

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WH2XZN

(Call Sign)

0433-EX-CR-2019

(File Number)

NAME Raytheon SAS

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) El Segundo (LOS ANGELES), CA - NL 33-54-50; WL 118-23-23
- (2) El Segundo (LOS ANGELES), CA - NL 33-55-47; WL 118-23-11
- (3) Palos Verdes (LOS ANGELES), CA - NL 33-47-22; WL 118-24-07
- (4) Palos Verdes, CA - NL 33-44-46; WL 118-20-10

Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-54-50; WL 118-23-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1380 MHz	FX	20M0Q3N	25 kW (ERP)	
3040-3320 MHz	FX	20M0Q3N	79.4 kW (ERP)	
9600 MHz	FX	800MQ3N	31.6 W (ERP)	

This authorization effective November 01, 2019 and
will expire 3:00 A.M. EST November 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-54-50; WL 118-23-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9600-9690 MHz	FX	20M0Q3N	126 kW (ERP)	

El Segundo (LOS ANGELES), CA - NL 33-55-47; WL 118-23-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1380 MHz	FX	20M0Q3N	10 W (ERP)	
3040-3320 MHz	FX	20M0Q3N	10 W (ERP)	
9600 MHz	FX	800MQ3N	10 W (ERP)	
9600-9690 MHz	FX	20M0Q3N	10 W (ERP)	

Palos Verdes (LOS ANGELES), CA - NL 33-47-22; WL 118-24-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1380 MHz	FX	20M0Q3N	10 W (ERP)	
3040-3320 MHz	FX	20M0Q3N	10 W (ERP)	

Frequency Information

Palos Verdes (LOS ANGELES), CA - NL 33-47-22; WL 118-24-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9600 MHz	FX	800MQ3N	10 W (ERP)	
9600-9690 MHz	FX	20M0Q3N	10 W (ERP)	

Palos Verdes, CA - NL 33-44-46; WL 118-20-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1380 MHz	FX	20M0Q3N	10 W (ERP)	
3040-3320 MHz	FX	20M0Q3N	10 W (ERP)	
9600 MHz	FX	800MQ3N	10 W (ERP)	
9600-9690 MHz	FX	20M0Q3N	10 W (ERP)	

Special Conditions:

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

Special Conditions:

- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) Raytheon SAS must coordinate with the Western Area Frequency Coordinator (WAFC), Mr. J. Heaton at (760) 939-6948 prior to any operations to mitigate any possible harmful interference to Navy and Marine Corps assignments. Raytheon SAS must also comply with any and all restrictions that may be levied by WAFC.
- (6) The 1380 MHz Pulse Repetition Rate: 1-1000 pps.