

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

EXPERIMENTAL

(Nature of Service)

WG2XUW

(Call Sign)

XT FX MO

(Class of Station)

0331-EX-PL-2013

(File Number)

NAME Raytheon

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) Downey (LOS ANGELES), CA - NL 33-55-42; WL 118-07-01; MOBILE: Downey, CA, within 2 km, centered around NL 33-55-42; WL 118-07-01

Frequency Information

Downey (LOS ANGELES), CA - NL 33-55-42; WL 118-07-01; MOBILE: Downey, CA, within 2 km, centered around NL 33-55-4

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	FX	10M0F9W	120 W (ERP)	
788-798 MHz	MO	10M0F9W	1 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) An LTE base station will be located at the Raytheon Public Safety Regional Technology Center ("RTC") in Downey, California, transmitting within a 2 km radius, and involving no more than 30 user devices. Throughout the term of this license, regardless of the vendor being tested, the power limits, radius of operations and number of user devices will not exceed those stipulated in the application.

This authorization effective August 01, 2013 and
will expire 3:00 A.M. EST July 31, 2014

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Special Conditions:

- (3) Raytheon has analyzed information in the FCC's license databases and states that the proposed operation would not interfere or create a significant potential for harmful interference with any public safety operations in the 700 MHz band. The Los Angeles Regional Interoperable Communications System (LA-RICS) which has executed a lease agreement for early deployment of a public safety broadband network using FirstNet frequencies, has consented to this experimental license.
- (4) Operation of the experiment will not be used in mission-critical operations or in the delivery of live transmissions in duties to protect life, property, or safety. Operations will be confined to a 2 km radius of the base station site listed in the application.
- (5) Raytheon has provided an overall project manager and in case of interference issues, "stop-buzzer" contact for these experiments: Daniel De Sollar, (w) 562-803-1094; (c) 714-213-0448; ddesollar@raytheon.com
- (6) Raytheon understands that an experimental license only permits shared use of the subject radio frequencies and that it may have to coordinate with other entities licensed for experimental purposes. Raytheon further understands that a separate concurrence from FirstNet will be required for renewal of this license.
- (7) All experimental operations by Raytheon will be secondary, meaning that they must not cause interference to narrowband or broadband operations authorized on a primary basis, including in the spectrum licensed to FirstNet. Narrowband or broadband operations authorized on a primary basis, including in the spectrum licensed to FirstNet, have no obligation to mitigate any interference that such primary operations may present to the Raytheon experimental operations.
- (8) FirstNet has not yet deployed in the geographic area covered by this application. Raytheon understands that if, during the term of this license, FirstNet or its assigns or lessees, plan to deploy in this area, Raytheon may have to reduce the coverage or power levels of its experimental transmissions or cease them entirely.