Approved by OMB 3060-0678
Estimated Burden: up to 80 hours
April 2016

Federal Communications Commission

312 File Number: **SESMOD2016051200415**

Filing Description

Question	Response
Description	Non GSO Application

Satellite Information

Question	Response
Select Orbit Type	NGSO
Space Station or Satellite Network Name	testngso
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 (3)

Nature of service	Description	Frequency Band (s)	Mode Type
Direct Broadcast Satellite (DBS) Service		12200.0 MHz -12500.0 MHz	Receive
Direct Broadcast Satellite (DBS) Service		12200.0 MHz -12500.0 MHz	Transmit
Direct Broadcast Satellite (DBS) Service		12000.0 MHz -12100.0 MHz	Transmit

Orbital Information For Non-Geostationary Satellites

Question	Response
Total Number of Satellites in the active constellation	1
Orbit Epoch Date	07/06/2016
Celestrial Reference Body	test

Orbital Plane 1:

Question	Response
Number of Satellites in Plane	1
Inclination Angle	1.0 degrees
Right Ascension of Ascending Node	1.0 degrees
Argument of Perigee	1.0 degrees
Orbital Period	1.0 seconds
Apogee	1.0 km
Perigee	1.0 km
Active Service Arc Begin Angle with respect to Ascending Node	1.0 degrees
Active Service Arc End Angle with respect to Ascending Node	1.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	60.0

Receiving Beams 1:

Question	Response
Beam ID	R1
Receive Beam Frequency	12200.0 MHz -12500.0 MHz
Beam Type	Steerable
Polarization	RHCP
Peak Gain	1.0 dBi
Antenna Pointing Error	1.0 degrees
Antenna Rotational Error	1.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	1.0 dB/K
Min. Saturation Flux Density	-0.75 dBW/m2
Max. Saturation Flux Density	-0.5 dBW/m2
Co- or Cross Polar Mode	X
Service Area Description	asdfasdfasdf

Receiving Channels (1)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
c1	100.0	12250.0	TT&C

Transmitting Beams 1:

Question	Response
Beam ID	T1
Transmit Beam Frequency	12200.0 MHz -12500.0 MHz
Beam Type	Spot
Polarization	LHCP
Peak Gain	1.0 dBi
Antenna Pointing Error	1.0 degrees
Antenna Rotational Error	1.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	0.0 dBW/Hz
Max. Transmit EIRP	1.0 dBW
Co- or Cross Polar Mode	C
Service Area Description	sdgsdfgsdf

Max. Power Flux Density

* BW:	* 0° - 1° (dbW/m^2 /BW):	* 1° - 2° (dbW/m^2 /BW):	* 2° - 3° (dbW/m^2 /BW):	* 3° - 4° (dbW/m^2 /BW):	* 4° - 5° (dbW/m^2 /BW):
200.0 MHz	-60.0	-75.0	-80.0	-85.0	-90.0

Transmitting Beams 2:

Question	Response
Beam ID	T2
Transmit Beam Frequency	12000.0 MHz -12100.0 MHz

Beam Type	Shapeable
Polarization	LHCP
Peak Gain	1.0 dBi
Antenna Pointing Error	1.0 degrees
Antenna Rotational Error	1.0 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	0.0 dBW/Hz
Max. Transmit EIRP	1.0 dBW
Co- or Cross Polar Mode	X
Service Area Description	sdfgsdfg

Max. Power Flux Density

Information not provided.

Transmitting Channels (2)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
c3	100.0	12050.0	Service Link
c2	100.0	12250.0	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?	N/A
Are the cessation of emissions requirements of 25.207 met?	No
Are the applicable power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?	
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?	
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

Information not provided.