

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

EXPERIMENTAL

(Nature of Service)

WL2XBO

(Call Sign)

XT FX

(Class of Station)

0476-EX-CN-2020

(File Number)

NAME Codar Ocean Sensors, Ltd

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, h) of the Commission's Rules

Station Locations

- (1) Half Moon Bay (SAN MATEO), CA - NL 37-29-48; WL 122-29-58
- (2) Davenport (SANTA CRUZ), CA - NL 37-05-22; WL 122-16-27
- (3) Big Sur (MONTEREY), CA - NL 36-18-22; WL 121-54-58
- (4) San Francisco (SAN FRANCISCO), CA - NL 37-42-44; WL 122-30-58
- (5) Montara (SAN MATEO), CA - NL 37-32-01; WL 122-31-09
- (6) Santa Cruz (SANTA CRUZ), CA - NL 36-56-57; WL 121-03-58
- (7) Tiburon (MARIN), CA - NL 37-53-24; WL 122-26-46
- (8) Monterey (MONTEREY), CA - NL 36-26-22; WL 121-55-20
- (9) Moss Landing (MONTEREY), CA - NL 36-48-14; WL 121-47-17
- (10) Sausalito (MARIN), CA - NL 37-50-38; WL 122-28-38
- (11) San Francisco (SAN FRANCISCO), CA - NL 37-48-10; WL 122-23-50
- (12) San Francisco (SAN FRANCISCO), CA - NL 37-48-23; WL 122-27-58
- (13) Pacific Grove (MONTEREY), CA - NL 36-38-12; WL 121-56-06
- (14) Monterey (MONTEREY), CA - NL 36-36-11; WL 121-52-21
- (15) Tiburon (MARIN), CA - NL 37-51-12; WL 122-25-09

This authorization effective June 25, 2020 and
will expire 3:00 A.M. EST March 28, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Half Moon Bay (SAN MATEO), CA - NL 37-29-48; WL 122-29-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4463 kHz	FX	50K0P0N	80 W (ERP)	0.001 %
5262.5 kHz	FX	25K0P0N	80 W (ERP)	0.001 %

Davenport (SANTA CRUZ), CA - NL 37-05-22; WL 122-16-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4463 kHz	FX	50K0P0N	80 W (ERP)	0.001 %
5262.5 kHz	FX	25K0P0N 25K0P0N	80 W (ERP)	0.001 %

Big Sur (MONTEREY), CA - NL 36-18-22; WL 121-54-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4463 kHz	FX	50K0P0N	80 W (ERP)	0.001 %
5262.5 kHz	FX	25K0P0N	80 W (ERP)	0.001 %

Frequency Information

San Francisco (SAN FRANCISCO), CA - NL 37-42-44; WL 122-30-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500 kHz	FX	100KP0N	80 W (ERP)	0.001 %
16150 kHz	FX	100KP0N	80 W (ERP)	0.001 %

Montara (SAN MATEO), CA - NL 37-32-01; WL 122-31-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500 kHz	FX	100KP0N	80 W (ERP)	0.001 %
16150 kHz	FX	100KP0N	80 W (ERP)	0.001 %

Santa Cruz (SANTA CRUZ), CA - NL 36-56-57; WL 121-03-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500 kHz	FX	100KP0N	80 W (ERP)	0.001 %
16150 kHz	FX	100KP0N	80 W (ERP)	0.001 %

Frequency Information

Tiburon (MARIN), CA - NL 37-53-24; WL 122-26-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
41340 kHz	FX	650KP0N	80 W (ERP)	0.001 %
43675 kHz	FX	650KP0N	80 W (ERP)	0.001 %

Monterey (MONTEREY), CA - NL 36-26-22; WL 121-55-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500 kHz	FX	100KP0N	80 W (ERP)	0.001 %
16150 kHz	FX	100KP0N	80 W (ERP)	0.001 %

Moss Landing (MONTEREY), CA - NL 36-48-14; WL 121-47-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24550 kHz	FX	200KP0N	80 W (ERP)	0.001 %
26310 kHz	FX	220KP0N	80 W (ERP)	0.001 %

Frequency Information

Sausalito (MARIN), CA - NL 37-50-38; WL 122-28-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
41340 kHz	FX	650KP0N	80 W (ERP)	0.001 %
43675 kHz	FX	650KP0N	80 W (ERP)	0.001 %

san Francisco (SAN FRANCISCO), CA - NL 37-48-10; WL 122-23-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
41340 kHz	FX	650KP0N	80 W (ERP)	0.001 %
43675 kHz	FX	650KP0N	80 W (ERP)	0.001 %

San Francisco (SAN FRANCISCO), CA - NL 37-48-23; WL 122-27-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
41340 kHz	FX	650KP0N	80 W (ERP)	0.001 %
43675 kHz	FX	650KP0N	80 W (ERP)	0.001 %

Frequency Information

Pacific Grove (MONTEREY), CA - NL 36-38-12; WL 121-56-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13500 kHz	FX	100KP0N	80 W (ERP)	0.001 %
16150 kHz	FX	100KP0N	80 W (ERP)	0.001 %

Monterey (MONTEREY), CA - NL 36-36-11; WL 121-52-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24550 kHz	FX	200KP0N	80 W (ERP)	0.001 %
26310 kHz	FX	220KP0N	80 W (ERP)	0.001 %

Tiburon (MARIN), CA - NL 37-51-12; WL 122-25-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
41340 kHz	FX	650KP0N	80 W (ERP)	0.001 %
43675 kHz	FX	650KP0N	80 W (ERP)	0.001 %

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.

Special Conditions:

- (3) Codar Ocean Sensors, Ltd must obtain consent from the following within 50 miles of the contours of the testing area:
Paging Service licensees in 43 MHz
- (4) Codar Ocean Sensors, Ltd shall coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in 26200-26420 kHz band.
- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by NOAA, Contract Number NA16NOS0120021. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.