

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WL9XVW

(Call Sign)

XT MO

(Class of Station)

1925-EX-ST-2019

(File Number)

NAME The Drone Racing League

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

**Purpose Of Operation:**

Communications during live and post-produced drone racing events.

**Station Locations**

- (1) MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23
- (2) MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23
- (3) MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23
- (4) MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23
- (5) MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23
- (6) MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23

**Frequency Information**

MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 3920-3940 MHz | MO            | 11M0FXF             | 1 W (ERP)        | 0.03 %                    |

This authorization effective October 29, 2019 and  
will expire 3:00 A.M. EST November 06, 2019

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 4020-4040 MHz | MO            | 11M0FXF             | 1 W (ERP)        | 0.03 %                    |

MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 4080-4100 MHz | MO            | 11M0FXF             | 1 W (ERP)        | 0.03 %                    |

MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 4160-4180 MHz | MO            | 11M0FXF             | 1 W (ERP)        | 0.03 %                    |

MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 4180-4200 MHz | MO            | 11M0FXF             | 1 W (ERP)        | 0.03 %                    |

## Frequency Information

MOBILE: Washington, DC, within 1 km, centered around NL 38-54-18; WL 77-01-23

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 3900-3920 MHz | MO            | 11M0FXF             | 1 W (ERP)        | 0.03 %                    |

## Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) Licensee must ensure that the operation will not cause harmful interference to any existing registered stations in the 3700-4200 MHz band, and notify the registered users in the proposed areas.
- (4) Prior to operation, experimental licensee, must notify licensees of FSS earth stations operating the 3700-4200 MHz within 20 kilometer radius of the locations from which experimental operations will occur. Experimental licensee, must also provide such notification to the National Spectrum Managers Association frequency coordinators by email. (see [http://wireless.fcc.gov/services/index.htm?job=licensing\\_1&id=microwave](http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave) ). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna pattern, antenna height(s), antenna orientation, eirp density) and day and times of each test. Consult the IBFS database to identify licensed earth station in the band 3700-4200 MHz band.
- (5) The experimental stations power flux-density (pfd) at FSS earth stations must not exceed -154.5 dB (W/(m<sup>2</sup> · 4 kHz)).
- (6) Stop buzzer contact is Allende Cornejo, The Drone Racing League at (919) 597-0892, or email: [allende@thedroneracingleague.com](mailto:allende@thedroneracingleague.com)
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.