

Exhibit A

This is experimental and the modulation type has not been determined. The first design will use transponders which are similar to the present aircraft transponders used for Secondary Surveillance Radar (SSR) etc. This requires a bandwidth of approximately 6 MHz. (Frequency accuracy is 3 MHz.)

Exhibit B

The purpose of this application is to further develop an aircraft collision avoidance system. The concept has been proven utilizing VHF aircraft radios sending data. Because these radios are VHF AMPLITUDE MODULATED the data throughput is minimal (1200 baud), while greater than 50 kilobaud will be needed. A dedicated frequency will eventually be needed enabling all aircraft to communicate various data with each other and on a common dedicated radio channel.