

PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION

455 12TH STREET, S.W.

WASHINGTON, D.C. 20554

News media information 202/418-0500 Fax-On-Demand 202/418-2830

Released: December 7, 2011

Report No. 439 EXPERIMENTAL ACTIONS

The Commission, by its Office of Engineering and Technology, Experimental Licensing Branch, granted the following experimental applications during the period from 8/1/11 to 10/1/11:

- **WF2XRX THE BOEING COMPANY 0105-EX-PL-2011**
New experimental to operate in 0.001 – 50000 kHz for aircraft lightning testing.
Fixed: Palmdale, CA
- **WF2XUB BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC. 0475-EX-PL-2006**
New experimental to operate in 15-29 MHz, 29.975 MHz, 30 - 74.8 MHz, 75.20 – 108 MHz, 109.325 - 2856.20 MHz, 2900 – 4200 MHz and 15150 – 15350 MHz for antenna testing
Fixed & Mobile: Merrimack (Hillsborough), NH
- **WF2XTI THE BOEING COMPANY 0095-EX-PL-2011**
New experimental to operate in frequency bands between 30 MHz and 18000 MHz to support aircraft shielding effectiveness testing of the 787 airframe.
Fixed: San Antonio, TX
- **WF2XVE CURTIS-STRAUS LLC 0242-EX-PL-2011**
New experimental to operate in 80 – 2700 MHz for RF Immunity testing.
Fixed: Littleton (Middlesex), MA
- **WF2XTD RAYTHEON SAS 0127-EX-PL-2011**
New experimental to operate in various bands between 100 MHz - 60 GHz for laboratory testing of various antennas under U.S. Navy contract.
Fixed: El Segundo (Los Angeles), CA
- **WF2XXM GARMIN INTERNATIONAL INC. 0422-EX-PL-2011**
New experimental to operate on 136.975 MHz to test avionic data link.
Fixed: Olathe (Johnson), KS
- **WF2XUY MOTOROLA SOLUTIONS, INC. 0292-EX-PL-2011**
New experimental to operate in 152.03 - 152.81 MHz and 157.77 - 157.77 MHz to test, evaluate and demonstrate a prototype radio communications system for public safety entities
Mobile: Farrar, MO; Bloomfield, MO; Scott, MO; High Ridge, MO; Lawrenceton, MO
- **WF2XVR THE BOEING COMPANY 0329-EX-PL-2011**
New experimental to operate in 156.025 - 162.025 MHz for testing automatic identification system (AIS).
Fixed: Vandalia (Fayette), IL

- **WF2XWK ITRON, INC. 0346-EX-PL-2011**
 New experimental to operate on frequencies between 169.40625 MHz and 169.46875 MHz for field testing of automatic meter reading system for export.
 Fixed: Waseca (Waseca), MN; Liberty Lake (Spokane), WA
- **WF2XXJ RAPPAHANNOCK ELECTRIC COOPERATIVE 0400-EX-PL-2011**
 New experimental to operate in 174.00 - 216.00 MHz for White Space experiments.
 Fixed & Mobile: Criglersville, VA; Bowling Green (Caroline), VA; Culpeper (Culpeper), VA; Tappahannock (Essex), VA; Fredericksburg (Spotsylvania), VA; King William (King William), VA; Louisa (Louisa), VA; Paytes (Spotsylvania), VA; Dawn (Caroline), VA; Glenora (Spotsylvania), VA; Linden (Warren), VA
- **WF2XVS L3 NOVA ENGINEERING 0297-EX-PL-2011**
 New experimental to operate in 420 – 440 MHz to test and evaluate seismic sensors.
 Mobile: Within the boundaries of Turner Farm Park,, Great Falls, VA
- **WF2XWN ABBOTT DIABETES CARE 0338-EX-PL-2011**
 New experimental to operate on 433 MHz for equipment testing.
 Mobile: Santa Fe, NM
- **WF2XWM ABBOTT DIABETES CARE 0343-EX-PL-2011**
 New experimental to operate on 433 MHz for equipment testing.
 Mobile: Atlanta, GA
- **WF2XTH THE BOEING COMPANY 0099-EX-PL-2011**
 New experimental to operate in frequency bands between 451 MHz and 50000 MHz for testing an antenna system.
 Fixed: St. Charles (St. Charles), MO
- **WF2XWV GREAT RIVER ENERGY 0303-EX-PL-2011**
 New experimental to operate on 451.075 MHz, 451.225 MHz, 451.25 MHz, 456.075 MHz, 456.225 MHz, and 456.25 MHz for comparison of existing equipment with TETRA equipment available in other nations.
 Fixed & Mobile: Elk River (Sherburne), MN; Milaca (Mille Lacs), MN; Grand Rapids (Itasca), MN
- **WF2XSV PHOENIX GLOBAL SUPPORT 0145-EX-PL-2011**
 New experimental to operate in 460.40 - 496.00 MHz, 869.00 - 894.00 MHz, 921.00 - 960.00 MHz, 1850.00 - 1880.00 MHz, 1930.00 - 1990.00 MHz and 2110.00 - 2155.00 MHz to conduct training classes on equipment operation.
 Mobile: Fayetteville, NC
- **WF2XXD RLM COMMUNICATIONS, INC. 0357-EX-PL-2011**
 New experimental to operate on 713 MHz for testing and Training of Radio Frequency Systems
 Fixed: Spring Lake (Cumberland), NC
- **WF2XWB MOTOROLA SOLUTIONS, INC. 0337-EX-PL-2011**
 New experimental to operate in 758 – 768 MHz and 788 – 798 MHz to test LTE technology.
 Fixed & Mobile: Schaumburg, IL; Palatine, IL; Rolling Meadows, IL
- **WF2XUI BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC. 0223-EX-PL-2011**
 New experimental to operate in 880 – 915 MHz, 1710 – 1785 and 15.15 - 15.35 GHz for testing an in flight calibration and verification of a radio direction finding system on an unmanned aircraft.
 Mobile: Victorville, CA
- **WF2XUS SENSIS CORPORATION 0267-EX-PL-2011**
 New experimental to operate in 895 – 942 MHz for radar system testing
 Fixed: Manlius (Onondaga), NY
- **WF2XXG WAL-MART STORES, INC. 0355-EX-PL-2011**
 New experimental to operate in 902 – 928 MHz for RFID testing.

Fixed: Fayetteville (Washington), AR

- **WF2XTZ ROCKWELL COLLINS, INC. 0219-EX-PL-2011**
New experimental to operate on 1030 MHz for test and development of avionics equipment.
Fixed: Melbourne (Brevard), FL
- **WF2XUZ GENERAL DYNAMICS 0225-EX-PL-2011**
New experimental to operate on 1227.6 MHz and 1575.42 MHz using GPS re-radiator to test GPS equipment to support testing of a US Army Shelter program to include the design and build of DE CGS retrofit systems.
Fixed: Scottsdale (Maricopa), AZ
- **WF2XVB THE BOEING COMPANY 0285-EX-PL-2011**
New experimental to operate on 1227.60 MHz and 1575.42 MHz for testing stand-alone GPS receivers.
Fixed: St. Charles (St. Charles), MO
- **WF2XVU RAYTHEON MISSILE SYSTEMS 0323-EX-PL-2011**
New experimental to operate on 1227.60 MHz and 1575.42 MHz for testing radionavigation satellite service (RNSS) equipment and systems.
Fixed: Redstone Arsenal (Madison), AL
- **WF2XVJ LOCKHEED MARTIN CORPORATION 0308-EX-PL-2011**
New experimental to operate on various frequencies between 1250 MHz and 1390 MHz to test PSTAR-ER portable radar.
Fixed & Mobile: Syracuse Onondaga, NY
- **WF2XSE LOCKHEED MARTIN CORPORATION 0141-EX-PL-2011**
New experimental to operate in 1271 – 1279 MHz and 1363 – 1381 MHz for fixed and mobile calibration for TPS-77 radar.
Fixed & Mobile: Syracuse (Onondaga), NY
- **WF2XWY NORTHROP GRUMMAN SYSTEMS CORPORATION 0316-EX-PL-2011**
New experimental in 1435.867-1517.133 MHz, 14.7145-14.83 GHz and 15.15-15.35 GHz for testing of a tactical targeting network technology, a mini-tactical common, data link surface terminal and a mini-tactical common data link airborne terminal under U.S. Army contract.
Fixed & Mobile: Melbourne (Brevard), FL
- **WF2XXU OSU-UNIVERSITY MULTISPECTRAL LABORATORIES, LLC 0289-EX-PL-2011**
New experimental to operate on 1500 MHz and 1600 MHz for simulation of radio systems for project research.
Fixed & Mobile: Within the confines of the Chilocco, OK Campus.
- **WF2XVC NORTHEAST ILLINOIS REGIONAL COMMUTER RAILROAD CORPORATION 0247-EX-PL-2011**
New experimental to operate on 1575 MHz for testing GPS equipment.
Fixed: Chicago (Cook), IL
- **WF2XVK CESSNA AIRCRAFT COMPANY 0281-EX-PL-2011**
New experimental to operate on 1575.42 MHz for testing GPS equipment.
Fixed: Wichita (Sedgwick), KS
- **WF2XSG LOCKHEED MARTIN CORPORATION 0130-EX-PL-2011**
New experimental to operate in 1710-1850 MHz to perform a flight test demo.
Mobile: Fort Worth (Tarrant), TX
- **WF2XVV RAYTHEON MISSILE SYSTEMS 0331-EX-PL-2011**
New experimental to operate in 1755 – 1850 MHz and 4500 – 4700 MHz to develop improved interference resistance for command and control signals used when its products are in flight
Mobile: Tucson (PIMA). AZ - airborne below 10000 ft

- **WF2XTW THE BOEING COMPANY 0221-EX-PL-2011**
 New experimental to operate in 1805 – 1890 MHz for testing GSM Pico Cells operations.
 Mobile: Grant County International Airport, Moses Lake, WA; Glasgow Industrial Airport, Glasgow, MT; Klamath Falls Airport, Klamath Falls, OR; Temporary Fixed, Aircraft on the Ground, Everett, WA; Temporary Fixed, Aircraft on the Ground, Seattle, WA; Temporary Fixed, Aircraft on the Ground, Renton, WA
- **WF2XYF ERICSSON INC 0441-EX-PL-2011**
 New experimental to operate in 1920.00 - 1930.00 MHz, 2110.00 - 2120.00 MHz, 2500.00 - 2520.00 MHz and 2620.00 - 2640.00 MHz for testing 3G and LTE devices and applications.
 Fixed & Mobile: San Jose (Santa Clara), CA
- **WF2XWH TERRESTAR LICENSE INC., DEBTOR-IN-POSSESSION 0350-EX-PL-2011**
 New experimental to operate in 2005 – 2010 MHz and 2195 – 2200 MHz to operate a prototype antenna and transceiver designed for application to automobiles.
 Mobile: Within the Continental United States
- **WF2XVL PACIFIC MARITIME INSTITUTE 0307-EX-PL-2011**
 New experimental to operate in marine bands between 2174.50 kHz and 157.50 MHz for maritime radio operator training.
 Fixed: Seattle (King), WA
- **WF2XQP THE BOEING COMPANY 0003-EX-PL-2011**
 New experimental to operate in 2200 – 2500 MHz, 14400 – 14850 MHz, 14400 – 14850 MHz and 15150 – 15350 MHz for testing communication link between airborne and ground operations.
 Fixed & Mobile: Lakehurst, NJ; Middletown, DE; Greenville, TX
- **WF2XWL LOCKHEED MARTIN CORPORATION 0339-EX-PL-2011**
 New experimental to operate on 2270.50 MHz, 2280.50 MHz, 2281.50 MHz, 4401.50 MHz, 4410.50 MHz, and 4411.50 MHz to support of the extended area protection system missile test.
 Mobile: Grand Prairie (Dallas), TX; Ft Worth (Tarrant), TX
- **WF2XXF WINGS LAB, UNIVERSITY OF WISCONSIN-MADISON 0360-EX-PL-2011**
 New experimental to operate on 2525.50 MHz for GENI WiMAX Infrastructure testing
 Fixed: Madison (Dane), WI
- **WF2XWA THE BOEING COMPANY 0325-EX-PL-2011**
 New experimental to operate on various frequencies between 4199 MHz and 31000 MHz for testing a satellite system.
 Mobile: El Segundo (Los Angeles), CA
- **WF2XQR RAYTHEON MISSILE SYSTEMS 0543-EX-PL-2010**
 New experimental to operate on select frequencies between 4445 MHz and 6700 MHz for developing a radio system
 Fixed & Mobile: Tucson (Pima), AZ
- **WF2XVY NORTHROP GRUMMAN SYSTEMS CORPORATION 0319-EX-PL-2011**
 New experimental in 4512-4940 MHz for testing of equipment pursuant to Army Integrated Air and Missile Defense (IAMD) contract.
 Fixed: Huntsville (Madison), AL
- **WF2XWQ MOTOROLA SOLUTIONS INC. (CANOPY) 0369-EX-PL-2011**
 New experimental to operate in 4600 – 4800 MHz to test outdoor performance fixed and mobile data network.
 Fixed & Mobile: Schaumburg (Cook), IL
- **WF2XWD SENSIS CORPORATION 0287-EX-PL-2011**
 New experimental to operate on 5650 MHz for testing Sea Giraffe (SG) radar.
 Fixed: Manlius (Onondaga), NY

- **WF2XWG RIIMIC LLC, D.B.A. SUNAIR ELECTRONICS 0345-EX-PL-2011**
New experimental to operate in 5888 kHz - 23146.5 kHz to develop HF single-sideband equipment.
Fixed: Fort Lauderdale (Broward), FL
- **WF2XQQ 4-D SECURITY SOLUTIONS, INC. 0004-EX-PL-2011**
New experimental to operate in 8750 – 8950 MHz for testing surveillance radars.
Fixed: South Plainfield (Middlesex), NJ; Burlington (Racine), WI
- **WF2XVD LAUFER WIND GROUP LLC 0295-EX-PL-2011**
New experimental to operate in 9380 – 9440 MHz to test and develop of radar activated FAA obstruction lighting system.
Fixed & Mobile: Bedford, NH; Setauket, NY; Calverton, NY
- **WF2XWJ MILTEC CORPORATION 0347-EX-PL-2011**
New experimental to operate in 9380 - 9440 MHz to track and detect of people and vessels using automated surveillance systems.
Fixed: Kingsport (Hawkins), TN; Guntersville (Marshall), AL
- **WF2XVM LOCKHEED MARTIN CORPORATION 0314-EX-PL-2011**
New experimental to operate on 9410 MHz for Commercial Furuno radar testing.
Fixed & Mobile: Within the Continental US
- **WF2XYG OCEANTRONICS, INC. 0452-EX-PL-2011**
New experimental to operate in 14369.00 - 14432.80 MHz for satellite testing
Mobile: Honolulu, HI
- **WF2XWR THE BOEING COMPANY 0381-EX-PL-2011**
New experimental to operate on 20100 and 29800 MHz for demonstrations Ka-band satellite earth terminal system.
Fixed: Temporary Fixed operations, Anaheim, CA
- **WF2XXE SAMSUNG TELECOMMUNICATIONS AMERICA 0362-EX-PL-2011**
New experimental to operate on 27925 MHz for testing short range NLOS communication with multi-Gbps data rates
Fixed & Mobile: Richardson (Collin), TX
- **WF2XVI GENERAL DYNAMICS ADVANCED INFORMATION SYSTEMS 0275-EX-PL-2011**
New experimental to operate on 94 GHz for ground imaging research using traditional synthetic aperture radar techniques.
Mobile: Ypsilanti, MI, aircraft flying at approximately 15,000 ft altitude
- **WF2XWE DUCOMMUN LABARGE TECHNOLOGIES, INC 0277-EX-PL-2011**
New experimental to operate in 94.00 – 95.00 GHz for testing an advance technology security system.
Fixed: Huntsville (Madison), AR