

May 22, 2018

In re Application of

L3 Technologies EO/IR Inc.
5896 Wright Drive
Loveland, CO 80537

To Operate in the 4400-4940MHz Telemetry
Band to analyze EO/IR sensors in Loveland, Colorado.

ATTN.: Microwave Branch

L3 Technologies EO/IR Inc. hereby requests Special Temporary Authority (STA) to operate in the 4400-4940MHz Telemetry Band pursuant to Section 21.25 of the Commission's Rules. L3 Technologies EO/IR Inc. requests that the Commission grant it temporary authority to operate on the frequency centered on 4440MHz with a 20MHz bandwidth July 01, 2018 through December 31, 2018 with intermittent usage. As explained below, L3 Technologies EO/IR Inc. is filing an STA request to test and evaluate emerging microwave technology in a MIMO / MANET configuration at L3 Technologies EO/IR Inc. in Loveland, Colorado. L3 Technologies EO/IR Inc. submits that there are extraordinary circumstances warranting a grant of the STA request.

L3 Technologies EO/IR Inc. is evaluating emerging MANET / MIMO microwave technologies with relation to propagation, data throughput, vehicle integration and impact utilizing electro-optical and infrared sensors in an aerial configuration to present documentation for application for governmental contracts. Due to the frequency congestion in the Loveland area, L3 Technologies EO/IR Inc. requests the use of channels in the 4400-4940MHz Telemetry Band.

L3 Technologies EO/IR Inc. certifies that the operation of the requested channels for the purposes specified herein will not cause interference to any established stations.

Grant of the instant request for STA in the 4.4GHz Band would serve the public interest by enabling L3 Technologies EO/IR Inc. to evaluate the stability of the EO/IR sensors in an airborne exercise. The proposed service would enhance the experiment by providing on the spot imaging from mobile locations that would not otherwise be available to the engineering team.

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

Applicants Name: L3 Technologies EO/IR Inc.
Address: 5896 Wright Drive
Loveland, CO 80537

Type and Manufacturer Silvus Technologies, Inc.
Of Equipment: StreamCaster SC4400

Power Output: 4W

ERP: 8W

Emission: 20M00D7W

Frequencies: **4440.0 MHz, 20M00D7W @8W AERIAL**

Area of Operation: 30 Kilometers

Coordinates: N 40 27 24.87
W 105 00 24.25

Antenna Height: **MANNED AIRCRAFT AT OR BELOW 18000' MSL**

Antenna: Omni

Antenna Gain: 3dBi

Dates of Operation: July 01, 2018 – December 31, 2018
(Intermittent usage during these days)

L3 Technologies EO/IR Inc. requests an STA to operate on the above-referenced frequencies for a period not to exceed 60 days. No application for regular authorization will subsequently be filed.

L3 Technologies EO/IR 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.

Respectfully submitted,

By: John Winch
Frequency Coordinator