

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WD2XZE

(Call Sign)

0063-EX-ML-2015

(File Number)

NAME RAYTHEON Electronics Systems

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(c) of the Commission's Rules

Station Locations

- (1) El Segundo (LOS ANGELES), CA - NL 33-55-44; WL 118-23-20
- (2) El Segundo (LOS ANGELES), CA - NL 33-55-47; WL 118-23-34

Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-55-44; WL 118-23-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9200-10680 MHz	FX	NON	8 W (ERP)	
12400-15350 MHz	FX	NON	16 W (ERP)	
24000-26500 MHz	FX	NON	2 W (ERP)	

This authorization effective May 07, 2015 and
will expire 3:00 A.M. EST May 01, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-55-47; WL 118-23-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
614-960 MHz	FX	N0N	8.2 mW (ERP)	
1215-1340 MHz	FX	N0N	8.2 mW (ERP)	
1350-1400 MHz	FX	N0N	8.2 mW (ERP)	
2000-2200 MHz	FX	N0N	63.1 mW (ERP)	
2290-2690 MHz	FX	N0N	63.1 mW (ERP)	
5190-6000 MHz	FX	N0N	63.1 mW (ERP)	
6000-8000 MHz	FX	N0N	162 mW (ERP)	
9200-10680 MHz	FX	N0N	295 mW (ERP)	
10700-12400 MHz	FX	N0N	295 mW (ERP)	
12400-15350 MHz	FX	N0N	295 mW (ERP)	

Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-55-47; WL 118-23-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24000-31300 MHz	FX	NON	295 mW (ERP)	

Special Conditions:

- (1) Operation on frequency assignments in one of the bands 1435-1535 or 2310-2390 MHz was coordinated prior to authorization with the Western Area Frequency Coordinator (WAFC), Point Mugu, CA, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the WAFC as necessary to ensure compatibility with existing uses.
- (2) Assignment in frequency bands 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Western Coordinator, Los Angeles, CA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Western Coordinator, Los Angeles, CA, as necessary to ensure compatibility with existing uses.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) 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.
- (6) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.
- (7) No operation is permitted in frequency (w/27 MHz bandwidth):
10.525 GHz
- (8) No operation is permitted in frequencies (in GHz w/27 MHz bandwidth):
15.15875; 15.22375; 15.33375. 21.4250; 21.6250; 22.6250; 22.8250; 23.3750

Special Conditions:

- (9) Operation is subject to prior coordination with fixed microwave service (Part 101) licensees in the following bands:
- 2.4-2.5 GHz
 - 10.5-10.7 GHz
 - 10.7-11.7 GHz
 - 12.2-12.75 GHz
 - 24.25-24.45 GHz
 - 25.05-25.25 GHz
 - 27.5-29.5 GHz
 - 31-31.3 GHz
- (10) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government contract number N00019-05-G-0008 and N68936-05-D-0033. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (11) SUBJECT TO PRIOR COORDINATION WITH FAA WESTERN PACIFIC REGIONAL OFFICE, HONOLULU ARTCC, P.O. BOX 50109, HONOLULU, HAWAII) 96850-4983, ATTN: FREQUENCY MANAGEMENT OFFICE: PH 808-541-1241.
- (12) No operation is permitted in frequency band 2200-2290 MHz.