



312 File Number: **SATMOD2017062200093**

---

## Filing Description

Question	Response
Description	Horizons 3e Modification

---

## Satellite Information

Question	Response
Select Orbit Type	GSO
Space Station or Satellite Network Name	Horizons 3e
Estimated Lifetime of Satellite(s) From Date of Launch	20 Years
Will the space station(s) operate on a Common Carrier basis?	No

## Operating Frequency Bands (7)

Nature of service	Description	Frequency Band(s)	Mode Type
Fixed-Satellite Service		3700.0 MHz -4200.0 MHz	Transmit
Fixed-Satellite Service		10850.0 MHz -11700.0 MHz	Transmit
Fixed-Satellite Service		12200.0 MHz -12750.0 MHz	Transmit
Fixed-Satellite Service		12920.0 MHz -13250.0 MHz	Receive
Fixed-Satellite Service		13750.0 MHz -14500.0 MHz	Receive
Fixed-Satellite Service		5850.0 MHz -5853.5 MHz	Receive
Fixed-Satellite Service		5925.0 MHz -6425.0 MHz	Receive

## Orbital Information For Geostationary Satellites

Section	Question	Response
<b>Orbital Longitude Information</b>	Orbital Longitude	169.0 degrees
	Hemisphere of Orbital Longitude	E
<b>Longitudinal Tolerance or East /West Station-Keeping</b>	Toward West	0.05 degrees
	Toward East	0.05 degrees
<b>Inclination Excursion or North /South Station-Keeping Tolerance</b>	Inclination Excursion or North /South Station-Keeping Tolerance	0.1 degrees
<b>Antenna Axis Attitude Accuracy</b>	Roll	0.1 degrees
	Pitch	0.1 degrees
	Yaw	0.1 degrees

## Receiving Beams 1:

Question	Response
Beam ID	CAHU
Receive Beam Frequency	5939.0 MHz -6329.0 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	10.2 dB/K
Min. Saturation Flux Density	-106.1 dBW/m <sup>2</sup>
Max. Saturation Flux Density	-78.1 dBW/m <sup>2</sup>
Co- or Cross Polar Mode	C
Service Area Description	There are five beams covering United States, Australia, Japan, China, and New Zealand

## Receiving Beams 2:

Question	Response
Beam ID	CAVU
Receive Beam Frequency	5939.0 MHz -6329.0 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	10.2 dB/K
Min. Saturation Flux Density	-106.1 dBW/m2
Max. Saturation Flux Density	-78.1 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	There are five beams covering United States, Australia, Japan, China, and New Zealand

### Receiving Beams 3:

Question	Response
Beam ID	CGLU
Receive Beam Frequency	6339.0 MHz -6415.0 MHz
Beam Type	Fixed
Polarization	LHCP
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	-4.9 dB/K
Min. Saturation Flux Density	-100.0 dBW/m2
Max. Saturation Flux Density	-72.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Global

## Receiving Beams 4:

Question	Response
Beam ID	CGRU
Receive Beam Frequency	6339.0 MHz -6415.0 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	-4.9 dB/K
Min. Saturation Flux Density	-100.0 dBW/m2
Max. Saturation Flux Density	-72.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Global

## Receiving Beams 5:

Question	Response
Beam ID	KPHU
Receive Beam Frequency	14367.0 MHz -14496.0 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	3.6 dB/K
Min. Saturation Flux Density	-103.7 dBW/m2
Max. Saturation Flux Density	-75.7 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Global

**Receiving Beams 6:**

Question	Response
Beam ID	KPVU
Receive Beam Frequency	14367.0 MHz -14496.0 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
G/T at Max. Gain Point	3.6 dB/K
Min. Saturation Flux Density	-103.7 dBW/m2
Max. Saturation Flux Density	-75.7 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Global

**Receiving**



## Beams 7:

Question	Response
Beam ID	KSBU
Receive Beam Frequency	12924.0 MHz -12996.0 MHz
Beam Type	Steerable
Polarization	V
Peak Gain	0.0 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.3 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	90.0 degrees
G/T at Max. Gain Point	12.0 dB/K
Min. Saturation Flux Density	-110.0 dBW/m <sup>2</sup>
Max. Saturation Flux Density	-82.0 dBW/m <sup>2</sup>
Co- or Cross Polar Mode	C
Service Area Description	Steerable spot beam. Gain contours are provided in Schedule S. The steerable beam may be pointed toward any location on the earth that is visible from 169.0 E.L.

## Receiving Beams 8:

Question	Response
Beam ID	KSHU
Receive Beam Frequency	14191.5 MHz -14353.5 MHz

Beam Type	Fixed
Polarization	H
Peak Gain	0.0 dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.3 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	0.0 degrees
G/T at Max. Gain Point	19.6 dB/K
Min. Saturation Flux Density	-113.9 dBW/m2
Max. Saturation Flux Density	-85.9 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Japan

**Receiving  
Beams 9:**

Question	Response
Beam ID	KSVU
Receive Beam Frequency	14011.5 MHz -14173.5 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	0.0 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	19.6 dB/K
Min. Saturation Flux Density	-113.9 dBW/m2

Max. Saturation Flux Density	-85.9 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Japan

**Receiving  
Beams 10:**

Question	Response
Beam ID	KTHU
Receive Beam Frequency	14007.0 MHz -14263.5 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	0.0 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	16.8 dB/K
Min. Saturation Flux Density	-113.5 dBW/m2
Max. Saturation Flux Density	-85.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Indonesia, Korea, China, New Zealand

**Receiving  
Beams 11:**

Question	Response
Beam ID	KTVU
Receive Beam Frequency	14011.5 MHz -14358.5 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
G/T at Max. Gain Point	16.8 dB/K
Min. Saturation Flux Density	-113.5 dBW/m2
Max. Saturation Flux Density	-85.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Indonesia, Korea, China, New Zealand

**Receiving  
Beams 12:**

Question	Response
Beam ID	KUHU
Receive Beam Frequency	14007.0 MHz -14358.0 MHz
Beam Type	Fixed
Polarization	H
Peak Gain	0.0 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	10.5 dB/K
Min. Saturation Flux Density	-106.5 dBW/m2
Max. Saturation Flux Density	-78.5 dBW/m2

Co- or Cross Polar Mode	C
Service Area Description	Visible land area

**Receiving  
Beams 13:**

Question	Response
Beam ID	KUVU
Receive Beam Frequency	14007.0 MHz -14358.0 MHz
Beam Type	Fixed
Polarization	V
Peak Gain	0.0 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	10.5 dB/K
Min. Saturation Flux Density	-106.5 dBW/m2
Max. Saturation Flux Density	-78.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible land area

**Receiving  
Beams 14:**

Question	Response
Beam ID	CGVU
Receive Beam Frequency	6421.5 MHz -6425.0 MHz
Beam Type	Fixed
Polarization	V

Peak Gain	0.0 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	-90.0 dBW/m2
Max. Saturation Flux Density	-89.9 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Global

**Receiving  
Beams 15:**

Question	Response
Beam ID	CHLU
Receive Beam Frequency	5850.0 MHz -5853.5 MHz
Beam Type	Fixed
Polarization	LHCP
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	-80.0 dBW/m2
Max. Saturation Flux Density	-79.9 dBW/m2
Co- or Cross Polar Mode	C

Service Area Description	Global
--------------------------	--------

**Receiving  
Beams 16:**

Question	Response
Beam ID	CPLU
Receive Beam Frequency	6421.5 MHz -6425.0 MHz
Beam Type	Fixed
Polarization	LHCP
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	-80.0 dBW/m2
Max. Saturation Flux Density	-79.9 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Global

**Receiving  
Beams 17:**

Question	Response
Beam ID	KUHV
Receive Beam Frequency	12950.0 MHz -13240.0 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	10.5 dB/K
Min. Saturation Flux Density	-106.5 dBW/m2
Max. Saturation Flux Density	-78.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible land area

**Receiving  
Beams 18:**

Question	Response
Beam ID	KUVV
Receive Beam Frequency	12950.0 MHz -13240.0 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
G/T at Max. Gain Point	10.5 dB/K
Min. Saturation Flux Density	-106.5 dBW/m2
Max. Saturation Flux Density	-78.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible land area



**Receiving  
Beams 19:**

<b>Question</b>	<b>Response</b>
Beam ID	KUHW
Receive Beam Frequency	13755.0 MHz -14358.0 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	10.5 dB/K
Min. Saturation Flux Density	-106.5 dBW/m2
Max. Saturation Flux Density	-78.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible land area

**Receiving  
Beams 20:**

<b>Question</b>	<b>Response</b>
Beam ID	KUVW
Receive Beam Frequency	13755.0 MHz -14358.0 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
G/T at Max. Gain Point	10.5 dB/K
Min. Saturation Flux Density	-106.5 dBW/m2
Max. Saturation Flux Density	-78.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Visible land area

## Receiving Beams 21:

Question	Response
Beam ID	KTHV
Receive Beam Frequency	12950.0 MHz -13240.0 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	16.8 dB/K
Min. Saturation Flux Density	-113.5 dBW/m2
Max. Saturation Flux Density	-85.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	Indonesia, Korea, China, New Zealand

## Receiving Beams 22:

Question	Response
Beam ID	KSBV
Receive Beam Frequency	14425.0 MHz -14497.0 MHz
Beam Type	Steerable
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
G/T at Max. Gain Point	12.0 dB/K
Min. Saturation Flux Density	-110.0 dBW/m <sup>2</sup>
Max. Saturation Flux Density	-82.0 dBW/m <sup>2</sup>
Co- or Cross Polar Mode	C
Service Area Description	Steerable spot beam. Gain contours are provided in Schedule S. The steerable beam may be pointed toward any location on the earth that is visible from 169.0 E.L.

## Receiving Channels (27)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
KU07	81.0	14137.5	Service Link
KU06	162.0	14092.5	Service Link
KU05	81.0	14047.5	Service Link
KU04	224.0	13867.0	Feeder Link
KU03	224.0	13128.0	Feeder Link
KU01	72.0	12960.0	Service Link
CMD2	1.0	5851.75	TT&C
CMD1	1.0	6423.25	TT&C
KU16	72.0	14461.0	Service Link
KU02	290.0	13095.0	Feeder Link
KU09	81.0	14227.5	Service Link
KU08	162.0	14182.5	Service Link
CU01	362.0	6134.0	Feeder Link
CU02	108.0	5993.0	Feeder Link
CU06	224.0	6077.0	Service Link
CU08	36.0	6397.0	Service Link
CU07	36.0	6357.0	Service Link
CU05	72.0	6293.0	Service Link
CU04	72.0	6213.0	Service Link
CU03	108.0	6113.0	Feeder Link
KU17	36.0	14478.0	Service Link
KU15	27.0	14440.5	Service Link
KU14	54.0	14427.0	Service Link
KU13	27.0	14410.5	Service Link

---

<b>KU12</b>	27.0	14380.5	<a href="#">Service Link</a>
<b>KU11</b>	81.0	14317.5	<a href="#">Service Link</a>
<b>KU10</b>	162.0	14272.5	<a href="#">Service Link</a>

---

## Transmitting Beams 1:

Question	Response
Beam ID	CAHD
Transmit Beam Frequency	3711.5 MHz -4104.0 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
Max. Transmit EIRP Density	-28.1 dBW/Hz
Max. Transmit EIRP	49.5 dBW
Co- or Cross Polar Mode	C
Service Area Description	There are five beams covering United States, Australia, Japan, China, and New Zealand

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup> )	(dBW/m <sup>2</sup> )	(dBW/m <sup>2</sup> )	(dBW/m <sup>2</sup> )	(dBW/m <sup>2</sup> )	(dBW/m <sup>2</sup> )
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
Hz	-152.0	-149.5	-147.0	-144.5	-142.0	-142.0

## Transmitting Beams 2:

Question	Response
Beam ID	CAVD
Transmit Beam Frequency	3711.5 MHz -4104.0 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
Max. Transmit EIRP Density	-28.1 dBW/Hz
Max. Transmit EIRP	49.5 dBW
Co- or Cross Polar Mode	C
Service Area Description	There are five beams covering United States, Australia, Japan, China, and New Zealand

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
Hz	-152.0	-149.5	-147.0	-144.5	-142.0	-142.0

### Transmitting Beams 3:

Question	Response
Beam ID	CGLD
Transmit Beam Frequency	4114.0 MHz -4190.0 MHz
Beam Type	Fixed
Polarization	LHCP
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	-37.4 dBW/Hz
Max. Transmit EIRP	37.2 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
Hz	-152.0	-149.5	-147.0	-144.5	-142.0	-142.0

### Transmitting Beams 4:

Question	Response
Beam ID	CGRD
Transmit Beam Frequency	4114.0 MHz -4190.0 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
Max. Transmit EIRP Density	-37.4 dBW/Hz



Max. Transmit EIRP	37.2 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
Hz	-152.0	-149.5	-147.0	-144.5	-142.0	-142.0

### Transmitting Beams 5:

Question	Response
Beam ID	KPHD
Transmit Beam Frequency	11463.0 MHz -11697.0 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	-27.6 dBW/Hz
Max. Transmit EIRP	47.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0</b> <b>kHz</b>	-150.0	-147.5	-145.0	-142.5	-140.0	-140.0

## Transmitting Beams 6:

Question	Response
Beam ID	KLRE
Transmit Beam Frequency	12200.237 MHz -12200.263 MHz
Beam Type	Fixed
Polarization	RHCP
Peak Gain	dBi
Antenna Pointing Error	0.19 degrees
Antenna Rotational Error	0.03 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-33.0 dBW/Hz
Max. Transmit EIRP	11.0 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 <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0</b> <b>kHz</b>	-150.0	-147.5	-145.0	-142.5	-140.0	-140.0

## Transmitting Beams 7:

Question	Response
Beam ID	KTHE
Transmit Beam Frequency	12257.0 MHz -12744.0 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	-14.5 dBW/Hz
Max. Transmit EIRP	65.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Indonesia, Korea, China, New Zealand

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0 kHz</b>	-148.0	-145.5	-143.0	-140.5	-138.0	-138.0

## Transmitting Beams 8:

Question	Response
Beam ID	CLHD
Transmit Beam Frequency	4199.737 MHz -4199.763 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
Max. Transmit EIRP Density	-37.8 dBW/Hz
Max. Transmit EIRP	6.2 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0 kHz</b>	-152.0	-149.5	-147.0	-144.5	-142.0	-142.0

### Transmitting Beams 9:

Question	Response
Beam ID	KLRD
Transmit Beam Frequency	11450.987 MHz -11451.013 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	-33.0 dBW/Hz
Max. Transmit EIRP	11.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0 kHz</b>	-150.0	-147.5	-145.0	-142.5	-140.0	-140.0

### Transmitting Beams 10:

Question	Response
Beam ID	KPVD
Transmit Beam Frequency	11463.0 MHz -11697.0 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	-29.4 dBW/Hz

Max. Transmit EIRP	47.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
4.0 kHz	-150.0	-147.5	-145.0	-142.5	-140.0	-140.0

### Transmitting Beams 11:

Question	Response
Beam ID	KSBD
Transmit Beam Frequency	10850.0 MHz -11026.0 MHz
Beam Type	Steerable
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	-17.8 dBW/Hz
Max. Transmit EIRP	59.8 dBW
Co- or Cross Polar Mode	C
Service Area Description	Beam KSBD is a steerable spot beam that can be pointed anywhere on the visible surface of the earth.



<b>4.0</b>	-148.0	-145.5	-143.0	-140.5	-138.0	-138.0
<b>kHz</b>						

**Transmitting Beams 13:**

Question	Response
Beam ID	KSVD
Transmit Beam Frequency	12507.0 MHz -12744.0 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	-13.6 dBW/Hz
Max. Transmit EIRP	65.9 dBW
Co- or Cross Polar Mode	C
Service Area Description	Japan

**Max. Power Flux Density**

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0</b>	-148.0	-145.5	-143.0	-140.5	-138.0	-138.0
<b>kHz</b>						

**Transmitting Beams 14:**

Question	Response
----------	----------



Beam ID	KTHD
Transmit Beam Frequency	11583.0 MHz -11637.0 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	-14.5 dBW/Hz
Max. Transmit EIRP	65.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Indonesia, Korea, China, New Zealand

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
*	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0</b>	-148.0	-145.5	-143.0	-140.5	-138.0	-138.0
<b>kHz</b>						

### Transmitting Beams 15:

Question	Response
Beam ID	KTVD
Transmit Beam Frequency	11463.0 MHz -11517.0 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	-14.5 dBW/Hz
Max. Transmit EIRP	65.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Indonesia, Korea, China, New Zealand

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
*	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0</b>	-148.0	-145.5	-143.0	-140.5	-138.0	-138.0
<b>kHz</b>						

### Transmitting Beams 16:

Question	Response
Beam ID	KUHD
Transmit Beam Frequency	12257.0 MHz -12744.0 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	-22.1 dBW/Hz
Max. Transmit EIRP	57.4 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible land area

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
	(dBW/m <sup>2</sup> )	(dBW/m <sup>2</sup> )	(dBW/m <sup>2</sup> )	(dBW/m <sup>2</sup> )	(dBW/m <sup>2</sup> )	(dBW/m <sup>2</sup> )
* BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
4.0 kHz	-148.0	-145.5	-143.0	-140.5	-138.0	-138.0

### Transmitting Beams 17:

Question	Response
Beam ID	KUVD
Transmit Beam Frequency	12257.0 MHz -12744.0 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	-22.1 dBW/Hz
Max. Transmit EIRP	57.4 dBW
Co- or Cross Polar Mode	C

---

Service Area Description

Indonesia, Korea, China, New Zealand

---

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0 kHz</b>	-148.0	-145.5	-143.0	-140.5	-138.0	-138.0

---

### Transmitting Beams 18:

Question	Response
Beam ID	TGHD
Transmit Beam Frequency	4197.0 MHz -4199.8 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
Max. Transmit EIRP Density	-43.3 dBW/Hz
Max. Transmit EIRP	13.7 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global

---

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0 kHz</b>	-162.0	-159.5	-157.0	-154.5	-152.0	-152.0

## Transmitting Beams 19:

Question	Response
Beam ID	THLD
Transmit Beam Frequency	4197.0 MHz -4199.8 MHz
Beam Type	Fixed
Polarization	LHCP
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	-45.1 dBW/Hz
Max. Transmit EIRP	11.9 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global

## Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0 kHz</b>	-162.0	-159.5	-157.0	-154.5	-152.0	-152.0

## Transmitting Beams 20:

Question	Response
Beam ID	TPLD
Transmit Beam Frequency	4197.0 MHz -4199.8 MHz
Beam Type	Fixed
Polarization	LHCP
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	-41.6 dBW/Hz
Max. Transmit EIRP	15.4 dBW
Co- or Cross Polar Mode	C
Service Area Description	Global

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0 kHz</b>	-162.0	-159.5	-157.0	-154.5	-152.0	-152.0

## Transmitting Beams 21:

Question	Response
Beam ID	KUHE
Transmit Beam Frequency	10970.0 MHz -11418.0 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	-28.1 dBW/Hz
Max. Transmit EIRP	57.4 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible Land Area

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0 kHz</b>	-148.0	-145.5	-143.0	-140.2	-138.0	-138.0

### Transmitting Beams 22:

Question	Response
Beam ID	KUVE
Transmit Beam Frequency	10970.0 MHz -11418.0 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	-28.1 dBW/Hz
Max. Transmit EIRP	57.4 dBW
Co- or Cross Polar Mode	C
Service Area Description	Visible land area

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
4.0 kHz	-148.0	-145.5	-143.0	-140.5	-138.0	-138.0

### Transmitting Beams 23:

Question	Response
Beam ID	KTVE
Transmit Beam Frequency	12257.0 MHz -12639.0 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	-17.5 dBW/Hz



Max. Transmit EIRP	65.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Indonesia, Korea, China, New Zealand

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0 kHz</b>	-148.0	-145.5	-143.0	-140.5	-138.0	-138.0

### Transmitting Beams 24:

Question	Response
Beam ID	KPHE
Transmit Beam Frequency	12211.0 MHz -12247.0 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	-27.6 dBW/Hz
Max. Transmit EIRP	47.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	GLOBAL

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0</b> kHz	-150.0	-147.5	-145.0	-142.5	-140.0	-140.0

### Transmitting Beams 25:

Question	Response
Beam ID	KPVE
Transmit Beam Frequency	12211.0 MHz -12247.0 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	-29.4 dBW/Hz
Max. Transmit EIRP	47.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	GLOBAL

### Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):

<b>4.0</b>	-150.0	-147.5	-145.0	-142.5	-140.0	-140.0
<b>kHz</b>						

## Transmitting Beams 26:

Question	Response
Beam ID	KTVF
Transmit Beam Frequency	10970.0 MHz -11418.0 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	-20.5 dBW/Hz
Max. Transmit EIRP	65.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	Indonesia, Korea, China, New Zealand

## Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>	(dBW/m <sup>2</sup>
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
<b>4.0</b>	-148.0	-145.5	-143.0	-140.5	-138.0	-138.0
<b>kHz</b>						

## Transmitting Channels (28)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
KD03	448.0	11194.0	Feeder Link
KD02	72.0	10990.0	Service Link
KD01	72.0	10886.0	Service Link
TLM4	0.5	4199.25	TT&C
TLM3	0.5	4198.75	TT&C
TLM2	0.5	4198.25	TT&C
TLM1	0.5	4197.75	TT&C
CD08	36.0	4172.0	Service Link
CD07	36.0	4132.0	Service Link
CD06	362.0	3892.5	Feeder Link
CD05	72.0	4068.0	Service Link
CD04	72.0	3988.0	Service Link
CD03	108.0	3888.0	Service Link
KD07	54.0	11670.0	Service Link
KD06	54.0	11610.0	Service Link
KD05	54.0	11550.0	Service Link
KD04	54.0	11490.0	Service Link
KD13	112.0	12688.0	Service Link
KD12	112.0	12563.0	Service Link
KD11	112.0	12438.0	Service Link
KD10	224.0	12377.0	Service Link
KD09	112.0	12313.0	Service Link
KD08	36.0	12229.0	Service Link
ULC	0.025	4199.75	TT&C

---

<b>ULK2</b>	0.025	12200.25	TT&C
<b>ULK1</b>	0.025	11451.0	TT&C
<b>CD01</b>	370.0	3903.0	Feeder Link
<b>CD02</b>	108.0	3768.0	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?	No
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
<a href="#"><u>horizons-3e_beams.mdb</u></a>		GSO Antenna Gain Contour Data	GIMS file (*.mdb)	GXT files for Horizons 3e Beams

---