

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WJ2XQW

(Call Sign)

XD FX MO

(Class of Station)

0304-EX-CN-2018

(File Number)

NAME Caterpillar of Delaware Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) Clayton (JOHNSTON), NC - NL 35-39-28; WL 78-25-18; MOBILE: Clayton, NC, within 5 km, centered around NL 35-39-28; WL 78-25-18

Frequency Information

Clayton (JOHNSTON), NC - NL 35-39-28; WL 78-25-18; MOBILE: Clayton, NC, within 5 km, centered around NL 35-39-28; W

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1000 MHz	MO	100KN0N 100KP0N	75 W (ERP)	
1020 MHz	MO	100KN0N 100KP0N	75 W (ERP)	
1040 MHz	MO	100KP0N 100KN0N	75 W (ERP)	

This authorization effective October 12, 2018 and
will expire 3:00 A.M. EST May 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Clayton (JOHNSTON), NC - NL 35-39-28; WL 78-25-18; MOBILE: Clayton, NC, within 5 km, centered around NL 35-39-28; W

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1061.208 MHz	MO	100KP0N 100KN0N	75 W (ERP)	
1082.4322 MHz	MO	100KP0N 100KN0N	75 W (ERP)	
1104.0808 MHz	MO	100KP0N 100KN0N	75 W (ERP)	
1126.1624 MHz	MO	100KP0N 100KN0N	75 W (ERP)	
1171.6594 MHz	MO	100KP0N 100KN0N	75 W (ERP)	
1195.0926 MHz	MO	100KN0N 100KP0N	75 W (ERP)	
1218.9944 MHz	MO	100KN0N 100KP0N	75 W (ERP)	
1243.3743 MHz	MO	100KN0N 100KP0N	75 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1268.2418 MHz	MO	100KP0N 100KN0N	75 W (ERP)	
1293.6066 MHz	MO	100KP0N 100KN0N	75 W (ERP)	
1319.4788 MHz	MO	100KN0N 100KP0N	75 W (ERP)	
1345.8683 MHz	MO	100KN0N 100KP0N	75 W (ERP)	
1372.7875 MHz	MO	100KN0N 100KP0N	75 W (ERP)	
1456.8112 MHz	MO	100KN0N 100KP0N	75 W (ERP)	
1485.9474 MHz	MO	100KP0N 100KN0N	75 W (ERP)	
1515.6663 MHz	MO	100KN0N 100KP0N	75 W (ERP)	

Frequency Information

Clayton (JOHNSTON), NC - NL 35-39-28; WL 78-25-18; MOBILE: Clayton, NC, within 5 km, centered around NL 35-39-28; W

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2000-2310 MHz	FX	100KN0N 100KP0N	8 W (ERP)	
2350-2700 MHz	FX	100KN0N 100KP0N	8 W (ERP)	

Special Conditions:

- (1) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (6) This frequency assignment in one of the bands 1435-1535 or 2310-2390 MHz was coordinated prior to authorization with the Mid-Atlantic Area Frequency Coordinator (AFC), Patuxent River, MD, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the AFC as necessary to ensure compatibility with existing uses.
- (7) Prior to commencing any operations, the licensee must obtain consent from WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T) within 50 miles of the contours of the testing area.
- (8) Coordinate with the Fixed Microwave Service licensees prior to operation in 2350-2700 MHz band.
- (9) Obtain consents from the Educational Broadband Service and Broadband Radio Service licensees prior to operation in 2350-2700 Hz band.
- (10) Operation in 2000-2310 MHz and 2350-2700 MHz bands 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.
- (11) The stop buzzer point of contact is George Yeargin at (919) 280-5596.