

May 21, 2021

In re Application of

Sierra Nevada Corporation
Tactical Communications Division
3139 Doc Bennett Road
Fayetteville, North Carolina 28306

To operate in the 2200-2290MHz Telemetry Band near Green Valley, Arizona.

ATTN.: Microwave Branch

Sierra Nevada Corporation hereby requests Special Temporary Authority (STA) to operate within the 2200-2290MHz telemetry bands pursuant to Section 21.25 of the Commission's Rules. Sierra Nevada Corporation requests that the Commission grant it temporary authority to operate on the frequency centered at 2280MHz with a 20MHz bandwidth from June 21, 2021 through August 31, 2021 with intermittent usage. As explained below, Sierra Nevada Corporation is filing an STA request to demonstrate high altitude to ground MESH network testing over Southern Arizona. Sierra Nevada Corporation submits that there are extraordinary circumstances warranting a grant of the STA request.

Sierra Nevada Corporation seeks to conduct high altitude to ground MESH network testing on an intermittent basis. Sierra Nevada Corporation is under contract FA8649-19-9-9024 for this demonstration. Due to the extreme frequency congestion in the area, Sierra Nevada Corporation requests the use of these channels.

Sierra Nevada Corporation 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 the 2.2GHz Bands would serve the public interest by enabling Sierra Nevada Corporation to conduct high altitude MESH networking tests over Southern Arizona.

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

Applicants Name: Sierra Nevada Corporation
Tactical Communications Division
Address: 3139 Doc Bennett Road
Fayetteville, North Carolina 28306

Dates of Operation: June 21, 2021 – August 31, 2021

Type and Manufacturer
Of Equipment: Silvus Technologies, Inc.
Streamcaster SC4480

Power Output: 8W

ERP: **25W**

Emission: 20M00D7W

Frequency: **2280.0MHz @25W AERIAL**

Area of Operation: 150km

Coordinates: Safford, Arizona N 32 50 57.40
W 109 38 34.45

Antenna Height: **UNMANNED STRATOLLITE @ OR BELOW 70000' AGL**

Antenna: H/V

Antenna Gain: **6dBi**

Dates of Operation: June 21, 2021 – August 31, 2021
(Intermittent Usage during these days)

Sierra Nevada Corporation requests an STA to operate on the above-referenced frequency for a period not to exceed six months. No application for regular authorization will subsequently be filed.

Sierra Nevada Corporation 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.

Respectfully submitted,

By: John Winch
Frequency Coordinator