



312 File Number: **SESLIC2022122001413**

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## Filing Description

| Question    | Response              |
|-------------|-----------------------|
| Description | Inmarsat 6 F2 at 28WL |

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Satellite  
Information

| Question                                                     | Response       |
|--------------------------------------------------------------|----------------|
| Select Orbit Type                                            | GSO            |
| Space Station or Satellite Network Name                      | INMARSAT-6-28W |
| Estimated Lifetime of Satellite(s) From Date of Launch       | 25 Years       |
| Will the space station(s) operate on a Common Carrier basis? | Yes            |

Operating  
Frequency  
Bands (4)

| Nature of service        | Description | Frequency Band(s)        | Mode Type |
|--------------------------|-------------|--------------------------|-----------|
| Fixed-Satellite Service  |             | 17700.0 MHz -20200.0 MHz | Transmit  |
| Fixed-Satellite Service  |             | 27500.0 MHz -30000.0 MHz | Receive   |
| Mobile-Satellite Service |             | 1525.0 MHz -1559.0 MHz   | Transmit  |
| Mobile-Satellite Service |             | 1626.5 MHz -1660.5 MHz   | Receive   |

**Orbital  
Information For  
Geostationary  
Satellites**

| Section                                                               | Question                                                              | Response        |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------|
| Orbital Longitude Information                                         | Orbital Longitude                                                     | 28.0<br>degrees |
|                                                                       | Hemisphere of Orbital<br>Longitude                                    | W               |
| Longitudinal Tolerance or East<br>/West Station-Keeping               | Toward West                                                           | 0.05<br>degrees |
|                                                                       | Toward East                                                           | 0.05<br>degrees |
| Inclination Excursion or North<br>/South Station-Keeping<br>Tolerance | Inclination Excursion or North<br>/South Station-Keeping<br>Tolerance | 0.1<br>degrees  |
| Antenna Axis Attitude Accuracy                                        | Roll                                                                  | 0.1<br>degrees  |
|                                                                       | Pitch                                                                 | 0.1<br>degrees  |
|                                                                       | Yaw                                                                   | 0.1<br>degrees  |

## Receiving Beams 1:

| Question                                                | Response                 |
|---------------------------------------------------------|--------------------------|
| Beam ID                                                 | S01U                     |
| Receive Beam Frequency                                  | 29500.0 MHz -30000.0 MHz |
| Beam Type                                               | Steerable                |
| Polarization                                            | RHCP                     |
| Peak Gain                                               | 48.6 dBi                 |
| Antenna Pointing Error                                  | 0.2 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| G/T at Max. Gain Point                                  | 21.2 dB/K                |
| Min. Saturation Flux Density                            | -93.0 dBW/m2             |
| Max. Saturation Flux Density                            | -77.0 dBW/m2             |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Visible Earth            |

## Receiving Beams 2:

| Question                 | Response                 |
|--------------------------|--------------------------|
| Beam ID                  | S03U                     |
| Receive Beam Frequency   | 27500.0 MHz -29500.0 MHz |
| Beam Type                | Steerable                |
| Polarization             | RHCP                     |
| Peak Gain                | 43.8 dBi                 |
| Antenna Pointing Error   | 0.2 degrees              |
| Antenna Rotational Error | 0.1 degrees              |

|                                                         |               |
|---------------------------------------------------------|---------------|
| Polarization Switchable                                 |               |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees  |
| G/T at Max. Gain Point                                  | 16.2 dB/K     |
| Min. Saturation Flux Density                            | -93.0 dBW/m2  |
| Max. Saturation Flux Density                            | -77.0 dBW/m2  |
| Co- or Cross Polar Mode                                 | C             |
| Service Area Description                                | Visible Earth |

Receiving  
Beams 3:

| Question                                                | Response                 |
|---------------------------------------------------------|--------------------------|
| Beam ID                                                 | S04U                     |
| Receive Beam Frequency                                  | 27500.0 MHz -29500.0 MHz |
| Beam Type                                               | Steerable                |
| Polarization                                            | LHCP                     |
| Peak Gain                                               | 43.8 dBi                 |
| Antenna Pointing Error                                  | 0.2 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| G/T at Max. Gain Point                                  | 16.2 dB/K                |
| Min. Saturation Flux Density                            | -93.0 dBW/m2             |
| Max. Saturation Flux Density                            | -77.0 dBW/m2             |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Visible Earth            |

Receiving

**Beams 4:**

| Question                                                | Response                 |
|---------------------------------------------------------|--------------------------|
| Beam ID                                                 | SO2U                     |
| Receive Beam Frequency                                  | 29500.0 MHz -30000.0 MHz |
| Beam Type                                               | Steerable                |
| Polarization                                            | LHCP                     |
| Peak Gain                                               | 48.6 dBi                 |
| Antenna Pointing Error                                  | 0.2 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| G/T at Max. Gain Point                                  | 21.2 dB/K                |
| Min. Saturation Flux Density                            | -105.0 dBW/m2            |
| Max. Saturation Flux Density                            | -97.0 dBW/m2             |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Visible Earth            |

**Receiving  
Beams 5:**

| Question                 | Response                 |
|--------------------------|--------------------------|
| Beam ID                  | S05U                     |
| Receive Beam Frequency   | 27500.0 MHz -29500.0 MHz |
| Beam Type                | Steerable                |
| Polarization             | RHCP                     |
| Peak Gain                | 48.6 dBi                 |
| Antenna Pointing Error   | 0.2 degrees              |
| Antenna Rotational Error | 0.1 degrees              |
| Polarization Switchable  |                          |

|                                                         |               |
|---------------------------------------------------------|---------------|
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees  |
| G/T at Max. Gain Point                                  | 22.1 dB/K     |
| Min. Saturation Flux Density                            | -93.0 dBW/m2  |
| Max. Saturation Flux Density                            | -77.0 dBW/m2  |
| Co- or Cross Polar Mode                                 | C             |
| Service Area Description                                | Visible Earth |

## Receiving Beams 6:

| Question                                                | Response                 |
|---------------------------------------------------------|--------------------------|
| Beam ID                                                 | S06U                     |
| Receive Beam Frequency                                  | 27500.0 MHz -29500.0 MHz |
| Beam Type                                               | Steerable                |
| Polarization                                            | LHCP                     |
| Peak Gain                                               | 48.6 dBi                 |
| Antenna Pointing Error                                  | 0.2 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| G/T at Max. Gain Point                                  | 22.1 dB/K                |
| Min. Saturation Flux Density                            | -93.0 dBW/m2             |
| Max. Saturation Flux Density                            | -77.0 dBW/m2             |
| Co- or Cross Polar Mode                                 | C                        |
| Service Area Description                                | Visible Earth            |

## Receiving Beams 7:

| Question | Response |
|----------|----------|
|----------|----------|



|                                                         |                              |
|---------------------------------------------------------|------------------------------|
| Beam ID                                                 | L01U                         |
| Receive Beam Frequency                                  | 1626.5 MHz -1660.5 MHz       |
| Beam Type                                               | Both Steerable and Shapeable |
| Polarization                                            | RHCP                         |
| Peak Gain                                               | 37.3 dBi                     |
| Antenna Pointing Error                                  | 0.2 degrees                  |
| Antenna Rotational Error                                | 0.1 degrees                  |
| Polarization Switchable                                 |                              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees                 |
| G/T at Max. Gain Point                                  | 12.7 dB/K                    |
| Min. Saturation Flux Density                            | -100.0 dBW/m2                |
| Max. Saturation Flux Density                            | -99.0 dBW/m2                 |
| Co- or Cross Polar Mode                                 | C                            |
| Service Area Description                                | Global                       |

**Receiving  
Beams 8:**

| Question                 | Response                     |
|--------------------------|------------------------------|
| Beam ID                  | L02U                         |
| Receive Beam Frequency   | 1626.5 MHz -1660.5 MHz       |
| Beam Type                | Both Steerable and Shapeable |
| Polarization             | RHCP                         |
| Peak Gain                | 22.0 dBi                     |
| Antenna Pointing Error   | 0.2 degrees                  |
| Antenna Rotational Error | 0.1 degrees                  |
| Polarization Switchable  |                              |

|                                                         |               |
|---------------------------------------------------------|---------------|
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees  |
| G/T at Max. Gain Point                                  | -1.6 dB/K     |
| Min. Saturation Flux Density                            | -100.0 dBW/m2 |
| Max. Saturation Flux Density                            | -99.0 dBW/m2  |
| Co- or Cross Polar Mode                                 | C             |
| Service Area Description                                | Global        |

## Receiving Channels (17)

| Channel ID | Channel Bandwidth (MHz) | Center Frequency s (MHz) | Feeder Link, Service Link or TT&C |
|------------|-------------------------|--------------------------|-----------------------------------|
| C06F       | 110.0                   | 28180.0                  | Feeder Link                       |
| C05F       | 110.0                   | 28055.0                  | Feeder Link                       |
| C04R       | 110.0                   | 29945.0                  | Service Link                      |
| C04F       | 110.0                   | 27930.0                  | Feeder Link                       |
| C12F       | 110.0                   | 28945.0                  | Feeder Link                       |
| C11F       | 110.0                   | 28820.0                  | Feeder Link                       |
| C10F       | 110.0                   | 28695.0                  | Feeder Link                       |
| C09F       | 110.0                   | 28570.0                  | Feeder Link                       |
| C08F       | 110.0                   | 28430.0                  | Feeder Link                       |
| C07F       | 110.0                   | 28305.0                  | Feeder Link                       |
| C01F       | 110.0                   | 27555.0                  | Feeder Link                       |
| C01R       | 110.0                   | 29570.0                  | Service Link                      |
| C02F       | 110.0                   | 27680.0                  | Feeder Link                       |
| C02R       | 110.0                   | 29695.0                  | Service Link                      |
| C03F       | 110.0                   | 27805.0                  | Feeder Link                       |
| C03R       | 110.0                   | 29820.0                  | Service Link                      |
| L01U       | 34.0                    | 1643.5                   | Service Link                      |

Transmitting  
Beams 1:

| Question                                                | Response                 |
|---------------------------------------------------------|--------------------------|
| Beam ID                                                 | S01D                     |
| Transmit Beam Frequency                                 | 19700.0 MHz -20200.0 MHz |
| Beam Type                                               | Steerable                |
| Polarization                                            | LHCP                     |
| Peak Gain                                               | 44.2 dBi                 |
| Antenna Pointing Error                                  | 0.2 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -18.0 dBW/Hz             |
| Max. Transmit EIRP                                      | 60.8 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> /BW): | (dBW/m <sup>2</sup> /BW): | (dBW/m <sup>2</sup> /BW): | (dBW/m <sup>2</sup> /BW): | (dBW/m <sup>2</sup> /BW): | (dBW/m <sup>2</sup> /BW): | (dBW/m <sup>2</sup> /BW): |
| 1.0 MHz                     | -121.3                    | -121.2                    | -121.0                    | -120.9                    | -120.8                    | -120.1                    |

Transmitting  
Beams 2:

| Question                | Response                 |
|-------------------------|--------------------------|
| Beam ID                 | S04D                     |
| Transmit Beam Frequency | 17700.0 MHz -19700.0 MHz |

|                                                         |              |
|---------------------------------------------------------|--------------|
| Beam Type                                               | Steerable    |
| Polarization                                            | LHCP         |
| Peak Gain                                               | 42.1 dBi     |
| Antenna Pointing Error                                  | 0.2 degrees  |
| Antenna Rotational Error                                | 0.1 degrees  |
| Polarization Switchable                                 |              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density                              | -31.1 dBW/Hz |
| Max. Transmit EIRP                                      | 49.3 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):               |
| <b>1.0 MHz</b> | -134.4              | -134.3              | -134.1              | -134.0              | -133.9              | -133.2              |

**Transmitting Beams 3:**

| Question                | Response                 |
|-------------------------|--------------------------|
| Beam ID                 | S05D                     |
| Transmit Beam Frequency | 17700.0 MHz -19700.0 MHz |
| Beam Type               | Steerable                |
| Polarization            | RHCP                     |
| Peak Gain               | 43.9 dBi                 |
| Antenna Pointing Error  | 0.2 degrees              |

|                                                         |              |
|---------------------------------------------------------|--------------|
| Antenna Rotational Error                                | 0.1 degrees  |
| Polarization Switchable                                 |              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density                              | -28.6 dBW/Hz |
| Max. Transmit EIRP                                      | 51.8 dBW     |
| Co- or Cross Polar Mode                                 | C            |
| Service Area Description                                | GLOBAL       |

Max. Power Flux Density

|         | * 0° - 5°<br>(dBW/m <sup>2</sup><br>/BW): | * 5° - 10°<br>(dBW/m <sup>2</sup><br>/BW): | * 10° - 15°<br>(dBW/m <sup>2</sup><br>/BW): | * 15° - 20°<br>(dBW/m <sup>2</sup><br>/BW): | * 20° - 25°<br>(dBW/m <sup>2</sup><br>/BW): | * 25° - 90°<br>(dBW/m <sup>2</sup><br>/BW): |
|---------|-------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| 1.0 MHz | -131.9                                    | -131.8                                     | -131.6                                      | -131.5                                      | -131.4                                      | -130.7                                      |

Transmitting  
Beams 4:

| Question                                                | Response                 |
|---------------------------------------------------------|--------------------------|
| Beam ID                                                 | S06D                     |
| Transmit Beam Frequency                                 | 17700.0 MHz -19700.0 MHz |
| Beam Type                                               | Steerable                |
| Polarization                                            | LHCP                     |
| Peak Gain                                               | 43.9 dBi                 |
| Antenna Pointing Error                                  | 0.2 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -28.6 dBW/Hz             |

|                          |          |
|--------------------------|----------|
| Max. Transmit EIRP       | 51.8 dBW |
| Co- or Cross Polar Mode  | C        |
| Service Area Description | GLOBAL   |

### Max. Power Flux Density

|                    | * 0° - 5°<br>(dBW/m <sup>2</sup><br>/BW): | * 5° - 10°<br>(dBW/m <sup>2</sup><br>/BW): | * 10° - 15°<br>(dBW/m <sup>2</sup><br>/BW): | * 15° - 20°<br>(dBW/m <sup>2</sup><br>/BW): | * 20° - 25°<br>(dBW/m <sup>2</sup><br>/BW): | * 25° - 90°<br>(dBW/m <sup>2</sup><br>/BW): |
|--------------------|-------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| <b>*<br/>BW:</b>   |                                           |                                            |                                             |                                             |                                             |                                             |
| <b>1.0<br/>MHz</b> | -131.9                                    | -131.8                                     | -131.6                                      | -131.5                                      | -131.4                                      | -130.7                                      |

### Transmitting Beams 5:

| Question                                                | Response                     |
|---------------------------------------------------------|------------------------------|
| Beam ID                                                 | L07D                         |
| Transmit Beam Frequency                                 | 1525.0 MHz -1559.0 MHz       |
| Beam Type                                               | Both Steerable and Shapeable |
| Polarization                                            | RHCP                         |
| Peak Gain                                               | 37.1 dBi                     |
| Antenna Pointing Error                                  | 0.2 degrees                  |
| Antenna Rotational Error                                | 0.1 degrees                  |
| Polarization Switchable                                 |                              |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees                 |
| Max. Transmit EIRP Density                              | -0.4 dBW/Hz                  |
| Max. Transmit EIRP                                      | 63.4 dBW                     |
| Co- or Cross Polar Mode                                 | C                            |
| Service Area Description                                | GLOBAL                       |

### Max. Power Flux Density

**Transmitting  
Beams 6:**

|            | * 0° - 5°                    | * 5° - 10°                   | * 10° - 15°                  | * 15° - 20°                  | * 20° - 25°                  | * 25° - 90°                  |
|------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| *<br>BW:   | (dbW/m <sup>2</sup><br>/BW): | (dbW/m <sup>2</sup><br>/BW): | (dbW/m <sup>2</sup><br>/BW): | (dbW/m <sup>2</sup><br>/BW): | (dbW/m <sup>2</sup><br>/BW): | (dbW/m <sup>2</sup><br>/BW): |
| 1.0<br>MHz | -116.0                       | -115.9                       | -115.7                       | -115.6                       | -115.5                       | -114.8                       |

| Question                                                | Response                 |
|---------------------------------------------------------|--------------------------|
| Beam ID                                                 | S03D                     |
| Transmit Beam Frequency                                 | 17700.0 MHz -19700.0 MHz |
| Beam Type                                               | Steerable                |
| Polarization                                            | RHCP                     |
| Peak Gain                                               | 42.1 dBi                 |
| Antenna Pointing Error                                  | 0.2 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -31.1 dBW/Hz             |
| Max. Transmit EIRP                                      | 49.3 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°                  |
|------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| *<br>BW:   | (dbW/m <sup>2</sup><br>/BW): | (dbW/m <sup>2</sup><br>/BW): | (dbW/m <sup>2</sup><br>/BW): | (dbW/m <sup>2</sup><br>/BW): | (dbW/m <sup>2</sup><br>/BW): | (dbW/m <sup>2</sup><br>/BW): |
| 1.0<br>MHz | -134.4                       | -134.3                       | -134.1                       | -134.0                       | -133.9                       | -133.2                       |



Transmitting  
Beams 7:

| Question                                                | Response                 |
|---------------------------------------------------------|--------------------------|
| Beam ID                                                 | S02D                     |
| Transmit Beam Frequency                                 | 19700.0 MHz -20200.0 MHz |
| Beam Type                                               | Steerable                |
| Polarization                                            | RHCP                     |
| Peak Gain                                               | 44.2 dBi                 |
| Antenna Pointing Error                                  | 0.2 degrees              |
| Antenna Rotational Error                                | 0.1 degrees              |
| Polarization Switchable                                 |                          |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees             |
| Max. Transmit EIRP Density                              | -18.0 dBW/Hz             |
| Max. Transmit EIRP                                      | 60.8 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°                  |
|------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| *<br>BW:   | (dBW/m <sup>2</sup><br>/BW): | (dBW/m <sup>2</sup><br>/BW): | (dBW/m <sup>2</sup><br>/BW): | (dBW/m <sup>2</sup><br>/BW): | (dBW/m <sup>2</sup><br>/BW): | (dBW/m <sup>2</sup><br>/BW): |
| 1.0<br>MHz | -121.3                       | -121.2                       | -121.0                       | -120.9                       | -120.8                       | -120.1                       |

**Transmitting  
Channels (21)**

| <b>Channel ID</b> | <b>Channel Bandwidth (MHz)</b> | <b>Center Frequency s (MHz)</b> | <b>Feeder Link, Service Link or TT&amp;C</b> |
|-------------------|--------------------------------|---------------------------------|----------------------------------------------|
| <b>C10R</b>       | 110.0                          | 18880.0                         | Feeder Link                                  |
| <b>C11R</b>       | 110.0                          | 19005.0                         | Feeder Link                                  |
| <b>C8HC</b>       | 110.0                          | 19630.0                         | Feeder Link                                  |
| <b>C8FD</b>       | 110.0                          | 20145.0                         | Service Link                                 |
| <b>C7HC</b>       | 110.0                          | 19505.0                         | Feeder Link                                  |
| <b>C7FD</b>       | 110.0                          | 20020.0                         | Service Link                                 |
| <b>C2RD</b>       | 110.0                          | 17880.0                         | Feeder Link                                  |
| <b>C1RD</b>       | 110.0                          | 17755.0                         | Feeder Link                                  |
| <b>C9RD</b>       | 110.0                          | 18755.0                         | Feeder Link                                  |
| <b>C8RD</b>       | 110.0                          | 18630.0                         | Feeder Link                                  |
| <b>C7RD</b>       | 110.0                          | 18505.0                         | Feeder Link                                  |
| <b>C6RD</b>       | 110.0                          | 18380.0                         | Feeder Link                                  |
| <b>C6HC</b>       | 110.0                          | 19380.0                         | Feeder Link                                  |
| <b>C3RD</b>       | 110.0                          | 18005.0                         | Feeder Link                                  |
| <b>C4RD</b>       | 110.0                          | 18130.0                         | Feeder Link                                  |
| <b>C5FD</b>       | 110.0                          | 19770.0                         | Service Link                                 |
| <b>C5HC</b>       | 110.0                          | 19255.0                         | Feeder Link                                  |
| <b>C5RD</b>       | 110.0                          | 18255.0                         | Feeder Link                                  |
| <b>C6FD</b>       | 110.0                          | 19895.0                         | Service Link                                 |
| <b>C12R</b>       | 110.0                          | 19130.0                         | Feeder Link                                  |
| <b>L01D</b>       | 34.0                           | 1542.0                          | 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>Q5F3_Rx_LHCP_29570.gxt</u>       | SO2U | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |
| <u>Q5F3_Tx_RHCP_19770.gxt</u>       | S02D | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |
| <u>Q5F3_Tx_LHCP_19770.gxt</u>       | S01D | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |
| <u>Nom Feeder Tx RHCP_19700.gxt</u> | S03D | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |
| <u>Nom Feeder Tx LHCP_19700.gxt</u> | S04D | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |
| <u>Reg1_Q1F3 Tx LHCP_18505.gxt</u>  | S06D | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |
| <u>Reg1_Q1F3 Tx RHCP_18505.gxt</u>  | S05D | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |
| <u>Q5F3 Rx RHCP 29570.gxt</u>       | S01U | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |
| <u>Reg1_Q1F3 Rx RHCP_28180.gxt</u>  | S05U | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |
| <u>Reg1_Q1F3 Rx LHCP_28180.gxt</u>  | S06U | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |
| <u>Nom Feeder Rx LHCP_27500.gxt</u> | S04U | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |
| <u>Nom Feeder Rx RHCP_27500.gxt</u> | S03U | GSO Antenna Gain Contour Data | GXT file (*.gxt) |             |

