

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WJ2XFS

(Call Sign)

0045-EX-CM-2020

(File Number)

NAME Marine Exchange of Alaska

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(c) of the Commission's Rules

Station Locations

- (1) Juneau (Borough of Juneau), AK - NL 58-17-07; WL 134-23-22
- (2) Homer (Kenai Peninsula), AK - NL 59-36-06; WL 151-25-02
- (3) Barrow (North Slope), AK - NL 71-17-24; WL 156-47-24
- (4) Prudhoe Bay (North Slope), AK - NL 70-13-18; WL 148-25-10
- (5) Wales (Northwest Arctic), AK - NL 65-36-18; WL 168-05-08
- (6) Anchorage (Anchorage), AK - NL 61-14-20; WL 149-53-20
- (7) Dutch Harbor (Aleutians East), AK - NL 53-55-09; WL 166-33-31
- (8) Ketchikan (Ketchikan Gateway), AK - NL 55-21-05; WL 131-41-02
- (9) Haines (Haines), AK - NL 59-14-03; WL 135-26-31
- (10) Gustavus, AK - NL 58-24-28; WL 135-43-36
- (11) Middleton Island, AK - NL 59-26-16; WL 146-19-32
- (12) Valdez (Valdez-Cordova), AK - NL 61-07-37; WL 146-20-38
- (13) Kenai (Kenai Peninsula), AK - NL 60-33-05; WL 151-16-25
- (14) Bethel (Bristol Bay), AK - NL 60-47-29; WL 161-44-55
- (15) Cordova (Valdez-Cordova), AK - NL 60-32-33; WL 145-45-52
- (16) Kodiak (Kodiak Island), AK - NL 57-47-21; WL 152-26-02
- (17) Seward (Kenai Peninsula), AK - NL 60-06-59; WL 149-26-03
- (18) Sitka (Sitka), AK - NL 57-06-59; WL 135-23-27
- (19) Nome (Nome), AK - NL 64-33-54; WL 165-26-01
- (20) Five Finger Island (Wrangell-Petersburg), AK - NL 57-16-12; WL 133-37-52
- (21) Whittier (Valdez-Cordova), AK - NL 60-46-28; WL 148-40-44
- (22) Coffman Cove (Prince of Wales-Outer Ketchikan), AK - NL 56-00-22; WL 132-48-54
- (23) Petersburg (Wrangell-Petersburg), AK - NL 56-48-42; WL 132-57-38
- (24) Wrangell (Wrangell-Petersburg), AK - NL 56-28-00; WL 132-22-55
- (25) Guard Island (Ketchikan Gateway), AK - NL 55-26-47; WL 131-52-52

This authorization effective April 30, 2020 and
will expire 3:00 A.M. EST February 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (26) Akun Island (Aleutians East), AK - NL 54-08-50; WL 165-36-21
- (27) Kaktovik (North Slope), AK - NL 70-07-39; WL 143-36-57
- (28) Wainwright (North Slope), AK - NL 70-38-11; WL 160-02-01
- (29) Kotzebue (Northwest Arctic), AK - NL 66-54-03; WL 162-35-22
- (30) Point Lay (North Slope), AK - NL 69-44-35; WL 163-00-36
- (31) Point Hope (North Slope), AK - NL 68-20-58; WL 166-44-13
- (32) Gambell (Northwest Arctic), AK - NL 63-46-37; WL 171-42-55
- (33) Savoonga (Northwest Arctic), AK - NL 63-41-47; WL 170-28-37
- (34) Cape Spencer (Sitka), AK - NL 58-11-56; WL 136-38-24
- (35) Juneau (Juneau), AK - NL 58-15-42; WL 134-30-43
- (36) Tree Point (Ketchikan Gateway), AK - NL 54-48-10; WL 130-56-04

Frequency Information

Juneau (Borough of Juneau), AK - NL 58-17-07; WL 134-23-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Homer (Kenai Peninsula), AK - NL 59-36-06; WL 151-25-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Barrow (North Slope), AK - NL 71-17-24; WL 156-47-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Prudhoe Bay (North Slope), AK - NL 70-13-18; WL 148-25-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Wales (Northwest Arctic), AK - NL 65-36-18; WL 168-05-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Anchorage (Anchorage), AK - NL 61-14-20; WL 149-53-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Dutch Harbor (Aleutians East), AK - NL 53-55-09; WL 166-33-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Ketchikan (Ketchikan Gateway), AK - NL 55-21-05; WL 131-41-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Haines (Haines), AK - NL 59-14-03; WL 135-26-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Gustavus, AK - NL 58-24-28; WL 135-43-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Middleton Island, AK - NL 59-26-16; WL 146-19-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Valdez (Valdez-Cordova), AK - NL 61-07-37; WL 146-20-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Kenai (Kenai Peninsula), AK - NL 60-33-05; WL 151-16-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Bethel (Bristol Bay), AK - NL 60-47-29; WL 161-44-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Cordova (Valdez-Cordova), AK - NL 60-32-33; WL 145-45-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Kodiak (Kodiak Island), AK - NL 57-47-21; WL 152-26-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Seward (Kenai Peninsula), AK - NL 60-06-59; WL 149-26-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Sitka (Sitka), AK - NL 57-06-59; WL 135-23-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Nome (Nome), AK - NL 64-33-54; WL 165-26-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	11K0GXW 12K5GXW	12.5 W (ERP)	

Five Finger Island (Wrangell-Petersburg), AK - NL 57-16-12; WL 133-37-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Whittier (Valdez-Cordova), AK - NL 60-46-28; WL 148-40-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Coffman Cove (Prince of Wales-Outer Ketchikan), AK - NL 56-00-22; WL 132-48-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Petersburg (Wrangell-Petersburg), AK - NL 56-48-42; WL 132-57-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Wrangell (Wrangell-Petersburg), AK - NL 56-28-00; WL 132-22-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Guard Island (Ketchikan Gateway), AK - NL 55-26-47; WL 131-52-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Akun Island (Aleutians East), AK - NL 54-08-50; WL 165-36-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Kaktovik (North Slope), AK - NL 70-07-39; WL 143-36-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Wainwright (North Slope), AK - NL 70-38-11; WL 160-02-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Kotzebue (Northwest Arctic), AK - NL 66-54-03; WL 162-35-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Point Lay (North Slope), AK - NL 69-44-35; WL 163-00-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Point Hope (North Slope), AK - NL 68-20-58; WL 166-44-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXX 11K0GXW	12.5 W (ERP)	

Gambell (Northwest Arctic), AK - NL 63-46-37; WL 171-42-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Savoonga (Northwest Arctic), AK - NL 63-41-47; WL 170-28-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Cape Spencer (Sitka), AK - NL 58-11-56; WL 136-38-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	11K0GXW 12K5GXW	12.5 W (ERP)	

Juneau (Juneau), AK - NL 58-15-42; WL 134-30-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	

Frequency Information

Tree Point (Ketchikan Gateway), AK - NL 54-48-10; WL 130-56-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.975 MHz	FX	12K5GXW 11K0GXW	12.5 W (ERP)	
162.025 MHz	FX	11K0GXW 12K5GXW	12.5 W (ERP)	

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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; 13-CRADA-RDC-002. 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.
- (5) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (6) The Stop Buzzer point of contact is William Benning, Phone Number: (907) 463-3937.