

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WQ9XKE

(Call Sign)

XT FX MO

(Class of Station)

0670-EX-ST-2020

(File Number)

NAME The Boeing Company

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

This request is being submitted to support Command and Control, Telemetry, and Data links for an Unmanned Aircraft.

Station Locations

- (1) ST CHARLES (ST CHARLES), MO - NL 38-48-26; WL 90-28-17
- (2) ST CHARLES (ST CHARLES), MO - NL 38-55-37; WL 90-25-54
- (3) Yuma, AZ - NL 33-19-51; WL 114-19-55
- (4) MOBILE: Airborne 10,000 ft flight level, Yuma, AZ, within 10 km, centered around NL 33-19-51; WL 114-19-55

Frequency Information

ST CHARLES (ST CHARLES), MO - NL 38-48-26; WL 90-28-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-449 MHz	FX	1M20D7D	48 W (ERP)	
420-449 MHz	FX	1M20D7D	5 W (ERP)	

This authorization effective June 29, 2020 and
will expire 3:00 A.M. EST December 16, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

ST CHARLES (ST CHARLES), MO - NL 38-48-26; WL 90-28-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	FX	230KF1D	61 W (ERP)	
1370-1390 MHz	FX	230KF1D	255 W (ERP)	
1370-1390 MHz	FX	230KF1D	3.85 W (ERP)	
2205.5 MHz	FX	4M00F7D	1.22 W (ERP)	
2216.5 MHz	FX	4M00F7D	1.22 W (ERP)	
2239.5 MHz	FX	4M00F7D	1.22 W (ERP)	
2268.5 MHz	FX	4M00F7D	1.22 W (ERP)	
2282.5 MHz	FX	4M00F7D	1.22 W (ERP)	

ST CHARLES (ST CHARLES), MO - NL 38-55-37; WL 90-25-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-449 MHz	FX	1M20D7D	48 W (ERP)	

Frequency Information

ST CHARLES (ST CHARLES), MO - NL 38-55-37; WL 90-25-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-449 MHz	FX	1M20D7D	5 W (ERP)	
902-928 MHz	FX	230KF1D	61 W (ERP)	
1370-1390 MHz	FX	230KF1D	255 W (ERP)	
1370-1390 MHz	FX	230KF1D	3.85 W (ERP)	
2205.5 MHz	FX	4M00F7D	1.22 W (ERP)	
2216.5 MHz	FX	4M00F7D	1.22 W (ERP)	
2239.5 MHz	FX	4M00F7D	1.22 W (ERP)	
2268.5 MHz	FX	4M00F7D	1.22 W (ERP)	
2282.5 MHz	FX	4M00F7D	1.22 W (ERP)	

Frequency Information

Yuma, AZ - NL 33-19-51; WL 114-19-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-449 MHz	FX	1M20D7D	48 W (ERP)	
902-928 MHz	FX	230KF1D	61 W (ERP)	
1370-1390 MHz	FX	230KF1D	255 W (ERP)	

MOBILE: Airborne 10,000 ft flight level, Yuma, AZ, within 10 km, centered around NL 33-19-51; WL 114-19-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-449 MHz	MO	1M20D7D	5 W (ERP)	
1370-1390 MHz	MO	230KF1D	3.85 W (ERP)	
2205.5 MHz	MO	4M00F7D	1.22 W (ERP)	
2216.5 MHz	MO	4M00F7D	1.22 W (ERP)	
2239.5 MHz	MO	4M00F7D	1.22 W (ERP)	
2268.5 MHz	MO	4M00F7D	1.22 W (ERP)	

Frequency Information

MOBILE: Airborne 10,000 ft flight level, Yuma, AZ, within 10 km, centered around NL 33-19-51; WL 114-19-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2282.5 MHz	MO	4M00F7D	1.22 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 50 miles of the contours of the testing area:
 - Location & Monitoring Service licensees (902-928 MHz)
- (4) The Boeing Company must coordinate/schedule use of the bands associated with Yuma, AZ on this STA with the Yuma Proving Ground Spectrum Manager (Steven Sparks) at 928-328-7144 NLT 14 days prior to the start of operations.
- (5) The 449-450 MHz frequency band shall be excluded from operations.
- (6) The Boeing Company must coordinate with DOD AFC AZ, Mark Rossow (520) 538-6423 mark.k.rossow.civ@mail.mil or Christopher Chaffin (520) 538-6424 christopher.a.chaffin2.civ@mail.mil.
- (7) The Boeing Company should be aware that the bands 420-449 MHz and 1370-1390 MHz may be used on systems in support of US Government systems; however, these bands are not available for civil unmanned aircraft systems.
- (8) Stop Buzzer, Benjamin Wasilowski at 206-240-3497.