Spectrum Management, MC 1K-105, P.O. Box 3707, Seattle, WA 98124-2207,

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL	WP9XFA
(Nature of Service)	(Call Sign)
XC FX MO	1647-EX-ST-2019
(Class of Station)	(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, Video, and Data links for an Unmanned Aircraft.

Station Locations

(1) Yuma, AZ - NL 32-59-26; WL 114-15-09; MOBILE: 5000 Foot Flight Level, within 10 km, centered around NL 32-59-26; WL 114-15-09
(2) Ft Huachuca, AZ - NL 31-38-29; WL 110-16-50; MOBILE: 10000 Foot Flight Level, within 10 km, centered around NL 31-38-29; WL 110-16-50

Frequency Information

Yuma, AZ - NL 32-59-26; WL 114-15-09; MOBILE: 5000 Foot Flight Level, within 10 km, centered around NL 32-59-26; WL 11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	FX	1M20D7D	48 W (ERP)	
420-450 MHz	MO	1M20D7D	5 W (ERP)	

This authorization effective October 20, 2019 and will expire 3:00 A.M. EST April 21, 2020

FEDERAL COMMUNICATIONS COMMISSION

Frequency Information

Yuma, AZ - NL 32-59-26; WL 114-15-09; MOBILE: 5000 Foot Flight Level, within 10 km, centered around NL 32-59-26; WL 11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	MO	230KF1D	61 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)	
2282.5 MHz	MO	4M00F7D	1.22 W (ERP)	
2410.75 MHz	MO	16M0F3F	1.22 W (ERP)	
2433.75 MHz	MO	16M0F3F	1.22 W (ERP)	
2452.75 MHz	MO	16M0F3F	1.22 W (ERP)	
2462.75 MHz	MO	16M0F3F	1.22 W (ERP)	

Frequency Information

Yuma, AZ - NL 32-59-26; WL 114-15-09; MOBILE: 5000 Foot Flight Level, within 10 km, centered around NL 32-59-26; WL 11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2472.75 MHz	MO	16M0F3F	1.22 W (ERP)	
2486 MHz	MO	16M0F3F	1.22 W (ERP)	
2490 MHz	MO	16M0F3F	1.22 W (ERP)	
2495 MHz	MO	16M0F3F	1.22 W (ERP)	

Ft Huachuca, AZ - NL 31-38-29; WL 110-16-50; MOBILE: 10000 Foot Flight Level, within 10 km, centered around NL 31-38-2

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	FX	1M20D7D	48 W (ERP)	
420-450 MHz	MO	1M20D7D	5 W (ERP)	
902-928 MHz	MO	230KF1D	61 W (ERP)	
2205.5 MHz	MO	4M00F7D	1.22 W (ERP)	
2216.5 MHz	MO	4M00F7D	1.22 W (ERP)	

Frequency Information

Ft Huachuca, AZ - NL 31-38-29; WL 110-16-50; MOBILE: 10000 Foot Flight Level, within 10 km, centered around NL 31-38-2

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2239.5 MHz	MO	4M00F7D	1.22 W (ERP)	
2268.5 MHz	MO	4M00F7D	1.22 W (ERP)	
2282.5 MHz	MO	4M00F7D	1.22 W (ERP)	
2410.75 MHz	MO	16M0F3F	1.22 W (ERP)	
2433.75 MHz	MO	16M0F3F	1.22 W (ERP)	
2452.75 MHz	MO	16M0F3F	1.22 W (ERP)	
2462.75 MHz	MO	16M0F3F	1.22 W (ERP)	
2472.75 MHz	MO	16M0F3F	1.22 W (ERP)	
2486 MHz	MO	16M0F3F	1.22 W (ERP)	
2490 MHz	MO	16M0F3F	1.22 W (ERP)	

Frequency Information

Ft Huachuca, AZ - NL 31-38-29; WL 110-16-50; MOBILE: 10000 Foot Flight Level, within 10 km, centered around NL 31-38-2

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2495 MHz	MO	16M0F3F	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) Stop Buzzer for this operation is Benjamin Wasilowski at 206-240-3497.

(4) The Boeing Company must notch out the following at both locations requested:
a. 425.75 MHz (+/- 3.25 MHz)
b. 428.75 MHz (+/- 3.25 MHz)
c. 431.75 MHz (+/- 3.25 MHz)
d. 434.75 MHz (+/- 3.25 MHz)
e. 437.75 MHz (+/- 3.25 MHz)
f. 440.75 MHz (+/- 3.25 MHz)
g. 443.75 MHz (+/- 3.25 MHz)
h. 446.75 MHz (+/- 3.25 MHz)
i. 447-450 MHz band
j. 902-928 MHz band
k. 2205.5 MHz
l. 2216.5 MHz
m. 2239.5 MHz
n. 2268.5 MHz

(5) The Boeing Company must coordinate/schedule Yuma operations through their Yuma Proving Grounds Test Officer at least 14 calendar days prior to operations.

(6) The Boeing Company must coordinate/schedule Ft Huachuca operations at least 14 calendar days prior to operations by contacting Steven Payton at 520.538.8117 or steven.r.payton.civ@mail.mil.

(7) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 100 miles of the contours of the testing area: Location & Monitoring Service licensees (902-928 MHz)

(8) The applicant shall coordinate with the local Society of Broadcast Engineers frequency coordinator and the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d) prior to operation on 2452.75 MHz, 2462.75 MHz, 2472.75 MHz, 2486.MHz, 2490 MHz, and 2495 MHz .

(9) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.