -14500.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	32.9 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	4.4 dB/K
Min. Saturation Flux Density	-99.4 dBW/m2
Max. Saturation Flux Density	-74.4 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Steerable, Northwest Pacific (Northeast Asia)

Receiving Beams 6:

Question	Response
Beam ID	WPVU
Receive Beam Frequency	14250.0 MHz -14500.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	29.8 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	2.3 dB/K
Min. Saturation Flux Density	-97.3 dBW/m2
Max. Saturation Flux Density	-72.3 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Steerable, West Pacific (Oceania and Northeast Asia)

Receiving Beams 7:

Question	Response
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Beam ID	WPHU
Receive Beam Frequency	14250.0 MHz -14500.0 MHz
Beam Type	Steerable
Polarization	H
Peak Gain	30.4 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	2.1 dB/K
Min. Saturation Flux Density	-97.1 dBW/m2
Max. Saturation Flux Density	-72.1 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Steerable, West Pacific (Oceania and Northeast Asia)

**Receiving
Beams 8:**

Question	Response
Beam ID	CMDH
Receive Beam Frequency	14499.02 MHz -14499.98 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	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	-99.0 dB/K
Min. Saturation Flux Density	-90.0 dBW/m2
Max. Saturation Flux Density	-89.9 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Global Coverage ,Horizontal

Receiving Beams 9:

Question	Response
Beam ID	CMDB
Receive Beam Frequency	14499.02 MHz -14499.98 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	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	-99.0 dB/K
Min. Saturation Flux Density	-90.0 dBW/m2
Max. Saturation Flux Density	-89.9 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Bicone, Global Coverage

Receiving Beams 10:

Question	Response
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Beam ID	CMDG
Receive Beam Frequency	14000.02 MHz -14000.98 MHz
Beam Type	Fixed
Polarization	RHCP
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.32 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	-99.0 dB/K
Min. Saturation Flux Density	-90.0 dBW/m2
Max. Saturation Flux Density	-89.9 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Global Coverage

Receiving Channels (26)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
KU07	36.0	14270.0	Service Link
KU06	36.0	14220.0	Service Link
KU05	36.0	14180.0	Service Link
C10	27.0	6349.0	Service Link
C09	27.0	6319.0	Service Link
C08	27.0	6289.0	Service Link
C07	27.0	6259.0	Service Link
C06	27.0	6229.0	Service Link
C05	27.0	6199.0	Service Link
C01	54.0	5955.0	Service Link
C02	54.0	6015.0	Service Link
C03	54.0	6075.0	Service Link
C04	54.0	6143.0	Service Link
KU09	36.0	14350.0	Service Link
KU10	36.0	14390.0	Service Link
KU11	36.0	14430.0	Service Link
KU12	36.0	14470.0	Service Link
C11	27.0	6379.0	Service Link
C12	27.0	6409.0	Service Link
CMDB	0.96	14499.5	TT&C
CMDG	0.96	14000.5	TT&C
KU01	36.0	14020.0	Service Link
KU04	36.0	14140.0	Service Link
KU02	36.0	14060.0	Service Link

KU03	36.0	14100.0	Service Link
KU08	36.0	14310.0	Service Link

Transmitting
Beams 1:

Question	Response
Beam ID	NWVD
Transmit Beam Frequency	11450.0 MHz -11700.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	32.56 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	-26.3 dBW/Hz
Max. Transmit EIRP	49.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	Steerable, Northwest Pacific (Northeast Asia)

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	-153.6	-153.4	-153.3	-153.2	-153.1	-152.3

Transmitting
Beams 2:

Question	Response
Beam ID	CPHD
Transmit Beam Frequency	12250.0 MHz -12750.0 MHz

Beam Type	Steerable
Polarization	H
Peak Gain	35.11 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	-23.6 dBW/Hz
Max. Transmit EIRP	52.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Steerable, Central Pacific (Central Pacific including Hawaii)

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):
4.0 kHz	-153.8	-150.7	-150.6	-150.5	-150.4	-149.6

Transmitting Beams 3:

Question	Response
Beam ID	GCVD
Transmit Beam Frequency	3700.0 MHz -4200.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	26.81 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	-32.5 dBW/Hz
Max. Transmit EIRP	41.8 dBW
Co- or Cross Polar Mode	C
Service Area Description	Steerable, Visible earth of 177.8 E degree

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	-159.8	-159.6	-159.5	-159.4	-159.3	-158.5

Transmitting Beams 4:

Question	Response
Beam ID	GCHD
Transmit Beam Frequency	3700.0 MHz -4200.0 MHz
Beam Type	Steerable
Polarization	H
Peak Gain	26.4 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	-32.9 dBW/Hz

Max. Transmit EIRP	41.4 dBW
Co- or Cross Polar Mode	C
Service Area Description	Steerable, Visible earth of 177.8 E degree

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	-160.3	-160.0	-159.9	-159.8	-159.7	-158.9

Transmitting Beams 5:

Question	Response
Beam ID	NPHD
Transmit Beam Frequency	11450.0 MHz -11700.0 MHz
Beam Type	Steerable
Polarization	H
Peak Gain	32.13 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	-26.5 dBW/Hz
Max. Transmit EIRP	49.1 dBW
Co- or Cross Polar Mode	C
Service Area Description	Steerable, North Pacific (Northeast Asia, Alaska, and Canada)

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	-153.8	-153.6	-153.5	-153.4	-153.3	-152.5

Transmitting Beams 6:

Question	Response
Beam ID	NEVD
Transmit Beam Frequency	12500.0 MHz -12750.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	32.17 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	-26.6 dBW/Hz
Max. Transmit EIRP	49.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Steerable, Northeast Pacific (Northeast Asia, Western United States, and Canada).

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	-153.9	-153.7	-153.6	-153.5	-153.4	-152.6
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Transmitting Beams 7:

Question	Response
Beam ID	WPVD
Transmit Beam Frequency	12500.0 MHz -12750.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	30.23 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	-28.0 dBW/Hz
Max. Transmit EIRP	47.6 dBW
Co- or Cross Polar Mode	C
Service Area Description	Steerable, West Pacific (Oceania, and Northeast Asia)

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
* BW:	(dBW/m² /BW):	(dBW/m² /BW):	(dBW/m² /BW):	(dBW/m² /BW):	(dBW/m² /BW):	(dBW/m² /BW):
4.0 kHz	-155.3	-155.1	-155.0	-154.9	-154.8	-154.0

Transmitting Beams 8:

Question	Response
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Beam ID	WPHD
Transmit Beam Frequency	12500.0 MHz -12750.0 MHz
Beam Type	Steerable
Polarization	H
Peak Gain	29.52 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	-28.2 dBW/Hz
Max. Transmit EIRP	47.4 dBW
Co- or Cross Polar Mode	C
Service Area Description	Steerable, West Pacific (Oceania, and Northeast Asia)

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	-155.5	-155.3	-155.2	-155.1	-155.0	-154.2

Transmitting Beams 9:

Question	Response
Beam ID	TLM2
Transmit Beam Frequency	12748.35 MHz -12748.65 MHz
Beam Type	Fixed
Polarization	H

Peak Gain	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	-47.4 dBW/Hz
Max. Transmit EIRP	8.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	TM Bicone Horizontal (Global)

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	-176.2	-176.1	-176.0	-175.9	-175.8	-175.0

Transmitting Beams 10:

Question	Response
Beam ID	TLM1
Transmit Beam Frequency	12747.35 MHz -12747.65 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.19 degrees
Polarization Switchable	

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	TM Bicone Horizontal (Global)

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	-176.2	-176.1	-176.0	-175.9	-175.8	-175.0

Transmitting Beams 11:

Question	Response
Beam ID	ULP2
Transmit Beam Frequency	12749.487 MHz -12749.512 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	dB <i>i</i>
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	-42.4 dBW/Hz
Max. Transmit EIRP	13.0 dBW

Co- or Cross Polar Mode	C
Service Area Description	Global coverage

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	-171.2	-171.1	-171.0	-170.9	-170.8	-170.0

Transmitting Beams 12:

Question	Response
Beam ID	ULP1
Transmit Beam Frequency	11698.987 MHz -11699.012 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	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	-42.4 dBW/Hz
Max. Transmit EIRP	13.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global coverage

Max. Power Flux Density

Transmitting
Beams 13:

	* 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	-171.2	-171.1	-171.0	-170.9	-170.8	-170.0

Question	Response
Beam ID	TLMP
Transmit Beam Frequency	12747.35 MHz -12747.65 MHz
Beam Type	Fixed
Polarization	RHCP
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	
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	Global Coverage

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	-176.2	-176.1	-176.0	-175.9	-175.8	-175.0

Transmitting
Beams 14:

Question	Response
Beam ID	TLMQ
Transmit Beam Frequency	12748.35 MHz -12748.65 MHz
Beam Type	Fixed
Polarization	RHCP
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.34 degrees
Polarization Switchable	
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	Global Coverage

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	-176.2	-176.1	-176.0	-175.9	-175.8	-175.0

Transmitting
Beams 15:

Question	Response
Beam ID	TLMB
Transmit Beam Frequency	12748.35 MHz -12748.65 MHz

Beam Type	Fixed
Polarization	H
Peak Gain	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	-47.4 dBW/Hz
Max. Transmit EIRP	8.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global Coverage

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):
* 4.0 kHz	-176.2	-176.1	-176.0	-175.9	-175.8	-175.0

Transmitting Beams 16:

Question	Response
Beam ID	TLMG
Transmit Beam Frequency	12747.35 MHz -12747.65 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	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	-47.4 dBW/Hz
Max. Transmit EIRP	8.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global Coverage

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	-176.2	-176.1	-176.0	-175.9	-175.8	-175.0

**Transmitting
Channels (34)**

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
CD08	27.0	4064.0	Service Link
CD09	27.0	4094.0	Service Link
CD10	27.0	4124.0	Service Link
CD11	27.0	4154.0	Service Link
ULP1	0.025	11699.0	TT&C
ULP2	0.025	12749.5	TT&C
KD16	36.0	12642.0	Service Link
KD15	36.0	12602.0	Service Link
KD13	36.0	12522.0	Service Link
KD14	36.0	12562.0	Service Link
KD10	36.0	12392.0	Service Link
KD09	36.0	12352.0	Service Link
KD08	36.0	12312.0	Service Link
KD07	36.0	12272.0	Service Link
KD06	36.0	11677.0	Service Link
KD05	36.0	11637.0	Service Link
KD04	36.0	11597.0	Service Link
KD03	36.0	11557.0	Service Link
KD02	36.0	11517.0	Service Link
KD01	36.0	11477.0	Service Link
TLMG	0.3	12747.5	TT&C
TLMB	0.3	12748.5	TT&C
KD18	36.0	12722.0	Service Link
KD17	36.0	12682.0	Service Link

KD12	36.0	12472.0	Service Link
CD05	27.0	3974.0	Service Link
CD06	27.0	4004.0	Service Link
CD07	27.0	4034.0	Service Link
CD12	27.0	4148.0	Service Link
KD11	36.0	12432.0	Service Link
CD04	54.0	3918.0	Service Link
CD03	54.0	3850.0	Service Link
CD02	54.0	3790.0	Service Link
CD01	54.0	3730.0	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
<u>newIS-10.mdb</u>		GSO Antenna Gain Contour Data	GIMS file (*.mdb)	