Attachment 1

Application for Special Authority by
General Dynamics Land Systems Canada (GDLS-C) for
Use of Doberman Counter-UAS Jammer on an LAV

Description of STA Requested:

Use of “Doberman” counter-UAS jammer at USMC Marine Corps Warfighting Laboratory (MCWL) Advanced Naval Technology Exercise (ANTX) at Camp Lejeune NC in July, 2019.

Doberman has the following characteristics:

- 6dBi antenna with a 3dB cutoff at 60 degrees
- 1-10W (user selectable), 2W mean (@10W max)
- Selectable frequency settings:
    - "2.4GHz": 2,400-2,500MHz
    - "5GHz": 5,200-5,975MHz
    - "GPS" (L1): 1575.42MHz

The vehicle is equipped with 6 jammers, spaced around the vehicle to provide 360 degree coverage. The user can select to engage a single directional jammer, or a "blanket" jamming using all the antennae.

Question 10, Justification for STA Request:

GDLS-C is a wholly owned Canadian subsidiary of General Dynamics Land Systems, with offices at 38500 Mound Road, Sterling Heights, Michigan, which in turn is a wholly owned subsidiary of General Dynamics Corporation, a publicly traded company.

GDLS-C has been invited by the USMC Marine Corps Warfighting Laboratory (MCWL) to participate in their Advanced Naval Technology Exercise (ANTX) at Camp Lejeune NC in July, 2019 with GDLS-C’s prototype Light Armored Vehicle (LAV). The LAV is an 8-wheeled armored reconnaissance vehicle designed for use by the USMC.

A key aspect of the intended demonstration at the ANTX is the use of a Counter Unmanned Aerial System (C-UAS, ie, anti-drone) system that detects the command and video link between a UAS and its ground station and can then selectively jam these links, and or the local GPS signal used by the UAS for navigation. Such jamming renders the UAS non-functional and causes it to return to its “home” location. Such technology is intended to be used to protect US forces from commercial-style drones “weaponized” for hostile use (surveillance or attack of US forces).

The jammer installed on the prototype LAV is the “Doberman” produced by MyDefence in Denmark. As the Doberman has yet to be fielded outside Denmark, this system does not currently have FCC certification. As such, an STA is sought to support use of the system on the LAV at ANTX.

An STA would be required by end-May at the latest to support approval by the Camp Lejeune Marine Corps Base authorities for GDLS-C to provide the planned demonstration.

Question 12, Affiliation with a Foreign Carrier:

GDLS-C is not affiliated with any foreign carrier. The system in question does not provide a service to the general public, but is intended only for use by US or allied forces.

Question 13, Service to Foreign Destination:

GDLS-C does not seek to provide telecommunication services, rather it seeks to demonstrate the C-UAS jammer system to the US Marine Corps.

63.18 (d)

GDLS-C has not previously received authority under Section 214

63.18 (e)(3)

GDLS-C seeks authorization as described above.

GDLS-C certifies that it will comply with the requirements of 47 CFR i1/2 s 63.21:

a) Maintain continuing accuracy of certifications
b) n/a (not in agreements with foreign correspondents)
c) n/a (not a service carrier)
d) reserved
e) n/a (not participating in a foreign network)
f) n/a (not a competing carrier)
g) support the Commission's right to review authorization(s)
h) n/a (not a service carrier)
i) n/a (not a service carrier)
j) participate in electronic filing

GDLS-C certifies that it will comply with the requirements of 47 CFR i1/2 s 63.22:

- n/a (not a common carrier)

GDLS-C certifies that it will comply with the requirements of 47 CFR i1/2 s 63.23:

- n/a (not a common carrier)

63.18 (g)

N/A, GDLS-C is not seeking facilities-based authority.