

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

EXPERIMENTAL  
(Nature of Service)  
  
XT      FX  
(Class of Station)

WI2XFX  
(Call Sign)  
  
0177-EX-CR-2026  
(File Number)

NAME University of Alaska - Fairbanks

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)   Gakona (Valdez-Cordova), AK - NL 63-19-20; WL 145-10-50
- (2)   Gakona (Valdez-Cordova), AK - NL 63-19-20; WL 145-10-50
- (3)   Gakona (Valdez-Cordova), AK - NL 62-23-33; WL 145-09-03

Frequency Information

Gakona (Valdez-Cordova), AK - NL 62-23-33; WL 145-09-03

| Frequency     | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 2650-2850 kHz | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 457.088 MW (ERP) | 1.6 %                     |
| 3039.5 kHz    | FX            | 27K0F3N<br>27K0N0N<br>26K0P0N<br>27K0H0N                       | 549.541 MW (ERP) | 1.4 %                     |

This authorization effective April 01, 2026 and  
will expire 3:00 A.M. ET April 01, 2031

FEDERAL  
COMMUNICATIONS  
COMMISSION



## Frequency Information

Gakona (Valdez-Cordova), AK - NL 62-23-33; WL 145-09-03

| Frequency       | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 3039.5 kHz      | FX            | 16K0M0N<br>27K0A3N                                             | 549.541 MW (ERP) | 1.4 %                     |
| 3058.8-3119 kHz | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 549.541 MW (ERP) | 1.4 %                     |
| 3124.8-3154 kHz | FX            | 29K0F3N<br>29K0N0N<br>26K0P0N<br>29K0H0N<br>16K0M0N<br>29K0A3N | 549.541 MW (ERP) | 1.4 %                     |
| 3155-3400 kHz   | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 645.654 MW (ERP) | 1.3 %                     |
| 4050-4123 kHz   | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N            | 912.011 MW (ERP) | 1.03 %                    |

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| Frequency     | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 4050-4123 kHz | FX            | 40K5A3N                                                        | 912.011 MW (ERP) | 1.03 %                    |
| 4127-4204 kHz | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 944.06 MW (ERP)  | 1.03 %                    |
| 4210-4350 kHz | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 977.237 MW (ERP) | 1.03 %                    |
| 4438-4650 kHz | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 1.071 GW (ERP)   | 0.98 %                    |
| 4750-4995 kHz | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 1.202 GW (ERP)   | 0.92 %                    |

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|---------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 5005-5450 kHz | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 1.479 GW (ERP)   | 0.84 %                    |
| 5730-5950 kHz | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 1.819 GW (ERP)   | 0.77 %                    |
| 6765-7000 kHz | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 2.454 GW (ERP)   | 0.65 %                    |
| 7300-8100 kHz | FX            | 46K0F3N<br>46K0N0N<br>26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 2.818 GW (ERP)   | 0.56 %                    |
| 9040-9995 kHz | FX            | 46K0F3N<br>46K0N0N                                             | 3.63 GW (ERP)    | 0.46 %                    |

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| Frequency     | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|------------------------------------------|------------------|---------------------------|
| 9040-9995 kHz | FX            | 26K0P0N<br>43K0H0N<br>16K0M0N<br>40K5A3N | 3.63 GW (ERP)    | 0.46 %                    |

## 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) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (3) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) UNIVERSITY OF ALASKA - FAIRBANKS IS PROHIBITED FROM OPERATING ON THE FOLLOWING FREQUENCY BANDS:
  - a. 3053 kHz - 3058.8 kHz
  - b. 3119 kHz - 3124.8 kHz
- (5) Experimental licensee must notch the following frequency bands:
  - a. 5900-5950KHz
  - b. 7300-7450KHz
  - c. 9400-9900KHz
- (6) Experimental licensee shall ensure that the authorized operation complies with requirements and FCC limits for radiofrequency radiation exposure in 47 CFR §§ 1.1307(b) and 1.1310, including specific mitigation requirements of 47 CFR 1.1307(b)(4).
- (7) Stop Buzzer Point of Contact  
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Email: uaf-gi-haarp@alaska.edu