

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

EXPERIMENTAL

(Nature of Service)

WE2XGD

(Call Sign)

XD FX MO

(Class of Station)

0114-EX-ML-2009

(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(i) of the Commission's Rules

Station Locations

- (1) Atlanta, GA - NL 32-37-09; WL 83-35-42; MOBILE: Atlanta, GA, within 300 km, centered around NL 32-37-09; WL 83-35-42
- (2) Casper, WY - NL 43-15-33; WL 107-51-42; MOBILE: Casper, WY, within 300 km, centered around NL 43-15-33; WL 107-51-42
- (3) Fullerton, CA - NL 33-52-21; WL 117-56-15; MOBILE: Fullerton, CA, within 300 km, centered around NL 33-52-21; WL 117-56-15
- (4) Richmond, VA - NL 37-32-04; WL 77-26-05; MOBILE: Richmond, VA, within 300 km, centered around NL 37-32-04; WL 77-26-05
- (5) MOBILE: Boston (SUFFOLK), MA, within 40 km, centered around NL 42-22-09; WL 71-05-59
- (6) MOBILE: Marlborough (WORCESTER), MA, within 40 km, centered around NL 42-19-58; WL 71-32-34
- (7) MOBILE: Salton (IMPERIAL), CA, within 50 km, centered around NL 33-17-05; WL 115-46-57

Frequency Information

Atlanta, GA - NL 32-37-09; WL 83-35-42; MOBILE: Atlanta, GA, within 300 km, centered around NL 32-37-09; WL 83-35-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	5M00M9W	5 W (ERP)	

This authorization effective January 05, 2010 and
will expire 3:00 A.M. EST January 05, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Casper, WY - NL 43-15-33; WL 107-51-42; MOBILE: Casper, WY, within 300 km, centered around NL 43-15-33; WL 107-51-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	5M00M9W	5 W (ERP)	

Fullerton, CA - NL 33-52-21; WL 117-56-15; MOBILE: Fullerton, CA, within 300 km, centered around NL 33-52-21; WL 117-5

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	5M00M9W	5 W (ERP)	

Richmond, VA - NL 37-32-04; WL 77-26-05; MOBILE: Richmond, VA, within 300 km, centered around NL 37-32-04; WL 77-2

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	5M00M9W	5 W (ERP)	

MOBILE: Boston (SUFFOLK), MA, within 40 km, centered around NL 42-22-09; WL 71-05-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	5M00M9W	5 W (ERP)	

Frequency Information

MOBILE: Marlborough (WORCESTER), MA, within 40 km, centered around NL 42-19-58; WL 71-32-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	5M00M9W	7 W (ERP)	

MOBILE: Salton (IMPERIAL), CA, within 50 km, centered around NL 33-17-05; WL 115-46-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	5M00M9W	5 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) 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) The designated point-of-contact to terminate transmissions if interference occurs is Mr. John F. Adams at phone (803) 318-0021.