

**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)

0157-EX-CM-2021

(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 46K0N0N 26K0P0N 43K0H0N 16K0M0N 40K5A3N	457.088 MW (ERP)	1.6 %
3039.5 kHz	FX	27K0F3N 27K0N0N 26K0P0N 27K0H0N	549.541 MW (ERP)	1.4 %

This authorization effective August 30, 2021 and
will expire 3:00 A.M. EST April 01, 2026

**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 27K0A3N	549.541 MW (ERP)	1.4 %
3058.8-3119 kHz	FX	46K0F3N 46K0N0N 26K0P0N 43K0H0N 16K0M0N 40K5A3N	549.541 MW (ERP)	1.4 %
3124.8-3154 kHz	FX	29K0F3N 29K0N0N 26K0P0N 29K0H0N 16K0M0N 29K0A3N	549.541 MW (ERP)	1.4 %
3155-3400 kHz	FX	46K0F3N 46K0N0N 26K0P0N 43K0H0N 16K0M0N 40K5A3N	645.654 MW (ERP)	1.3 %
4050-4123 kHz	FX	46K0F3N 46K0N0N 26K0P0N 43K0H0N 16K0M0N	912.011 MW (ERP)	1.03 %

Frequency Information

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

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 46K0N0N 26K0P0N 43K0H0N 16K0M0N 40K5A3N	944.06 MW (ERP)	1.03 %
4210-4350 kHz	FX	46K0F3N 46K0N0N 26K0P0N 43K0H0N 16K0M0N 40K5A3N	977.237 MW (ERP)	1.03 %
4438-4650 kHz	FX	46K0F3N 46K0N0N 26K0P0N 43K0H0N 16K0M0N 40K5A3N	1.071 GW (ERP)	0.98 %
4750-4995 kHz	FX	46K0F3N 46K0N0N 26K0P0N 43K0H0N 16K0M0N 40K5A3N	1.202 GW (ERP)	0.92 %

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5005-5450 kHz	FX	46K0F3N 46K0N0N 26K0P0N 43K0H0N 16K0M0N 40K5A3N	1.479 GW (ERP)	0.84 %
5730-5950 kHz	FX	46K0F3N 46K0N0N 26K0P0N 43K0H0N 16K0M0N 40K5A3N	1.819 GW (ERP)	0.77 %
6765-7000 kHz	FX	46K0F3N 46K0N0N 26K0P0N 43K0H0N 16K0M0N 40K5A3N	2.454 GW (ERP)	0.65 %
7300-8100 kHz	FX	46K0F3N 46K0N0N 26K0P0N 43K0H0N 16K0M0N 40K5A3N	2.818 GW (ERP)	0.56 %
9040-9995 kHz	FX	46K0F3N 46K0N0N	3.63 GW (ERP)	0.46 %

Frequency Information

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

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

Special Conditions:

- (1) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (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) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (4) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) 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
- (6) This authorization SUPERSEDES the previously issued authorization with the same call sign and file number: amended condition