PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION

455 12TH STREET, S.W.

WASHINGTON, D.C. 20554

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## Report No. 491 EXPERIMENTAL ACTIONS

The Commission, by its Office of Engineering and Technology, Experimental Licensing Branch, granted the following experimental applications during the period from 4/1/17 to 4/30/17:

* **BOEING COMPANY, THE WI2XUU 0055-EX-CN-2017**

New experimental to operate on 3.2824, 4.600 and 6.000 MHz to verify electromagnetic emissions.

Mobile: 747 Test Ramp San Antonio,TX

* **BOEING COMPANY, THE WI2XUT 0061-EX-CN-2017**

New experimental to operate in 121.150 - 131.300 MHz to verify mutual electromagnetic compatibility of the AMP upgrade with all existing avionics systems on the VC-25 aircraft.

Mobile: San Antonio, TX

* **COUNTY OF ONIEDA WI2XTL 0027-EX-CN-2017**

New experimental to operate in 9000.00 - 9200.00 MHz to test ground based radar

Fixed: Rome (Oneida), NY

* **DAVID DAY WI2XUF 0068-EX-CN-2017**

New experimental to operate on 465 kHz

For Amateur testing

Fixed: Hendersonville (Henderson), NC

* **DYNETICS, INC. WI2XWC 0167-EX-CN-2017**

New experimental to operate on 3 GHz to conduct Radar test and demo

Mobile: Nationwide Temporary Fixed Ground Demonstrations

* **ERICSSON WI2XUX 0029-EX-CN-2017**

New experimental to operate on 28 GHz for testing 5G technology

Fixed & Mobile: Cherry Hill (Camden), NJ; King of Prussia (Montgomery), PA; Philadelphia (Philadelphia), PA; Lakehurst (Ocean), NJ

* **ERICSSON WI2XUY 0086-EX-CN-2017**

New experimental to operate on 5 GHz and 28 GHz for Testing 5G technology

Mobile: San Jose (Santa Clara), CA

* **GRYPHON SENSORS WI2XQR 0205-EX-CN-2016**

New experimental to operate in 9300-9800 MHz for radar testing and demonstration of the system in rural and urban environments.

Mobile: Transportable FX throughout the contiguous United States

* **HARRIS CORPORATION WI2XUI 0146-EX-CN-2017**

New experimental to operate on 9 GHz to test precision approach radar system.

Fixed: Van Nuys (Los Angeles), CA

* **HARRIS CORPORATION WI2XUJ 0147-EX-CN-2017**

New experimental to operate on 9 GHz to test precision approach radar system.

Fixed: Van Nuys (Los Angeles), CA

* **INTEL CORPORATION WI2XUN 0185-EX-CN-2017**

New experimental to operate in 26-29 GHz to conduct research and testing.

Mobile: San Jose, CA

* **L3 COMMUNICATIONS WI2XTP 0106-EX-CN-2017**

New experimental to operate in 9210.00 - 9810.00 MHz for airborne radar testing

Mobile: Airborne, River MOA, OK

* **LOCKHEED MARTIN CORPORATION WI2XSE 0134-EX-CN-2016**

New experimental to operate in 1670.00 - 2375.00 MHz to conduct test for Fury Unmanned Aircraft system.

Mobile: Yuma, AZ. Within 30 nm of coordinates Max alt 15000 ft;

Hawthorne, NV. Within 30 nm of coordinates Max alt 15000 ft

* **LOCKHEED MARTIN CORPORATION WI2XSF 0047-EX-CN-2017**

New experimental to operate on 2.3 GHz to test radio frequencies in that band.

Mobile: Moorestown, NJ

* **MOTOROLA SOLUTIONS, INC. WI2XUM 0162-EX-CN-2017**

New experimental to operate on 3.0 GHz to test export equipment

Fixed & Mobile: Schaumburg, IL; Chicago, IL; Winter, WI

* **NYU TANDON SCHOOL OF ENGINEERING WI2XSY 0015-EX-CN-2017**

New experimental to operate in 83.50 - 160.00 GHz for Testing 5G propagation in those bands

Fixed & Mobile: Brooklyn (Kings), NY; New York City, NY; Riner (Montgomery), VA

* **PERFECTO MOBILE WI2XWN 0234-EX-CN-2017**

New experimental to operate on 1575 MHz for testing radionavigation satellite service (RNSS) equipment and systems using

Fixed: Chandler (Maricopa), AZ

* **QUALCOMM TECHNOLOGIES, INC. WI2XTO 0142-EX-CN-2017**

New experimental to operate in 5850.00 - 5925.00 MHz to test and evaluate 802.11P DSRC devices.

Mobile: Continental US

* **QUALCOMM TECHNOLOGIES, INC. WI2XTR 0145-EX-CN-2017**

New experimental to operate on 2310.00 MHz for development and demonstration of LTE technologies on mobile devices.

Mobile: Continental US

* **RAYTHEON INTEGRATED DEFENSE SYSTEMS WI2XUS 0205-EX-CN-2017**

New experimental to operate in 903.00 - 918.75 MHz to test frequencies for highway tolling activity.

Fixed: Fort Devens (Worchester), MA

* **SAAB DEFENSE AND SECURITY USA, LLC WI2XUG 0135-EX-CN-2017**

New experimental to operate in 8.7-9 GHz to develop the GIRAFFE 1X baseline to meet the performance requirements for TRL-8 for the U.S. Army.

Fixed: Manlius (Onondaga), NY

* **SATCOM DIRECT, INC. WI2XQO 0153-EX-CN-2016**

New experimental to operate in 1616-1627 MHz, 1626.5-1660.5 MHz, 14-14.5 GHz and 29-30 GHz for testing and development of an aircraft router, WiFi hub and basic airtime services.

Fixed: Melbourne (Brevard), FL

* **SENSUS SPECTRUM LLC WI2XTJ 0020-EX-CN-2017**

New experimental to operate on 1575.42 MHz for use of GPS reradiators to test RNSS smart grid devices.

Fixed: Morrisville (Wake), NC

* **SPACE EXPLORATIONS TECHNOLOGIES WI2XUB 0101-EX-CN-2017**

New experimental on 2040.5675 MHz and 2090 MHz to provide a command path to a space vehicle.

Fixed & Mobile: Cape Canaveral (Brevard), FL; Vandenberg AFB (Santa Barbara), CA; San Pedro (Los Angeles), CA

* **SENSUS SPECTRUM LLC WI2XUA 0112-EX-CN-2017**

New experimental to operate in various bands from 413.925-463.8 MHz and 901-960 MHz for unit level, system level and traffic loading tests on smart grid devices.

Mobile: Morrisville, NC: Indoor lab testing

* **SKYWERX INDUSTRIES WI2XTF 0114-EX-CN-2017**

New experimental to operate in 3550-3650 MHz for market trial until grant of authority from a Spectrum Access System ("SAS") and Environmental Sensing Capability ("ESC") to operate the authorized equipment and facilities on a General Authorized Access ("GAA") basis.

Fixed: Throughout state of CO

* **SPIDERCLOUD WIRELESS, INC WI2XUQ 0194-EX-CN-2017**

New experimental in 2500-2690 MHz to test multiple vendor portable equipment interoperating with the femto cell base station under development.

Fixed: San Diego (San Diego), CA

* **STROUD, JOSEPH L. WI2XUL 0188-EX-CN-2017**

New experimental to operate in 465-478 kHz for experimentation with various antenna configurations.

Fixed & Mobile: Markle, IN

* **THALES INFLYT EXPERIENCE WI2XUK 0190-EX-CN-2017**

New experimental to operate in 29500.00 - 30000.00 MHz to test a fixed antenna earth station.

Fixed: Irvine, CA

* **WOODS HOLE OCEANOGRAPHIC INSTITUTION WI2XUH 0131-EX-CN-2017**

New experimental to operate on 16.15 MHz for collection of surface current data.

Fixed: Nantucket (Nantucket), MA