

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

EXPERIMENTAL

(Nature of Service)

WK9XYZ

(Call Sign)

XT      FX MO

(Class of Station)

0345-EX-ST-2017

(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:**  
See technical description.

Station Locations

- (1) Bingen, WA - NL 45-42-23; WL 121-27-29
- (2) Boardman, OR - NL 45-44-54; WL 119-47-38
- (3) MOBILE: 10,000 Feet Maximum Flight level, within 50 km, centered around NL 45-44-54; WL 119-47-38

Frequency Information

Bingen, WA - NL 45-42-23; WL 121-27-29

| Frequency       | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|------------------------------------------|------------------|---------------------------|
| 14400-14830 MHz | FX            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D | 5 W (ERP)        |                           |
| 15150-15350 MHz | FX            | 800KG1D                                  | 83 kW (ERP)      |                           |

This authorization effective April 01, 2017 and  
will expire 3:00 A.M. EST October 01, 2017

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Bingen, WA - NL 45-42-23; WL 121-27-29

| Frequency       | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|-------------------------------|------------------|---------------------------|
| 15150-15350 MHz | FX            | 8M00G1D<br>21M4G1D<br>42M8G1D | 83 kW (ERP)      |                           |

Boardman, OR - NL 45-44-54; WL 119-47-38

| Frequency       | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|------------------------------------------|------------------|---------------------------|
| 15150-15350 MHz | FX            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D | 83 kW (ERP)      |                           |

MOBILE: 10,000 Feet Maximum Flight level, within 50 km, centered around NL 45-44-54; WL 119-47-38

| Frequency           | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|---------------------|---------------|------------------------------------------|------------------|---------------------------|
| 14.7145-15.1365 GHz | MO            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D | 5 W (ERP)        |                           |

## Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) Use of this spectrum shall be for Federal/military usage only. Mobile operations shall operate in 14.7145-15.1365 GHz only.