

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

EXPERIMENTAL

(Nature of Service)

WK9XIQ

(Call Sign)

XT MO

(Class of Station)

1241-EX-ST-2016

(File Number)

NAME MRTC Motorsport Communications

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:

Terrestrial only, international and domestic video production operation; voice and telemetry between racing cars and pit crews; and two-way operational and security communications.

Station Locations

- (1) MOBILE: Circuit of the Americas Motor Speedway, Austin, TX, within 1.6 km, centered around NL 30-08-02; WL 97-38-18

Frequency Information

MOBILE: Circuit of the Americas Motor Speedway, Austin, TX, within 1.6 km, centered around NL 30-08-02; WL 97-38-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
152.8-173 MHz	MO	11K2F3E 11K2F1D	5 W (ERP)	
445-450 MHz	MO	11K2F3E 20K0F1D 11K2F1D	4 W (ERP)	

This authorization effective September 15, 2016 and
will expire 3:00 A.M. EST September 19, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Circuit of the Americas Motor Speedway, Austin, TX, within 1.6 km, centered around NL 30-08-02; WL 97-38-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450-470 MHz	MO	11K2F3E 11K2F1D 20K0F1D	4 W (ERP)	
470-512 MHz	MO	75K0F1D 40K0F1D	1 W (ERP)	
614-698 MHz	MO	200KF3E 40K0F1D	1 W (ERP)	
1390-1400 MHz	MO	10M0F1D	4 W (ERP)	
1480-1550 MHz	MO	4M00F1D	1 W (ERP)	
1668.4-1675 MHz	MO	1M60F1D	4 W (ERP)	
2180-2290 MHz	MO	1M00D7W	250 mW (ERP)	
2390-2415 MHz	MO	8M00D7W	1 W (ERP)	
6875-7125 MHz	MO	10M0D7W	250 mW (ERP)	

Frequency Information

MOBILE: Circuit of the Americas Motor Speedway, Austin, TX, within 1.6 km, centered around NL 30-08-02; WL 97-38-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9405-9505 MHz	MO	10M0M2N	25 kW (ERP)	0.1 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE) in frequency bands 152.8-173 MHz, 450-470 MHz, 470-512 MHz, 614-698 MHz and 6875-7125 MHz; ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.
- (4) All operations subject to notification of the following Mobility Division services within 50 miles of the test area:
 1. Paging licensees in 454 MHz and 459 MHz.
 2. General Aviation Air-Ground licensees in 454 MHz and 459 MHz.
 3. Paging licensees in 152-153 MHz and 157-159 MHz.
 4. 1390-1392 licensee, TerreStar 1.4 Holdings LLC.
 5. 1392-1395 MHz/1432-1435 MHz Band licensees
 6. 1670-1675 MHz Band licensee

Special Conditions:

- (5) MRTC Motorsport Communications must notch out the following frequencies. If it is discovered that some of the frequencies (in item "c" only), are required for the race, those frequencies are to be re-coordinated with NTIA through the FCC for possible use. SRC Inc. must be made aware that the majority of those frequencies listed in item "c" are being utilized by various federal agencies within the Austin, Texas area and use is not guaranteed.
- a. Notch out the following +/- 8 kHz:
 - 1. 156.3000 MHz – Search and Rescue
 - 2. 156.5250 MHz – Channel 70 - DSC
 - 3. 156.6500 MHz – Bridge to Bridge Communications
 - 4. 156.8000 MHz – International Safety, Calling and Distress
 - 5. 161.9750 MHz – AIS I
 - 6. 162.0250 MHz – AIS II
 - 7. 163.7250 MHz
 - b. Notch out the following +/- 12.5 kHz
 - 1. 162.4000 MHz
 - 2. 165.7625 MHz
 - 3. 166.1750 MHz
 - 4. 169.2250 MHz
 - 5. 169.3500 MHz
 - 6. 169.3750 MHz
 - 7. 172.8250 MHz
 - 8. 172.9500 MHz
 - 9. 172.9750 MHz
 - 10. 172.175 MHz
 - c. Notch out the following +/- 16 kHz:
 - 163.375 MHz, 165.250 MHz, 166.000 MHz, 166.375 MHz, 166.750 MHz,
 - 167.125 MHz, 167.500 MHz, 167.875 MHz, 168.250 MHz, 169.000 MHz,
 - 169.750 MHz, 170.125 MHz, 171.625 MHz, 172.000 MHz, 172.375 MHz
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- 172.750 MHz, 173.125 MHz, 173.500 MHz.
- (6) All of the experimental devices be retrieved by MRTC Motorsport Communications from the participants upon completion of the operation.
- (7) Secure consents from the AWS licensees prior to accessing to 2180-2290 MHz band.
- (8) The band 1660.0 - 1668.4 MHz must be excluded from operations in accordance with Footnote US246 in order to prevent potential impacts to NASA passive sensors.
- (9) The band 2200 – 2290 MHz is allocated for federal space operations and line-of-sight fixed to fixed operations. Non-federal use is approved on a case-by-case basis. MRTC should have no expectation of automatic approval for future submissions.