



312 File Number: **SESMOD2016051200416**

Filing Description

| Question | Response |
|-------------|-------------------------|
| Description | GSO without attachments |

**Satellite
Information**

| Question | Response |
|--|----------|
| Select Orbit Type | GSO |
| Space Station or Satellite Network Name | test1 |
| 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 (2)**

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

Orbital Information For Geostationary Satellites

| Section | Question | Response |
|--|---|-------------|
| Orbital Longitude Information | Orbital Longitude | 1.0 degrees |
| | Hemisphere of Orbital Longitude | W |
| Longitudinal Tolerance or East /West Station-Keeping | Toward West | 1.0 degrees |
| | Toward East | 1.0 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 | r1 |
| Receive Beam Frequency | 12200.0 MHz -12500.0 MHz |
| Beam Type | Steerable |
| 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 |
| 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 | C |
| Service Area Description | sdfgsdfgsdfg |

**Receiving
Channels (1)**

| Channel ID | Channel Bandwidth (MHz) | Center Frequency s (MHz) | Feeder Link, Service Link or TT&C |
|-------------------|--------------------------------|---------------------------------|--|
| R1 | 100.0 | 12250.0 | Service Link |

Transmitting Beams 1:

| Question | Response |
|---|--------------------------|
| Beam ID | t1 |
| Transmit Beam Frequency | 12200.0 MHz -12500.0 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 | C |
| Service Area Description | sdfgsdfgsdfg |

Max. Power Flux Density

| | * 0° - 5° (dBW/m ² /BW): | * 5° - 10° (dBW/m ² /BW): | * 10° - 15° (dBW/m ² /BW): | * 15° - 20° (dBW/m ² /BW): | * 20° - 25° (dBW/m ² /BW): | * 25° - 90° (dBW/m ² /BW): |
|------------------|---|--|---|---|---|---|
| 200.0 MHz | -60.0 | -70.0 | -80.0 | -90.0 | -100.0 | -110.0 |

Transmitting Channels (1)

| Channel ID | Channel Bandwidth (MHz) | Center Frequency s (MHz) | Feeder Link, Service Link or TT&C |
|-------------------|--------------------------------|---------------------------------|--|
| T1 | 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.