

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

EXPERIMENTAL

(Nature of Service)

WH9XHQ

(Call Sign)

XT FX MO

(Class of Station)

1124-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 develop a platform agnostic sensor suite and software package to demonstrate autonomous approaches and landing for unprepared landing sites using the Unmanned Little Bird platform.

Station Locations

- (1) Belen (VALENCIA), NM; MOBILE: Belen, NM, within 80 km, centered around NL 34-39-59; WL 107-06-01
- (2) MOBILE: ALbuquerque, NM, within 80 km, centered around NL 35-27-23; WL 106-19-30

Frequency Information

Belen (VALENCIA), NM; MOBILE: Belen, NM, within 80 km, centered around NL 34-39-59; WL 107-06-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14747 MHz	MO	21M4G1D 45M0G1D 64M0G1D 800KG1D	2 W (ERP)	
14798 MHz	MO	21M4G1D	2 W (ERP)	

This authorization effective February 19, 2014 and
will expire 3:00 A.M. EST July 03, 2014

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Belen (VALENCIA), NM; MOBILE: Belen, NM, within 80 km, centered around NL 34-39-59; WL 107-06-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14798 MHz	MO	45M0G1D 64M0G1D 800KG1D	2 W (ERP)	
15190 MHz	FX	800KG1D	2 W (ERP)	
15250 MHz	FX	21M4G1D 45M0G1D 800KG1D	2 W (ERP)	

MOBILE: Albuquerque, NM, within 80 km, centered around NL 35-27-23; WL 106-19-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14757 MHz	MO	800KG1D 21M4G1D 45M0G1D 64M0G1D	2 W (ERP)	
14798 MHz	MO	21M4G1D 45M0G1D 800KG1D 64M0G1D	2 W (ERP)	
15190 MHz	FX	800KG1D	2 W (ERP)	

Frequency Information

MOBILE: ALbuquerque, NM, within 80 km, centered around NL 35-27-23; WL 106-19-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15250 MHz	FX	21M4G1D 45M0G1D 800KG1D	2 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) The designated point-of-contact to terminate the systems if interference occurs is Mark Hardesty at 480-891-1857 (Office) and 480-250-4276 (Cell).
- (4) NTIA objects to the use of following frequencies/emissions due to FAA microwave operations in close proximity:
 - a. 15190 MHz at the following emissions:
 1. 21M4G1D
 2. 45M0G1D
 3. 64M0G1D
 - b. 15250 MHz at the following emission:
 1. 64M0G1D
- (5) Boeing must utilize the frequencies as follows:
 - a. Mobile operations:
 1. 14747 MHz and 14798 MHz
 - b. Fixed operations:
 1. 15190 MHz and 15250 MHz
- (6) Boeing must coordinate all operations with the WSMR DoD-AFC office, at least 96 hours prior to radiation. This must be done via e-mail to usarmy.wsmr.imcom-central.list.dodaafc@mail.mil and is strongly encouraged that this scheduling be done a weekly basis.
- (7) The WSMR DoD-AFC will then schedule the Boeing operations in the Integrated Frequency De-confliction System (IFDS), the de-facto DoD frequency scheduling tool. Should a frequency conflict arise between Boeing and another DoD or Federal agency, the DoD/Federal operations shall take precedence, and Boeing will be requested to stand down during the Federal operations. Once Federal operations have completed, Boeing will be notified that they may continue their operations.

Special Conditions:

- (8) Due to the close proximity, the WSMR DoD-AFC will also provide the Kirtland AFB Installation Spectrum Manager (ISM) with the Boeing operations schedule. The Kirtland AFB shall notify the WSMR DoD-AFC of any possible conflicts. Should there be any spectrum conflicts with Kirtland AFB operations, Boeing will also be required to stand down during the Kirtland AFB operations. Once the conflicting Kirtland operations have completed, Boeing will be notified that they can resume their operations.
- (9) The DOD Area Frequency Coordinator P.O.C. is Richard J. Wyman, Comm: 575-678-3402, DSN 258, Blackberry: 575-635-3475, NIPR: richard.j.wyman2.civ@mail.mil, SIPR: richard.j.wyman2.civ@mail.smil.mil, GROUP E-MAIL: usarmy.wsmr.imcom-entrail.list.dodaafc@mail.mil