

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WN9XAG

(Call Sign)

XT MO

(Class of Station)

1170-EX-ST-2018

(File Number)

NAME Robert Bosch LLC

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Deployment of sensors in orchards to collect information about the health of the trees. Data transmitted to gateway via Bluetooth for upload via LTE to the Cloud.

Station Locations

- (1) MOBILE: Almond field near Firebaugh, CA, within 4 km, centered around NL 36-51-31; WL 120-24-54
- (2) MOBILE: Pistachio field near Firebaugh, CA, within 4 km, centered around NL 36-49-24; WL 120-30-25
- (3) MOBILE: Citrus Orchard near Reyo, CA, within 4 km, centered around NL 36-26-59; WL 119-11-17

Frequency Information

MOBILE: Almond field near Firebaugh, CA, within 4 km, centered around NL 36-51-31; WL 120-24-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
777-787 MHz	MO	1M40F9W	195 mW (ERP)	
1710-1755 MHz	MO	1M40F9W	195 mW (ERP)	

This authorization effective July 28, 2018 and
will expire 3:00 A.M. EST October 29, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Almond field near Firebaugh, CA, within 4 km, centered around NL 36-51-31; WL 120-24-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	1M00F1D	10 mW (ERP)	

MOBILE: Pistachio field near Firebaugh, CA, within 4 km, centered around NL 36-49-24; WL 120-30-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
777-787 MHz	MO	1M40F9W	195 mW (ERP)	
1710-1755 MHz	MO	1M40F9W	195 mW (ERP)	
2400-2483.5 MHz	MO	1M00F1D	10 mW (ERP)	

MOBILE: Citrus Orchard near Reyo, CA, within 4 km, centered around NL 36-26-59; WL 119-11-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
777-787 MHz	MO	1M40F9W	195 mW (ERP)	
1710-1755 MHz	MO	1M40F9W	195 mW (ERP)	
2400-2483.5 MHz	MO	1M00F1D	10 mW (ERP)	

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) Operation 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.
- (3) 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.
- (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) Prior to commencing any operations, the licensee must obtain consent from the following within 50 miles of the contours of the testing area:
 - 700 MHz Upper Band licensees (746-758 MHz and 775-788 MHz)