

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

EXPERIMENTAL

(Nature of Service)

XD      FX

(Class of Station)

WJ2XPO

(Call Sign)

0051-EX-CR-2020

(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(j) of the Commission's Rules

Station Locations

(1) El Segundo (LOS ANGELES), CA - NL 33-54-38; WL 118-25-33

Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-54-38; WL 118-25-33

| Frequency     | Station Class | Emission Designator | Authorized Power   | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|--------------------|---------------------------|
| 3000-3100 MHz | FX            | 2M12P0N             | 11.585377 kW (ERP) |                           |

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.
- (4) Raytheon SAS should be aware that the radar may not be used for UAS Detect and Avoid purposes. These purposes include, maintaining well clear separation; providing collision avoidance between UAS or between UAS and other aircraft; providing situational awareness information to UAS pilots; and replacing FAA required visual observers.

This authorization effective March 01, 2020 and  
will expire 3:00 A.M. EST September 01, 2021

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



**Special Conditions:**

- (5) Raytheon SAS be aware that UAS Detect and Avoid systems will need to operate in frequency bands allocated to the Aeronautical Radionavigation Service.
- (6) Raytheon SAS shall limit all operations to altitudes below 400 feet above ground level.
- (7) Raytheon SAS shall limit all operations using unmanned aircraft to a maximum of 55 pounds, including the radar system.
- (8) Raytheon SAS shall limit all operations to visual line-of-sight of the UAS pilot.
- (9) Stop Buzzer is Hooman Kazemi at (909) 294-9543.