

**Question 4: Directional Antenna Parameters**

In this application, Bigelow Aerospace seeks to add to its testing program two additional ground uplink stations in the VHF band at 145.84 MHz and 145.86 MHz for its existing North Las Vegas, Nevada and Fairfax, Virginia facilities. These will be directionalized tracking antennas used for command and control of the Genesis spacecraft. The antennas will employ circular polarization and variable reactance modulation. The beamwidth at the half power point will be 52 degrees. Additional technical parameters are provided on FCC Form 442.