

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WI2XQO

(Call Sign)

0127-EX-CR-2019

(File Number)

NAME Satcom Direct, 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(j) of the Commission's Rules

Station Locations

- (1) Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41
- (2) Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41
- (3) Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41
- (4) Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41
- (5) Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41
- (6) Melbourne (BREVARD), FL - NL 18-17-41; WL 80-41-41
- (7) Melbournw (BREVARD), FL - NL 28-15-41; WL 80-41-41
- (8) Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41
- (9) Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41

Frequency Information

Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	FX	200KD7W	39.8 W (ERP)	
		200KG7W		
		840HG1D		
		100KD7W		
		110KD7W		
		110KG7W		
		50K0G7W		

This authorization effective April 01, 2019 and
will expire 3:00 A.M. EST April 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	FX	100KD7W	39.8 W (ERP)	
		50K0D7W		
		1K68G1D		
		10K5G1D		
		6K80G1E		
		21K0G1D		
		7K20G1E		
		40K0G1E		
		40K0G1D		
		25K0G7W		

Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	FX	21K0G1W	89.12 W (ERP)	

Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	FX	21K0G1D	70.79 W (ERP)	
		21K0G1E		
		21K0G1W		

Frequency Information

Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	FX	20K0D1D	39.8 W (ERP)	
		20K0D1E		
		20K0D1W		
		200KD7D		
		200KD7E		
		200KD7W		
		200KG7D		
		200KG7E		
		200KG7W		
		40K0D1D		
		80K0D1D		
		180KD1D		
		40K0D1E		
		80K0D1E		
		180KD1E		
		5K60G1D		
		40K0D1W		
		80K0D1W		
		180KD1W		

Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1616-1627 MHz	FX	41K0V7E	9.55336 W (ERP)	

Melbourne (BREVARD), FL - NL 18-17-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29-30 GHz	FX	7M83G7W	25118.864 W (ERP)	

Frequency Information

Melbourne (BREVARD), FL - NL 18-17-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29-30 GHz	FX	5M00G1W 468KG7W	25118.864 W (ERP)	

Melbournw (BREVARD), FL - NL 28-15-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29-30 GHz	FX	7M00G7W 5M00G7W 468KG7W	39810.717 W (ERP)	

Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	1M54G7D 24M0F9E 112KG7D 256KG7D 5M00G7D	5011 W (ERP)	

Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	1M54G7D 24M0F9F 112KG7D	5011.87 W (ERP)	

Frequency Information

Melbourne (BREVARD), FL - NL 28-15-41; WL 80-41-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	256KG7D 5M40G7D	5011.87 W (ERP)	

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) For the fixed test station, the transmissions will emanate from the coordinate location: 28.261389 degrees N, 80.694722 degrees W.
- (5) Operations, for the fixed earth station will operate with an off-axis EIRP spectral density, under clear sky, in accordance to 47 C.F.R. Section 25.138.
- (6) POINT OF COMMUNICATION: Inmarsat-4F3 (I4F3), Inmarsat-5F2 (I5F2), Galaxy 13/Horizons-1, Iridium Constellation.
- (7) 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.
- (8) Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Satcom Direct, Inc., experimental applications.
- (9) While the earth station is at halt or stationary location, the operator shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 C.F.R. §§ 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
- (10) Any action taken or expense incurred as a result of operations pursuant to this experimental license is solely at Satcom Direct, Inc.'s risk.