

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WJ9XPO

(Call Sign)

1235-EX-ST-2016

(File Number)

NAME Verizon Wireless

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:

Understand the characteristics of mmWave operating bands, specifically 28GHz, including channel bandwidths, and U/L ratios for residential/commercial deployments.

Station Locations

- (1) Euless (TARRANT), TX - NL 32-51-04; WL 97-04-13; MOBILE: Euless, TX, within 1.5 km, centered around NL 32-51-04; WL 97-04-13
- (2) South Plainfield (MIDDLESEX), NJ - NL 40-33-17; WL 74-25-48; MOBILE: South Plainfield, NJ, within 1.5 km, centered around NL 40-33-17; WL 74-25-48

Frequency Information

Euless (TARRANT), TX - NL 32-51-04; WL 97-04-13; MOBILE: Euless, TX, within 1.5 km, centered around NL 32-51-04; WL 97-04-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.5 GHz	FX	800MW9W	100 W (ERP)	
27.5-28.5 GHz	FX	800MW9W	630.957 W (ERP)	
27.5-28.35 GHz	FX	400MW7W	47.8 W (ERP)	

This authorization effective September 23, 2016 and
will expire 3:00 A.M. EST February 19, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MW7W	47.8 W (ERP)	
27.5-28.35 GHz	MO	400MW7W 800MW7N	47.8 W (ERP)	
27.5-28.5 GHz	MO	100MW7W 200MW7W 400MW7W 800MW7W	2512 mW (ERP)	
27.5-28.5 GHz	MO	800MG7W 800MW7W 800MW7W	19.95 W (ERP)	
27.525-28.325 GHz	FX	800MG7W 800MW7W 800MG7W 800MK1W	630.95 W (ERP)	

South Plainfield (MIDDLESEX), NJ - NL 40-33-17; WL 74-25-48; MOBILE: South Plainfield, NJ, within 1.5 km, centered around NL 40-33-17; WL 74-25-48

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27.5-28.5 GHz	MO	800MG7W 800MW7W 800MW7W	19.95 W (ERP)	
27.525-28.325 GHz	FX	800MG7W 800MW7W 800MG7W 800MK1W	630.95 W (ERP)	

Special Conditions:

- (1) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (2) 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.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) In each proposed venue, the applicant must coordinate with the Fixed Microwave Service licensees prior to commencing test operations.
- (5) Prior to operation, licensee must coordinate with stations authorized to operate in these frequency bands that are located within a within a 25 mile radius of the transmitter.

Special Conditions:

- (6) Prior to the start of operations in the 27.5 - 28.5 GHz band, licensee must coordinate and notify all eighteen (18) National Spectrum Managers Association (NSMA) frequency coordinator by e-mail. The notice must include the name and contact information of the stop buzzer personnel. It must also include the testing parameters, day and times of each testing. Below is the website that has all of the frequency coordinator point of contact information.

NSMA contact information can be found in the website:

http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave

- (7) Operations in the 27.5 - 28.5 GHz authorize fixed station antennas to only point north to east (azimuth 0 degree to 90 degrees) or west to north (azimuth 270 to 360 degrees). Any fixed station transmission towards the south, south-west or south-east are not authorized.
- (8) The maximum fixed station antenna elevation angle is no greater than zero degree.
- (9) Experimental station shall use the minimum power level necessary to close the communications link to minimize potential interference to licensed users.