

PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
455 12TH STREET, S.W.
WASHINGTON, D.C. 20554

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Report No. 497 EXPERIMENTAL ACTIONS

The Commission, by its Office of Engineering and Technology, Experimental Licensing Branch, granted the following experimental applications during the period from 10/1/17 to 10/31/17:

- **AMERICAN TOWER INDOOR DAS LLC WJ2XCS 0429-EX-CN-2017**
New experimental to operate in 3550-3700 MHz for field trials for the purpose of investigating and verifying the performance of 3.5 GHz LTE products.
Mobile: Fort Worth, TX
- **ASGARDIA AG-USA, LLC WJ2XBB 0412-EX-CN-2017**
New experimental to operate in 1615.035-1617.495 MHz to demonstrate long term storage of data in Low Earth Orbit.
Mobile: Low Earth Orbit 500 km Altitude Duplex Radio
- **AUDACY CORPORATION WI2XYB 0127-EX-CN-2017**
New experimental to operate on 20.0125 GHz, 20.19 GHz and 29.5-29.52 GHz for a cubesat which is intended to help standardize and simplify satellite communications.
Mobile: LEO Satellite space orbit, 575 km altitude, 98 degree inclination
- **BOEING COMPANY, THE WI2XTY 0160-EX-CN-2017**
New experimental to operate on 291.40 MHz to support sonobouy/mBouy test and development.
Mobile Flight 37000 ft AGL, Seattle, WA; Flight 37000 ft AGL, China Lake, CA; Flight 37000 ft AGL, Hickam AFB, Honolulu, HI; Flight 37000 ft AGL, Hanover, MD
- **BOEING COMPANY, THE WI2XZC 0406-EX-CN-2017**
New experimental to operate in 26.00 - 18000.00 MHz for testing antennas
Fixed: Seattle (King), WA
- **CATERPILLAR, INC. WI2XHO 0183-EX-PL-2016**
New experimental to operate in 699.00 - 3800.00 MHz for testing heavy equipment electronics.
Fixed & Mobile: Mossville (Peoria), IL; Green Valley (Pima), AZ; Washington (Tazewell), IL

- **CENTURYTEL BROADBAND SERVICES, LLC WJ2XDF 0787-EX-CN-2017**
 New experimental to operate in 3500-3700 MHz to test various prototype radio systems
 Fixed: Pasco (Franklin), WA; Burbank (Walla Walla), WA; Hermiston (Umitilla), OR
- **COMTECH SYSTEMS, INC. WJ2XCK 0730-EX-CN-2017**
 New experimental to operate in 7-8 GHz to test Modular Transportable Transmission System units.
 Mobile: Orlando, FL
- **GLENN E ELMORE WJ2XBZ 0554-EX-CN-2017**
 New experimental to operate on 135 kHz and 472 kHz for amateur testing
 Fixed: Santa Rosa (Sonoma), CA
- **GLOBALSTAR, INC WJ2XDY 0523-EX-CN-2017**
 New experimental to operate in 2483.5-2500 MHz to communicate with cubesat Asgardia-1.
 Mobile: Non-geostationary space orbit, 1414 km alt, 52 deg Inclination
- **INSITU WI2XCJ 0671-EX-PL-2015**
 New experimental to operate in 1370.00 - 2495.00 MHz to test UAVs.
 Fixed & Mobile: Airborne with maximum Flight Level of 20K ft, Florence, AZ
- **INSITU WI2XCU 0787-EX-PL-2015**
 New experimental to operate on select frequencies between 1800.00 and 2310.00 MHz to support a data link on board of manned aircraft.
 Mobile Airborne 6,000 Ft Max Flight Level, Throughout the US
- **INSITU WI2XHD 0186-EX-PL-2016**
 New experimental to operate in 5030.00 - 5040.00 MHz to support UAS command and control.
 Fixed: Bingen, WA; Boardman, OR; Hood River, OR;
 Wasco Butte, OR; Jackass Spring, OR; The Dalles Airport, WA
- **INSITU WI2XYL 0456-EX-CN-2017**
 New experimental to operate in 4400.00 - 4800.00 MHz to support UAS command and control.
 Fixed: Bingen, WA; Boardman, OR; Wasco Butte, OR; Jackass Spring, OR
- **L3 TECHNOLOGIES WJ2XCY 0752-EX-CN-2017**
 New experimental to operate on various frequencies between 151.655 and 939.675 MHz to calibrate a radio
 Mobile: Powderly, TX
- **LOCKHEED MARTIN CORPORATION WJ2XCT 0214-EX-CN-2017**
 New experimental to operate on 1030.00 MHz to test the Raytheon TPX-57 interrogator.
 Fixed: Syracuse (Onondaga), NY
- **LOCKHEED MARTIN CORPORATION WJ2XBM 0686-EX-CN-2017**
 New experimental to operate in 33-37 GHz to test radar
 Mobile
- **LOCKHEED MARTIN CORPORATION WJ2XCB 0715-EX-CN-2017**
 New experimental to operate in 3400.00 - 3800.00 MHz to study effects of troposcatter emissions.
 Fixed: Moorestown (Burlington), NJ

- **LOCKHEED MARTIN CORPORATION WJ2XCR 0747-EX-CN-2017**
 New experimental to operate in 24450.00 - 24650.00 MHz to test a new small radar.
 Mobile: Orlando, FL
- **LOCKHEED MARTIN CORPORATION WJ2XDE 0772-EX-CN-2017**
 New experimental to operate in 420.00 - 9700.00 MHz for testing and demonstration of an aerostat.
 Mobile: Cudjoe Key, FL
- **PERSISTENT TELECOM INC. WJ2XCU 0680-EX-CN-2017**
 New experimental to operate in 1930-1990 MHz for equipment testing
 Mobile: Within the Continental United States
- **QUALCOMM TECHNOLOGIES, INC WJ2XCX 0758-EX-CN-2017**
 New experimental to operate in 4400.00 - 4940.00 MHz to support a small 5G R&D network.
 Fixed & Mobile: San Diego (San Diego), CA
- **SRI INTERNATIONAL WJ2XDA 0400-EX-CN-2017**
 New experimental to operate on 2.925 GHz to test an experimental S-band radar system.
 Mobile: Ann Arbor, MI
- **SKYSAFE, INC. WJ2XBF 0428-EX-CN-2017**
 New experimental to operate in 433.05-434.79 MHz, 902-928 MHz, 2.4-2.5 GHz and 5.725-5.875 GHz for unmanned aircraft technologies.
 Fixed: Ocotillo, CA
- **SKYWEST AIRLINES WJ2XCV 0378-EX-CN-2017**
 New experimental on 1575.42 MHz to operate a GPS re-radiator inside a hangar to allow testing of aircraft navigation systems.
 Fixed: Salt Lake City (Salt Lake), UT
- **TGM PINNACLE NETWORK SOLUTIONS LLC WJ2XDC 0722-EX-CN-2017**
 New experimental to operate in 3550-3650 MHz for equipment testing
 Fixed: Wichita Falls (Archer), TX; Henrietta (Clay), TX; Iowa Park (Wichita), TX; Wichita Falls (Wichita), TX
- **TEXTRON AVIATION, INC. WJ2XCI 0732-EX-CN-2017**
 New experimental to operate on 1575.42 MHz for testing radionavigation satellite service (RNSS) equipment and systems.
 Fixed: Wichita (Sedgwick), KS
- **TEXTRON AVIATION, INC. WJ2XDB 0779-EX-CN-2017**
 New experimental to operate on 4570.00 and 4600.00 MHz for testing advanced avionics systems.
 Mobile: Beech Factory Airport, Wichita, KS
- **UNITED WIRELESS COMMUNICATIONS, INC. WJ2XDD 0761-EX-CN-2017**
 New experimental to operate in 2502.00 - 2602.00 MHz to test high-speed wireless broadband services
 Fixed: Spearville (Ford), KS