

## Command Link Budget (On Station)

| Link Parameters          |                       | High U/L | Low U/L |
|--------------------------|-----------------------|----------|---------|
| Frequency                | (MHz)                 | 25,249   | 25,249  |
| Incident Flux Density    | (dBW/m <sup>2</sup> ) | -80.0    | -95.0   |
| Aperture Factor          | (dB-m <sup>2</sup> )  | -49.5    | -49.5   |
| Incident Isotropic Power | (dBW)                 | -129.5   | -144.5  |
| Antenna Gain (EOC)       | (dBi)                 | 16.7     | 16.7    |
| Noise Temperature        | (dB-K)                | 33.8     | 33.8    |
| Total Receive Losses     | (dB)                  | 7.0      | 7.0     |
| Satellite G/T            | (dB/K)                | -17.1    | -17.1   |
| Receiver Input Power     | (dBm)                 | -89.8    | -104.8  |
| Receiver Threshold       | (dBm)                 | -110.0   | -110.0  |
| Spacecraft Margin        | (dB)                  | 20.2     | 5.2     |