

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

EXPERIMENTAL

(Nature of Service)

WL2XFK

(Call Sign)

XT FX MO

(Class of Station)

0420-EX-CN-2020

(File Number)

NAME Cummins 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) Columbus (BARTHOLOMEW), IN - NL 39-10-53; WL 85-53-19; MOBILE: Columbus, within 48 km, centered around NL 39-10-53; WL 85-53-19
- (2) Savannah (CHATHAM), GA - NL 32-04-46; WL 81-06-01; MOBILE: Savannah, within 48 km, centered around NL 32-04-46; WL 81-06-01
- (3) Chapel Hill (ORANGE), NC - NL 35-58-33; WL 79-04-19; MOBILE: Chapel Hill, within 20 km, centered around NL 35-58-33; WL 79-04-19
- (4) Portland (MULTNOMAH), OR - NL 45-31-49; WL 122-39-56; MOBILE: Portland, within 48 km, centered around NL 45-31-49; WL 122-39-56
- (5) St. Paul (RAMSEY), MN - NL 44-58-43; WL 93-05-25; MOBILE: St. Paul, within 48 km, centered around NL 44-58-43; WL 93-05-25
- (6) Wilmington (NEW CASTLE), DE - NL 39-44-14; WL 75-33-52; MOBILE: Wilmington, within 24 km, centered around NL 39-44-14; WL 75-33-52

Frequency Information

Columbus (BARTHOLOMEW), IN - NL 39-10-53; WL 85-53-19; MOBILE: Columbus, within 48 km, centered around NL 39-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.15-5.6 GHz	MO	20M0X7D	0.32 W (ERP)	

This authorization effective November 18, 2020 and
will expire 3:00 A.M. EST March 16, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Columbus (BARTHOLOMEW), IN - NL 39-10-53; WL 85-53-19; MOBILE: Columbus, within 48 km, centered around NL 39-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.65-5.875 GHz	MO	20M0X7D	0.32 W (ERP)	

Savannah (CHATHAM), GA - NL 32-04-46; WL 81-06-01; MOBILE: Savannah, within 48 km, centered around NL 32-04-46; V

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.15-5.6 GHz	MO	20M0X7D	0.32 W (ERP)	
5.65-5.875 GHz	MO	20M0X7D	0.32 W (ERP)	

Chapel Hill (ORANGE), NC - NL 35-58-33; WL 79-04-19; MOBILE: Chapel Hill, within 20 km, centered around NL 35-58-33; V

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.15-5.6 GHz	MO	20M0X7D	0.32 W (ERP)	
5.65-5.875 GHz	MO	20M0X7D	0.32 W (ERP)	

Portland (MULTNOMAH), OR - NL 45-31-49; WL 122-39-56; MOBILE: Portland, within 48 km, centered around NL 45-31-49;

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.16-5.6 GHz	MO	20M0X7D	0.32 W (ERP)	

Frequency Information

Portland (MULTNOMAH), OR - NL 45-31-49; WL 122-39-56; MOBILE: Portland, within 48 km, centered around NL 45-31-49;

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.65-5.875 GHz	MO	20M0X7D	0.32 W (ERP)	

St. Paul (RAMSEY), MN - NL 44-58-43; WL 93-05-25; MOBILE: St. Paul, within 48 km, centered around NL 44-58-43; WL 93-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.15-5.6 GHz	MO	20M0X7D	0.32 W (ERP)	

5.65-5.875 GHz	MO	20M0X7D	0.32 W (ERP)	
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Wilmington (NEW CASTLE), DE - NL 39-44-14; WL 75-33-52; MOBILE: Wilmington, within 24 km, centered around NL 39-44-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.16-5.6 GHz	MO	20M0X7D	0.32 W (ERP)	

5.65-5.875 GHz	MO	20M0X7D	0.32 W (ERP)	
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Special Conditions:

- (1) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (2) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.
- (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.

Special Conditions:

- (4) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (5) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (6) Licensee is strictly prohibited from operating in the 5600 MHz - 5650 MHz frequency band.