

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

EXPERIMENTAL

(Nature of Service)

WJ2XWK

(Call Sign)

XT MO

(Class of Station)

0858-EX-CN-2018

(File Number)

NAME Echodyne Corp.

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: 25 km radius of coordinates, within 25 km, centered around NL 65-07-34; WL 147-28-35
- (2) MOBILE: 4 km radius of coordinates, within 4 km, centered around NL 33-48-14; WL 117-22-28
- (3) MOBILE: 25 km radius of coordinates, within 25 km, centered around NL 64-51-34; WL 147-51-02
- (4) MOBILE: 9 km radius of coordinates, within 9 km, centered around NL 32-37-02; WL 116-12-25
- (5) MOBILE: 9 km radius of coordinates, within 9 km, centered around NL 30-17-07; WL 104-34-02
- (6) MOBILE: 4 km radius of coordinates, within 4 km, centered around NL 34-27-08; WL 117-06-20
- (7) MOBILE: 2 km, within 2 km, centered around NL 33-55-27; WL 117-41-03
- (8) MOBILE: 1 km, within 1 km, centered around NL 38-59-54; WL 77-24-34
- (9) MOBILE: 2 km, within 2 km, centered around NL 38-43-54; WL 77-30-57
- (10) MOBILE: 32 km radius of coordinates, within 32 km, centered around NL 70-11-36; WL 148-39-16
- (11) MOBILE: 32 km radius of coordinates, within 32 km, centered around NL 61-50-34; WL 145-14-42
- (12) MOBILE: 5 km radius of coordinates, within 5 km, centered around NL 34-36-53; WL 112-27-01
- (13) MOBILE: 5 km radius of coordinates, within 5 km, centered around NL 36-07-32; WL 83-47-43
- (14) MOBILE: 60 km radius of coordinates, within 60 km, centered around NL 46-35-11; WL 120-23-32

This authorization effective February 04, 2019 and
will expire 3:00 A.M. EST February 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (15) MOBILE: 7 km radius of coordinates, within 7 km, centered around NL 47-40-21; WL 121-56-30
- (16) MOBILE: 5 km radius of coordinates, within 5 km, centered around NL 32-57-30; WL 106-32-26
- (17) MOBILE: 20 km radius of coordinates, within 20 km, centered around NL 38-54-05; WL 86-53-04
- (18) MOBILE: 15 km radius of coordinates, within 15 km, centered around NL 39-20-11; WL 86-03-29
- (19) MOBILE: 5 km radius of coordinates, within 5 km, centered around NL 39-02-58; WL 85-31-45
- (20) MOBILE: 20 km radius of coordinates, within 20 km, centered around NL 32-53-44; WL 118-29-35
- (21) MOBILE: 2 km radius of coordinates, within 2 km, centered around NL 38-08-42; WL 77-21-20
- (22) MOBILE: 2 km radius of coordinates, within 2 km, centered around NL 37-46-55; WL 77-35-31
- (23) MOBILE: 2 km radius of coordinates, within 2 km, centered around NL 38-19-39; WL 78-00-41

Frequency Information

MOBILE: 25 km radius of coordinates, within 25 km, centered around NL 65-07-34; WL 147-28-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 4 km radius of coordinates, within 4 km, centered around NL 33-48-14; WL 117-22-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

Frequency Information

MOBILE: 25 km radius of coordinates, within 25 km, centered around NL 64-51-34; WL 147-51-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 9 km radius of coordinates, within 9 km, centered around NL 32-37-02; WL 116-12-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 9 km radius of coordinates, within 9 km, centered around NL 30-17-07; WL 104-34-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 4 km radius of coordinates, within 4 km, centered around NL 34-27-08; WL 117-06-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

Frequency Information

MOBILE: 2 km, within 2 km, centered around NL 33-55-27; WL 117-41-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 1 km, within 1 km, centered around NL 38-59-54; WL 77-24-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 2 km, within 2 km, centered around NL 38-43-54; WL 77-30-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 32 km radius of coordinates, within 32 km, centered around NL 70-11-36; WL 148-39-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

Frequency Information

MOBILE: 32 km radius of coordinates, within 32 km, centered around NL 61-50-34; WL 145-14-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 5 km radius of coordinates, within 5 km, centered around NL 34-36-53; WL 112-27-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 5 km radius of coordinates, within 5 km, centered around NL 36-07-32; WL 83-47-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 60 km radius of coordinates, within 60 km, centered around NL 46-35-11; WL 120-23-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

Frequency Information

MOBILE: 7 km radius of coordinates, within 7 km, centered around NL 47-40-21; WL 121-56-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 5 km radius of coordinates, within 5 km, centered around NL 32-57-30; WL 106-32-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 20 km radius of coordinates, within 20 km, centered around NL 38-54-05; WL 86-53-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 15 km radius of coordinates, within 15 km, centered around NL 39-20-11; WL 86-03-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

Frequency Information

MOBILE: 5 km radius of coordinates, within 5 km, centered around NL 39-02-58; WL 85-31-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 20 km radius of coordinates, within 20 km, centered around NL 32-53-44; WL 118-29-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 2 km radius of coordinates, within 2 km, centered around NL 38-08-42; WL 77-21-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

MOBILE: 2 km radius of coordinates, within 2 km, centered around NL 37-46-55; WL 77-35-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

Frequency Information

MOBILE: 2 km radius of coordinates, within 2 km, centered around NL 38-19-39; WL 78-00-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.55 GHz	MO	190MF9N	486 W (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The radar shall not be used for air traffic control purposes or separation of aircraft.
- (4) The stop buzzer contact for this project is Jeff Finan, Phone: (425) 445-0631
Email: jeff@echodyne.com
- (5) Licensee shall ensure that the transmitting station antenna(s) main beam gain tip down when possible and avoid pointing above the horizon to protect satellite stations.