

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

EXPERIMENTAL

(Nature of Service)

WH9XUZ

(Call Sign)

XT      FX MO

(Class of Station)

0617-EX-ST-2014

(File Number)

NAME Insitu

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 support research and development operations.

**Station Locations**

- (1) Bingen, WA - NL 45-42-24; WL 121-27-30
- (2) Boardman Range, OR - NL 45-43-14; WL 120-10-36
- (3) MOBILE: Airborne operations up to 10,000 feet flight level, within 20 km, centered around NL 45-43-14; WL 120-10-36

**Frequency Information**

Bingen, WA - NL 45-42-24; WL 121-27-30

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 141-163 MHz | FX            | 1H00N0N<br>25K0F8N  | 76 W (ERP)       |                           |
| 141-163 MHz | FX            | 25K0F8N             | 5.5 W (ERP)      |                           |

This authorization effective September 03, 2014 and  
will expire 3:00 A.M. EST February 21, 2015

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Bingen, WA - NL 45-42-24; WL 121-27-30

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 262 MHz     | FX            | 1H00N0N<br>25K0F8N  | 76 W (ERP)       |                           |
| 262 MHz     | FX            | 25K0F8N             | 350 mW (ERP)     |                           |
| 462-468 MHz | FX            | 1H00N0N<br>25K0F8N  | 76 W (ERP)       |                           |
| 462-468 MHz | FX            | 25K0F8N             | 500 mW (ERP)     |                           |
| 925-960 MHz | FX            | 280KGXW             | 76 W (ERP)       |                           |
| 925-960 MHz | FX            | 25K0F8N             | 5 W (ERP)        |                           |

Boardman Range, OR - NL 45-43-14; WL 120-10-36

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 141-163 MHz | FX            | 1H00N0N<br>25K0F8N  | 76 W (ERP)       |                           |
| 262 MHz     | FX            | 1H00N0N<br>25K0F8N  | 76 W (ERP)       |                           |

## Frequency Information

Boardman Range, OR - NL 45-43-14; WL 120-10-36

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 462-468 MHz | FX            | 1H00N0N<br>25K0F8N  | 76 W (ERP)       |                           |
| 925-960 MHz | FX            | 280KGXW             | 76 W (ERP)       |                           |

MOBILE: Airborne operations up to 10,000 feet flight level, within 20 km, centered around NL 45-43-14; WL 120-10-36

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 141-163 MHz | MO            | 1H00N0N<br>25K0F8N  | 76 W (ERP)       |                           |
| 262 MHz     | FX            | 1H00N0N<br>25K0F8N  | 76 W (ERP)       |                           |
| 462-468 MHz | FX            | 1H00N0N<br>25K0F8N  | 76 W (ERP)       |                           |
| 925-960 MHz | MO            | 280KGXW             | 76 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.

## Special Conditions:

- (3) All operations subject to notification of Mobility Division Services in the immediate area of the testing: Paging licenses in 152-153 MHz and 157-159 MHz.
- (4) Coordinate with the local SBE frequency coordinator prior to operation in 141-163 MHz and 925-960 MHz
- (5) Coordinate with the Fixed Microwave Service licensees prior to operation in 925-960 MHz.
- (6) Insitu must notch out the following frequencies:
  - a. Notch out the following +/- 5 kHz:
    - 1 . 162.6000 MHz
    - 2 . 162.8000 MHz
  - b. Notch out the following +/- 6.25 kHz:
    - 1 . 148.1500 MHz
    - 2 . 162.2250 MHz
    - 3 . 162.2375 MHz
    - 4 . 162.6125 MHz
    - 5 . 162.7000 MHz
    - 6 . 162.7500 MHz
    - 7 . 162.9625 MHz
  - c. Notch out the following +/- 8 kHz:
    - 1 . 156.5250 MHz
    - 2 . 156.8000 MHz
    - 3 . 162.3000 MHz
  - d. Notch out the following +/- 10 kHz:
    - 1 . 161.9750 MHz
    - 2 . 162.0250 MHz
  - e. Notch out the following +/- 25 kHz:
    - 1 . 162.4000 MHz
    - 2 . 162.4250 MHz
    - 3 . 162.5250 MHz
- (7) Stop buzzer is Operations Action Center at (866) 637-4691.
- (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.