

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WP9XFB

(Call Sign)

1194-EX-ST-2019

(File Number)

NAME Raytheon Missile Systems

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:
Radar cross section testing

Station Locations

(1) Tucson (PIMA), AZ - NL 32-06-10; WL 110-56-58

Frequency Information

Tucson (PIMA), AZ - NL 32-06-10; WL 110-56-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2-3 GHz	FX	2M00P0N	300 mW (ERP)	
3-4 GHz	FX	2M00P0N	400 mW (ERP)	
4-5 GHz	FX	2M00P0N	600 mW (ERP)	

This authorization effective September 05, 2019 and
will expire 3:00 A.M. EST February 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Tucson (PIMA), AZ - NL 32-06-10; WL 110-56-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5-6 GHz	FX	2M00P0N	800 mW (ERP)	
6-8 GHz	FX	2M00P0N	1 W (ERP)	
8-10 GHz	FX	2M00P0N	1.4 W (ERP)	
10-12 GHz	FX	2M00P0N	1.9 W (ERP)	
12-14 GHz	FX	2M00P0N	2.6 W (ERP)	
14-16 GHz	FX	2M00P0N	3.5 W (ERP)	
16-17 GHz	FX	2M00P0N	4.7 W (ERP)	
17-18 GHz	FX	2M00P0N	6.3 W (ERP)	

Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the Area Frequency Coordinator, Ft. Huachuca, AZ, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the AFC, Ft. Huachuca, as necessary to ensure compatibility with existing uses.
- (2) Operation requires consent of affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.

Special Conditions:

- (3) 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.
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (6) 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.
- (7) Raytheon Missile Systems may not operate in the following bands: 2 - 3 GHz, 5 - 6 GHz, 8 - 10 GHz, or any bands protected under Footnote US246.
- (8) Raytheon Missile Systems must notch out the following (+/- 4 MHz) 4455 MHz.
- (9) Raytheon Missile Systems must coordinate with the Navy POC at (520) 794-4218 at least 24 hours prior to testing.
- (10) Raytheon Missile Systems must coordinate with Mr. Dan Mertly, nrao-rfi@nrao.edu, or (575) 835-7128 for any bands covered under Footnote US342.
- (11) Raytheon Missile Systems must limit all operations to 100mW CW transmissions, not to exceed 40 nanoseconds in duration per frequency step, with transmission steps no less than 10 MHz increments, and a duty cycle not to exceed 1.2%. Testing shall limit the use of a single frequency to no more than a total of 3 minutes each day.
- (12) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number N00019-15-C-0092. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (13) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 50 miles of the contours of the testing area:
 - WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T)