



Exhibit: Narrative Statement for Question 7 of Form 442

a. The complete program of research and experimentation proposed, including description of equipment and theory of operation.

Aireon utilizes a LEO satellite network to collect Automatic Dependent Surveillance Broadcast (ADSB) signals from all commercial aircraft as part of reporting position data and flight tracks for Air Traffic Control (ATC) separation and surveillance operations with international global Air Navigation Service Providers (ANSP). This data is normally distributed to global ATC centers via terrestrial MPLS lines and needs to meet stringent quality and performance requirements as stated in various International Avionic Standards to include DO-260C, ED-129C and Eurocontrol Asterix CAT021. The experimentation is in applying VSAT technology as a data delivery mechanism for ADSB signals transmitted to ATC centers.

b. The specific objectives sought to be accomplished.

Aireon is proposing utilizing a Ku-band VSAT network for the distribution of the ADSB data to global ATC centers in conjunction with the existing terrestrial MPLS links. The VSAT network would add additional resilience and flexibility as a data delivery mechanism for sites that are challenged from supporting reliable or diverse terrestrial networks (i.e. remote areas in Africa, Asia, North and South America, Australia, Middle East, etc.).

c. How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along line not already investigated.

By verifying that the data being sent over Ku-band VSAT links can meet the error rate, availability and latency requirements as specified for ATC applications, Aireon would be able to both validate the utilization of VSAT technology in ADSB data delivery, as well as monitor the performance of the network independently with our laboratory VSAT system when provisioning and testing the service for global ANSP providers.