

**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)

0219-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 November 18, 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
- (37) Nelson Lagoon (Aleutians East), AK - NL 56-00-17; WL 161-10-37

## 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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 11K0GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXX<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 11K0GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>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<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 11K0GXW<br>12K5GXW  | 12.5 W (ERP)     |                           |

Nelson Lagoon (Aleutians East), AK - NL 56-00-17; WL 161-10-37

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 161.975 MHz | FX            | 12K5GXW<br>11K0GXW  | 12.5 W (ERP)     |                           |
| 162.025 MHz | FX            | 12K5GXW<br>11K0GXW  | 12.5 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 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; 1HSCG79-16-C-PCR001. 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.

**Special Conditions:**

- (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.