

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

EXPERIMENTAL

(Nature of Service)

XC      FX

(Class of Station)

WG9XZW

(Call Sign)

0144-EX-ST-2013

(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:**

To show products are in compliance with MIL-STD 461.

**Station Locations**

(1) Tucson (PIMA), AZ - NL 32-06-23; WL 110-56-48

**Frequency Information**

Tucson (PIMA), AZ - NL 32-06-23; WL 110-56-48

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 14-1000 kHz   | FX            | 200HP0N             | 13 W (ERP)       |                           |
| 1-2000 MHz    | FX            | 200HP0N             | 13 W (ERP)       |                           |
| 2000-4000 MHz | FX            | 200HP0N             | 330 W (ERP)      |                           |

This authorization effective October 18, 2013 and  
will expire 3:00 A.M. EST April 16, 2014

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Tucson (PIMA), AZ - NL 32-06-23; WL 110-56-48

| Frequency      | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|---------------------|------------------|---------------------------|
| 4000-40000 MHz | FX            | 200HP0N             | 13 W (ERP)       |                           |

## Special Conditions:

- (1) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (5) Operation in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (6) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (7) For 3650-3700 MHz band, Raytheon shall maintain separation from the grandfathered satellite earth station as defined in Part 90 Subpart Z, or coordinate and agreement with the grandfathered earth station licensees. In addition, Raytheon must notify the registered stations in the 3650-3700 MHz band.
- (8) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Thomas Fagan at (520) 794-0227 (office) or (520) 465-7087 (cell).
- (9) 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 HQ0276-11-C-0002. 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.

## Special Conditions:

- (10) Raytheon Missile Systems must notch out the following frequencies and frequency bands:
- a. 220 kHz +/- 2 kHz
  - b. 338 kHz +/- 2 kHz
  - c. 394 kHz +/- 2 kHz
  - d. 2850 kHz thru 3025 kHz
  - e. 3400 kHz thru 3500 kHz
  - f. 4650 kHz thru 4700 kHz
  - g. 4995 kHz thru 5005 kHz
  - h. 5450 kHz thru 5680 kHz
  - i. 6525 kHz thru 6685 kHz
  - j. 8815 kHz thru 8965 kHz
  - k. 9995 kHz thru 10100 kHz
  - l. 11275 kHz thru 11400 kHz
  - m. 13260 kHz thru 13360 kHz
  - n. 14995 kHz thru 15505 kHz
  - o. 17900 kHz thru 17970 kHz
  - p. 19995 kHz thru 20005 kHz
  - q. 21924 kHz thru 22000 kHz
  - r. 24995 kHz thru 25005 kHz
  - s. 74.600 MHz thru 75.400 MHz
  - t. 108.000 MHz thru 137.000 MHz
  - u. 328.600 MHz thru 335.400 MHz
- (11) Raytheon Missile Systems must notch out the following frequencies +/- 12.5 kHz
- a. 162.325 MHz
  - b. 243.000 MHz
  - c. 253.500 MHz
  - d. 255.400 MHz
  - e. 257.800 MHz
  - f. 259.100 MHz
  - g. 269.025 MHz
  - h. 269.300 MHz
  - i. 269.550 MHz
  - j. 273.600 MHz
  - k. 275.800 MHz
  - l. 279.650 MHz
  - m. 281.500 MHz
  - n. 284.000 MHz
  - o. 290.300 MHz
  - p. 291.750 MHz
  - q. 294.700 MHz
  - r. 316.150 MHz
  - s. 318.100 MHz
  - t. 321.300 MHz
  - u. 322.425 MHz
  - v. 326.200 MHz
  - w. 327.150 MHz

## Special Conditions:

(12) Raytheon Missile Systems must notch out the following frequencies as indicated:

- a. 978.000 MHz +/- 1 MHz
- b. 980.000 MHz +/- 1 MHz
- c. 1015.000 MHz +/- 1 MHz
- d. 1030.000 MHz +/- 4 MHz
- e. 1090.000 MHz +/- 4 MHz
- f. 1194.000 MHz +/- 1 MHz
- g. 1550.000 MHz thru 1610.000 MHz
- h. 2725.000 MHz +/- 3 MHz
- i. 2750.000 MHz +/- 3 MHz
- j. 4200.000 MHz thru 4400.000 MHz
- k. 7225.000 MHz +/- 10 MHz
- l. 8133.000 MHz +/- 10 MHz
- m. 8300.000 MHz +/- 10 MHz
- n. 8365.000 MHz +/- 10 MHz