

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

EXPERIMENTAL

(Nature of Service)

WR9XAY

(Call Sign)

XT MO

(Class of Station)

1330-EX-ST-2020

(File Number)

NAME National Football League

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, proof of concept and interference testing of new coach-to-coach and coach-to-player communications system during NFL football games at all NFL stadiums. Please

Station Locations

- (1) MOBILE: Gillette Stadium, One Patriot Place, within 2 km, centered around NL 42-05-27; WL 71-15-51
- (2) MOBILE: Metlife Stadium, within 2 km, centered around NL 40-48-48; WL 74-04-27
- (3) MOBILE: Hard Rock Stadium, 347 Don Shula Drive, within 2 km, centered around NL 25-57-28; WL 80-14-19
- (4) MOBILE: Ralph Wilson Stadium, One Bills Drive, within 2 km, centered around NL 42-46-25; WL 78-47-13
- (5) MOBILE: M&T Bank Stadium, 1101 Russell Street, within 2 km, centered around NL 39-16-40; WL 76-37-21
- (6) MOBILE: One Paul Brown Stadium, within 2 km, centered around NL 39-05-43; WL 84-30-57
- (7) MOBILE: FirstEnergy Stadium, 100 Alfred Lerner Way, within 2 km, centered around NL 41-30-21; WL 81-41-58
- (8) MOBILE: Heinz Field, 100 Art Rooney Ave., within 2 km, centered around NL 40-26-48; WL 80-00-56
- (9) MOBILE: NRG Stadium, within 2 km, centered around NL 29-41-05; WL 95-24-39
- (10) MOBILE: Lucas Oil Stadium, 500 S. Capitol Ave., within 2 km, centered around NL 39-45-36; WL 86-09-49
- (11) MOBILE: Nissan Stadium, One Titans Way, within 2 km, centered around NL 36-09-59; WL 86-46-16

This authorization effective September 30, 2020 and
will expire 3:00 A.M. EST March 31, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (12) MOBILE: Everbank Field, Jacksonville, FL, within 2 km, centered around NL 30-19-26; WL 81-38-14
- (13) MOBILE: Sports Authority Field at Mile High, within 2 km, centered around NL 39-44-38; WL 105-01-12
- (14) MOBILE: Arrowhead Stadium, One Arrowhead Drive, within 2 km, centered around NL 39-02-56; WL 94-29-02
- (15) MOBILE: Allegiant Stadium, 3333 Al Davis Way, within 2 km, centered around NL 36-05-27; WL 115-11-00
- (16) MOBILE: SoFi Stadium, 1000 S. Prairie Avenue, within 2 km, centered around NL 33-57-12; WL 118-20-21
- (17) MOBILE: AT&T Stadium, 1 AT&T Way, within 2 km, centered around NL 32-44-52; WL 97-05-34
- (18) MOBILE: Lincoln Financial Field, within 2 km, centered around NL 39-54-02; WL 75-10-02
- (19) MOBILE: Fedex Field, 1600 Fedex Way, within 2 km, centered around NL 38-54-27; WL 76-51-52
- (20) MOBILE: Soldier Field, 1410 S. Museum Campus Dr., within 2 km, centered around NL 41-51-44; WL 87-37-00
- (21) MOBILE: Ford Field, 2000 Brush Street, within 2 km, centered around NL 42-20-24; WL 83-02-44
- (22) MOBILE: Lambeau Field, 1265 Lombardi Ave., within 2 km, centered around NL 44-30-04; WL 88-03-44
- (23) MOBILE: US Bank Stadium, 900 So. 5th Street, within 2 km, centered around NL 44-58-26; WL 93-15-29
- (24) MOBILE: Mercedes Benz Stadium, within 2 km, centered around NL 33-45-18; WL 84-24-03
- (25) MOBILE: Bank of America Stadium, within 2 km, centered around NL 35-13-33; WL 80-51-10
- (26) MOBILE: Mercedes Benz Superdome, 1500 Poydras St., within 2 km, centered around NL 29-57-03; WL 90-04-52
- (27) MOBILE: Raymond James Stadium, within 2 km, centered around NL 27-58-33; WL 82-30-12
- (28) MOBILE: University of Phoenix Stadium, 1 Cardinals Drive, within 2 km, centered around NL 33-31-39; WL 112-15-45
- (29) MOBILE: SoFi Stadium, 1000 S. Prairie Avenue, within 2 km, centered around NL 33-57-12; WL 118-20-21
- (30) MOBILE: Levi's Stadium, within 2 km, centered around NL 37-24-11; WL 121-58-11
- (31) MOBILE: Qwest Field, 800 Occidental Ave South, within 2 km, centered around NL 47-35-42; WL 122-19-53
- (32) MOBILE: Aloha Stadium, 99-500 Salt Lake Blvd, within 2 km, centered around NL 21-22-22; WL 157-55-47
- (33) MOBILE: Camping World Stadium, 1 Citrus Bowl Place, within 2 km, centered around NL 28-32-21; WL 81-24-10

Frequency Information

MOBILE: Gillette Stadium, One Patriot Place, within 2 km, centered around NL 42-05-27; WL 71-15-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Metlife Stadium, within 2 km, centered around NL 40-48-48; WL 74-04-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Hard Rock Stadium, 347 Don Shula Drive, within 2 km, centered around NL 25-57-28; WL 80-14-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Ralph Wilson Stadium, One Bills Drive, within 2 km, centered around NL 42-46-25; WL 78-47-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

Frequency Information

MOBILE: M&T Bank Stadium, 1101 Russell Street, within 2 km, centered around NL 39-16-40; WL 76-37-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: One Paul Brown Stadium, within 2 km, centered around NL 39-05-43; WL 84-30-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: FirstEnergy Stadium, 100 Alfred Lerner Way, within 2 km, centered around NL 41-30-21; WL 81-41-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Heinz Field, 100 Art Rooney Ave., within 2 km, centered around NL 40-26-48; WL 80-00-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

Frequency Information

MOBILE: NRG Stadium, within 2 km, centered around NL 29-41-05; WL 95-24-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Lucas Oil Stadium, 500 S. Capitol Ave., within 2 km, centered around NL 39-45-36; WL 86-09-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Nissan Stadium, One Titans Way, within 2 km, centered around NL 36-09-59; WL 86-46-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Everbank Field, Jacksonville, FL, within 2 km, centered around NL 30-19-26; WL 81-38-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

Frequency Information

MOBILE: Sports Authority Field at Mile High, within 2 km, centered around NL 39-44-38; WL 105-01-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Arrowhead Stadium, One Arrowhead Drive, within 2 km, centered around NL 39-02-56; WL 94-29-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Allegiant Stadium, 3333 Al Davis Way, within 2 km, centered around NL 36-05-27; WL 115-11-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: SoFi Stadium, 1000 S. Prairie Avenue, within 2 km, centered around NL 33-57-12; WL 118-20-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

Frequency Information

MOBILE: AT&T Stadium, 1 AT&T Way, within 2 km, centered around NL 32-44-52; WL 97-05-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Lincoln Financial Field, within 2 km, centered around NL 39-54-02; WL 75-10-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Fedex Field, 1600 Fedex Way, within 2 km, centered around NL 38-54-27; WL 76-51-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Soldier Field, 1410 S. Museum Campus Dr., within 2 km, centered around NL 41-51-44; WL 87-37-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

Frequency Information

MOBILE: Ford Field, 2000 Brush Street, within 2 km, centered around NL 42-20-24; WL 83-02-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Lambeau Field, 1265 Lombardi Ave., within 2 km, centered around NL 44-30-04; WL 88-03-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: US Bank Stadium, 900 So. 5th Street, within 2 km, centered around NL 44-58-26; WL 93-15-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Mercedes Benz Stadium, within 2 km, centered around NL 33-45-18; WL 84-24-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

Frequency Information

MOBILE: Bank of America Stadium, within 2 km, centered around NL 35-13-33; WL 80-51-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Mercedes Benz Superdome, 1500 Poydras St., within 2 km, centered around NL 29-57-03; WL 90-04-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Raymond James Stadium, within 2 km, centered around NL 27-58-33; WL 82-30-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: University of Phoenix Stadium, 1 Cardinals Drive, within 2 km, centered around NL 33-31-39; WL 112-15-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

Frequency Information

MOBILE: SoFi Stadium, 1000 S. Prairie Avenue, within 2 km, centered around NL 33-57-12; WL 118-20-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Levi's Stadium, within 2 km, centered around NL 37-24-11; WL 121-58-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Qwest Field, 800 Occidental Ave South, within 2 km, centered around NL 47-35-42; WL 122-19-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

MOBILE: Aloha Stadium, 99-500 Salt Lake Blvd, within 2 km, centered around NL 21-22-22; WL 157-55-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20M0D7W	250 mW (ERP)	

Frequency Information

MOBILE: Camping World Stadium, 1 Citrus Bowl Place, within 2 km, centered around NL 28-32-21; WL 81-24-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3650-3700 MHz	MO	20MOD7W	250 mW (ERP)	

Special Conditions:

- (1) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.
- (2) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (3) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (4) 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.
- (5) Licensee shall be aware that FSS earth stations are licensed above 3700 MHz and if any interference occurs, the experimental licensee of this authorization will be subject to immediate shut down.
- (6) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (7) National Football League must coordinate its operations in 3550-3700 MHz band with one or more authorized Spectrum Access System (SAS) administrators to obtain channel assignments and avoid causing harmful interference to authorized users of the band, including General Authorized Access (GAA) users.