

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WF2XAI

(Call Sign)

0190-EX-CR-2018

(File Number)

NAME Caterpillar, 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) PEORIA (PEORIA), IL - NL 40-44-19; WL 89-27-26
- (2) TUCSON (PIMA), AZ - NL 31-50-49; WL 111-08-29

Frequency Information

PEORIA (PEORIA), IL - NL 40-44-19; WL 89-27-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
325 MHz	FX	N0N 2K00A3E	500 W (ERP)	

TUCSON (PIMA), AZ - NL 31-50-49; WL 111-08-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
335 MHz	FX	N0N 2K00A3E	500 W (ERP)	

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Nate Schenkel at (309) 698-5201 or (309) 370-1497.
- (5) Total operation time on any one frequency is expected to be less than 1 hour per month.
- (6) The radiation center of the intended experimental antenna(s) shall not be more than 2 meters from the above ground level.
- (7) For Peoria, IL testing: Operation must coordinate each outdoor testing with Mr. Ed Sanchez, Army Frequency Management Office-Continental US (AFMO CONUS), Fort Sam Houston, TX 78234-5032, at (210) 221-2050 or (210) 221-2820.
- (8) For Tucson, AZ testing:
Operation must coordinate each outdoor testing with Mr. Kenneth Wong, Area Frequency Coordinator, State of Arizona, Fort Huachuca, AZ 85613-5000, at (520) 538-6423.

Operation must prior coordinate with Dr. Andrew Clegg, The National Science Foundation (NSF) at (703) 292-4892 to limited potential interference to their critical operations in the region.

- (9) Caterpillar agrees to cease operations immediately upon notification of interference to any other licensed operations.