

Exhibit A
Program Description

Demonstration of a 18 inch antenna and associated communication equipment to access and track a commercial Ku-Band satellite while on a mobile platform. Demonstration of a 18 inch antenna and associated communication equipment to access and track a commercial Ku-Band satellite while on a mobile platform. We plan to equip one vehicle with the aforementioned 18 inch satellite terminal. Experiments of this type will be conducted while driving the mobile platform within the radii of the specified locations at various times during the licensing period. A duplex communications link will be established with a fixed 2.4 meter Ku-Band antenna located in Gaithersburg, Maryland. We have a separate license for the 2.4 meter terminal under license SES-LIC-20060629-01090. These links will be used to demonstrate the ability of the proposed system to access commercial Ku-Band Geostationary satellites. Communications services that would be demonstrated would be duplex 256 kbp/s and 512 kbp/s digital data links over a Ku-Band satellite, as well as over unbalanced links, with as much as 1024 kbit/s to the mobile and 512 kbit/s from the mobile. The modulation will be BPSK spread spectrum with selectable spreading from 0 to 12 dB (7.170 MHz maximum occupied bandwidth) to allow the EIRP density to accommodate the antenna's sidelobe characteristics and meet the off-axis emission requirements. Vehicles will be equipped with the Vertex mdl 20 18 inch mobile Ku Satcom antenna.