

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

EXPERIMENTAL

(Nature of Service)

WR9XMQ

(Call Sign)

XD MO

(Class of Station)

0080-EX-ST-2021

(File Number)

NAME Broadcast Sports International LLC

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:

Development of new video, audio and data transmission system for broadcast production and fan enhancement at automobile racing events.

Station Locations

- (1) MOBILE: Homestead Motor Speedway, Homestead, FL, within 2 km, centered around NL 25-27-07; WL 80-24-39
- (2) MOBILE: Las Vegas Motor Speedway, Las Vegas, NV, within 2 km, centered around NL 36-16-22; WL 115-00-39
- (3) MOBILE: Phoenix Motor Speedway, Phoenix, AZ, within 2 km, centered around NL 33-22-29; WL 112-18-39
- (4) MOBILE: Atlanta Motor Speedway, Atlanta, GA, within 2 km, centered around NL 33-23-01; WL 84-19-05
- (5) MOBILE: Bristol Motor Speedway, Bristol, TN, within 2 km, centered around NL 36-30-55; WL 82-15-25
- (6) MOBILE: Martinsville Motor Speedway, Martinsville, VA, within 2 km, centered around NL 36-38-01; WL 79-51-04
- (7) MOBILE: Richmond Motor Speedway, Richmond, VA, within 2 km, centered around NL 37-35-07; WL 77-25-24
- (8) MOBILE: Talladega Motor Speedway, Talladega, AL, within 2 km, centered around NL 33-34-01; WL 86-03-59
- (9) MOBILE: Kansas Speedway, Kansas City, KS, within 2 km, centered around NL 39-07-20; WL 94-49-59
- (10) MOBILE: Darlington Motor Speedway, Darlington, SC, within 2 km, centered around NL 34-17-43; WL 79-54-22

This authorization effective February 26, 2021 and
will expire 3:00 A.M. EST August 23, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (11) MOBILE: Dover International Speedway, Dover, DE, within 2 km, centered around NL 39-11-23; WL 75-31-50
- (12) MOBILE: Circuit of the Americas, Austin, TX, within 2 km, centered around NL 30-08-05; WL 97-38-09
- (13) MOBILE: Charlotte Motor Speedway, Charlotte, NC, within 2 km, centered around NL 35-21-06; WL 80-41-01
- (14) MOBILE: Infineon Raceway, Sonoma, CA, within 2 km, centered around NL 38-09-43; WL 122-27-26
- (15) MOBILE: Texas Motor Speedway, Justin, TX, within 2 km, centered around NL 33-02-08; WL 97-16-45
- (16) MOBILE: Nashville Superspeedway, Gladeville, TN, within 2 km, centered around NL 36-02-39; WL 86-24-45
- (17) MOBILE: Pocono Raceway, Long Pond, PA, within 2 km, centered around NL 41-03-08; WL 75-30-40
- (18) MOBILE: Road America Raceway, Elkhart Lake, WI, within 2 km, centered around NL 43-47-53; WL 87-59-16
- (19) MOBILE: New Hampshire International Speedway, Loudon, NH, within 2 km, centered around NL 43-21-46; WL 71-27-38
- (20) MOBILE: Watkins Glen Raceway, Watkins Glen, NY, within 2 km, centered around NL 42-20-24; WL 76-55-44
- (21) MOBILE: Indianapolis Motor Speedway, Indianapolis, IN, within 2 km, centered around NL 39-47-36; WL 86-14-05
- (22) MOBILE: Michigan International Speedway, Brooklyn, MI, within 2 km, centered around NL 42-04-02; WL 84-14-26

Frequency Information

MOBILE: Homestead Motor Speedway, Homestead, FL, within 2 km, centered around NL 25-27-07; WL 80-24-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Homestead Motor Speedway, Homestead, FL, within 2 km, centered around NL 25-27-07; WL 80-24-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Las Vegas Motor Speedway, Las Vegas, NV, within 2 km, centered around NL 36-16-22; WL 115-00-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Phoenix Motor Speedway, Phoenix, AZ, within 2 km, centered around NL 33-22-29; WL 112-18-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Phoenix Motor Speedway, Phoenix, AZ, within 2 km, centered around NL 33-22-29; WL 112-18-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7146-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Atlanta Motor Speedway, Atlanta, GA, within 2 km, centered around NL 33-23-01; WL 84-19-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Bristol Motor Speedway, Bristol, TN, within 2 km, centered around NL 36-30-55; WL 82-15-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Martinsville Motor Speedway, Martinsville, VA, within 2 km, centered around NL 36-38-01; WL 79-51-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Martinsville Motor Speedway, Martinsville, VA, within 2 km, centered around NL 36-38-01; WL 79-51-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Richmond Motor Speedway, Richmond, VA, within 2 km, centered around NL 37-35-07; WL 77-25-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Talladega Motor Speedway, Talladega, AL, within 2 km, centered around NL 33-34-01; WL 86-03-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Talladega Motor Speedway, Talladega, AL, within 2 km, centered around NL 33-34-01; WL 86-03-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Kansas Speedway, Kansas City, KS, within 2 km, centered around NL 39-07-20; WL 94-49-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Darlington Motor Speedway, Darlington, SC, within 2 km, centered around NL 34-17-43; WL 79-54-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Dover International Speedway, Dover, DE, within 2 km, centered around NL 39-11-23; WL 75-31-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Dover International Speedway, Dover, DE, within 2 km, centered around NL 39-11-23; WL 75-31-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Circuit of the Americas, Austin, TX, within 2 km, centered around NL 30-08-05; WL 97-38-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Charlotte Motor Speedway, Charlotte, NC, within 2 km, centered around NL 35-21-06; WL 80-41-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Charlotte Motor Speedway, Charlotte, NC, within 2 km, centered around NL 35-21-06; WL 80-41-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8K00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: infineon Raceway, Sonoma, CA, within 2 km, centered around NL 38-09-43; WL 122-27-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7136-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Texas Motor Speedway, Justin, TX, within 2 km, centered around NL 33-02-08; WL 97-16-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7146-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Nashville Superspeedway, Gladeville, TN, within 2 km, centered around NL 36-02-39; WL 86-24-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Nashville Superspeedway, Gladeville, TN, within 2 km, centered around NL 36-02-39; WL 86-24-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Pocono Raceway, Long Pond, PA, within 2 km, centered around NL 41-03-08; WL 75-30-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Road America Raceway, Elkhart Lake, WI, within 2 km, centered around NL 43-47-53; WL 87-59-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Road America Raceway, Elkhart Lake, WI, within 2 km, centered around NL 43-47-53; WL 87-59-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W	2 W (ERP)	

MOBILE: New Hampshire International Speedway, Loudon, NH, within 2 km, centered around NL 43-21-46; WL 71-27-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W	2 W (ERP)	

Frequency Information

MOBILE: Watkins Glen Raceway, Watkins Glen, NY, within 2 km, centered around NL 42-20-24; WL 76-55-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Indianapolis Motor Speedway, Indianapolis, IN, within 2 km, centered around NL 39-47-36; WL 86-14-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

Frequency Information

MOBILE: Indianapolis Motor Speedway, Indianapolis, IN, within 2 km, centered around NL 39-47-36; WL 86-14-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	

MOBILE: Michigan International Speedway, Brooklyn, MI, within 2 km, centered around NL 42-04-02; WL 84-14-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5850 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
5925-6425 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
6525-6875 MHz	MO	8M00D7W 8M00D1D	2 W (ERP)	
7125-7500 MHz	MO	8M00D7W 8M00D1D	2 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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) The applicant must coordinate with the Fixed Microwave Service licensees in each and every proposed area in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 5925-6425 MHz and 6525-6875 MHz bands.

Special Conditions:

- (4) For operation in the 5.650-5.725 GHz band, the maximum output power from the outdoor access points must not exceed 200mW (23dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-megahertz band. The maximum antenna directional gain must not exceed 6 dBi.
- (5) For operation in the 5.725-5.850 GHz band, the maximum output power from the outdoor access points must not exceed 1 watt (30 dBm) into a 6 dBi antenna for a total of 36 dBm EIRP. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. The maximum antenna directional gain must not exceed 6 dBi.
- (6) For operation in the 5.925-6.425 GHz and 6525-6875 MHz bands, the maximum output power from the outdoor access points must not exceed 1 watt (30 dBm) into a 6 dBi antenna for a total of 36 dBm EIRP. In addition, the maximum power spectral density shall not exceed 23 dBm in any 1-megahertz band. The maximum antenna directional gain must not exceed 6 dBi.
- (7) The radiated power from outdoor access points must not exceed 21 dBm EIRP at angles of more than 30 degrees above the horizon to protect satellite receivers.
- (8) Prior to commencing any operations in the 5925-6425 MHz frequency band, experimental licensee must notify licensee of Intelsat License LLC (Ms. Susan H Crandall, Phone Number: 703-559-7848, E-Mail: susan.crandall@intelsat.com) and SES Americom, Inc. (Ms. Petra A Vorwig, Phone Number: 202-478-7143, E-Mail: petra.vorwig@ses.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.
- (9) For the Phoenix/Glendale area: Notch out 7125 - 7145 MHz; 7175 - 7195 MHz; 7220 - 7240 MHz; 7300 - 7320 MHz; 7400 - 7420 MHz; 7485 - 7500 MHz.
- (10) For the Sonoma area: Notch out 7125 - 7135 MHz.
- (11) For the Justin/Dallas area: Notch out 7125 - 7145 MHz; 7165 - 7175 MHz; 7190 - 7205 MHz; 7295 - 7305 MHz; 7445 - 7450 MHz.
- (12) Operations in the 7125-7500 MHz band are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating stations. Broadcast Sports International should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee will be subject to immediate shut down.
- (13) Broadcast Sports International is cautioned that operational use of this system in the 7125-7500 MHz frequency band may not be possible, and Broadcast Sports International shall have no expectations that future requests for operation in this frequency band will be approved.
- (14) The Stop Buzzer, Mr. Matt Butler at 410-693-5933.
- (15) For operation in the 5.925-6.425 GHz and 6525-6875 MHz bands, the radiated power from outdoor access points must not exceed 21 dBm EIRP at angles of more than 30 degrees above the horizon to protect satellite receivers.