

Boom Technology, Inc.
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FEDERAL COMMUNICATIONS COMMISSION
1270 Fairfield Road
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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 L1/L2 signals for indoor hangar availability using the GPSRKL12 Repeater Assembly kit procured from GPS Source. This kit comprises an externally mounted GPS L1/L2 receiving antenna, GPS L1/L2 signal amplifier with 30dB gain and an internally mounted GPS L1/L2 transmission antenna. More information on the equipment can be found at: <https://www.gpssource.com/collections/gps-repeater-kits/products/l1l2-gps-repeater-assembly>