

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

EXPERIMENTAL

(Nature of Service)

WR9XYM

(Call Sign)

XT MO

(Class of Station)

0475-EX-ST-2021

(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:

Testing of automobile racing communications system involving one race team and multiple race vehicles at multiple venues. Please see attached narrative and frequency coordination exhibit.

Station Locations

- (1) MOBILE: Austin, TX. Circuit of the Americas Race Track, within 5 km, centered around NL 30-08-02; WL 97-38-18
- (2) MOBILE: Virginia International Raceway, Alton VA, within 5 km, centered around NL 36-33-42; WL 79-12-16
- (3) MOBILE: Watkins Glen International Speedway, NY, within 5 km, centered around NL 42-20-13; WL 76-55-38
- (4) MOBILE: Road America Race Track Elkhart Lake, WI, within 5 km, centered around NL 43-47-51; WL 87-59-38
- (5) MOBILE: Indianapolis, IN. Motor Speedway, within 5 km, centered around NL 39-47-43; WL 86-14-07

Frequency Information

MOBILE: Austin, TX. Circuit of the Americas Race Track, within 5 km, centered around NL 30-08-02; WL 97-38-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
154.15 MHz	MO	11K2F3E	5 W (ERP)	

This authorization effective April 30, 2021 and
will expire 3:00 A.M. EST October 18, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Austin, TX. Circuit of the Americas Race Track, within 5 km, centered around NL 30-08-02; WL 97-38-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
154.1875 MHz	MO	11K2F3E	5 W (ERP)	
154.5375 MHz	MO	11K2F3E	5 W (ERP)	
154.5625 MHz	MO	11K2F3E	5 W (ERP)	
154.825 MHz	MO	11K2F3E	5 W (ERP)	
155.225 MHz	MO	11K2F3E	5 W (ERP)	
158.2625 MHz	MO	11K2F3E	5 W (ERP)	
158.3375 MHz	MO	11K2F3E	5 W (ERP)	
158.425 MHz	MO	11K2F3E	5 W (ERP)	
158.75 MHz	MO	11K2F3E	5 W (ERP)	
158.9 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Austin, TX. Circuit of the Americas Race Track, within 5 km, centered around NL 30-08-02; WL 97-38-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
159.0875 MHz	MO	11K2F3E	5 W (ERP)	
162.8875 MHz	MO	11K2F3E	5 W (ERP)	
163.025 MHz	MO	11K2F3E	5 W (ERP)	
163.5375 MHz	MO	11K2F3E	5 W (ERP)	
163.6875 MHz	MO	11K2F3E	5 W (ERP)	
163.7625 MHz	MO	11K2F3E	5 W (ERP)	
165.1375 MHz	MO	11K2F3E	5 W (ERP)	
165.375 MHz	MO	11K2F3E	5 W (ERP)	
165.4875 MHz	MO	11K2F3E	5 W (ERP)	
170.25 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Austin, TX. Circuit of the Americas Race Track, within 5 km, centered around NL 30-08-02; WL 97-38-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
170.4625 MHz	MO	11K2F3E	5 W (ERP)	
170.5125 MHz	MO	11K2F2E 11K2F2E	5 W (ERP)	
170.8125 MHz	MO	11K2F3E	5 W (ERP)	
171.1625 MHz	MO	11K2F3E	5 W (ERP)	
172.075 MHz	MO	11K2F3E	5 W (ERP)	
455.625 MHz	MO	11K2F3E	5 W (ERP)	
456.4875 MHz	MO	11K2F3E	5 W (ERP)	
457.3375 MHz	MO	11K2F3E	5 W (ERP)	
460.1625 MHz	MO	11K2F3E	5 W (ERP)	
461.5625 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Austin, TX. Circuit of the Americas Race Track, within 5 km, centered around NL 30-08-02; WL 97-38-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
466.175 MHz	MO	11K2F3E	5 W (ERP)	
466.45 MHz	MO	11K2F3E	5 W (ERP)	
467.95 MHz	MO	11K2F3E	5 W (ERP)	
468.0875 MHz	MO	11K2F3E	5 W (ERP)	
468.2 MHz	MO	11K2F3E	5 W (ERP)	
468.55 MHz	MO	11K2F3E	5 W (ERP)	
468.8375 MHz	MO	11K2F3E	5 W (ERP)	
469.075 MHz	MO	11K2F3E	5 W (ERP)	
469.75 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Virginia International Raceway, Alton VA, within 5 km, centered around NL 36-33-42; WL 79-12-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
154.15 MHz	MO	11K2F3E	5 W (ERP)	
154.1875 MHz	MO	11K2F3E	5 W (ERP)	
154.5375 MHz	MO	11K2F3E	5 W (ERP)	
154.5625 MHz	MO	11K2F3E	5 W (ERP)	
154.825 MHz	MO	11K2F3E	5 W (ERP)	
155.225 MHz	MO	11K2F3E	5 W (ERP)	
158.2625 MHz	MO	11K2F3E	5 W (ERP)	
158.3375 MHz	MO	11K2F3E	5 W (ERP)	
158.425 MHz	MO	11K2F3E	5 W (ERP)	
158.75 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Virginia International Raceway, Alton VA, within 5 km, centered around NL 36-33-42; WL 79-12-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
158.9 MHz	MO	11K2F3E	5 W (ERP)	
159.0875 MHz	MO	11K2F3E	5 W (ERP)	
162.8875 MHz	MO	11K2F3E	5 W (ERP)	
162.9625 MHz	MO	11K2F3E	5 W (ERP)	
163.025 MHz	MO	11K2F3E	5 W (ERP)	
163.5375 MHz	MO	11K2F3E	5 W (ERP)	
163.6875 MHz	MO	11K2F3E	5 W (ERP)	
163.7625 MHz	MO	11K2F3E	5 W (ERP)	
165.1375 MHz	MO	11K2F3E	5 W (ERP)	
165.375 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Virginia International Raceway, Alton VA, within 5 km, centered around NL 36-33-42; WL 79-12-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
165.4875 MHz	MO	11K2F3E	5 W (ERP)	
170.25 MHz	MO	11K2F3E	5 W (ERP)	
170.4625 MHz	MO	11K2F3E	5 W (ERP)	
170.5125 MHz	MO	11K2F3E	5 W (ERP)	
170.8125 MHz	MO	11K2F3E	5 W (ERP)	
171.1625 MHz	MO	11K2F3E	5 W (ERP)	
172.075 MHz	MO	11K2F3E	5 W (ERP)	
455.625 MHz	MO	11K2F3E	5 W (ERP)	
456.4875 MHz	MO	11K2F3E	5 W (ERP)	
457.3375 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Virginia International Raceway, Alton VA, within 5 km, centered around NL 36-33-42; WL 79-12-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460.1625 MHz	MO	11K2F3E	5 W (ERP)	
461.5625 MHz	MO	11K2F3E	5 W (ERP)	
466.175 MHz	MO	11K2F3E	5 W (ERP)	
466.45 MHz	MO	11K2F3E	5 W (ERP)	
467.95 MHz	MO	11K2F3E	5 W (ERP)	
468.0875 MHz	MO	11K2F3E	5 W (ERP)	
468.2 MHz	MO	11K2F3E	5 W (ERP)	
468.55 MHz	MO	11K2F3E	5 W (ERP)	
468.8375 MHz	MO	11K2F3E	5 W (ERP)	
469.075 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Virginia International Raceway, Alton VA, within 5 km, centered around NL 36-33-42; WL 79-12-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
469.75 MHz	MO	11K2F3E	5 W (ERP)	

MOBILE: Watkins Glen International Speedway, NY, within 5 km, centered around NL 42-20-13; WL 76-55-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
154.15 MHz	MO	11K2F3E	5 W (ERP)	
154.1875 MHz	MO	11K2F3E	5 W (ERP)	
154.5375 MHz	MO	11K2F3E	5 W (ERP)	
154.5625 MHz	MO	11K2F3E	5 W (ERP)	
154.825 MHz	MO	11K2F3E	5 W (ERP)	
155.225 MHz	MO	11K2F3E	5 W (ERP)	
158.2625 MHz	MO	11K2F3E	5 W (ERP)	
158.3375 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Watkins Glen International Speedway, NY, within 5 km, centered around NL 42-20-13; WL 76-55-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
158.425 MHz	MO	11K2F3E	5 W (ERP)	
158.75 MHz	MO	11K2F3E	5 W (ERP)	
158.9 MHz	MO	11K2F3E	5 W (ERP)	
159.0875 MHz	MO	11K2F3E	5 W (ERP)	
162.8875 MHz	MO	11K2F3E	5 W (ERP)	
162.9625 MHz	MO	11K2F3E	5 W (ERP)	
163.025 MHz	MO	11K2F3E	5 W (ERP)	
163.5375 MHz	MO	11K2F3E	5 W (ERP)	
163.6875 MHz	MO	11K2F3E	5 W (ERP)	
163.7625 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Watkins Glen International Speedway, NY, within 5 km, centered around NL 42-20-13; WL 76-55-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
165.1375 MHz	MO	11K2F3E	5 W (ERP)	
165.4875 MHz	MO	11K2F3E	5 W (ERP)	
170.25 MHz	MO	11K2F3E	5 W (ERP)	
170.4625 MHz	MO	11K2F3E	5 W (ERP)	
170.5125 MHz	MO	11K2F3E	5 W (ERP)	
170.8125 MHz	MO	11K2F3E	5 W (ERP)	
171.1625 MHz	MO	11K2F3E	5 W (ERP)	
172.075 MHz	MO	11K2F3E	5 W (ERP)	
455.625 MHz	MO	11K2F3E	5 W (ERP)	
456.4875 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Watkins Glen International Speedway, NY, within 5 km, centered around NL 42-20-13; WL 76-55-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
457.3375 MHz	MO	11K2F3E	5 W (ERP)	
460.1625 MHz	MO	11K2F3E	5 W (ERP)	
461.5625 MHz	MO	11K2F3E	5 W (ERP)	
466.175 MHz	MO	11K2F3E	5 W (ERP)	
466.45 MHz	MO	11K2F3E	5 W (ERP)	
467.95 MHz	MO	11K2F3E	5 W (ERP)	
468.0875 MHz	MO	11K2F3E	5 W (ERP)	
468.2 MHz	MO	11K2F3E	5 W (ERP)	
468.55 MHz	MO	11K2F3E	5 W (ERP)	
468.8375 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Watkins Glen International Speedway, NY, within 5 km, centered around NL 42-20-13; WL 76-55-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
469.075 MHz	MO	11K2F3E	5 W (ERP)	
469.75 MHz	MO	11K2F3E	5 W (ERP)	

MOBILE: Road America Race Track Elkhart Lake, WI, within 5 km, centered around NL 43-47-51; WL 87-59-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
154.15 MHz	MO	11K2F3E	5 W (ERP)	
154.1875 MHz	MO	11K2F3E	5 W (ERP)	
154.5375 MHz	MO	11K2F3E	5 W (ERP)	
154.5625 MHz	MO	11K2F3E	5 W (ERP)	
154.825 MHz	MO	11K2F3E	5 W (ERP)	
155.225 MHz	MO	11K2F3E	5 W (ERP)	
158.2625 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Road America Race Track Elkhart Lake, WI, within 5 km, centered around NL 43-47-51; WL 87-59-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
158.3375 MHz	MO	11K2F3E	5 W (ERP)	
158.425 MHz	MO	11K2F3E	5 W (ERP)	
158.75 MHz	MO	11K2F3E	5 W (ERP)	
158.9 MHz	MO	11K2F3E	5 W (ERP)	
159.0875 MHz	MO	11K2F3E	5 W (ERP)	
162.8875 MHz	MO	11K2F3E	5 W (ERP)	
162.9625 MHz	MO	11K2F3E	5 W (ERP)	
163.025 MHz	MO	11K2F3E	5 W (ERP)	
163.5375 MHz	MO	11K2F3E	5 W (ERP)	
163.6875 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Road America Race Track Elkhart Lake, WI, within 5 km, centered around NL 43-47-51; WL 87-59-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
163.7625 MHz	MO	11K2F3E	5 W (ERP)	
165.1375 MHz	MO	11K2F3E	5 W (ERP)	
165.375 MHz	MO	11K2F3E	5 W (ERP)	
165.4875 MHz	MO	11K2F3E	5 W (ERP)	
170.25 MHz	MO	11K2F3E	5 W (ERP)	
170.5125 MHz	MO	11K2F3E	5 W (ERP)	
170.8125 MHz	MO	11K2F3E	5 W (ERP)	
171.1625 MHz	MO	11K2F3E	5 W (ERP)	
172.075 MHz	MO	11K2F3E	5 W (ERP)	
455.625 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Road America Race Track Elkhart Lake, WI, within 5 km, centered around NL 43-47-51; WL 87-59-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.4875 MHz	MO	11K2F3E	5 W (ERP)	
457.3375 MHz	MO	11K2F3E	5 W (ERP)	
460.1625 MHz	MO	11K2F3E	5 W (ERP)	
461.5625 MHz	MO	11K2F3E	5 W (ERP)	
466.175 MHz	MO	11K2F3E	5 W (ERP)	
466.45 MHz	MO	11K2F3E	5 W (ERP)	
467.95 MHz	MO	11K2F3E	5 W (ERP)	
468.0875 MHz	MO	11K2F3E	5 W (ERP)	
468.2 MHz	MO	11K2F3E	5 W (ERP)	
468.55 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Road America Race Track Elkhart Lake, WI, within 5 km, centered around NL 43-47-51; WL 87-59-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
468.8375 MHz	MO	11K2F3E	5 W (ERP)	
469.075 MHz	MO	11K2F3E	5 W (ERP)	
469.75 MHz	MO	11K2F3E	5 W (ERP)	

MOBILE: Indianapolis, IN. Motor Speedway, within 5 km, centered around NL 39-47-43; WL 86-14-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
154.15 MHz	MO	11K2F3E	5 W (ERP)	
154.1875 MHz	MO	11K2F3E	5 W (ERP)	
154.5375 MHz	MO	11K2F3E	5 W (ERP)	
154.5625 MHz	MO	11K2F3E	5 W (ERP)	
154.825 MHz	MO	11K2F3E	5 W (ERP)	
155.225 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Indianapolis, IN. Motor Speedway, within 5 km, centered around NL 39-47-43; WL 86-14-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
158.2625 MHz	MO	11K2F3E	5 W (ERP)	
158.3375 MHz	MO	11K2F3E	5 W (ERP)	
158.425 MHz	MO	11K2F3E	5 W (ERP)	
158.75 MHz	MO	11K2F3E	5 W (ERP)	
158.9 MHz	MO	11K2F3E	5 W (ERP)	
159.0875 MHz	MO	11K2F3E	5 W (ERP)	
162.8875 MHz	MO	11K2F3E	5 W (ERP)	
162.9625 MHz	MO	11K2F3E	5 W (ERP)	
163.025 MHz	MO	11K2F3E	5 W (ERP)	
163.5375 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Indianapolis, IN. Motor Speedway, within 5 km, centered around NL 39-47-43; WL 86-14-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
163.6875 MHz	MO	11K2F3E	5 W (ERP)	
163.7625 MHz	MO	11K2F3E	5 W (ERP)	
165.1375 MHz	MO	11K2F3E	5 W (ERP)	
165.375 MHz	MO	11K2F3E	5 W (ERP)	
165.4875 MHz	MO	11K2F3E	5 W (ERP)	
170.25 MHz	MO	11K2F3E	5 W (ERP)	
170.4625 MHz	MO	11K2F3E	5 W (ERP)	
170.5125 MHz	MO	11K2F3E	5 W (ERP)	
170.8125 MHz	MO	11K2F3E	5 W (ERP)	
171.1625 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Indianapolis, IN. Motor Speedway, within 5 km, centered around NL 39-47-43; WL 86-14-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
172.075 MHz	MO	11K2F3E	5 W (ERP)	
455.625 MHz	MO	11K2F3E	5 W (ERP)	
456.4875 MHz	MO	11K2F3E	5 W (ERP)	
457.3375 MHz	MO	11K2F3E	5 W (ERP)	
460.1625 MHz	MO	11K2F3E	5 W (ERP)	
461.5625 MHz	MO	11K2F3E	5 W (ERP)	
466.175 MHz	MO	11K2F3E	5 W (ERP)	
466.45 MHz	MO	11K2F3E	5 W (ERP)	
467.95 MHz	MO	11K2F3E	5 W (ERP)	
468.0875 MHz	MO	11K2F3E	5 W (ERP)	

Frequency Information

MOBILE: Indianapolis, IN. Motor Speedway, within 5 km, centered around NL 39-47-43; WL 86-14-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
468.2 MHz	MO	11K2F3E	5 W (ERP)	
468.55 MHz	MO	11K2F3E	5 W (ERP)	
468.8375 MHz	MO	11K2F3E	5 W (ERP)	
469.075 MHz	MO	11K2F3E	5 W (ERP)	
469.75 MHz	MO	11K2F3E	5 W (ERP)	

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 local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/wp-content/uploads/freqcoor.pdf> to find the appropriate coordinator.
- (4) Prior to commencing any operations in the 161-163 MHz frequency band, experimental licensee must notify licensee of ORBCOMM License Corp. (Call signs: E940534, S2103. Mr. Walter H. Sonnenfeldt, Phone Number: 585-461-3018, E-Mail: sonnenfeldt.walter@orbcomm.com). 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 height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (5) The stop buzzer POC is Christopher D. Imlay at (301) 384-5525.
- (6) Prior to commencing any operations in the frequencies below, the licensee must obtain consent from the following within 50 miles of the contours of the testing area:
 - Paging Service licensees in 158 MHz
 - Mobile Service licensees in 152 MHz/158 MHz

Special Conditions:

- (7) At the Austin, TX location, MRTC Motorsport Communications may not operate on the following requested frequency due to interference with ongoing federal operations:
 - a. 162.9625 MHz
- (8) At the Elkhart Lake, WI location, MRTC Motorsport Communications may not operate on the following requested frequency due to interference with ongoing federal operations:
 - a. 170.4625 MHz