



312 File Number: **SATMOD2015123100090**

Filing Description

Question	Response
Description	tt000

Satellite Information

Question	Response
Select Orbit Type	GSO
Space Station or Satellite Network Name	tt000
Estimated Lifetime of Satellite(s) From Date of Launch	10 Years
Will the space station(s) operate on a Common Carrier basis?	Yes

Operating Frequency Bands (2)

Nature of service	Description	Frequency Band (s)	Mode Type
Direct Broadcast Satellite (DBS) Service		17300.0 MHz -17700.0 MHz	Receive
Direct Broadcast Satellite (DBS) Service		17300.0 MHz -17700.0 MHz	Transmit

Orbital Information For Geostationary Satellites

Section	Question	Response
Orbital Longitude Information	Orbital Longitude	31.555 degrees
	Hemisphere of Orbital Longitude	W
Longitudinal Tolerance or East /West Station-Keeping	Toward West	0.005 degrees
	Toward East	0.005 degrees
Inclination Excursion or North /South Station-Keeping Tolerance	Inclination Excursion or North /South Station-Keeping Tolerance	1.0 degrees
Eccentricity	Max. Eccentricity	1.0
Antenna Axis Attitude Accuracy	Roll	1.0 degrees
	Pitch	1.0 degrees
	Yaw	1.0 degrees

Receiving Beams 1:

Question	Response
Beam ID	rx00
Receive Beam Frequency	17300.0 MHz -17700.0 MHz
Beam Type	Shapeable
Polarization	H
Peak Gain	1.0 dBi
Antenna Pointing Error	1.0 degrees
Antenna Rotational Error	1.0 degrees
Min. Cross-Polar Isolation within Service Area	1.0 dB
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	1.0 degrees
G/T at Max. Gain Point	1.0 dB/K
Min. Saturation Flux Density	-999.0 dBW/m2
Max. Saturation Flux Density	-998.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	tt

**Receiving
Channels (1)**

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
rx00	400.0	17500.0	Feeder Link

Transmitting Beams 1:

Question	Response
Beam ID	tx00
Transmit Beam Frequency	17300.0 MHz -17700.0 MHz
Beam Type	Shapeable
Polarization	H
Peak Gain	1.0 dBi
Antenna Pointing Error	1.0 degrees
Antenna Rotational Error	1.0 degrees
Min. Cross-Polar Isolation within Service Area	1.0 dB
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	1.0 degrees
Max. Transmit EIRP Density	-99.0 dBW/Hz
Max. Transmit EIRP	99.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	tt000

Max. Power Flux Density

	* Southeastern Region (dbW/m ² /BW):	* Northeastern Region (dbW/m ² /BW):	* Western Region (dbW/m ² /BW):	* Other Regions (dbW/m ² /BW):
* BW: 1.0 MHz	-60.0	-60.0	-60.0	-60.0

Transmitting Channels (1)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
tx00	400.0	17500.0	Feeder 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?	Yes
Are the applicable frequency tolerances of 25.202(e) and out-of-band emission limits of 25.202(f)(1),(2), and (3) met?	Yes
Are the cessation of emissions requirements of 25.207 met?	Yes
Are the applicable power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?	Yes
For NGSO applications, are the applicable equivalent-power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?	Yes
Are the applicable full-frequency-reuse requirements of 25.210 met?	Yes
If the application is for a 17/24 GHz BSS space station, will it be operated at an offset location with full power and interference protection in accordance with 25.262(b)?	Yes

Attachments

Information not provided.