

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

EXPERIMENTAL

(Nature of Service)

WL2XYP

(Call Sign)

XC FX

(Class of Station)

0598-EX-CN-2021

(File Number)

NAME Kranze Techology Solutions, Inc.

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) Des Plaines (COOK), IL - NL 42-01-07; WL 87-55-01
- (2) Des Plaines (COOK), IL - NL 42-01-07; WL 87-54-59
- (3) Des Plaines (COOK), IL - NL 42-01-07; WL 87-55-01
- (4) Des Plaines (COOK), IL - NL 42-01-07; WL 87-55-00
- (5) Des Plaines (COOK), IL - NL 42-01-08; WL 87-55-02
- (6) Des Plaines (COOK), IL - NL 42-01-07; WL 87-54-59
- (7) Des Plaines (COOK), IL - NL 42-01-07; WL 87-54-59
- (8) Des Plaines (COOK), IL - NL 42-01-08; WL 87-55-00
- (9) Des Plaines (COOK), IL - NL 42-01-08; WL 87-54-59
- (10) Des Plaines (COOK), IL - NL 42-01-09; WL 87-54-59
- (11) Des Plaines (COOK), IL - NL 42-01-09; WL 87-54-59
- (12) Des Plaines (COOK), IL - NL 42-01-10; WL 87-54-59

Frequency Information

Des Plaines (COOK), IL - NL 42-01-07; WL 87-55-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1575.42 MHz	FX	20M4W7D	8.61 pW (ERP)	

This authorization effective August 04, 2021 and
will expire 3:00 A.M. EST August 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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Des Plaines (COOK), IL - NL 42-01-08; WL 87-55-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1575.42 MHz	FX	20M4W7D	8.61 pW (ERP)	

Frequency Information

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Frequency Information

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1575.42 MHz	FX	20M4W7D	8.61 pW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1575.42 MHz	FX	20M4W7D	8.61 pW (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) GPS re-radiators are limited to a maximum EIRP value that will result in power levels not to exceed a power spectral density of -140 dBm/24 MHz measured at a distance of 100 ft from the building where the test is being conducted. Any malfunction, misalignment, or tampering of the equipment or its location which results in an increased power spectral density outside the building could cause harmful radio frequency interference to GPS receivers, including those in aircraft and/or ground based facilities.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

Special Conditions:

- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number N00421-19-9-0001. 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.
- (6) The designated point-of-contact to terminate transmissions if interference occurs is Naveen Murarka at (847) 834-4155.
- (7) Operation is limited to activity for the purpose of testing radionavigation satellite service (RNSS) equipment and systems.
- (8) GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.
- (9) The test equipment shall only be used indoors and shall be under the control of Kranze Technology Solutions, Inc.
- (10) Kranze Technology Solutions, Inc. shall post signs on doors to the test area notifying that, "GPS re-radiator is in use and the GPS information you receive may be in error."