

## RF Beacon Link Budget

| Link Parameters                             | On-Station |
|---------------------------------------------|------------|
| Frequency (MHz)                             | 17,799.75  |
| Tx E/S Antenna Gain (dBi)                   | 64.0       |
| Power to Tx E/S Antenna (dBW)               | -5.2       |
| Tx E/S EIRP (dBW)                           | 58.8       |
| Polarization Loss (dB)                      | 0.0        |
| Free Space Path Loss (dB)                   | 209.3      |
| Incident Flux Density (dBW/m <sup>2</sup> ) | -104.0     |
| Antenna Gain (dBi)                          | 48.4       |
| Total Receive Losses (dB)                   | 13.0       |
| Satellite G/T (dB/K)                        | 5.4        |
| Received C/N (dB)                           | 23.5       |
| Required C/N (dB)                           | 14.0       |
| Spacecraft Margin (dB)                      | 9.5        |