

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WH2XVY

(Call Sign)

0268-EX-CR-2017

(File Number)

NAME Textron Systems 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(h) of the Commission's Rules

Station Locations

- (1) Wilmington (MIDDLESEX), MA - NL 42-32-16; WL 71-09-23
- (2) Wilmington (MIDDLESEX), MA - NL 42-32-17; WL 71-09-24
- (3) Wilmington (MIDDLESEX), MA - NL 42-32-17; WL 71-09-24
- (4) Wilmington (MIDDLESEX), MA - NL 42-32-17; WL 71-09-24
- (5) Wilmington (MIDDLESEX), MA - NL 42-32-16; WL 71-09-24
- (6) Wilmington (MIDDLESEX), MA - NL 42-32-17; WL 71-09-24
- (7) Wilmington (MIDDLESEX), MA - NL 42-32-17; WL 71-09-25
- (8) Wilmington (MIDDLESEX), MA - NL 42-32-16; WL 71-09-23

Frequency Information

Wilmington (MIDDLESEX), MA - NL 42-32-16; WL 71-09-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	12.59 pW (ERP)	
1575.42 MHz	FX	24M0G1D	12.59 pW (ERP)	

This authorization effective July 01, 2017 and
will expire 3:00 A.M. EST July 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Wilmington (MIDDLESEX), MA - NL 42-32-17; WL 71-09-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	31.62 pW (ERP)	
1575.42 MHz	FX	24M0G1D	31.62 pW (ERP)	

Wilmington (MIDDLESEX), MA - NL 42-32-17; WL 71-09-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	31.62 pW (ERP)	
1575.42 MHz	FX	24M0G1D	31.62 pW (ERP)	

Wilmington (MIDDLESEX), MA - NL 42-32-17; WL 71-09-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	31.62 pW (ERP)	
1575.42 MHz	FX	24M0G1D	31.62 pW (ERP)	

Frequency Information

Wilmington (MIDDLESEX), MA - NL 42-32-16; WL 71-09-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	19.95 pW (ERP)	
1575.42 MHz	FX	24M0G1D	19.95 pW (ERP)	

Wilmington (MIDDLESEX), MA - NL 42-32-17; WL 71-09-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	50.12 pW (ERP)	
1575.42 MHz	FX	24M0G1D	50.12 pW (ERP)	

Wilmington (MIDDLESEX), MA - NL 42-32-17; WL 71-09-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	39.81 pW (ERP)	
1575.42 MHz	FX	24M0G1D	39.81 pW (ERP)	

Frequency Information

Wilmington (MIDDLESEX), MA - NL 42-32-16; WL 71-09-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	12.59 pW (ERP)	
1575.42 MHz	FX	24M0G1D	12.59 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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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/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
- (4) The designated point-of-contacts to terminate transmissions if interference occurs is Security Office 978-657-4444.
- (5) Operation is limited to activity for the purpose of testing radio-navigation satellite service (RNSS) equipment and systems.
- (6) The Textron Company 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."
- (7) The test equipment shall only be used indoors and shall be under the control of the Textron Company.
- (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) Licensee has submitted calculations that predict that the installation will be at or below the limit specified in NTIA manual section 8.3.28