

November 17, 2017

In re Application of

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

To operate in the 2360-2390MHz Telemetry Band in Sioux Falls, South Dakota.

ATTN.: Microwave Branch

Sierra Nevada Corporation hereby requests Special Temporary Authority (STA) to operate within the 2360-2390MHz telemetry band 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 2380MHz with a 20MHz bandwidth from December 04, 2017 through March 31, 2018 with intermittent usage. As explained below, Sierra Nevada Corporation is filing an STA request to demonstrate high altitude MESH networking over Lake Michigan. Sierra Nevada Corporation submits that there are extraordinary circumstances warranting a grant of the STA request.

SOUTHCOM and the Joint Interagency Task Force South have contracted Sierra Nevada Corporation to conduct high altitude MESH networking tests within the flight plan (attached) over Wisconsin and more specifically, Lake Michigan. Due to the extreme frequency congestion in the area, Sierra Nevada Corporation requests the use of this channel.

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 2.3GHz would serve the public interest by enabling Sierra Nevada Corporation to conduct high altitude MESH networking tests over Lake Michigan to provide a persistent surveillance system to locate and deter narcotic trafficking and homeland security threats. Sierra Nevada Corporation is in the process of obtaining the consent of the relevant frequency coordinators for this project, including AFTRCC. AFTRCC has indicated its intent to forward the results of the coordination to the Commission.

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

Type and Manufacturer
Of Equipment: Silvus Technologies, Inc.
Streamcaster SC4200

Power Output: 4W

ERP: **8W**

Emission: 20M00D7W

Frequency: 2380.0MHz

Area of Operation: 200km along flight plan (See Attached)

Coordinates: N 43 42 01.10
W 096 42 28.27

Antenna Height: **UNMANNED STRATOLLITE @ OR BELOW 65000' AGL**

Antenna: 6dB Omni

Antenna Gain: 6dBi

Dates of Operation: December 04, 2017 –March 31, 2017
(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

cc: Wayne Morris, AFTRCC

