

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

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WG2XVY

(Call Sign)

0113-EX-ML-2015

(File Number)

NAME Raytheon Company

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) Pelham (HILLSBOROUGH), NH - NL 42-44-14; WL 71-21-16
- (2) MOBILE: unused grassy area outside the test plant, within 0.1 km, centered around NL 42-44-13; WL 71-21-15
- (3) MOBILE: oval flight pattern over empty parking lot, within 0.1 km, centered around NL 42-38-13; WL 71-14-59
- (4) MOBILE: flight pattern over vacant land w/in radius, within 0.1 km, centered around NL 42-31-18; WL 71-08-30
- (5) MOBILE: operates over empty parking lot on property, within 0.1 km, centered around NL 42-21-54; WL 71-25-51
- (6) MOBILE: mobile operations in UAV test area, within 0.1 km, centered around NL 42-37-00; WL 71-30-38

Frequency Information

Pelham (HILLSBOROUGH), NH - NL 42-44-14; WL 71-21-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.4-5.5 GHz	FX	27M3Q1N	428 W (ERP)	
5.4-5.5 GHz	FX	0H00N0N	856 W (ERP)	

This authorization effective June 15, 2015 and
will expire 3:00 A.M. EST October 01, 2015

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Pelham (HILLSBOROUGH), NH - NL 42-44-14; WL 71-21-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.4-5.5 GHz	FX	52M3Q1N 9M00M1N	500 W (ERP)	
5.4-5.5 GHz	FX	100MN0N	0.8 W (ERP)	
5.4-5.5 GHz	FX	4M80Q1N 52M3Q1N 9M00M1N	72.5 MW (ERP)	

MOBILE: unused grassy area outside the test plant, within 0.1 km, centered around NL 42-44-13; WL 71-21-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.4-5.5 GHz	MO	N0N 9M00M1N 4M80Q1N 27M3Q1N 52M3Q1N	50 W (ERP)	

MOBILE: oval flight pattern over empty parking lot, within 0.1 km, centered around NL 42-38-13; WL 71-14-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.4-5.5 GHz	MO	N0N 9M00M1N 4M80Q1N 27M3Q1N	50 W (ERP)	

Frequency Information

MOBILE: oval flight pattern over empty parking lot, within 0.1 km, centered around NL 42-38-13; WL 71-14-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.4-5.5 GHz	MO	52M3Q1N	50 W (ERP)	

MOBILE: flight pattern over vacant land w/in radius, within 0.1 km, centered around NL 42-31-18; WL 71-08-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.4-5.5 GHz	MO	N0N	50 W (ERP)	
		9M00M1N		
		4M80Q1N		
		27M3Q1N		
		52M3Q1N		

MOBILE: operates over empty parking lot on property, within 0.1 km, centered around NL 42-21-54; WL 71-25-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.4-5.5 GHz	MO	N0N	50 W (ERP)	
		9M00M1N		
		4M80Q1N		
		27M3Q1N		
		52M3Q1N		

MOBILE: mobile operations in UAV test area, within 0.1 km, centered around NL 42-37-00; WL 71-30-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.4-5.5 GHz	MO	N0N	50 W (ERP)	
		9M00M1N		

Frequency Information

MOBILE: mobile operations in UAV test area, within 0.1 km, centered around NL 42-37-00; WL 71-30-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.4-5.5 GHz	MO	4M80Q1N 27M3Q1N 52M3Q1N	50 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.