

MRTC Motorsport Communications
MRTC, Ltd.
Application for Special Temporary Authority
File No. 0264-EX-ST-2022

PURPOSE OF STA AND FREQUENCY COORDINATION

The purpose of this STA is to further test an automobile racing communications system for simplex and duplex voice transmissions that is in the developmental stage at a very large-scale automobile race venue in a rural area of Florida. The tests will occur at a single, one-week test session in Florida at the Sebring Raceway at the Federation Internationale de l'Automobile (FIA) World Endurance Championship (WEC) Sebring 12-hour endurance race. The system will be deployed at Sebring within the race track grounds only, for communications by more than twenty different race teams, and associated international video production activities. The race teams will use the MRTC communications systems on a developmental testing basis on behalf of and overseen by MRTC Motorsport Communications on site. A variety of low-powered VHF, UHF and microwave channels are required. There is also a mobile weather radar, needed for all major automobile racing events. The spectrum needs of this event, when held at different locations, have been accommodated in the past. See, e.g. File No. 1241-EX-ST-2016, WK9XIQ.

The dates during 2022 when this system will be deployed are March 12-18 inclusive.

The applicant requires numerous VHF frequencies as specified in this application for duplex and simplex voice transmissions, and duplex and simplex channels at UHF for voice transmission to and from the race vehicles and among the crews. There are wireless microphone channels specified in the band 464-608 MHz, and microwave channels including broadcast auxiliary (2025-2110 MHz and 6185-7125 MHz) and Amateur and Federal government bands as shown in the application.

The applicant has consulted the ULS database with respect to the VHF and UHF channels sought and proposes what are believed to be unoccupied channels in the area of the Sebring International Motor Speedway. *No public safety channels per Section 90.20 of the Commission's rules will be used; only Business/Industrial channels per Section 90.35 will be used.* A specific channel list can be provided should the Commission require it.

The “**stop buzzer**” contact on site on behalf of the applicant is Mr. Chris Lee of MRTC, whose mobile number is +44 (0)7920 130 453.

Other inquiries and “stop buzzer” notifications can also be addressed to undersigned counsel for MRTC Motorsport Communications using the mobile phone number and other contact information below:

Christopher D. Imlay
Booth, Freret & Imlay, LLC
14356 Cape May Road
Silver Spring, MD 20904-6011
(301) 384-5525 office
(301) 351-3795 mobile
chris@imlaylaw.com

Should any interference arise during this experimental operation, all such operation will cease and not resume unless and until the interference is resolved to the reasonable satisfaction of any complainant. Prior tests at this venue have been conducted by STA without any interference reported at any time.

Prior to operation, all broadcast and broadcast auxiliary channels will be coordinated with the Society of Broadcast Engineers' local market coordinator and with its Frequency Coordination Manager (FCM), Technical Broadcast Services.

All STA operations will be 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.

MRTC will notch out the following frequencies, per the requirements of prior STA grants:

a. 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. 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. 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,
172.750 MHz, 173.125 MHz, 173.500 MHz.

MRTC is aware that the band 2200 – 2290 MHz is allocated for federal space operations and line-of-sight fixed-to-fixed operations, and that non-federal use is approved on a case-by-case basis. MRTC has very rarely asked for channels in this band, and MRTC has no expectation of automatic approval for future proposed video production operation in the band. The band will be used solely for low-power (i.e. 100 mW EIRP, spread over a 10 MHz occupied bandwidth) short range video production for international race coverage by a non-U.S. race video producer.