

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WI2XKT

(Call Sign)

0171-EX-PL-2016

(File Number)

NAME The Boeing 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(h) of the Commission's Rules

Station Locations

(1) El Segundo, CA - NL 33-55-47; WL 118-23-22

Frequency Information

El Segundo, CA - NL 33-55-47; WL 118-23-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
100-108 MHz	FX	N0N	1.33 mW (ERP)	
123.125-123.275 MHz	FX	N0N	1.33 mW (ERP)	
123.325-123.475 MHz	FX	N0N	1.33 mW (ERP)	
128.825-132 MHz	FX	N0N	1.33 mW (ERP)	

This authorization effective September 26, 2016 and
will expire 3:00 A.M. EST October 01, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

El Segundo, CA - NL 33-55-47; WL 118-23-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.5-136.975 MHz	FX	N0N	1.33 mW (ERP)	
137-200 MHz	FX	N0N	1.33 mW (ERP)	
200-224 MHz	FX	N0N	90 uW (ERP)	
228.9 MHz	FX	N0N	90 uW (ERP)	
242.525 MHz	FX	N0N	90 uW (ERP)	
296.9 MHz	FX	N0N	90 uW (ERP)	
401-600 MHz	FX	N0N	90 uW (ERP)	
600-607 MHz	FX	N0N	25.3 uW (ERP)	
615-975 MHz	FX	N0N	25.3 uW (ERP)	
981-1018 MHz	FX	N0N	25.3 uW (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1032-1084 MHz	FX	N0N	42 uW (ERP)	
1096-1273 MHz	FX	N0N	42 uW (ERP)	
1286-1305 MHz	FX	N0N	42 uW (ERP)	
1313-1399 MHz	FX	N0N	42 uW (ERP)	
1428-1660 MHz	FX	N0N	42 uW (ERP)	
1669-2310 MHz	FX	N0N	42 uW (ERP)	
2355-2689 MHz	FX	N0N	42 uW (ERP)	
2700-2701 MHz	FX	N0N	42 uW (ERP)	
2709-2751 MHz	FX	N0N	42 uW (ERP)	
2759-2851 MHz	FX	N0N	42 uW (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2859-2881 MHz	FX	N0N	42 uW (ERP)	
2889-3000 MHz	FX	N0N	42 uW (ERP)	
3000-3649 MHz	FX	N0N	16.7 uW (ERP)	
3701-4989 MHz	FX	N0N	16.7 uW (ERP)	
5030-5250 MHz	FX	N0N	16.7 uW (ERP)	
5250-8999 MHz	FX	N0N	1 W (ERP)	
9201-10670 MHz	FX	N0N	1 W (ERP)	
10701-15340 MHz	FX	N0N	1 W (ERP)	
15401-23599 MHz	FX	N0N	1 W (ERP)	
24001-31299 MHz	FX	N0N	1 W (ERP)	

Frequency Information

El Segundo, CA - NL 33-55-47; WL 118-23-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
31801-50199 MHz	FX	N0N	1 W (ERP)	
50401-52500 MHz	FX	N0N	1 W (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Experimental use is secondary to and must not interfere with Flight Test operations.
- (4) Use of these frequencies is not exclusive. Multiple users are licensed for these frequencies in the same geographic area. Transmission on any given frequency in California may be subject to day-to-day, hour-by-hour scheduling with the Los Angeles Area Flight Test Radio Coordinating Committee. POC's are:
 - Daniel Robinson, Phone (661) 272-7033
 - JJ Littlefield, Phone (661) 810-8694
- (5) Boeing must coordinate with other users as necessary to minimize interference.
- (6) Renewal of this License is subject to prior coordination with AFTRCC Frequency Advisory Committee, www.afttrcc.org
- (7) Operation is NOT PERMITTED using the frequency bands:
 - 406-406.1 MHz
 - 410.275-410.325 MHz
 - 1164-1189 MHz
 - 1215-1240 MHz
 - 1559-1610 MHz
 - 4200-4400 MHz
 - 5001-5030 MHz
 - 5091-5150 MHz.
- (8) This frequency assign was coordinated prior to authorize with FAA headquarters, 800 Independence Avenue, S.W. Washington, DC 20591. Phone 202-267-8699.
- (9) Use of this frequency or band under the authority of this assign is subject to further coordination with the WAFC, as necessary to ensure compatibility with the existing uses.
- (10) Periodic testing to ensure integrity of RF shielded room at Boeing facility.
- (11) Most testing conducted inside of chamber.
- (12) Stop Buzzer, Rand Putnam, 310-364-8582 or 310-256-1203.

Special Conditions:

- (13) Boeing agrees that project limited to testing, experimentation or trial and may not involve live-duty operations by first responders or others to protect life, property, or safety.
- (14) Applicant agrees that any press release to be issued regarding the license, surrounding demonstration, or use of Band 14 spectrum relating to the STA must be coordinated with and receive written signoff from FirstNet prior to release (POCs: ryan.oremland@firstnet.gov and justin.shore@firstnet.gov).
- (15) Boeing certifies that the Governor-appointed FirstNet Single Point of Contact within the proposed STA location has been notified of STA application (contact information available at www.firstnet.gov/consultation).
- (16) Boeing must accept interference from any other user of Band 14 and must coordinate operation with other authorized Band 14 STAs/ELs (i.e. during trade shows, multiple STAs will likely be requested and granted, it is up to each STA holder to effectively coordinate operation amongst themselves). Failure to effectively coordinate shall result in immediate suspension of STA until such time, as determined by FirstNet, that project may continue.
- (17) Boeing must not cause interference to FirstNet operations or those approved to operate in Band 14 per license (i.e. SMLA licensees/current incumbents). Failure to effectively coordinate shall result in immediate suspension of STA until such time, as determined by FirstNet, that project may continue.
- (18) Boeing certifies that it has verified with reasonable supporting detail no current potential for interference with FirstNet operations or those approved to operate in Band 14 per STA/EL or license (i.e. SMLA licensees/current incumbents).
- (19) Point-of-contact is established and sent to FirstNet upon STA approval with "kill switch" authority; Applicant agrees to immediately cease operations at request of FirstNet upon receipt (in any form and for any reason) of request to kill switch POC until such time, as determined by FirstNet, that project may continue.
- (20) Operation using the frequency bands 128.825-132 MHz and 136.5-136.975 MHz is subject to prior coordination with Aviation Spectrum Resources Inc. (ASRI).