

Exhibit 1

- (a) The proposed experimentation will investigate a bandwidth efficiency technique which uses two transmit antennas in an interferometer arrangement and a single receive antenna. In the course of the experimentation, null depth and stability as a function of the receive antenna placement will be investigated. The transmit antennas will remain at a fixed separation during testing with the receive antenna capable of being repositioned along a 40 ft. track, transverse to the direction of signal propagation. Each Transmit antenna will be connected to a transmitter. The transceivers being used are commercial units manufactured by Sierra Digital and the antennas are 4 ft. diameter prime focus parabolic antennas manufactured by Andrew Corporation. The antennas are sized to provide the S/N required.
- (b) The objective of this experiment is to improve terrestrial line of sight capacity by a factor of two.
- (c) Variations of this technique could be applicable to space and ground systems where increased data rates are required.