**COM**

The communication subsystem provides a method of verification for the completion of each mission phase. It also provides a way to maintain communication with the primary spacecraft and serves as a means to power on and off the LEDs on the secondary spacecraft. Data sent over the RF link would be relative distances and velocities, images from the payload, and primary spacecraft health. Boeing is providing the communication subsystem on the primary spacecraft and the communication subsystem on the secondary spacecraft consists of an RF receiver and patch antenna.

The primary spacecraft will be sending down relative distances and velocities, images from the payload, and primary spacecraft health and a communication system to support the transfer of that data. The radio will be operating in the 430/440 MHz range using GMSK modulation. The uplink data rate will be at least 4000 bps and the downlink data rate will be at least 100 kbps.

**CDH**