

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

EXPERIMENTAL

(Nature of Service)

WR9XLC

(Call Sign)

XT FX MO

(Class of Station)

1878-EX-ST-2020

(File Number)

NAME Raytheon Company (Missiles and Defense - M)

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:

Testing of a radio system using another for verification.

Station Locations

- (1) MOBILE: ground and airborne operations, within 16 km, centered around NL 32-06-16; WL 110-57-12
- (2) Tucson (PIMA), AZ - NL 32-06-16; WL 110-57-12
- (3) Tucson (PIMA), AZ - NL 32-06-26; WL 110-56-18
- (4) Tucson (PIMA), AZ - NL 32-05-47; WL 110-56-47

Frequency Information

MOBILE: ground and airborne operations, within 16 km, centered around NL 32-06-16; WL 110-57-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451 MHz	MO	8K20F1D 11K0F1D	10 W (ERP)	
461 MHz	MO	8K20F1D	10 W (ERP)	

This authorization effective February 01, 2021 and
will expire 3:00 A.M. EST July 31, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: ground and airborne operations, within 16 km, centered around NL 32-06-16; WL 110-57-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
461 MHz	MO	11K0F1D	10 W (ERP)	
466 MHz	MO	8K20F1D 11K0F1D	10 W (ERP)	

Tucson (PIMA), AZ - NL 32-06-16; WL 110-57-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
32-33.653 GHz	FX	965MMXN	1600 kW (ERP)	
35.035-36 GHz	FX	1G00MXN	1600 kW (ERP)	

Tucson (PIMA), AZ - NL 32-06-26; WL 110-56-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
32-33.653 GHz	FX	1G00MXN	1600 kW (ERP)	
35.035-36 GHz	FX	965MMXN	1600 kW (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-05-47; WL 110-56-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
32-33.653 GHz	FX	1G00MXN	1600 kW (ERP)	
35.035-36 GHz	FX	965MMXN	1600 kW (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) Secure consents from the Upper Microwave Flexible Use Service licensees in the proposed areas prior to accessing to 32-37 GHz band to avoid adverse effect to the UMFUS operations in adjacent band, 37-40 GHz
- (5) The designated point of contact to terminate the system if interference occurs is Jim Ortega at 520-794-0227
- (6) In accordance with table of spectrum allocation footnote US64 operation is not permitted for aeronautical mobile on 451-457 MHz band.
- (7) Operation is not permitted in following frequency bands:
 - a. 33653 - 35035 MHz band
 - b. 36000 - 37000 MHz band.
- (8) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.