

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WG2XXQ

(Call Sign)

0557-EX-RR-2015

(File Number)

NAME Gierow, Paul A.

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) Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55
- (2) Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55
- (3) Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55
- (4) Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55

Frequency Information

Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	374.1 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W	1197 kW (ERP)	0.00001227 %

This authorization effective January 01, 2016 and
will expire 3:00 A.M. EST January 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.9-8.4 GHz	FX	256KG7W	1197 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	2992.5 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	239.4 kW (ERP)	0.00001227 %

Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	200.9 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W	642.8 kW (ERP)	0.00001227 %

Frequency Information

Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.9-8.4 GHz	FX	256KG7W	642.8 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	1607.1 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	128.6 kW (ERP)	0.00001227 %

Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	74.6 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W	238.8 kW (ERP)	0.00001227 %

Frequency Information

Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.9-8.4 GHz	FX	256KG7W	238.8 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	597.1 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	47.8 kW (ERP)	0.00001227 %

Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	419.7 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W	1343 kW (ERP)	0.00001227 %

Frequency Information

Huntsville (MADISON), AL - NL 34-37-22; WL 86-33-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.9-8.4 GHz	FX	256KG7W	1343 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	268.6 kW (ERP)	0.00001227 %
7.9-8.4 GHz	FX	7M00G7W 6M00G7W 3M00G7W 1M00G7W 256KG7W	3357.6 kW (ERP)	0.00001227 %

Special Conditions:

- (1) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) 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.
- (4) Operation on this frequency is subject to immediate cessation, if it causes harmful interference to FAA assignments.
- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by USSOCOM contract no. H9222-12-D-0016. 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) POINTS OF COMMUNICATION: XTAR-LANT, Anik G1, Skynet 4F and Skynet 5C satellites.