

**Table CMD. Tele-Command Link Budgets**

	<b>On Station - MIN</b>	<b>On Station- MAX</b>	<b>Emergency- MIN, Omni</b>	<b>Emergency- MAX, Omni</b>
<b>Uplink Frequency (MHz)</b>	24751.50	24751.50	24751.50	24751.50
<b>Singal occupied bandwidth (MHz)</b>	1.00	1.00	1.00	1.00
<b>Uplink PFD min (dBW/m<sup>2</sup>/carrier)</b>	-105.00	-75.00	-80.00	-70.00
<b>Input power (dBW)</b>	-7.49	22.51	15.77	25.77
<b>Tx Antenna Diameter (m)</b>	9.00	9.00	11.00	11.00
<b>Tx Antenna Efficiency</b>	0.65	0.65	0.65	0.65
<b>Tx Antenna Gain (dB)</b>	65.49	65.49	67.23	67.23
<b>Mispointing loss (dB)</b>	0.50	0.50	0.50	0.50
<b>Uplink Path loss (dB)</b>	212.00	212.00	212.00	212.00
<b>Uplink Rain Attenuation (dB)</b>	0.00	0.00	0.00	0.00
<b>Satellite antenna G/T at beam peak (dB/K)</b>	8.00	8.00	-35.00	-35.00
<b>Beam roll-off at TT&amp;C station (dB)</b>	5.00	5.00	0.00	0.00
<b>Satellite antenna G/T (dB/K)</b>	3.00	3.00	-35.00	-35.00
<b>Boltzmanns constant</b>	-228.60	-228.60	-228.60	-228.60
<b>(C/N)<sub>Uplink Thermal</sub> (dB)</b>	17.10	47.10	4.10	14.10
<b>(C/N)<sub>ASI</sub> (dB)</b>	30.00	30.00	30.00	30.00
<b>(C/I)<sub>intrasystem</sub> (dB)</b>	30.00	30.00	30.00	30.00
<b>C/(N+I)<sub>total</sub> (dB)</b>	16.68	26.95	4.08	13.88