

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

EXPERIMENTAL

(Nature of Service)

WE2XYB

(Call Sign)

XT FX MO

(Class of Station)

0298-EX-CR-2019

(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(i) of the Commission's Rules

Station Locations

- (1) Mesa, AZ - NL 33-28-23; WL 111-43-36; MOBILE: At flight level 15000 Ft, Mesa, AZ, within 80 km, centered around NL 33-28-23; WL 111-43-36
- (2) Winslow, AZ - NL 35-01-19; WL 110-43-21; MOBILE: At flight level 15000 Ft, Winslow, AZ, within 80 km, centered around NL 35-01-19; WL 110-43-21
- (3) MOBILE: At flight level 15000 ft, Statewide, AZ
- (4) MOBILE: At flight level 15000 ft, Albuquerque, NM, within 80 km, centered around NL 35-08-44; WL 106-35-38
- (5) Socorro (SOCORRO), NM - NL 33-59-00; WL 107-11-10; MOBILE: Langmuir Laboratory, Socorro, NM, within 80 km, centered around NL 33-59-00; WL 107-11-10
- (6) Socorro (SOCORRO), NM - NL 33-05-10; WL 106-55-50; MOBILE: EMRTC, Socorro, NM, within 80 km, centered around NL 33-05-10; WL 106-55-50
- (7) Las Cruces (DONA ANA), NM - NL 32-17-00; WL 106-59-00; MOBILE: NMSU Physical Science Labs Flight Test Center, Las Cruces, NM, within 80 km, centered around NL 32-17-00; WL 106-59-00

Frequency Information

Mesa, AZ - NL 33-28-23; WL 111-43-36; MOBILE: At flight level 15000 Ft, Mesa, AZ, within 80 km, centered around NL 33-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	FX	5K00F2N	34.13 W (ERP)	

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Mesa, AZ - NL 33-28-23; WL 111-43-36; MOBILE: At flight level 15000 Ft, Mesa, AZ, within 80 km, centered around NL 33-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	MO	5K00F3D	15.24 W (ERP)	

Winslow, AZ - NL 35-01-19; WL 110-43-21; MOBILE: At flight level 15000 Ft, Winslow, AZ, within 80 km, centered around NL :

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	FX	5K00F2N	34.13 W (ERP)	
460-470 MHz	FX	5K00F3D	15.24 W (ERP)	

MOBILE: At flight level 15000 ft, Statewide, AZ

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	MO	5K00F3D	15.24 W (ERP)	
460-470 MHz	FX	5K00F3D	34.13 W (ERP)	

MOBILE: At flight level 15000 ft, Albuquerque, NM, within 80 km, centered around NL 35-08-44; WL 106-35-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	MO	5K00F3D	15.24 W (ERP)	

Frequency Information

Socorro (SOCORRO), NM - NL 33-59-00; WL 107-11-10; MOBILE: Langmuir Laboratory, Socorro, NM, within 80 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	FX	5K00F2N	34.13 W (ERP)	
460-470 MHz	MO	5K00F3N	15.24 W (ERP)	

Socorro (SOCORRO), NM - NL 33-05-10; WL 106-55-50; MOBILE: EMRTC, Socorro, NM, within 80 km, centered around NL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	FX	5K00F2N	34.13 W (ERP)	
460-470 MHz	MO	5K00F3D	15.24 W (ERP)	

Las Cruces (DONA ANA), NM - NL 32-17-00; WL 106-59-00; MOBILE: NMSU Physical Science Labs Flight Test Center, Las Cruces

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	FX	5K00F2N	34.13 W (ERP)	
460-470 MHz	MO	5K00F3D	15.24 W (ERP)	

Special Conditions:

- (1) 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.

Special Conditions:

- (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.
- (4) Due to concerns with third harmonic emissions from these airborne stations interfering with extremely sensitive radio astronomy facilities operating nearby in the 1400 - 1427 MHz passive band. Operations should be coordinated with the National Radio Astronomy Observatory, Mr. Dan Mertely, dmertely@nrao.edu.
- (5) Operation is NOT permitted on the frequency band 462.94-463.19675 MHz and 467.94-468.19675 MHz.
- (6) The designated point-of-contact to terminate transmissions if interference occurs is Eric Knutesen at 480-213-0216.