

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

EXPERIMENTAL

(Nature of Service)

WI2XKY

(Call Sign)

XT FX MO

(Class of Station)

0321-EX-CR-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) Bellevue, WA - NL 47-37-50; WL 122-11-05; MOBILE: 9 km radius of coordinates, within 9 km
- (2) Boardman, OR - NL 45-47-37; WL 119-37-24; MOBILE: 32 km radius of coordinates, within 32 km
- (3) Hood River, OR - NL 45-42-19; WL 121-31-17; MOBILE: 32 km radius of coordinates, within 32 km
- (4) Playas, NM - NL 31-55-00; WL 108-32-01; MOBILE: 32 km radius of coordinates, within 32 km
- (5) Vaughn, NM - NL 34-36-06; WL 105-12-30; MOBILE: 95 km radius of coordinates, within 32 km
- (6) Port Mansfield, TX - NL 26-33-17; WL 97-25-30; MOBILE: 32 km radius of coordinates, within 32 km
- (7) Wheelock, TX - NL 30-53-48; WL 96-22-28; MOBILE: 32 km radius of coordinates, within 32 km
- (8) Blackstone, VA - NL 37-04-20; WL 77-57-48; MOBILE: 32 km radius of coordinates, within 32 km
- (9) Palo Alto, CA - NL 37-24-30; WL 122-08-50; MOBILE: 1 km radius of coordinates, within 1 km, centered around NL 37-24-30; WL 122-08-50
- (10) Arlington, WA - NL 48-09-36; WL 122-10-08; MOBILE: , within 50 km, centered around NL 48-09-36; WL 122-10-08
- (11) Cle Elum, WA - NL 47-13-28; WL 121-02-15; MOBILE: , within 75 km, centered around NL 47-13-28; WL 121-02-15
- (12) San Diego, CA - NL 32-33-27; WL 116-51-58; MOBILE: , within 5 km, centered around NL 32-33-27; WL 116-51-58
- (13) Sinton, TX - NL 28-02-21; WL 97-32-33; MOBILE: , within 2 km, centered around NL 28-02-21; WL 97-32-33

This authorization effective July 01, 2018 and
will expire 3:00 A.M. EST July 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (14) Hampton, VA - NL 37-05-45; WL 76-23-07; MOBILE: , within 2 km, centered around NL 37-05-45; WL 76-23-07
- (15) Elberon, VA - NL 37-02-38; WL 76-46-06; MOBILE: , within 2 km, centered around NL 37-02-38; WL 76-46-06
- (16) Virginia Beach, VA - NL 36-40-41; WL 76-01-39; MOBILE: , within 2 km, centered around NL 36-40-41; WL 76-01-39
- (17) Fort A.P. Hill, VA - NL 38-05-44; WL 77-15-57; MOBILE: , within 2 km, centered around NL 38-05-44; WL 77-15-57
- (18) Warrenton, VA - NL 38-44-51; WL 77-40-37; MOBILE: , within 1 km, centered around NL 38-44-51; WL 77-40-37
- (19) Williamsburg, VA - NL 37-18-49; WL 76-38-15; MOBILE: , within 2 km, centered around NL 37-18-49; WL 76-38-15
- (20) Las Cruces, NM - NL 32-17-36; WL 106-54-57; MOBILE: , within 10 km, centered around NL 32-17-36; WL 106-54-57
- (21) Las Cruces, Jordana, NM - NL 32-35-48; WL 106-44-25; MOBILE: , within 10 km, centered around NL 32-35-48; WL 106-44-25
- (22) Torrence, CA - NL 33-50-34; WL 118-18-46; MOBILE: , within 1 km, centered around NL 33-50-34; WL 118-18-46
- (23) Long Beach, CA - NL 33-49-27; WL 118-05-16; MOBILE: , within 1 km, centered around NL 33-49-27; WL 118-05-16
- (24) Judith Gap, MT - NL 46-40-42; WL 109-45-10; MOBILE: , within 60 km, centered around NL 46-40-42; WL 109-45-10
- (25) Hillsboro, ND - NL 47-21-34; WL 97-03-37; MOBILE: , within 10 km, centered around NL 47-21-34; WL 97-03-37
- (26) Grand Forks, ND - NL 47-42-04; WL 97-18-04; MOBILE: , within 10 km, centered around NL 47-42-04; WL 97-18-04
- (27) Boise, ID - NL 43-13-38; WL 116-45-59; MOBILE: , within 3 km, centered around NL 43-13-38; WL 116-45-59
- (28) Florence, AZ - NL 33-09-41; WL 111-17-46; MOBILE: , within 10 km, centered around NL 33-09-41; WL 111-17-46

Frequency Information

Bellevue, WA - NL 47-37-50; WL 122-11-05; MOBILE: 9 km radius of coordinates, within 9 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Frequency Information

Boardman, OR - NL 45-47-37; WL 119-37-24; MOBILE: 32 km radius of coordinates, within 32 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Hood River, OR - NL 45-42-19; WL 121-31-17; MOBILE: 32 km radius of coordinates, within 32 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Playas, NM - NL 31-55-00; WL 108-32-01; MOBILE: 32 km radius of coordinates, within 32 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Frequency Information

Vaughn, NM - NL 34-36-06; WL 105-12-30; MOBILE: 95 km radius of coordinates, within 32 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Port Mansfield, TX - NL 26-33-17; WL 97-25-30; MOBILE: 32 km radius of coordinates, within 32 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Wheelock, TX - NL 30-53-48; WL 96-22-28; MOBILE: 32 km radius of coordinates, within 32 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Frequency Information

Blackstone, VA - NL 37-04-20; WL 77-57-48; MOBILE: 32 km radius of coordinates, within 32 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Palo Alto, CA - NL 37-24-30; WL 122-08-50; MOBILE: 1 km radius of coordinates, within 1 km, centered around NL 37-24-30;

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Arlington, WA - NL 48-09-36; WL 122-10-08; MOBILE: , within 50 km, centered around NL 48-09-36; WL 122-10-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Frequency Information

Cle Elum, WA - NL 47-13-28; WL 121-02-15; MOBILE: , within 75 km, centered around NL 47-13-28; WL 121-02-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

San Diego, CA - NL 32-33-27; WL 116-51-58; MOBILE: , within 5 km, centered around NL 32-33-27; WL 116-51-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Sinton, TX - NL 28-02-21; WL 97-32-33; MOBILE: , within 2 km, centered around NL 28-02-21; WL 97-32-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	

Frequency Information

Hampton, VA - NL 37-05-45; WL 76-23-07; MOBILE: , within 2 km, centered around NL 37-05-45; WL 76-23-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Elberon, VA - NL 37-02-38; WL 76-46-06; MOBILE: , within 2 km, centered around NL 37-02-38; WL 76-46-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Virginia Beach, VA - NL 36-40-41; WL 76-01-39; MOBILE: , within 2 km, centered around NL 36-40-41; WL 76-01-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Frequency Information

Fort A.P. Hill, VA - NL 38-05-44; WL 77-15-57; MOBILE: , within 2 km, centered around NL 38-05-44; WL 77-15-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Warrenton, VA - NL 38-44-51; WL 77-40-37; MOBILE: , within 1 km, centered around NL 38-44-51; WL 77-40-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Williamsburg, VA - NL 37-18-49; WL 76-38-15; MOBILE: , within 2 km, centered around NL 37-18-49; WL 76-38-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Frequency Information

Las Cruces, NM - NL 32-17-36; WL 106-54-57; MOBILE: , within 10 km, centered around NL 32-17-36; WL 106-54-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Las Cruces, Jordana, NM - NL 32-35-48; WL 106-44-25; MOBILE: , within 10 km, centered around NL 32-35-48; WL 106-44-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Torrence, CA - NL 33-50-34; WL 118-18-46; MOBILE: , within 1 km, centered around NL 33-50-34; WL 118-18-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Frequency Information

Long Beach, CA - NL 33-49-27; WL 118-05-16; MOBILE: , within 1 km, centered around NL 33-49-27; WL 118-05-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Judith Gap, MT - NL 46-40-42; WL 109-45-10; MOBILE: , within 60 km, centered around NL 46-40-42; WL 109-45-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	24 W (ERP)	

Hillsboro, ND - NL 47-21-34; WL 97-03-37; MOBILE: , within 10 km, centered around NL 47-21-34; WL 97-03-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Frequency Information

Grand Forks, ND - NL 47-42-04; WL 97-18-04; MOBILE: , within 10 km, centered around NL 47-42-04; WL 97-18-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Boise, ID - NL 43-13-38; WL 116-45-59; MOBILE: , within 3 km, centered around NL 43-13-38; WL 116-45-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Florence, AZ - NL 33-09-41; WL 111-17-46; MOBILE: , within 10 km, centered around NL 33-09-41; WL 111-17-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.45-24.65 GHz	FX	190MF3N	243 W (ERP)	
24.45-24.65 GHz	MO	190MF3N	243 W (ERP)	

Special Conditions:

- (1) Operations at Vaughn and Playas, NM, must be coordinated with the Department of Defense Area Frequency Coordinator - White Sands Missile Range [DoD-AFC (WSMR)], at least 96 hours prior to operations, via e-mail to usarmy.wsmr.imcom-central.list.dodafc@mail.mil. The user shall provide the dates/times of test, the location of the test, and a copy of the applicable FCC license.