

| <b>Command Link Budget (Transfer and Emergency)</b> |                       |        |
|---|-----------------------|--------|
| <b>Link Parameters</b>                              |                       |        |
| Frequency   | (MHz)                 | 28,351 |
| Incident Flux Density                               | (dBW/m <sup>2</sup> ) | -80.0  |
| Aperture Factor                                     | (dB-m <sup>2</sup> )  | -50.5  |
| Incident Isotropic Power                            | (dBW)                 | -130.5 |
| Antenna Gain (EOC)                                  | (dBi)                 | 0.0    |
| Noise Temperature                                   | (dB-K)                | 39.2   |
| Total Receive Losses                                | (dB)                  | 5.0    |
| Satellite G/T                                       | (dB/K)                | -39.2  |
| Receiver Input Power                                | (dBW)                 | -135.5 |
| Receiver Threshold                                  | (dBW)                 | -140.0 |
| Spacecraft Margin                                   | (dB)                  | 4.5    |