

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

EXPERIMENTAL

(Nature of Service)

WP9XLU

(Call Sign)

XT FX MO

(Class of Station)

1860-EX-ST-2019

(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:

UAS command and control operations.

On 10/26/2019, the Commission granted a Special Temporary Authorization to 1860-EX-ST-2019.

Station Locations

- (1) Orlando, FL - NL 28-21-11; WL 81-33-33
- (2) MOBILE: Airborne Max FLight Level 500 Feet, Orlando, FL, within 4 km, centered around NL 28-21-11; WL 81-33-33

Frequency Information

Orlando, FL - NL 28-21-11; WL 81-33-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5031.1625 MHz	FX	230KF1D	25 W (ERP)	
5039.3325 MHz	FX	230KF1D	25 W (ERP)	

This authorization effective November 01, 2019 and
will expire 3:00 A.M. EST January 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Airborne Max FLight Level 500 Feet, Orlando, FL, within 4 km, centered around NL 28-21-11; WL 81-33-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5031.1625 MHz	MO	230KF1D	1.7 W (ERP)	
5039.3325 MHz	MO	230KF1D	1.7 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) Operation is subject to prior coordination with FAA.
- (4) Stop Buzzer, Chris Eisele at 509-637-5310.
- (5) Ground station uses maximum 6dBi antenna with 10 W and airborne station uses maximum 4 dBi antenna with 1 W power.
- (6) Ground and airborne stations are configured for single frequency duplex operation. Frequency selection based upon RTCA phase one UAS C2 channelization using widest band channel to accommodate non-compliant bandwidth 250kHz.
- (7) Frequency selection is limited to this location and not to be constructed for either nationwide usage or possession by the proponent.
- (8) Radio does not meet DO-362 standard, final airframe and airworthiness certification shall not be granted until the radio is replacing with a DO-362 compliant version.
- (9) If a transponder is required at Orlando, FL, then it must be approved in accordance with all applicable FAA standards.
- (10) Maximum altitude is 500 above ground level and operations are within 2 nautical miles of the ground control station (GCS).
- (11) The Boeing Company must adhere to the coordinated conditions of NG T190188 (TRK 190163) and NG T190189 (TRK 190164).