

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WI2XPQ

(Call Sign)

0150-EX-CM-2017

(File Number)

NAME Carnegie Mellon University

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: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36
- (2) MOBILE: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36
- (3) MOBILE: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36
- (4) MOBILE: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36

Frequency Information

MOBILE: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
880-915 MHz	MO	5M00W7W	2 W (ERP)	0.0001 %
		20M0W7W		
		15M0W7W		
		10M0W7W		
		5M00W7W		
		3M00W7W		
		1M40W7W		

This authorization effective July 24, 2017 and
will expire 3:00 A.M. EST February 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
880-915 MHz	MO	270KG7W	2 W (ERP)	0.0001 %
902-928 MHz	MO	125KQ1D 500KQ1D	2 W (ERP)	0.0001 %
925-960 MHz	MO	270KG7W 5M00W7W 20M0W7W 15M0W7W 10M0W7W 5M00W7W 3M00W7W 1M40W7W	13.8515 W (ERP)	0.0001 %

MOBILE: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
880-915 MHz	MO	270KG7W 5M00W7W 15M0W7W 20M0W7W 10M0W7W 5M00W7W 3M00W7W 1M40W7W	2 W (ERP)	0.0001 %
902-928 MHz	MO	125KQ1D	2 W (ERP)	0.0001 %

Frequency Information

MOBILE: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	MO	500KQ1D	2 W (ERP)	0.0001 %
1880-1920 MHz	MO	20M0W7W 15M0W7W 10M0W7W 5M00W7W 3M00W7W 1M40W7W	2 W (ERP)	0.0001 %
2300-2310 MHz	MO	20M0W7W 15M0W7W 10M0W7W 5M00W7W 3M00W7W 1M40W7W	2 W (ERP)	0.0001 %
2501-2690 MHz	MO	20M0W7W 15M0W7W 10M0W7W 5M00W7W 3M00W7W 1M40W7W	2 W (ERP)	0.0001 %
2570-2620 MHz	MO	20M0W7W 15M0W7W 10M0W7W 5M00W7W 3M00W7W 1M40W7W	2 W (ERP)	0.0001 %

Frequency Information

MOBILE: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	MO	125KQ1D 500KQ1D	2 W (ERP)	0.0001 %
925-960 MHz	MO	270KG7W 5M00W7W 20M0W7W 20M0W7W 15M0W7W 10M0W7W 5M00W7W 3M00W7W 1M40W7W	24.27 W (ERP)	0.0001 %
1880-1920 MHz	MO	15M0W7W 20M0W7W 10M0W7W 5M00W7W 3M00W7W 1M40W7W	24.27 W (ERP)	0.0001 %
2300-2310 MHz	MO	10M0W7W 20M0W7W 15M0W7W 5M00W7W 3M00W7W 1M40W7W	24.27 W (ERP)	0.0001 %
2501-2690 MHz	MO	20M0W7W 15M0W7W 10M0W7W	24.27 W (ERP)	0.0001 %

Frequency Information

MOBILE: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2501-2690 MHz	MO	5M00W7W 3M00W7W 1M40W7W	24.27 W (ERP)	0.0001 %
2570-2620 MHz	MO	15M0W7W 20M0W7W 10M0W7W 5M00W7W 3M00W7W 1M40W7W	24.27 W (ERP)	0.0001 %

MOBILE: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	MO	25M9V7F	48.4 W (ERP)	0.0001 %
902-928 MHz	MO	125KQ1D 500KQ1D	2 W (ERP)	0.0001 %
2400-2483 MHz	MO	40M0W7W 20M0W7W	48.4 W (ERP)	0.0001 %
5725-5875 MHz	MO	149MW7W 80M0W7W 40M0W7W 20M0W7W	48.4 W (ERP)	0.0001 %

Frequency Information

MOBILE: National Guard Base, Camp Roberts, CA 93451, within 10 km, centered around NL 35-47-28; WL 120-44-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5725-5875 MHz	MO	105KK7D	48.4 W (ERP)	0.0001 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) Operation on Commercial Mobile Radio Services (CMRS) frequencies requires consent of CMRS licensees to avoid interference.
- (4) Licensee shall coordinate with the local SBE frequency coordinator and the Fixed Microwave Service licensees prior to operation in 925-960 MHz and 2400-2500 MHz bands
- (5) Licensee shall obtain consents from the EBS and BRS licensees prior to accessing to 2496-2690 MHz and 2570-2620 MHz bands.
- (6) Licensee shall secure consents from the AWS licensees prior to accessing to 1880-1920 MHz band.
- (7) Operation is subject to notification of the following within 50 miles of the test area:
 - * All Narrowband PCS licensees (901-902 MHz)
 - * Location & Monitoring Service licensees (902-928 MHz)
 - * SMR licensees (896-901 MHz)