Karen Dyberg, 1001 Boston Post Rd. MS 3-1-3355, Marlborough, MA 01752,

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

EXPERIMENTAL	WG2XVY
(Nature of Service)	(Call Sign)
XD FX MO	0363-EX-CR-2017
(Class of Station)	(File Number)

NAME Raytheon IDS

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		500 W (ERP)	
		52M3Q1N		
		9M00M1N		

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

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	27M3Q1N	428 W (ERP)	
5.4-5.5 GHz	FX	0H00N0N	856 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	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		50 W (ERP)	
		4M80Q1N		
		27M3Q1N		
		52M3Q1N		

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		50 W (ERP)	
		N0N		
		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		50 W (ERP)	
		N0N		
		9M00M1N		
		4M80Q1N		
		27M3Q1N		
		52M3Q1N		

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		50 W (ERP)	
		N0N		
		9M00M1N		
		4M80Q1N		
		27M3Q1N		
		52M3Q1N		

Special Conditions:

(1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

(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.

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