

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WL2XDT

(Call Sign)

0655-EX-CN-2020

(File Number)

NAME Robert Bosch LLC

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) MOBILE: Shorview, MN, within 100 km, centered around NL 45-04-44; WL 93-08-49

Frequency Information

MOBILE: Shorview, MN, within 100 km, centered around NL 45-04-44; WL 93-08-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
699-716 MHz	MO	10M0D7W 10M0G7D 10M0G7W 10M0W7D	200 mW (ERP)	
729-746 MHz	MO	10M0D7W 10M0G7D 10M0G7W 10M0W7D	200 mW (ERP)	
824-849 MHz	MO	20M0D7W 20M0G7D	1 W (ERP)	

This authorization effective September 14, 2020 and
will expire 3:00 A.M. EST April 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Shorview, MN, within 100 km, centered around NL 45-04-44; WL 93-08-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
824-849 MHz	MO	20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
869-894 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W 5M00G7W	1 W (ERP)	
1710-1755 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	200 mW (ERP)	
1850-1910 MHz	MO	5M00F9W 5M00G7W 20M0D7W 20M0G7D 20M0G7W 20M0W7D	1 W (ERP)	
1930-1990 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D 5M00F9W	1 W (ERP)	

Frequency Information

MOBILE: Shorview, MN, within 100 km, centered around NL 45-04-44; WL 93-08-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	MO	5M00G7W	1 W (ERP)	
2110-2155 MHz	MO	20M0D7W 20M0G7D 20M0G7W 20M0W7D	200 mW (ERP)	
2400-2483.5 MHz	MO	20M0D1D 20M0F7D 20M0G7D 20M0G7W	63 mW (ERP)	

Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (2) 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.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) 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.
- (6) Robert Bosch LLC must obtain consent from the following within 50 miles of the contours of the testing area:
700 MHz Lower Band "A" block licensees (698-704 MHz/728-734 MHz)
700 MHz Lower Band "B" block licensees (704-710 MHz/734-740 MHz)
700 MHz Lower Band "C" block licensees (710-716 MHz/740-746 MHz)
Cellular licensees (824-849 MHz/869-894 MHz)
Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
- (7) The stop buzzer is Kailasam Sunitha at (248) 207-0699.

Special Conditions:

- (8) Coordinate with Fixed Microwave Service licensees prior to operation in the frequency range from 2400-2483.5 MHz in accordance with 47 C.F.R, Part 101.103(d).
- (9) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (10) All of the experimental devices be retrieved by Robert Bosch LLC from the participants upon completion of the operation.
- (11) Operation is limited to 50 units.