

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

W12XWO

(Call Sign)

0314-EX-CN-2017

(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) MOBILE: Surface to 80,000 Feet, White Sands Missile, NM, within 25 km, centered around NL 32-57-00; WL 106-27-00
- (2) MOBILE: Surface to 80,000 Feet, White Sands Missile, NM, within 25 km, centered around NL 33-38-24; WL 106-36-35
- (3) MOBILE: Surface to 80,000 Feet, Dugway Proving Grounds, UT, within 25 km, centered around NL 40-10-12; WL 113-28-11
- (4) MOBILE: Surface to 80,000 Feet, Edwards Air Force Base, CA, within 25 km, centered around NL 34-57-00; WL 117-49-58
- (5) MOBILE: Surface to 80,000 Feet, Wilcox Playa, AZ, within 25 km, centered around NL 32-08-24; WL 109-50-59

Frequency Information

MOBILE: Surface to 80,000 Feet, White Sands Missile, NM, within 25 km, centered around NL 32-57-00; WL 106-27-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
401.4-406 MHz	MO		300 mW (ERP)	
		6K00A0A		
		6K00F1D		
		50K0F1D		

This authorization effective May 25, 2017 and
will expire 3:00 A.M. EST June 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Surface to 80,000 Feet, White Sands Missile, NM, within 25 km, centered around NL 33-38-24; WL 106-36-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
401.4-406 MHz	MO	6K00A0A 6K00F1D 50K0F1D	300 mW (ERP)	

MOBILE: Surface to 80,000 Feet, Dugway Proving Grounds, UT, within 25 km, centered around NL 40-10-12; WL 113-28-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
401.4-406 MHz	MO	6K00A0A 6K00F1D 50K0F1D	300 mW (ERP)	

MOBILE: Surface to 80,000 Feet, Edwards Air Force Base, CA, within 25 km, centered around NL 34-57-00; WL 117-49-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
401.4-406 MHz	MO	6K00A0A 6K00F1D 50K0F1D	300 mW (ERP)	

MOBILE: Surface to 80,000 Feet, Wilcox Playa, AZ, within 25 km, centered around NL 32-08-24; WL 109-50-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
401.4-406 MHz	MO	6K00A0A 6K00F1D	300 mW (ERP)	

Frequency Information

MOBILE: Surface to 80,000 Feet, Wilcox Playa, AZ, within 25 km, centered around NL 32-08-24; WL 109-50-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
401.4-406 MHz	MO	50K0F1D	300 mW (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) The "Stop Buzzer" point of contact is Bob Hill at 321-427-7479.
- (4) The Boeing Company must not transmit in the 406 MHz to 406.1 MHz range as per ITU, Radio Regulations, Appendix 15 and NTIA Manual footnotes 5.266 and 5.267 these distress frequencies are protected from any possible interference.
- (5) Boeing Company is reminded that emission bandwidth overlap into the frequency range 406-406.1 MHz is prohibited and will not be tolerated. The highest useable frequencies with the 6 KHz and 50 KHz emission are 405.997 and 405.975 MHz respectively.
- (6) Operations must be scheduled as a WSMR Range mission through the WSMR appointed sponsor with the WSMR FREQ CONTROL (AR ,170104,RJW,AFC-WSMR), 575-678-1193. Final authorization to radiate shall be contingent upon successful scheduling and de-confliction of BOTH Airspace and Spectrum with other area wide operations.
- (7) WSMR reserves the right to mandate the use of WSMR Radiosondes to ensure optimal data collection.
- (8) Boeing must coordinate balloon launches with Nation Weather Service/Southern Region, POC Mike Love at 682-703-3742, mike.love@noaa.gov