

Boom Technology, Inc.
12876 E Adam Aircraft Circle
Englewood, CO 80112

FEDERAL COMMUNICATIONS COMMISSION
1270 Fairfield Road
Gettysburg PA 17325-7245

Application Narrative for Proposed Equipment

Company Background:

Boom Technology, Inc. is a commercial supersonic aircraft manufacturer located in Denver, Colorado. The company is currently developing its subscale prototype XB-1 demonstrator aircraft, scheduled to begin testing in late 2019 and fly to a speed of Mach 2.2. The XB-1 effort is being conducted in parallel and with the longer-term development of Boom's 55-75 passenger Part 25 supersonic aircraft, Overture. More on Boom's background and charter can be found at: <https://boomsupersonic.com>

Proposed Program:

The proposed program to bring GPS signal availability into our hangar and manufacturing area will provide a needed indoor, controlled location for assembling and testing the XB-1 aircraft which includes numerous GPS-enabled flight deck and instrumentation devices. The indoor availability of GPS will also provide a location for performing XB-1 maintenance on the GPS enabled products and devices.

We propose to re-radiate GPS signals for indoor hangar availability using the GPSRKL12 Repeater Assembly kit procured from GPS Source. This kit comprises an externally mounted GPS receiving antenna, GPS signal amplifier with 30dB gain and an internally mounted GPS transmission antenna. More information on the equipment can be found at: <https://www.gpssource.com/collections/gps-repeater-kits/products/1112-gps-repeater-assembly>