

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

EXPERIMENTAL

(Nature of Service)

WG9XJB

(Call Sign)

XT FX MO

(Class of Station)

0218-EX-ST-2013

(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:

To test the various systems on the S-100 Unmanned Aircraft System (UAS).

Station Locations

- (1) MOBILE: Restricted Area R2310, Florence, AZ, within 80 km, centered around NL 33-04-48; WL 111-22-21
- (2) Mesa (MARICOPA), AZ - NL 33-28-19; WL 111-43-28

Frequency Information

MOBILE: Restricted Area R2310, Florence, AZ, within 80 km, centered around NL 33-04-48; WL 111-22-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433.2125 MHz	MO	12K5F9W	0.76 W (ERP)	
433.2625 MHz	MO	12K5F9W	0.76 W (ERP)	

This authorization effective March 29, 2013 and
will expire 3:00 A.M. EST September 02, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Restricted Area R2310, Florence, AZ, within 80 km, centered around NL 33-04-48; WL 111-22-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1780 MHz	MO	18M0F9W	4.85 W (ERP)	
1840 MHz	MO	18M0F9W	4.85 W (ERP)	
4400 MHz	MO	700KF9W	538 W (ERP)	
4470 MHz	MO	700KF9W	538 W (ERP)	
4490 MHz	MO	700KF9W	538 W (ERP)	
4510 MHz	MO	700KF9W	538 W (ERP)	
4780 MHz	MO	20M0F9W	8.5 W (ERP)	
4790 MHz	MO	20M0F9W	8.5 W (ERP)	
4810 MHz	MO	20M0F9W	8.5 W (ERP)	
4888 MHz	MO	20M0F9W	8.5 W (ERP)	

Frequency Information

Mesa (MARICOPA), AZ - NL 33-28-19; WL 111-43-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433.2125 MHz	MO	12K5F9W	0.76 W (ERP)	
433.2625 MHz	MO	12K5F9W	0.76 W (ERP)	
1780 MHz	MO	18M0F9W	4.85 W (ERP)	
1840 MHz	MO	18M0F9W	4.85 W (ERP)	
4400 MHz	MO	700KF9W	538 W (ERP)	
4470 MHz	MO	700KF9W	538 W (ERP)	
4490 MHz	MO	700KF9W	538 W (ERP)	
4510 MHz	MO	700KF9W	538 W (ERP)	
4780 MHz	FX	20M0F9W	8.5 W (ERP)	
4790 MHz	MO	20M0F9W	8.5 W (ERP)	

Frequency Information

Mesa (MARICOPA), AZ - NL 33-28-19; WL 111-43-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4810 MHz	MO	20M0F9W	8.5 W (ERP)	
4888 MHz	MO	20M0F9W	8.5 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) Licensee must obtain consent from the Advanced Wireless Service licensees prior to operation in 1710-1755 MHz band.
- (4) The National Science Foundation (NSF) objects to the use of 4990-5000 MHz, as that band is an exclusive passive-only band, used by radio astronomy facilities in the Arizona and New Mexico areas.
- (5) The designated point-of-contact to terminate the system if having interference occurs is Sean McWilliams at 480-249-7086 or Tim Walker at 602-739-5200.