

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
RADIO STATION CONSTRUCTION PERMIT  
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WD2XZD

(Call Sign)

XC      FX MO

(Class of Station)

0060-EX-ML-2010

(File Number)

NAME Illinois, The Board of Trustees of the University of

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(b) of the Commission's Rules

Station Locations

- (1) MOBILE: Bondville RADAR range near Bondville, IL., within 30 km, centered around NL 40-06-48; WL 88-22-00
- (2) MOBILE: Sea-Tac International Airport, Seatac, WA, centered around NL 47-26-41; WL 122-18-49
- (3) MOBILE: Whidbey Island Naval Air Station, Oak Harbor, WA, within 30 km, centered around NL 48-21-00; WL 122-39-30
- (4) MOBILE: Cherry Point Marine Corps Air Station, Cherry Point, NC, within 30 km, centered around NL 34-54-00; WL 76-53-00
- (5) MOBILE: JFK International Airport, New York, NY, within 30 km, centered around NL 40-37-42; WL 73-46-36
- (6) MOBILE: Chicago-O'Hare International Airport, within 30 km, centered around NL 41-58-45; WL 87-54-10
- (7) MOBILE: 40 km Radius Centered on Dallas-Ft. Worth International Airport, within 40 km, centered around NL 32-53-57; WL 97-02-54
- (8) MOBILE: US
- (9) US, US; MOBILE: US

This authorization effective July 09, 2010 and  
will expire 3:00 A.M. EST July 01, 2013

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Bondville RADAR range near Bondville, IL., within 30 km, centered around NL 40-06-48; WL 88-22-00

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 9410 MHz  | MO            | 60M0P0N             | 19.86 MW (ERP)   |                           |
| 9410 MHz  | MO            | 60M0P0N             | 39.62 MW (ERP)   |                           |

MOBILE: Sea-Tac International Airport, Seatac, WA, centered around NL 47-26-41; WL 122-18-49

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 9410 MHz  | MO            | 60M0P0N             | 19.86 MW (ERP)   |                           |
| 9410 MHz  | MO            | 60M0P0N             | 39.62 MW (ERP)   |                           |

MOBILE: Whidbey Island Naval Air Station, Oak Harbor, WA, within 30 km, centered around NL 48-21-00; WL 122-39-30

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 9410 MHz  | MO            | 60M0P0N             | 19.86 MW (ERP)   |                           |
| 9410 MHz  | MO            | 60M0P0N             | 39.62 MW (ERP)   |                           |

## Frequency Information

MOBILE: Cherry Point Marine Corps Air Station, Cherry Point, NC, within 30 km, centered around NL 34-54-00; WL 76-53-00

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 9410 MHz  | MO            | 60M0P0N             | 19.86 MW (ERP)   |                           |
| 9410 MHz  | MO            | 60M0P0N             | 39.62 MW (ERP)   |                           |

MOBILE: JFK International Airport, New York, NY, within 30 km, centered around NL 40-37-42; WL 73-46-36

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 9410 MHz  | MO            | 60M0P0N             | 19.86 MW (ERP)   |                           |
| 9410 MHz  | MO            | 60M0P0N             | 39.62 MW (ERP)   |                           |

MOBILE: Chicago-O'Hare International Airport, within 30 km, centered around NL 41-58-45; WL 87-54-10

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 9410 MHz  | MO            | 60M0P0N             | 19.86 MW (ERP)   |                           |
| 9410 MHz  | MO            | 60M0P0N             | 39.62 MW (ERP)   |                           |

## Frequency Information

MOBILE: 40 km Radius Centered on Dallas-Ft. Worth International Airport, within 40 km, centered around NL 32-53-57; WL 97-02-54

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 9410 MHz  | MO            | 60M0P0N             | 19.86 MW (ERP)   |                           |
| 9410 MHz  | MO            | 60M0P0N             | 39.62 MW (ERP)   |                           |

MOBILE: US

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 9410 MHz  | MO            | 60M0P0N             | 39.62 MW (ERP)   |                           |
| 9410 MHz  | MO            | 60M0P0N             | 19.86 MW (ERP)   |                           |

US, US; MOBILE: US

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 3050 MHz  | MO            | 73M0P0N             | 30 kW (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

**Special Conditions:**

- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by FAA contract no. A5778 DOT 05-C-AT-UIUC. 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.
- (5) Pulse Duration must be 0.08/0.3/0.8 microsecond, and Pulse Repetition Rate must be 2.1K/1.2K/600 pulse per second.