

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

EXPERIMENTAL

(Nature of Service)

WF2XTB

(Call Sign)

XD FX MO

(Class of Station)

0002-EX-CM-2019

(File Number)

NAME Oceus Networks

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(d f) of the Commission's Rules

Station Locations

- (1) MOBILE: Ft Huachuca, AZ, within 10 km, centered around NL 31-33-54; WL 110-21-21
- (2) MOBILE: China Lake NWS, CA, within 10 km, centered around NL 35-52-36; WL 117-38-27
- (3) MOBILE: Yuma Proving Ground, AZ, within 10 km, centered around NL 33-00-56; WL 114-14-37
- (4) MOBILE: Camp Roberts, CA, within 10 km, centered around NL 35-47-19; WL 120-46-55
- (5) MOBILE: Camp Pendelton, CA, within 10 km, centered around NL 33-21-52; WL 117-24-36
- (6) MOBILE: NAS Point Magu, CA, within 10 km, centered around NL 34-06-42; WL 119-06-50
- (7) MOBILE: Ft. Gordon, GA, within 10 km, centered around NL 33-25-17; WL 82-09-56
- (8) MOBILE: Idaho National Lab, ID, within 10 km, centered around NL 43-37-19; WL 112-51-25
- (9) MOBILE: Pax River NAS, MD, within 10 km, centered around NL 38-16-59; WL 76-24-57
- (10) MOBILE: Ft. Bragg, NC, within 10 km, centered around NL 35-08-59; WL 78-59-29
- (11) MOBILE: Ft. Monmouth, NJ, within 10 km, centered around NL 40-18-54; WL 74-02-42
- (12) MOBILE: Fort Dix/Lakehurst NAES, NJ, within 10 km, centered around NL 40-00-41; WL 74-30-14
- (13) MOBILE: CHAPARRAL, NM, within 10 km, centered around NL 32-07-45; WL 106-04-03
- (14) MOBILE: Ft. A. P. Hill, VA, within 10 km, centered around NL 38-06-16; WL 77-15-47
- (15) MOBILE: Ft. Story/Ft. Eustis, VA, within 10 km, centered around NL 36-55-25; WL 76-01-03
- (16) MOBILE: Langley AFB, VA, within 10 km, centered around NL 37-05-12; WL 76-21-32

This authorization effective June 27, 2019 and
will expire 3:00 A.M. EST April 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

(17) MOBILE: JFCOM JSIC, 1562 Mitscher Ave. Norfolk, VA, within 10 km, centered around NL 36-55-22; WL 76-18-14

(18) Marana (PINAL), AZ - NL 32-30-18; WL 111-20-06; MOBILE: Withing 5km of coordinates listed, within 5 km, centered around NL 32-30-18; WL 111-20-06

Frequency Information

MOBILE: Ft Huachuca, AZ, within 10 km, centered around NL 31-33-54; WL 110-21-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Ft Huachuca, AZ, within 10 km, centered around NL 31-33-54; WL 110-21-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Ft Huachuca, AZ, within 10 km, centered around NL 31-33-54; WL 110-21-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: China Lake NWS, CA, within 10 km, centered around NL 35-52-36; WL 117-38-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	

Frequency Information

MOBILE: China Lake NWS, CA, within 10 km, centered around NL 35-52-36; WL 117-38-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: China Lake NWS, CA, within 10 km, centered around NL 35-52-36; WL 117-38-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: Yuma Proving Ground, AZ, within 10 km, centered around NL 33-00-56; WL 114-14-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Yuma Proving Ground, AZ, within 10 km, centered around NL 33-00-56; WL 114-14-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Yuma Proving Ground, AZ, within 10 km, centered around NL 33-00-56; WL 114-14-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Yuma Proving Ground, AZ, within 10 km, centered around NL 33-00-56; WL 114-14-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: Camp Roberts, CA, within 10 km, centered around NL 35-47-19; WL 120-46-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Camp Roberts, CA, within 10 km, centered around NL 35-47-19; WL 120-46-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Camp Roberts, CA, within 10 km, centered around NL 35-47-19; WL 120-46-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: Camp Pendelton, CA, within 10 km, centered around NL 33-21-52; WL 117-24-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Camp Pendelton, CA, within 10 km, centered around NL 33-21-52; WL 117-24-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Camp Pendelton, CA, within 10 km, centered around NL 33-21-52; WL 117-24-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

Frequency Information

MOBILE: NAS Point Magu, CA, within 10 km, centered around NL 34-06-42; WL 119-06-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	

Frequency Information

MOBILE: NAS Point Magu, CA, within 10 km, centered around NL 34-06-42; WL 119-06-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	

Frequency Information

MOBILE: NAS Point Magu, CA, within 10 km, centered around NL 34-06-42; WL 119-06-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: Ft. Gordon, GA, within 10 km, centered around NL 33-25-17; WL 82-09-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Ft. Gordon, GA, within 10 km, centered around NL 33-25-17; WL 82-09-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Ft. Gordon, GA, within 10 km, centered around NL 33-25-17; WL 82-09-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: Idaho National Lab, ID, within 10 km, centered around NL 43-37-19; WL 112-51-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Idaho National Lab, ID, within 10 km, centered around NL 43-37-19; WL 112-51-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Idaho National Lab, ID, within 10 km, centered around NL 43-37-19; WL 112-51-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Idaho National Lab, ID, within 10 km, centered around NL 43-37-19; WL 112-51-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: Pax River NAS, MD, within 10 km, centered around NL 38-16-59; WL 76-24-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Pax River NAS, MD, within 10 km, centered around NL 38-16-59; WL 76-24-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Pax River NAS, MD, within 10 km, centered around NL 38-16-59; WL 76-24-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: Ft. Bragg, NC, within 10 km, centered around NL 35-08-59; WL 78-59-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Ft. Bragg, NC, within 10 km, centered around NL 35-08-59; WL 78-59-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Ft. Bragg, NC, within 10 km, centered around NL 35-08-59; WL 78-59-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Ft. Monmouth, NJ, within 10 km, centered around NL 40-18-54; WL 74-02-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Ft. Monmouth, NJ, within 10 km, centered around NL 40-18-54; WL 74-02-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	

Frequency Information

MOBILE: Ft. Monmouth, NJ, within 10 km, centered around NL 40-18-54; WL 74-02-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: Fort Dix/Lakehurst NAES, NJ, within 10 km, centered around NL 40-00-41; WL 74-30-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Fort Dix/Lakehurst NAES, NJ, within 10 km, centered around NL 40-00-41; WL 74-30-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Fort Dix/Lakehurst NAES, NJ, within 10 km, centered around NL 40-00-41; WL 74-30-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: CHAPARRAL, NM, within 10 km, centered around NL 32-07-45; WL 106-04-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: CHAPARRAL, NM, within 10 km, centered around NL 32-07-45; WL 106-04-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: CHAPARRAL, NM, within 10 km, centered around NL 32-07-45; WL 106-04-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: CHAPARRAL, NM, within 10 km, centered around NL 32-07-45; WL 106-04-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: Ft. A. P. Hill, VA, within 10 km, centered around NL 38-06-16; WL 77-15-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Ft. A. P. Hill, VA, within 10 km, centered around NL 38-06-16; WL 77-15-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Ft. A. P. Hill, VA, within 10 km, centered around NL 38-06-16; WL 77-15-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: Ft. Story/Ft. Eustis, VA, within 10 km, centered around NL 36-55-25; WL 76-01-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Ft. Story/Ft. Eustis, VA, within 10 km, centered around NL 36-55-25; WL 76-01-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: Ft. Story/Ft. Eustis, VA, within 10 km, centered around NL 36-55-25; WL 76-01-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Langley AFB, VA, within 10 km, centered around NL 37-05-12; WL 76-21-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	

Frequency Information

MOBILE: Langley AFB, VA, within 10 km, centered around NL 37-05-12; WL 76-21-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	

Frequency Information

MOBILE: Langley AFB, VA, within 10 km, centered around NL 37-05-12; WL 76-21-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

MOBILE: JFCOM JSIC, 1562 Mitscher Ave. Norfolk, VA, within 10 km, centered around NL 36-55-22; WL 76-18-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
698-716 MHz	MO	10M0W7W 10M0W7W	250 mW (ERP)	
704-716 MHz	MO	10M0W7W	250 mW (ERP)	
728-746 MHz	MO	10M0W7W	250 W (ERP)	
734-746 MHz	MO	10M0W7W	250 W (ERP)	
746-756 MHz	MO	10M0W7W	250 W (ERP)	
777-787 MHz	MO	10M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: JFCOM JSIC, 1562 Mitscher Ave. Norfolk, VA, within 10 km, centered around NL 36-55-22; WL 76-18-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
800-821 MHz	MO	10M0W7W	250 W (ERP)	
824-849 MHz	MO	10M0W7W	250 mW (ERP)	
832-862 MHz	MO	20M0W7W	250 mW (ERP)	
869-894 MHz	MO	10M0W7W	250 W (ERP)	
1710-1755 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1710-1785 MHz	MO	20M0W7W	250 mW (ERP)	
1805-1880 MHz	MO	20M0W7W	250 W (ERP)	
1850-1910 MHz	MO	20M0W7W 20M0W7W	250 mW (ERP)	
1850-1915 MHz	MO	20M0W7W	250 mW (ERP)	
1920-1980 MHz	MO	20M0W7W	250 mW (ERP)	

Frequency Information

MOBILE: JFCOM JSIC, 1562 Mitscher Ave. Norfolk, VA, within 10 km, centered around NL 36-55-22; WL 76-18-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	MO	20M0W7W	250 W (ERP)	
1930-1995 MHz	MO	20M0W7W	250 W (ERP)	
2110-2155 MHz	MO	20M0W7W	250 W (ERP)	
2110-2170 MHz	MO	20M0W7W	4000 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 W (ERP)	
2500-2570 MHz	MO	20M0W7W	250 mW (ERP)	
2620-2690 MHz	MO	20M0W7W	250 W (ERP)	

Marana (PINAL), AZ - NL 32-30-18; WL 111-20-06; MOBILE: Withing 5km of coordinates listed, within 5 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2496-2690 MHz	FX	20M0W7W	250 W (ERP)	
2496-2690 MHz	MO	20M0W7W	250 mW (ERP)	

Special Conditions:

- (1) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (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 in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (4) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.
- (5) Operation on Commercial Mobile Radio Services (CMRS) frequencies requires consent of CMRS licensees to avoid interference.
- (6) Licensee shall keep a log of their operations that includes all the times, dates and locations of their experimental operations.
- (7) Licensee shall coordinate with any affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees in 2496-2690 MHz.
- (8) Operations in 2496-2500 MHz is denied due to potential interference to satellite operations.
- (9) Stop Buzzer: Scott McCluney (571) 209-7401
smccluney@oceusnetworks.com
- (10) LAT/LONG OF THIS PROPOSAL IS ON CHAPARRAL, NEW MEXICO RANGE. AS SUCH, OCEUS MUST ESTABLISH A CHAPARRAL, NEW MEXICO RANGE SPONSOR, TO GAIN ACCESS TO THE AREA. THE RANGE SPONSOR MUST THEN COORDINATE OCEUS OPERATIONS WITH THE CHAPARRAL AND/OR 1A/D SPECTRUM MANAGER, WHO WILL THEN SCHEDULE THE OPERATIONS IN THE INTEGRATED FREQUENCY DE-CONFLICTION SYSTEM (IFDS).
- (11) OCEUS NETWORKS IS REQUIRED TO COORDINATE WITH THE YPG SPECTRUM MANAGEMENT OFFICE AT LEAST 7 CALENDAR DAYS PRIOR TO ANY INTENDED USE OF 1710-1785 MHZ, 2496-2690 MHZ, 1805-1880 MHZ, AND 2620-2690 MHZ AT YUMA PROVING GROUND OR WITHIN ITS RESTRICTED AIRSPACE BY CONTACTING THE YPG SMO AT (928) 328-7144.
- (12) Oceus Networks must obtain consent from the following within 50 miles of the contours of the testing area:
 - > 700 MHz Lower Band licensees (698-746 MHz)
 - > 700 MHz Upper Band licensees (746-758 MHz and 775-788 MHz)
 - > SMR licensees (809-824 MHz/854-869 MHz)
 - > B/ILT licensees (809-824 MHz/854-869 MHz)
 - > Cellular licensees (824-849 MHz/869-894 MHz)
 - > Commercial Air-Ground licensee (849-851 MHz/894-896 MHz)
 - > Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)

Special Conditions:

- (13) For each proposed venue Oceus Networks is required to:
- > Secure consents from the Advance Wireless Service licensees prior to accessing to 1710-1785 MHz and 2110-2170 MHz bands.
 - > Obtain consents from the Educational Broadband Service and the Broadband Radio Service licensees prior to accessing to 2496-2690 MHz range.
 - > Coordinate with the local Society of Broadcast Engineers frequency coordinator and the Fixed Microwave Service licensees prior to operation in 2496-2500 MHz band.