

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

EXPERIMENTAL

(Nature of Service)

WN9XZW

(Call Sign)

XT FX MO

(Class of Station)

0314-EX-ST-2019

(File Number)

NAME Raytheon SAS

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:

The purpose of the frequency authorization is for a flight demonstration of the integration of the X-Net Radio onto a RQ-21A Blackjack.

Station Locations

- (1) Virginia Beach, VA - NL 36-55-36; WL 76-01-37; MOBILE: 100 Km around Fort Story
VA Flight Level 5000 FT, within 100 km, centered around NL 36-55-36; WL 76-01-37

Frequency Information

Virginia Beach, VA - NL 36-55-36; WL 76-01-37; MOBILE: 100 Km around Fort Story VA Flight Level 5000 FT, within 100 km,

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1755-1820 MHz	MO	1M20G2D	4.832 W (ERP)	
1755-1820 MHz	FX	1M20G2D	4.832 W (ERP)	
2290-2305 MHz	FX	1M20G2D	4.832 W (ERP)	

This authorization effective April 27, 2019 and
will expire 3:00 A.M. EST May 14, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Virginia Beach, VA - NL 36-55-36; WL 76-01-37; MOBILE: 100 Km around Fort Story VA Flight Level 5000 FT, within 100 km,

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2290-2305 MHz	MO	1M20G2D	4.832 W (ERP)	
2345-2359 MHz	FX	1M20G2D	4.832 W (ERP)	
2345-2359 MHz	MO	1M20G2D	4.832 W (ERP)	
2396-2500 MHz	FX	1M20G2D	4.832 W (ERP)	
2396-2500 MHz	MO	1M20G2D	4.832 W (ERP)	

Special Conditions:

- (1) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (2) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) Obtain consents from the Broadband Radio Service licensees prior to operation in 2496-2500 MHz band.
- (6) The stop buzzer contact for this project is Craig Mauldin
Phone: 310-647-8102
Email: Craig_D_Mauldin@raytheon.com
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (8) Operations in the WCS bands (2310-2320 MHz and 2345-2360 MHz) must comply with the emission limits applicable to those bands. See 47 C.F.R. § 27.53(a).

Special Conditions:

- (9) Prior to commencing any operations in WCS (2310-2320 MHz/2345-2360 MHz) frequencies, the applicant must obtain consent from the WCS licensee (AT&T).
- (10) Airborne use in 2290-2305 MHz is not permitted due to an explicit airborne prohibition in Section 2.106 of our rules.
- (11) Raytheon SAS must notch out the following:
 - a. 1820 - 1850 MHz Band
 - b. 2200 - 2290 MHz band
- (12) Raytheon SAS is requested to provide STOP BUZZER contact information and date/time/location of planned testing to midlantaftc_paxriver@navy.mil 3 days prior to operations.