

June 29, 2020

In re Application of

Boom Technology, Inc.  
12876 East Adam Aircraft Circle  
Englewood, Colorado 80112

To operate in the 2200-2290MHz Telemetry Band in Centennial, Colorado.

ATTN.: Microwave Branch

Boom Technology, Inc., hereby requests Special Temporary Authority (STA) to operate within the 2200-2290MHz telemetry band pursuant to Section 21.25 of the Commission's Rules. Boom Technology, Inc., requests that the Commission grant it temporary authority to operate on the frequency centered at 2280MHz with a 20MHz bandwidth from September 15, 2020 through September 14, 2021 with intermittent usage. As explained below, Boom Technology, Inc., is filing an STA request to test and evaluate Silvus Technologies Inc., radios in a MANET / MESH networking scenario as it relates to flight telemetry while developing experimental aircraft. Boom Technology, Inc., submits that there are extraordinary circumstances warranting a grant of the STA request.

Boom Technology, Inc., is developing experimental supersonic passenger aircraft and experimenting with MANET / MIMO microwave technology for transmitting and receiving flight telemetry. Due to the extreme frequency congestion in the Denver / Colorado Springs area, Boom Technology, Inc., requests the use of this channel.

Boom Technology, Inc., certifies that the operation of the requested channel for the purposes specified herein will not cause interference to any established stations.

Grant of the instant request for STA for 2.2GHz Band would serve the public interest by enabling Boom Technology, Inc., to conduct MESH networking tests in a ground-based scenario to provide a robust and reliable flight data system for their aircraft in development.

In accordance with Section 74.633 of the Commission's Rules, the following is provided:

Applicants Name: Boom Technology, Inc.,  
Address: 12876 East Adam Aircraft Circle  
Englewood, Colorado 80112  
Type and Manufacturer  
Of Equipment: Silvus Technologies, Inc.  
Streamcaster SC4400 / BDA235-20D-R Amplifier  
Power Output: 20W  
ERP: **80W**  
Emission: 20M00D7W  
Frequency: **2280.0MHz @80W TERRESTRIAL**  
Area of Operation: 5KM  
Coordinates: KAPA N 39 34 12.47  
W 104 50 57.52  
Antenna Height: **30' AGL**

Antenna: Haigh-Farr 3dB Omni  
Antenna Gain: 3dBi  
Dates of Operation: September 15, 2020 –September 14, 2021  
(Intermittent Usage during these days)

Boom Technology, Inc., requests an STA to operate on the above-referenced frequency for a period not to exceed twelve months. No application for regular authorization will subsequently be filed.

Boom Technology, Inc., certifies that no party to the application is subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C § 853(a).

Should you have any questions regarding this matter, please contact, John Winch, by telephone 626 676 1470, or E-mail [winchworks@me.com](mailto:winchworks@me.com).

Respectfully submitted,

By: John Winch  
Frequency Coordinator