

EXHIBIT 2
DIRECTIONAL ANTENNA AND
MODULATING SIGNAL FORMATION

Fixed Antennas:

- (i) Width of beam in degrees at the half-power point: 31.2° (vertical) 30.1° (horizontal)
- (ii) Orientation in horizontal plane (degrees): ranges from 180° to 315°
- (iii) Orientation in vertical plane (degrees): 0°

Mobile Antenna:

- (i) Width of beam in degrees at the half-power point: 31.2° (vertical) 30.1° (horizontal)
- (ii) Orientation in horizontal plane (degrees): ranges from 0° to 135°
- (iii) Orientation in vertical plane (degrees): 0°

Modulating Signal Information:

All three antennas will use a Quadrature Phase Shift Keying modulation scheme that occupies a specified bandwidth about a variable carrier frequency. The maximum speed for keying is 48,056,250 bauds.