

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WI2XEY

(Call Sign)

0012-EX-CR-2018

(File Number)

NAME Sierra Nevada Corporation

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(l) of the Commission's Rules

Station Locations

- (1) HAGERSTOWN (WASHINGTON), MD - NL 39-42-39; WL 77-43-55
- (2) HAGERSTOWN (WASHINGTON), MD - NL 39-42-44; WL 77-43-27
- (3) HAGERSTOWN (WASHINGTON), MD - NL 39-42-41; WL 77-43-21
- (4) HAGERSTOWN (WASHINGTON), MD - NL 39-42-40; WL 77-43-17

Frequency Information

HAGERSTOWN (WASHINGTON), MD - NL 39-42-39; WL 77-43-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M0W7D	51 pW (ERP)	10 %
1575.42 MHz	FX	20M0W7D	51 pW (ERP)	10 %

This authorization effective March 01, 2018 and
will expire 3:00 A.M. EST February 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

HAGERSTOWN (WASHINGTON), MD - NL 39-42-44; WL 77-43-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M0W7D	16 pW (ERP)	10 %
1575.42 MHz	FX	20M0W7D	16 pW (ERP)	10 %

HAGERSTOWN (WASHINGTON), MD - NL 39-42-41; WL 77-43-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M0W7D	45 pW (ERP)	10 %
1575.42 MHz	FX	20M0W7D	45 pW (ERP)	10 %

HAGERSTOWN (WASHINGTON), MD - NL 39-42-40; WL 77-43-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M0W7D	18 pW (ERP)	10 %
1575.42 MHz	FX	20M0W7D	18 pW (ERP)	10 %

Special Conditions:

- (1) GPS re-radiators are limited to a maximum ERP 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 outside the building of operation. 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.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Area of potential interference to GPS reception is under the control of licensee.
- (4) Licensee must post a sign on doors to the testing area stating GPS re-radiator in use and GPS information may be impacted for periods of time.
- (5) Licensee has submitted calculations that predict that the installation will be at or below the limit specified in NTIA manual section 8.3.28 condition 6.
- (6) Stop buzzer is Kevin J. Hritz, phone 717.552.0486.