

MRTC Motorsport Communications

MRTC, Ltd.

STA Application 1107-EX-ST-2017

Frequency Coordination Exhibit and Narrative

**Austin, Texas World Endurance Championship Automobile Race Sponsored by
The Federation Internationale de L'Automobile and World Series V8 Races
September 11, 2017 through September 16, 2017**

This application proposes the use of amateur radio, land mobile, broadcast auxiliary and certain microwave bands in the Austin, Texas area for terrestrial only, international and domestic video production operation; for voice communications and telemetry for racing cars and communications with pit crews of the race teams; and for two-way operational and security communications during the World Endurance Championship (WEC) and V8 World Series automobile race events and for testing prior to the event within and immediately surrounding the Circuit of the Americas Race Track. An engineering analysis has shown that there should be no interference to any licensed user of any of the subject bands whatsoever, and with the addition of some broadcast auxiliary channels for use for international video and broadcast production purposes, the frequency list is otherwise similar to that which was granted by the Commission each of the last three years for this same event (See WH9XUY, File No. 0618-EX-ST-2014, WI9XXY, File No. 0864-EX-ST-2015 and WK9XIQ, File No. 1241-EX-ST-2016). This is one of the two largest international automobile racing events in the United States. Should any FCC-licensed or United States government station report interference during the proposed operations, operation on that channel or band will immediately cease and not resume unless and until the interference complaint is resolved. However, during the past three years' prior events using these same frequencies, no interference has been reported whatsoever. There are on-site coordinators for this event who are charged with interference avoidance and mitigation.

The frequency ranges set forth herein are a subset of those requested for and granted by STA to Circuit of the Americas, LLC previously for other racing events at this venue.

With respect to the proposed use of Amateur Radio frequencies for video production, voice and telemetry, the use of amateur allocations in this STA application have been coordinated with the American Radio Relay League, Incorporated. Land mobile channels to be utilized during the race event within the requested band limits have been investigated using the Commission's ULS database and monitored on-site and found to be unoccupied. Technical coordination staff will be on site during the race and channel monitoring and on-site frequency coordination will ensure against any interference. Given the location of these events, it is anticipated that no interference will be caused to any Amateur Radio, land mobile, broadcast auxiliary or other licensed operations. Use of broadcast auxiliary channels will be coordinated in advance with the Society of Broadcast Engineers' local frequency coordinator for the Austin, Texas market. Upon receipt of any complaint of interference from a licensed Amateur Radio user, land mobile licensee or broadcast entity, or government entity (or otherwise),

operation pursuant to this STA will cease on the channel complained about, and will not resume unless and until the interference complaint is resolved satisfactorily to the licensee.

There is requested in this application the use of a 10 MHz bandwidth channel at 9405-9415 MHz for use for a weather radar system in support of the automobile race. This frequency for an identical radar was granted to Circuit of the Americas in October of 2014 (and since) for the United States Grand Prix (See, e.g. WH9XYW, File No. 0912-EX-ST-2014) and for this event in 2015 and 2016 (See, WI9XXY, File No. 0864-EX-ST-2015).

Applicant will ensure that all conditions associated with prior STA grants for this event will be complied with, including notching of the following channels within the requested frequency ranges as required in 2016:

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, 172.750 MHz, 173.125 MHz, 173.500 MHz.

In addition, as per the conditions imposed on this STA in 2016, MRTC will conduct the following notifications:

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.

The undersigned counsel will be the United States' stop buzzer contact. All other communications can also be directed to the office of counsel for MRTC Motorsports Communications :

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