# EXHIBIT 11: GALAXY BSS-2 LINK BUDGETS

| | | | CLRSKY | DEGRADED |
|---|---|---|---|---|
| Carrier | Carrier Type | | 24MG7W | 24MG7W |
| | Modulation | | QPSK | QPSK |
| | Info Rate | Mbit/s | 26.65 | 26.65 |
| | FEC: | | 0.67 | 0.67 |
| | Noise BW: | MHz | 19.988 | 19.988 |
| | C/N required | dB | 4.1 | 4.1 |
| | Total Link Availability | % | | 99.60 |
| S/C Loc | Longitude | deg | -95.15 | -95.15 |
| Beam Polarization Frequency | Uplink Beam Name | | NRF | NRF |
| | Polarization (H, V or, C) | | C | C |
| | Uplink Frequency | GHz | 25 | 25 |
| | Downlink Beam Name | | NTF | NTF |
| | Polarization (H, V or, C) | | C | C |
| | Downlink Frequency | GHz | 17 | 17 |
| TX ES | Rain rate exceeded for 0.01% of the year | mm/h | 40 | 40 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 9.00 | 9.00 |
| | Transmit E/S peak gain (Eff=0.6) | dB | 65.2 | 65.2 |
| RX ES | Rain rate exceeded for 0.01% of the year | mm/h | 40 | 40 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 0.65 | 0.65 |
| | Receive E/S peak gain (Eff=0.6) | dB | 39.3 | 39.3 |
| | Receive Earth Station G/T | dB/K | 16.2 | 13.5 |
| Uplink Thermal | Carrier eirp | dBW | 79.2 | 82.6 |
| | Uplink PSD | dBW/Hz | -59.0 | -45.6 |
| | Transponder SFD (Beam Peak) | dBW/m2 | -86.0 | -86.0 |
| | Input Backoff | dB | 0.0 | 0.0 |
| | Uplink Path Loss, clear sky | dB | 212.7 | 212.7 |
| | Uplink gaseous attenuation | dB | 0.2 | 1.3 |
| | Uplink rain attenuation | dB | 0.0 | 13.4 |
| | Satellite G/T (Beam Peak) | dB/K | 6.5 | 6.5 |
| | Antenna relative gain towards E/S | dB | -2.0 | -2.0 |
| | C/N thermal uplink | dB | 26.5 | 25.4 |
| Downlink Thermal | S/C saturated EIRP (Beam Peak) | dBW | 54.0 | 54.0 |
| | Carrier Output backoff | dB | 0.0 | 0.0 |
| | Antenna relative gain towards Earth Station | dB | -2.0 | -2.0 |
| | Carrier EIRP towards Earth Station | dBW | 52.0 | 52.0 |
| | Downlink Path Loss, clear sky | dB | 209.3 | 209.3 |
| | Downlink gaseous attenuation | dB | 0.1 | 0.4 |
| | Downlink rain attenuation | dB | 0.0 | 3.8 |
| | Antenna Pointing error | dB | -0.3 | -0.3 |
| | Receive Earth Station G/T | dB/K | 16.2 | 13.5 |
| | C/N thermal downlink | dB | 14.0 | 7.2 |
| | PFD at Beam Peak | dBW/m2/MHz | -122.0 | -122.0 |
| Other | C/I (Intra-System Interference) | dB | 25.0 | 25.0 |
| ASI | Orbital Location for Intefering S/C #1 | deg | -91.00 | -91.00 |
| | Geocentric Separation (w/station keeping) | deg | 4.15 | 4.15 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 49.9 | 63.3 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 16.8 | 16.8 |
| | Orbital Location for interfering S/C #2 | deg | -99.00 | -99.00 |
| | Geocentric Separation (w/station keeping) | deg | 3.75 | 3.75 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 49.1 | 62.5 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 15.8 | 15.8 |
| Total | C/(N+I) | dB | 10.3 | 6.1 |
| | System Margin | dB | 6.2 | 2.0 |

# EXHIBIT 11: GALAXY BSS-2 LINK BUDGETS (continued)

| | | | CLRSKY | DEGRADED |
|---|---|---|---|---|
| Carrier | Carrier Type | | 380KG7W | 380KG7W |
| | Modulation | | BPSK | BPSK |
| | Info Rate | Mbit/s | 0.128 | 0.128 |
| | FEC: | | 0.50 | 0.50 |
| | Noise BW: | MHz | 0.266 | 0.266 |
| | C/N required | dB | 2.7 | 2.7 |
| | Total Link Availability | % | | 99.60 |
| S/C Loc | Longitude | deg | -95.15 | -95.15 |
| Beam Polarization Frequency | Uplink Beam Name | | NRF | NRF |
| | Polarization (H, V or, C) | | C | C |
| | Uplink Frequency | GHz | 25 | 25 |
| | Downlink Beam Name | | NTF | NTF |
| | Polarization (H, V or, C) | | C | C |
| | Downlink Frequency | GHz | 17 | 17 |
| TX ES | Rain rate exceeded for 0.01% of the year | mm/h | 40 | 40 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 0.65 | 0.65 |
| | Transmit E/S peak gain (Eff=0.65) | dB | 42.8 | 42.8 |
| RX ES | Rain rate exceeded for 0.01% of the year | mm/h | 40 | 40 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 9.00 | 9.00 |
| | Receive E/S peak gain (Eff=0.6) | dB | 62.2 | 62.2 |
| | Receive Earth Station G/T | dB/K | 39.0 | 36.1 |
| Uplink Thermal | Carrier eirp | dBW | 40.0 | 48.7 |
| | Uplink PSD | dBW/Hz | -57.0 | -48.3 |
| | Transponder SFD (Beam Peak) | dBW/m2 | -99.0 | -99.0 |
| | Input Backoff | dB | -26.2 | -26.2 |
| | Uplink Path Loss, clear sky | dB | 212.7 | 212.7 |
| | Uplink gaseous attenuation | dB | 0.2 | 1.3 |
| | Uplink rain attenuation | dB | 0.0 | 8.7 |
| | Satellite G/T (Beam Peak) | dB/K | 8.5 | 8.5 |
| | Antenna relative gain towards E/S | dB | -2.0 | -2.0 |
| | C/N thermal uplink | dB | 8.0 | 4.9 |
| Downlink Thermal | S/C saturated EIRP (Beam Peak) | dBW | 54.0 | 54.0 |
| | Carrier Output backoff | dB | -24.3 | -24.3 |
| | Antenna relative gain towards Earth Station | dB | -2.0 | -2.0 |
| | Carrier EIRP towards Earth Station | dBW | 27.7 | 27.7 |
| | Downlink Path Loss, clear sky | dB | 209.3 | 209.3 |
| | Downlink gaseous attenuation | dB | 0.1 | 0.4 |
| | Downlink rain attenuation | dB | 0.0 | 4.8 |
| | Antenna Pointing error | dB | -0.3 | -0.3 |
| | Receive Earth Station G/T | dB/K | 39.0 | 36.1 |
| | C/N thermal downlink | dB | 31.3 | 28.2 |
| | PFD at Beam Peak | dBW/m2/MHz | -127.6 | -127.6 |
| Other | C/I (Intra-System Interference) | dB | 20.0 | 20.0 |
| ASI | Orbital Location for Intefering S/C #1 | deg | -91.00 | -91.00 |
| | Geocentric Separation (w/station keeping) | deg | 4.15 | 4.15 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 29.5 | 38.2 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 34.7 | 34.7 |
| | Orbital Location for interfering S/C #2 | deg | -99.00 | -99.00 |
| | Geocentric Separation (w/station keeping) | deg | 3.75 | 3.75 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 28.6 | 37.3 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 33.6 | 33.6 |
| Total | C/(N+I) | dB | 5.8 | 4.7 |
| | System Margin | dB | 3.1 | 2.0 |

# EXHIBIT 11: GALAXY BSS-2 LINK BUDGETS (continued)

| | | | CLRSKY | DEGRADED |
|---|---|---|---|---|
| Carrier | Carrier Type | | 24MG7W | 24MG7W |
| | Modulation | | QPSK | QPSK |
| | Info Rate | Mbit/s | 26.65 | 26.65 |
| | FEC: | | 0.67 | 0.67 |
| | Noise BW: | MHz | 19.988 | 19.988 |
| | C/N required | dB | 4.1 | 4.1 |
| | Total Link Availability | % | | 99.60 |
| S/C Loc | Longitude | deg | -95.15 | -95.15 |
| Beam Polarization Frequency | Uplink Beam Name | | SRF | SRF |
| | Polarization (H, V or, C) | | C | C |
| | Uplink Frequency | GHz | 25 | 25 |
| | Downlink Beam Name | | STF | STF |
| | Polarization (H, V or, C) | | C | C |
| | Downlink Frequency | GHz | 17 | 17 |
| TX ES | Rain rate exceeded for 0.01% of the year | mm/h | 50 | 50 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 9.00 | 9.00 |
| | Transmit E/S peak gain (Eff=0.6) | dB | 65.2 | 65.2 |
| RX ES | Rain rate exceeded for 0.01% of the year | mm/h | 50 | 50 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 0.45 | 0.45 |
| | Receive E/S peak gain (Eff=0.6) | dB | 36.1 | 36.1 |
| | Receive Earth Station G/T | dB/K | 13.0 | 9.8 |
| Uplink Thermal | Carrier eirp | dBW | 79.2 | 94.0 |
| | Uplink PSD | dBW/Hz | -59.0 | -44.3 |
| | Transponder SFD (Beam Peak) | dBW/m2 | -86.0 | -86.0 |
| | Input Backoff | dB | 0.0 | 0.0 |
| | Uplink Path Loss, clear sky | dB | 212.7 | 212.7 |
| | Uplink gaseous attenuation | dB | 0.2 | 1.3 |
| | Uplink rain attenuation | dB | 0.0 | 14.7 |
| | Satellite G/T (Beam Peak) | dB/K | 6.5 | 6.5 |
| | Antenna relative gain towards E/S | dB | -2.0 | -2.0 |
| | C/N thermal uplink | dB | 26.5 | 25.4 |
| Downlink Thermal | S/C saturated EIRP (Beam Peak) | dBW | 60.0 | 60.0 |
| | Carrier Output backoff | dB | 0.0 | 0.0 |
| | Antenna relative gain towards Earth Station | dB | -2.0 | -2.0 |
| | Carrier EIRP towards Earth Station | dBW | 58.0 | 58.0 |
| | Downlink Path Loss, clear sky | dB | 209.3 | 209.3 |
| | Downlink gaseous attenuation | dB | 0.1 | 0.4 |
| | Downlink rain attenuation | dB | 0.0 | 6.5 |
| | Antenna Pointing error | dB | -0.3 | -0.3 |
| | Receive Earth Station G/T | dB/K | 13.0 | 9.8 |
| | C/N thermal downlink | dB | 18.8 | 6.8 |
| | PFD at Beam Peak | dBW/m2/MHz | -116.0 | -116.0 |
| Other | C/I (Intra-System Interference) | dB | 25.0 | 25.0 |
| ASI | Orbital Location for Intefering S/C #1 | deg | -91.00 | -91.00 |
| | Geocentric Separation (w/station keeping) | deg | 4.15 | 4.15 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 50.0 | 64.7 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 19.3 | 19.3 |
| | Orbital Location for interfering S/C #2 | deg | -99.00 | -99.00 |
| | Geocentric Separation (w/station keeping) | deg | 3.75 | 3.75 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 49.1 | 63.9 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 18.1 | 18.1 |
| Total | C/(N+I) | dB | 12.7 | 6.1 |
| | System Margin | dB | 8.6 | 2.0 |

# EXHIBIT 11: GALAXY BSS-2 LINK BUDGETS (continued)

| | | | CLRSKY | DEGRADED |
|---|---|---|---|---|
| Carrier | Carrier Type | | 360KG7W | 360KG7W |
| | Modulation | | BPSK | BPSK |
| | Info Rate | Mbit/s | 0.128 | 0.128 |
| | FEC: | | 0.50 | 0.50 |
| | Noise BW: | MHz | 0.266 | 0.266 |
| | C/N required | dB | 2.7 | 2.7 |
| | Total Link Availability | % | | 99.60 |
| S/C Loc | Longitude | deg | -95.15 | -95.15 |
| Beam Polarization Frequency | Uplink Beam Name | | SRF | SRF |
| | Polarization (H, V or, C) | | C | C |
| | Uplink Frequency | GHz | 25 | 25 |
| | Downlink Beam Name | | STF | STF |
| | Polarization (H, V or, C) | | C | C |
| | Downlink Frequency | GHz | 17 | 17 |
| TX ES | Rain rate exceeded for 0.01% of the year | mm/h | 50 | 50 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 0.65 | 0.65 |
| | Transmit E/S peak gain (Eff=0.65) | dB | 42.8 | 42.8 |
| RX ES | Rain rate exceeded for 0.01% of the year | mm/h | 50 | 50 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 9.00 | 9.00 |
| | Receive E/S peak gain (Eff=0.6) | dB | 62.2 | 62.2 |
| | Receive Earth Station G/T | dB/K | 39.0 | 35.7 |
| Uplink Thermal | Carrier eirp | dBW | 40.0 | 52.8 |
| | Uplink PSD | dBW/Hz | -57.0 | -44.2 |
| | Transponder SFD (Beam Peak) | dBW/m2 | -99.0 | -99.0 |
| | Input Backoff | dB | -28.2 | -28.2 |
| | Uplink Path Loss, clear sky | dB | 212.7 | 212.7 |
| | Uplink gaseous attenuation | dB | 0.2 | 1.3 |
| | Uplink rain attenuation | dB | 0.0 | 12.8 |
| | Satellite G/T (Beam Peak) | dB/K | 6.5 | 6.5 |
| | Antenna relative gain towards E/S | dB | -2.0 | -2.0 |
| | C/N thermal uplink | dB | 6.0 | 4.9 |
| Downlink Thermal | S/C saturated EIRP (Beam Peak) | dBW | 60.0 | 60.0 |
| | Carrier Output backoff | dB | -24.3 | -24.3 |
| | Antenna relative gain towards Earth Station | dB | -2.0 | -2.0 |
| | Carrier EIRP towards Earth Station | dBW | 33.7 | 33.7 |
| | Downlink Path Loss, clear sky | dB | 209.3 | 209.3 |
| | Downlink gaseous attenuation | dB | 0.1 | 0.4 |
| | Downlink rain attenuation | dB | 0.0 | 7.2 |
| | Antenna Pointing error | dB | -0.3 | -0.3 |
| | Receive Earth Station G/T | dB/K | 39.0 | 35.7 |
| | C/N thermal downlink | dB | 37.3 | 26.4 |
| | PFD at Beam Peak | dBW/m2/MHz | -121.6 | -121.6 |
| Other | C/I (Intra-System Interference) | dB | 20.0 | 20.0 |
| ASI | Orbital Location for Intefering S/C #1 | deg | -91.00 | -91.00 |
| | Geocentric Separation (w/station keeping) | deg | 4.15 | 4.15 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 29.5 | 42.3 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 40.7 | 40.7 |
| | Orbital Location for interfering S/C #2 | deg | -99.00 | -99.00 |
| | Geocentric Separation (w/station keeping) | deg | 3.75 | 3.75 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 28.8 | 41.5 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 39.6 | 39.6 |
| Total | C/(N+I) | dB | 5.8 | 4.8 |
| | System Margin | dB | 3.1 | 2.1 |

# EXHIBIT 11: GALAXY BSS-2 LINK BUDGETS (continued)

| | | | CLRSKY | DEGRADED |
|---|---|---|---|---|
| Carrier | Carrier Type | | 24MG7W | 24MG7W |
| | Modulation | | QPSK | QPSK |
| | Info Rate | Mbit/s | 26.65 | 26.65 |
| | FEC: | | 0.67 | 0.67 |
| | Noise BW: | MHz | 19.988 | 19.988 |
| | C/N required | dB | 4.1 | 4.1 |
| | Total Link Availability | % | | 99.65 |
| S/C Loc | Longitude | deg | -95.15 | -95.15 |
| Beam Polarization Frequency | Uplink Beam Name | | NRF | NRF |
| | Polarization (H, V or, C) | | C | C |
| | Uplink Frequency | GHz | 25 | 25 |
| | Downlink Beam Name | | STF | STF |
| | Polarization (H, V or, C) | | C | C |
| | Downlink Frequency | GHz | 17 | 17 |
| TX ES | Rain rate exceeded for 0.01% of the year | mm/h | 40 | 40 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 9.00 | 9.00 |
| | Transmit E/S peak gain (Eff=0.6) | dB | 66.2 | 66.2 |
| RX ES | Rain rate exceeded for 0.01% of the year | mm/h | 50 | 50 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 0.45 | 0.45 |
| | Receive E/S peak gain (Eff=0.6) | dB | 36.1 | 36.1 |
| | Receive Earth Station G/T | dB/K | 13.0 | 9.8 |
| Uplink Thermal | Carrier eirp | dBW | 79.2 | 91.3 |
| | Uplink PSD | dBW/Hz | -59.0 | -46.9 |
| | Transponder SFD (Beam Peak) | dBW/m2 | -86.0 | -86.0 |
| | Input Backoff | dB | 0.0 | 0.0 |
| | Uplink Path Loss, clear sky | dB | 212.7 | 212.7 |
| | Uplink gaseous attenuation | dB | 0.2 | 1.3 |
| | Uplink rain attenuation | dB | 0.0 | 12.1 |
| | Satellite G/T (Beam Peak) | dB/K | 6.5 | 6.5 |
| | Antenna relative gain towards E/S | dB | -2.0 | -2.0 |
| | C/N thermal uplink | dB | 26.5 | 25.4 |
| Downlink Thermal | S/C saturated EIRP (Beam Peak) | dBW | 60.0 | 60.0 |
| | Carrier Output backoff | dB | 0.0 | 0.0 |
| | Antenna relative gain towards Earth Station | dB | -2.0 | -2.0 |
| | Carrier EIRP towards Earth Station | dBW | 58.0 | 58.0 |
| | Downlink Path Loss, clear sky | dB | 209.3 | 209.3 |
| | Downlink gaseous attenuation | dB | 0.1 | 0.4 |
| | Downlink rain attenuation | dB | 0.0 | 6.5 |
| | Antenna Pointing error | dB | -0.3 | -0.3 |
| | Receive Earth Station G/T | dB/K | 13.0 | 9.8 |
| | C/N thermal downlink | dB | 16.8 | 6.8 |
| | PFD at Beam Peak | dBW/m2/MHz | -116.0 | -116.0 |
| Other | C/I (Intra-System Interference) | dB | 25.0 | 25.0 |
| ASI | Orbital Location for Intefering S/C #1 | deg | -91.00 | -91.00 |
| | Geocentric Separation (w/station keeping) | deg | 4.15 | 4.15 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 49.9 | 62.0 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 19.3 | 19.3 |
| | Orbital Location for interfering S/C #2 | deg | -99.00 | -99.00 |
| | Geocentric Separation (w/station keeping) | deg | 3.75 | 3.75 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 49.1 | 61.2 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 18.1 | 18.1 |
| Total | C/(N+I) | dB | 12.7 | 6.1 |
| | System Margin | dB | 8.6 | 2.0 |

# EXHIBIT 11: GALAXY BSS-2 LINK BUDGETS (continued)

| | | | CLRSKY | DEGRADED |
|---|---|---|---|---|
| Carrier | Carrier Type | | 48M0G7W | 48M0G7W |
| | Modulation | | 8PSK | 8PSK |
| | Info Rate | Mbit/s | 100 | 80 |
| | FEC: | | 0.83 | 0.67 |
| | Noise BW: | MHz | 40.000 | 40.000 |
| | C/N required | dB | 8.9 | 9.6 |
| | Total Link Availability | % | | 99.60 |
| S/C Loc | Longitude | deg | -95.15 | -95.15 |
| Beam Polarization Frequency | Uplink Beam Name | | SPOT | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Uplink Frequency | GHz | 25 | 25 |
| | Downlink Beam Name | | SPOT | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Downlink Frequency | GHz | 17 | 17 |
| TX ES | Rain rate exceeded for 0.01% of the year | mm/h | 80 | 80 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 9.00 | 9.00 |
| | Transmit E/S peak gain (Eff=0.6) | dB | 65.2 | 65.2 |
| RX ES | Rain rate exceeded for 0.01% of the year | mm/h | 80 | 80 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 0.75 | 0.75 |
| | Receive E/S peak gain (Eff=0.6) | dB | 40.5 | 40.5 |
| | Receive Earth Station G/T | dB/K | 17.4 | 14.1 |
| Uplink Thermal | Carrier eirp | dBW | 73.2 | 88.4 |
| | Uplink PSD | dBW/Hz | -88.0 | -52.8 |
| | Transponder SFD (Beam Peak) | dBW/m2 | -90.0 | -90.0 |
| | Input Backoff | dB | 0.0 | 0.0 |
| | Uplink Path Loss, clear sky | dB | 212.6 | 212.6 |
| | Uplink gaseous attenuation | dB | 0.2 | 1.3 |
| | Uplink rain attenuation | dB | 0.0 | 15.2 |
| | Satellite G/T (Beam Peak) | dB/K | 16.5 | 16.5 |
| | Antenna relative gain towards E/S | dB | 0.0 | 0.0 |
| | C/N thermal uplink | dB | 29.5 | 28.4 |
| Downlink Thermal | S/C saturated EIRP (Beam Peak) | dBW | 63.0 | 63.0 |
| | Carrier Output backoff | dB | 0.0 | 0.0 |
| | Antenna relative gain towards Earth Station | dB | 0.0 | 0.0 |
| | Carrier EIRP towards Earth Station | dBW | 63.0 | 63.0 |
| | Downlink Path Loss, clear sky | dB | 209.3 | 209.3 |
| | Downlink gaseous attenuation | dB | 0.1 | 0.4 |
| | Downlink rain attenuation | dB | 0.0 | 6.9 |
| | Antenna Pointing error | dB | -0.3 | -0.3 |
| | Receive Earth Station G/T | dB/K | 17.4 | 14.1 |
| | C/N thermal downlink | dB | 23.2 | 12.8 |
| | PFD at Beam Peak | dBW/m2/MHz | -116.0 | -116.0 |
| Other | C/I (Intra-System Interference) | dB | 20.0 | 20.0 |
| ASI | Orbital Location for Intefering S/C #1 | deg | -91.00 | -91.00 |
| | Geocentric Separation (w/station keeping) | deg | 4.15 | 4.15 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 40.9 | 56.1 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 26.1 | 26.1 |
| | Orbital Location for interfering S/C #2 | deg | -99.00 | -99.00 |
| | Geocentric Separation (w/station keeping) | deg | 3.75 | 3.75 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 40.1 | 55.3 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 24.9 | 24.9 |
| Total | C/(N+I) | dB | 16.6 | 11.6 |
| | System Margin | dB | 7.8 | 2.0 |

# EXHIBIT 11: GALAXY BSS-2 LINK BUDGETS (continued)

| | | | CLRSKY | DEGRADED |
|---|---|---|---|---|
| Carrier | Carrier Type | | 380KG7W | 380KG7W |
| | Modulation | | BPSK | BPSK |
| | Info Rate | Mbit/s | 0.128 | 0.128 |
| | FEC: | | 0.50 | 0.50 |
| | Noise BW: | MHz | 0.266 | 0.266 |
| | C/N required | dB | 2.7 | 2.7 |
| | Total Link Availability | % | | 99.60 |
| S/C Loc | Longitude | deg | -95.15 | -95.15 |
| Beam Polarization Frequency | Uplink Beam Name | | SPOT | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Uplink Frequency | GHz | 25 | 25 |
| | Downlink Beam Name | | SPOT, | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Downlink Frequency | GHz | 17 | 17 |
| TX ES | Rain rate exceeded for 0.01% of the year | mm/h | 80 | 80 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 0.45 | 0.45 |
| | Transmit E/S peak gain (Eff=0.65) | dB | 39.5 | 39.5 |
| RX ES | Rain rate exceeded for 0.01% of the year | mm/h | 80 | 80 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 9.00 | 9.00 |
| | Receive E/S peak gain (Eff=0.6) | dB | 62.1 | 62.1 |
| | Receive Earth Station G/T | dB/K | 38.9 | 35.5 |
| Uplink Thermal | Carrier eirp | dBW | 28.9 | 43.7 |
| | Uplink PSD | dBW/Hz | -84.8 | -50.1 |
| | Transponder SFD (Beam Peak) | dBW/m2 | -90.0 | -90.0 |
| | Input Backoff | dB | -44.3 | -44.3 |
| | Uplink Path Loss, clear sky | dB | 212.6 | 212.6 |
| | Uplink gaseous attenuation | dB | 0.2 | 1.3 |
| | Uplink rain attenuation | dB | 0.0 | 14.8 |
| | Satellite G/T (Beam Peak) | dB/K | 16.5 | 16.5 |
| | Antenna relative gain towards E/S | dB | 0.0 | 0.0 |
| | C/N thermal uplink | dB | 7.0 | 5.9 |
| Downlink Thermal | S/C saturated EIRP (Beam Peak) | dBW | 63.0 | 63.0 |
| | Carrier Output backoff | dB | -42.4 | -42.4 |
| | Antenna relative gain towards Earth Station | dB | 0.0 | 0.0 |
| | Carrier EIRP towards Earth Station | dBW | 20.6 | 20.6 |
| | Downlink Path Loss, clear sky | dB | 209.3 | 209.3 |
| | Downlink gaseous attenuation | dB | 0.1 | 0.4 |
| | Downlink rain attenuation | dB | 0.0 | 8.5 |
| | Antenna Pointing error | dB | -0.3 | -0.3 |
| | Receive Earth Station G/T | dB/K | 38.9 | 35.5 |
| | C/N thermal downlink | dB | 24.2 | 11.9 |
| | PFD at Beam Peak | dBW/m2/MHz | -136.6 | -136.6 |
| Other | C/I (Intra-System Interference) | dB | 20.0 | 20.0 |
| ASI | Orbital Location for Intefering S/C #1 | deg | -91.00 | -91.00 |
| | Geocentric Separation (w/station keeping) | deg | 4.15 | 4.15 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 18.4 | 33.2 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 27.6 | 27.6 |
| | Orbital Location for interfering S/C #2 | deg | -99.00 | -99.00 |
| | Geocentric Separation (w/station keeping) | deg | 3.75 | 3.75 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 17.6 | 32.4 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 26.5 | 26.5 |
| Total | C/(N+I) | dB | 6.0 | 4.7 |
| | System Margin | dB | 3.3 | 2.0 |

# EXHIBIT 11: GALAXY BSS-2 LINK BUDGETS (continued)

| | | | CLRSKY | DEGRADED |
|---|---|---|---|---|
| Carrier | Carrier Type | | 48M0G7W | 48M0G7W |
| | Modulation | | 8PSK | 8PSK |
| | Info Rate | Mbit/s | 100 | 80 |
| | FEC: | | 0.83 | 0.67 |
| | Noise BW: | MHz | 40.000 | 40.000 |
| | C/N required | dB | 8.9 | 9.6 |
| | Total Link Availability | % | | 99.50 |
| S/C Loc | Longitude | deg | -95.15 | -95.15 |
| Beam Polarization Frequency | Uplink Beam Name | | SPOT | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Uplink Frequency | GHz | 25 | 25 |
| | Downlink Beam Name | | SPOT | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Downlink Frequency | GHz | 17 | 17 |
| TX ES | Rain rate exceeded for 0.01% of the year | mm/h | 50 | 50 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 9.00 | 9.00 |
| | Transmit E/S peak gain (Eff=0.6) | dB | 65.2 | 65.2 |
| RX ES | Rain rate exceeded for 0.01% of the year | mm/h | 50 | 50 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 0.75 | 0.75 |
| | Receive E/S peak gain (Eff=0.6) | dB | 40.5 | 40.5 |
| | Receive Earth Station G/T | dB/K | 17.4 | 14.7 |
| Uplink Thermal | Carrier eirp | dBW | 73.2 | 93.1 |
| | Uplink PSD | dBW/Hz | -88.0 | -48.1 |
| | Transponder SFD (Beam Peak) | dBW/m2 | -90.0 | -90.0 |
| | Input Backoff | dB | 0.0 | 0.0 |
| | Uplink Path Loss, clear sky | dB | 212.6 | 212.6 |
| | Uplink gaseous attenuation | dB | 0.2 | 1.3 |
| | Uplink rain attenuation | dB | 0.0 | 19.9 |
| | Satellite G/T (Beam Peak) | dB/K | 16.5 | 16.5 |
| | Antenna relative gain towards E/S | dB | 0.0 | 0.0 |
| | C/N thermal uplink | dB | 29.5 | 28.4 |
| Downlink Thermal | S/C saturated EIRP (Beam Peak) | dBW | 60.0 | 60.0 |
| | Carrier Output backoff | dB | 0.0 | 0.0 |
| | Antenna relative gain towards Earth Station | dB | 0.0 | 0.0 |
| | Carrier EIRP towards Earth Station | dBW | 60.0 | 60.0 |
| | Downlink Path Loss, clear sky | dB | 209.3 | 209.3 |
| | Downlink gaseous attenuation | dB | 0.1 | 0.4 |
| | Downlink rain attenuation | dB | 0.0 | 3.9 |
| | Antenna Pointing error | dB | -0.3 | -0.3 |
| | Receive Earth Station G/T | dB/K | 17.4 | 14.7 |
| | C/N thermal downlink | dB | 20.2 | 13.3 |
| | PFD at Beam Peak | dBW/m2/MHz | -119.0 | -119.0 |
| Other | C/I (Intra-System Interference) | dB | 20.0 | 20.0 |
| ASI | Orbital Location for Intefering S/C #1 | deg | -91.00 | -91.00 |
| | Geocentric Separation (w/station keeping) | deg | 4.15 | 4.15 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 40.9 | 60.8 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 23.1 | 23.1 |
| | Orbital Location for interfering S/C #2 | deg | -99.00 | -99.00 |
| | Geocentric Separation (w/station keeping) | deg | 3.75 | 3.75 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 40.1 | 60.0 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 21.9 | 21.9 |
| Total | C/(N+I) | dB | 14.9 | 11.8 |
| | System Margin | dB | 6.1 | 2.0 |

# EXHIBIT 11: GALAXY BSS-2 LINK BUDGETS (continued)

| | | | CLRSKY | DEGRADED |
|---|---|---|---|---|
| Carrier | Carrier Type | | 36DKG7W | 36DKG7W |
| | Modulation | | BPSK | BPSK |
| | Info Rate | Mbit/s | 0.128 | 0.128 |
| | FEC: | | 0.50 | 0.50 |
| | Noise BW: | MHz | 0.266 | 0.266 |
| | C/N required | dB | 2.7 | 2.7 |
| | Total Link Availability | % | | 99.60 |
| S/C Loc | Longitude | deg | -95.15 | -95.15 |
| Beam Polarization Frequency | Uplink Beam Name | | SPOT | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Uplink Frequency | GHz | 25 | 25 |
| | Downlink Beam Name | | SPOT | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Downlink Frequency | GHz | 17 | 17 |
| TX ES | Rain rate exceeded for 0.01% of the year | mm/h | 50 | 50 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 0.75 | 0.75 |
| | Transmit E/S peak gain (Eff=0.65) | dB | 44.0 | 44.0 |
| RX ES | Rain rate exceeded for 0.01% of the year | mm/h | 50 | 50 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 9.00 | 9.00 |
| | Receive E/S peak gain (Eff=0.6) | dB | 62.1 | 62.1 |
| | Receive Earth Station G/T | dB/K | 38.9 | 38.9 |
| Uplink Thermal | Carrier eirp | dBW | 29.0 | 39.5 |
| | Uplink PSD | dBW/Hz | -89.2 | -58.7 |
| | Transponder SFD (Beam Peak) | dBW/m2 | -90.0 | -90.0 |
| | Input Backoff | dB | -44.2 | -44.2 |
| | Uplink Path Loss, clear sky | dB | 212.6 | 212.6 |
| | Uplink gaseous attenuation | dB | 0.2 | 1.3 |
| | Uplink rain attenuation | dB | 0.0 | 10.5 |
| | Satellite G/T (Beam Peak) | dB/K | 16.5 | 16.5 |
| | Antenna relative gain towards E/S | dB | 0.0 | 0.0 |
| | C/N thermal uplink | dB | 7.1 | 6.0 |
| Downlink Thermal | S/C saturated EIRP (Beam Peak) | dBW | 60.0 | 60.0 |
| | Carrier Output backoff | dB | -42.3 | -42.3 |
| | Antenna relative gain towards Earth Station | dB | 0.0 | 0.0 |
| | Carrier EIRP towards Earth Station | dBW | 17.7 | 17.7 |
| | Downlink Path Loss, clear sky | dB | 209.3 | 209.3 |
| | Downlink gaseous attenuation | dB | 0.1 | 0.4 |
| | Downlink rain attenuation | dB | 0.0 | 5.9 |
| | Antenna Pointing error | dB | -0.3 | -0.3 |
| | Receive Earth Station G/T | dB/K | 38.9 | 38.9 |
| | C/N thermal downlink | dB | 21.3 | 12.0 |
| | PFD at Beam Peak | dBW/m2/MHz | -139.6 | -139.6 |
| Other | C/I (Intra-System Interference) | dB | 20.0 | 20.0 |
| ASI | Orbital Location for Intefering S/C #1 | deg | -91.00 | -91.00 |
| | Geocentric Separation (w/station keeping) | deg | 4.15 | 4.15 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 18.5 | 29.0 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 24.7 | 24.7 |
| | Orbital Location for interfering S/C #2 | deg | -99.00 | -99.00 |
| | Geocentric Separation (w/station keeping) | deg | 3.75 | 3.75 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 17.6 | 28.1 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 23.6 | 23.6 |
| Total | C/(N+I) | dB | 6.0 | 4.7 |
| | System Margin | dB | 3.3 | 2.0 |

# EXHIBIT 11: GALAXY BSS-2 LINK BUDGETS (continued)

| | | | CLRSKY | DEGRADED |
|---|---|---|---|---|
| Carrier | Carrier Type | | 48M0G7W | 48M0G7W |
| | Modulation | | 8PSK | 8PSK |
| | Info Rate | Mbit/s | 100 | 80 |
| | FEC: | | 0.83 | 0.67 |
| | Noise BW: | MHz | 40.000 | 40.000 |
| | C/N required | dB | 8.9 | 9.6 |
| | Total Link Availability | % | | 99.50 |
| S/C Loc | Longitude | deg | -95.15 | -95.15 |
| Beam Polarization Frequency | Uplink Beam Name | | SPOT | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Uplink Frequency | GHz | 25 | 25 |
| | Downlink Beam Name | | SPOT | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Downlink Frequency | GHz | 17 | 17 |
| TX ES | Rain rate exceeded for 0.01% of the year | mm/h | 20 | 20 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 9.00 | 9.00 |
| | Transmit E/S peak gain (Eff=0.6) | dB | 65.2 | 65.2 |
| RX ES | Rain rate exceeded for 0.01% of the year | mm/h | 20 | 20 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 0.80 | 0.80 |
| | Receive E/S peak gain (Eff=0.6) | dB | 41.1 | 41.1 |
| | Receive Earth Station G/T | dB/K | 17.9 | 16.2 |
| Uplink Thermal | Carrier eirp | dBW | 73.2 | 81.7 |
| | Uplink PSD | dBW/Hz | -88.0 | -59.5 |
| | Transponder SFD (Beam Peak) | dBW/m2 | -90.0 | -90.0 |
| | Input Backoff | dB | 0.0 | 0.0 |
| | Uplink Path Loss, clear sky | dB | 212.6 | 212.6 |
| | Uplink gaseous attenuation | dB | 0.2 | 1.3 |
| | Uplink rain attenuation | dB | 0.0 | 8.6 |
| | Satellite G/T (Beam Peak) | dB/K | 16.5 | 16.5 |
| | Antenna relative gain towards E/S | dB | 0.0 | 0.0 |
| | C/N thermal uplink | dB | 29.5 | 28.4 |
| Downlink Thermal | S/C saturated EIRP (Beam Peak) | dBW | 57.0 | 57.0 |
| | Carrier Output backoff | dB | 0.0 | 0.0 |
| | Antenna relative gain towards Earth Station | dB | 0.0 | 0.0 |
| | Carrier EIRP towards Earth Station | dBW | 57.0 | 57.0 |
| | Downlink Path Loss, clear sky | dB | 209.3 | 209.3 |
| | Downlink gaseous attenuation | dB | 0.1 | 0.4 |
| | Downlink rain attenuation | dB | 0.0 | 1.6 |
| | Antenna Pointing error | dB | -0.3 | -0.3 |
| | Receive Earth Station G/T | dB/K | 17.9 | 16.2 |
| | C/N thermal downlink | dB | 17.8 | 14.2 |
| | PFD at Beam Peak | dBW/m2/MHz | -122.0 | -122.0 |
| Other | C/I (Intra-System Interference) | dB | 20.0 | 20.0 |
| ASI | Orbital Location for Intefering S/C #1 | deg | -91.00 | -91.00 |
| | Geocentric Separation (w/station keeping) | deg | 4.15 | 4.15 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 40.9 | 49.4 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 20.7 | 20.7 |
| | Orbital Location for interfering S/C #2 | deg | -99.00 | -99.00 |
| | Geocentric Separation (w/station keeping) | deg | 3.75 | 3.75 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 40.1 | 48.6 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 19.5 | 19.5 |
| Total | C/(N+I) | dB | 13.2 | 11.6 |
| | System Margin | dB | 4.3 | 2.0 |

# EXHIBIT 11: GALAXY BSS-2 LINK BUDGETS (continued)

| | | | CLRSKY | DEGRADED |
|---|---|---|---|---|
| Carrier | Carrier Type | | 36OKG7W | 36OKG7W |
| | Modulation | | BPSK | BPSK |
| | Info Rate | Mbit/s | 0.128 | 0.128 |
| | FEC: | | 0.50 | 0.50 |
| | Noise BW: | MHz | 0.266 | 0.266 |
| | C/N required | dB | 2.7 | 2.7 |
| | Total Link Availability | % | | 99.60 |
| S/C Loc | Longitude | deg | -95.15 | -95.15 |
| Beam Polarization Frequency | Uplink Beam Name | | SPOT | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Uplink Frequency | GHz | 25 | 25 |
| | Downlink Beam Name | | SPOT | SPOT |
| | Polarization (H, V or, C) | | C | C |
| | Downlink Frequency | GHz | 17 | 17 |
| TX ES | Rain rate exceeded for 0.01% of the year | mm/h | 20 | 20 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 0.80 | 0.80 |
| | Transmit E/S peak gain (Eff=0.65) | dB | 44.5 | 44.5 |
| RX ES | Rain rate exceeded for 0.01% of the year | mm/h | 20 | 20 |
| | E/S Elevation angle | deg | 30.0 | 30.0 |
| | E/S size | m | 9.00 | 9.00 |
| | Receive E/S peak gain (Eff=0.6) | dB | 62.1 | 62.1 |
| | Receive Earth Station G/T | dB/K | 38.9 | 38.8 |
| Uplink Thermal | Carrier eirp | dBW | 29.0 | 33.5 |
| | Uplink PSD | dBW/Hz | -89.8 | -85.3 |
| | Transponder SFD (Beam Peak) | dBW/m2 | -90.0 | -90.0 |
| | Input Backoff | dB | -44.3 | -44.3 |
| | Uplink Path Loss, clear sky | dB | 212.6 | 212.6 |
| | Uplink gaseous attenuation | dB | 0.2 | 1.3 |
| | Uplink rain attenuation | dB | 0.0 | 4.5 |
| | Satellite G/T (Beam Peak) | dB/K | 16.5 | 16.5 |
| | Antenna relative gain towards E/S | dB | 0.0 | 0.0 |
| | C/N thermal uplink | dB | 7.1 | 5.9 |
| Downlink Thermal | S/C saturated EIRP (Beam Peak) | dBW | 57.0 | 57.0 |
| | Carrier Output backoff | dB | -42.4 | -42.4 |
| | Antenna relative gain towards Earth Station | dB | 0.0 | 0.0 |
| | Carrier EIRP towards Earth Station | dBW | 14.6 | 14.6 |
| | Downlink Path Loss, clear sky | dB | 209.3 | 209.3 |
| | Downlink gaseous attenuation | dB | 0.1 | 0.4 |
| | Downlink rain attenuation | dB | 0.0 | 2.4 |
| | Antenna Pointing error | dB | -0.3 | -0.3 |
| | Receive Earth Station G/T | dB/K | 38.9 | 38.8 |
| | C/N thermal downlink | dB | 18.2 | 13.4 |
| | PFD at Beam Peak | dBW/m2/MHz | -142.6 | -142.6 |
| Other | C/I (Intra-System Interference) | dB | 20.0 | 20.0 |
| ASI | Orbital Location for Intefering S/C #1 | deg | -91.00 | -91.00 |
| | Geocentric Separation (w/station keeping) | deg | 4.15 | 4.15 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 18.5 | 22.9 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 21.7 | 21.7 |
| | Orbital Location for interfering S/C #2 | deg | -99.00 | -99.00 |
| | Geocentric Separation (w/station keeping) | deg | 3.75 | 3.75 |
| | Interfering Uplink power density | dBW/Hz | -56.5 | -56.5 |
| | Interfering D/L eirp density | dBW/Hz | -12.0 | -12.0 |
| | C/I ASI uplink | dB | 17.6 | 22.1 |
| | C/I ASI downlink (w/Rx antenna pointing error) | dB | 20.5 | 20.5 |
| Total | C/(N+I) | dB | 5.7 | 4.7 |
| | System Margin | dB | 3.0 | 2.0 |