

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

EXPERIMENTAL

(Nature of Service)

WJ9XLP

(Call Sign)

XT FX MO

(Class of Station)

0233-EX-ST-2016

(File Number)

NAME Quinteccent Inc

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:

The goal is to measure the antenna patterns and array coupling of a set of patent pending HF antennas. The array coupling is measured in a similar manner to the antenna pattern

Station Locations

- (1) Radium Springs (DONA ANA), NM - NL 32-32-40; WL 106-47-44; MOBILE: , within 10 km

Frequency Information

Radium Springs (DONA ANA), NM - NL 32-32-40; WL 106-47-44; MOBILE: , within 10 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1-30 MHz	FX	NON	0.66 mW (ERP)	0.01 %
30-50 MHz	FX	NON	630 mW (ERP)	0.01 %
50-74.6 MHz	FX	NON	10 W (ERP)	0.01 %

This authorization effective September 12, 2016 and
will expire 3:00 A.M. EST March 13, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Radium Springs (DONA ANA), NM - NL 32-32-40; WL 106-47-44; MOBILE: , within 10 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
75.4-108 MHz	FX	N0N	10 W (ERP)	0.01 %
137-150 MHz	FX	N0N	10 W (ERP)	0.01 %
150-225 MHz	FX	N0N N0N	22 W (ERP)	0.01 %
402-406 MHz	FX	N0N	20 W (ERP)	0.01 %
406.1-500 MHz	FX	N0N	20 W (ERP)	0.01 %

Special Conditions:

- (1) 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.
- (2) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Operation is subject to notification of the following within 50 miles of the test area:
 - a) All services in 220 MHz
 - b) 218-219 MHz Service
 - c) 220-222 MHz Service
 - d) Paging services in 35 MHz, 43 MHz, 152, MHz, 158 MHz and, 152 MHz/158 MHz and 454 MHz/459 MHz
 - e) General Aviation Air-Ground Service in 454 MHz/459 MHz
- (5) User must design their antenna configuration so that the transmit antenna is NOT pointing eastwards, limiting the radiation to an azimuth between 170 degrees Reference True North (RTN), clockwise to 360 degrees RTN (North).

Special Conditions:

- (6) User must schedule their operations with the AFC-WSMR office, at least 96 hours in advance, via e-mail to usarmy.wsmr.imcom-central.list.dodafc@mail.mil. User will provide a final copy of the applicable FCC license.
- (7) Experimental licensee must coordinate with WSMR prior to operations.

DOD Area Frequency Coordinator, WSMR
ATTN: DoD AFC, WSMR
124 Crozier St.
White Sands, NM 88002-5526
COM: 575-678-5417 / Fax: 575-678-5281

Mr. Richard Wyman
NIPR: richard.j.wyman2.civ@mail.mil
COM: 575-678-3402, DSN 258

Mr. Ralph Walborn
NIPR: ralph.l.walborn.civ@mail.mil <<mailto:ralph.walborn@us.army.mil>>
COM: 575-678-1510

Mr. Gary Austin
NIPR: gary.l.austin.civ@mail.mil
COM 575-678-3311

- (8) Operation is not permitted in the following bands:
 - a. 74.6-75.4 MHz
 - b. 108-137 MHz
 - c. 328.6-335.4 MHz
 - d. 406-406.1 MHz
 - e. Avoid HF AM(R)S bands
- (9) Stop buzzer point of contact is Mr. Ken Limparis at (443) 838-5447.
- (10) The following frequencies are to be excluded from use in order to prevent harmful interference to NASA operations at White Sands Test Facility:
 - 166.5250 MHz +/- 10 KHz
 - 166.8375 MHz +/- 10 KHz
 - 167.2750 MHz +/- 10 KHz
 - 168.4125 MHz +/- 10 KHz
 - 169.2125 MHz +/- 10 KHz
 - 407.2375 MHz +/- 10 KHz
 - 407.4375 MHz +/- 10 KHz
 - 407.6375 MHz +/- 10 KHz
 - 414.1375 MHz +/- 10 KHz
 - 416.2375 MHz +/- 10 KHz
 - 416.6375 MHz +/- 10 KHz