

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WF2XAL

(Call Sign)

0132-EX-CM-2018

(File Number)

NAME The Boeing Company

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(i) of the Commission's Rules

Station Locations

- (1) MOBILE: Up to 10,000 feet flight level, Boardman, OR, within 16 km, centered around NL 45-44-54; WL 119-47-38
- (2) MOBILE: Up to 10,000 feet flight level, Fort Leonard Wood, MO, within 16 km, centered around NL 37-44-30; WL 92-08-27
- (3) MOBILE: Up to 10000 feet flight level, Eglin AFB, FL, within 192 km, centered around NL 30-29-12; WL 86-30-30
- (4) MOBILE: Up to 10000 feet flight level, China Lake, CA, within 100 km, centered around NL 35-55-03; WL 117-39-24
- (5) MOBILE: Ground checks only, Berkeley, MO, within 2 km, centered around NL 38-45-13; WL 90-20-59
- (6) MOBILE: Ground checks only, St. Charles, MO, within 2 km, centered around NL 38-55-55; WL 90-25-23
- (7) MOBILE: Ground checks only, St. Charles, MO, within 2 km, centered around NL 38-48-18; WL 90-28-15
- (8) MOBILE: Ground checks only, Vandalia, IL, within 2 km, centered around NL 38-59-30; WL 89-09-58
- (9) MOBILE: Ground checks only, Seattle, WA, within 15 km, centered around NL 47-30-59; WL 122-18-20
- (10) MOBILE: Ground checks only, Huntington Beach, CA, within 2 km, centered around NL 33-44-54; WL 118-02-02
- (11) MOBILE: Ground checks only, Seal Beach, CA, within 2 km, centered around NL 33-45-24; WL 118-05-12
- (12) MOBILE: Ground checks only, Anaheim, CA, within 2 km, centered around NL 33-51-16; WL 117-51-06
- (13) MOBILE: Up to 10000 feet flight level, Las Cruces, NM, within 25 km, centered around NL 32-17-40; WL 106-55-30

This authorization effective July 13, 2018 and  
will expire 3:00 A.M. EST September 01, 2018

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



Station Locations

- (14) MOBILE: 3,000 ft flight level, Desert Rock, NV, within 25 km, centered around NL 36-53-31; WL 116-15-20
- (15) MOBILE: Ground checks only, Redstone Arsenal, Huntsville, AL, within 8 km, centered around NL 34-36-21; WL 86-40-05
- (16) MOBILE: Ground checks only, Sherman, TX, within 8 km, centered around NL 33-33-26; WL 96-36-57
- (17) MOBILE: Up to 1200 feet above ground level, Silex, MO, within 41 km, centered around NL 39-06-48; WL 91-02-31

## Frequency Information

MOBILE: Up to 10,000 feet flight level, Boardman, OR, within 16 km, centered around NL 45-44-54; WL 119-47-38

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2205.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2216.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2239.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2268.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2282.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Up to 10,000 feet flight level, Boardman, OR, within 16 km, centered around NL 45-44-54; WL 119-47-38

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: Up to 10,000 feet flight level, Fort Leonard Wood, MO, within 16 km, centered around NL 37-44-30; WL 92-08-27

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2205.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2216.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Up to 10,000 feet flight level, Fort Leonard Wood, MO, within 16 km, centered around NL 37-44-30; WL 92-08-27

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2239.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2268.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2282.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Up to 10,000 feet flight level, Fort Leonard Wood, MO, within 16 km, centered around NL 37-44-30; WL 92-08-27

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 2495 MHz  | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: Up to 10000 feet flight level, Eglin AFB, FL, within 192 km, centered around NL 30-29-12; WL 86-30-30

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz   | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2356-2400 MHz | MO            | 2M40F1D             | 5 W (ERP)        |                           |
| 2410.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz      | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Up to 10000 feet flight level, Eglin AFB, FL, within 192 km, centered around NL 30-29-12; WL 86-30-30

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 2490 MHz  | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz  | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: Up to 10000 feet flight level, China Lake, CA, within 100 km, centered around NL 35-55-03; WL 117-39-24

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2205.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2216.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2239.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2268.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2282.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Up to 10000 feet flight level, China Lake, CA, within 100 km, centered around NL 35-55-03; WL 117-39-24

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: Ground checks only, Berkeley, MO, within 2 km, centered around NL 38-45-13; WL 90-20-59

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz   | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2356-2400 MHz | MO            | 2M40F1D             | 5 W (ERP)        |                           |

## Frequency Information

MOBILE: Ground checks only, Berkeley, MO, within 2 km, centered around NL 38-45-13; WL 90-20-59

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2410.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2478-2503 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz      | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz      | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz      | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 5685 MHz      | MO            | 10M0P0N             | 30 W (ERP)       |                           |

## Frequency Information

MOBILE: Ground checks only, Berkeley, MO, within 2 km, centered around NL 38-45-13; WL 90-20-59

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 5750 MHz  | MO            | 20M0P0N             | 10 W (ERP)       |                           |

MOBILE: Ground checks only, St. Charles, MO, within 2 km, centered around NL 38-55-55; WL 90-25-23

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz   | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2356-2400 MHz | MO            | 2M40F1D             | 5 W (ERP)        |                           |
| 2410.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz      | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Ground checks only, St. Charles, MO, within 2 km, centered around NL 38-55-55; WL 90-25-23

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 2490 MHz  | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz  | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 5750 MHz  | MO            | 20M0P0N             | 10 W (ERP)       |                           |

MOBILE: Ground checks only, St. Charles, MO, within 2 km, centered around NL 38-48-18; WL 90-28-15

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz   | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2356-2400 MHz | MO            | 2M40F1D             | 5 W (ERP)        |                           |
| 2410.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Ground checks only, St. Charles, MO, within 2 km, centered around NL 38-48-18; WL 90-28-15

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 5750 MHz    | MO            | 20M0P0N             | 10 W (ERP)       |                           |

MOBILE: Ground checks only, Vandalia, IL, within 2 km, centered around NL 38-59-30; WL 89-09-58

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2205.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2216.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2239.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Ground checks only, Vandalia, IL, within 2 km, centered around NL 38-59-30; WL 89-09-58

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2268.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2282.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Ground checks only, Seattle, WA, within 15 km, centered around NL 47-30-59; WL 122-18-20

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2205.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2216.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2239.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2268.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2282.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Ground checks only, Seattle, WA, within 15 km, centered around NL 47-30-59; WL 122-18-20

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: Ground checks only, Huntington Beach, CA, within 2 km, centered around NL 33-44-54; WL 118-02-02

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Ground checks only, Huntington Beach, CA, within 2 km, centered around NL 33-44-54; WL 118-02-02

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: Ground checks only, Seal Beach, CA, within 2 km, centered around NL 33-45-24; WL 118-05-12

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Ground checks only, Seal Beach, CA, within 2 km, centered around NL 33-45-24; WL 118-05-12

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: Ground checks only, Anaheim, CA, within 2 km, centered around NL 33-51-16; WL 117-51-06

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Ground checks only, Anaheim, CA, within 2 km, centered around NL 33-51-16; WL 117-51-06

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: Up to 10000 feet flight level, Las Cruces, NM, within 25 km, centered around NL 32-17-40; WL 106-55-30

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 72 MHz      | MO            | 5K50F1D             | 61 W (ERP)       |                           |
| 72 MHz      | MO            | 5K50F1D             | 3.85 W (ERP)     |                           |
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 902-928 MHz | MO            | 230KF1D             | 1 W (ERP)        |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Up to 10000 feet flight level, Las Cruces, NM, within 25 km, centered around NL 32-17-40; WL 106-55-30

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: 3,000 ft flight level, Desert Rock, NV, within 25 km, centered around NL 36-53-31; WL 116-15-20

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: 3,000 ft flight level, Desert Rock, NV, within 25 km, centered around NL 36-53-31; WL 116-15-20

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: Ground checks only, Redstone Arsenal, Huntsville, AL, within 8 km, centered around NL 34-36-21; WL 86-40-05

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2205.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Ground checks only, Redstone Arsenal, Huntsville, AL, within 8 km, centered around NL 34-36-21; WL 86-40-05

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2216.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2239.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2268.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2282.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Ground checks only, Redstone Arsenal, Huntsville, AL, within 8 km, centered around NL 34-36-21; WL 86-40-05

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 2490 MHz  | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz  | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: Ground checks only, Sherman, TX, within 8 km, centered around NL 33-33-26; WL 96-36-57

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 2205.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2216.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2239.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2268.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2282.5 MHz  | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2410.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Ground checks only, Sherman, TX, within 8 km, centered around NL 33-33-26; WL 96-36-57

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

MOBILE: Up to 1200 feet above ground level, Silex, MO, within 41 km, centered around NL 39-06-48; WL 91-02-31

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 902-928 MHz | MO            | 230KF1D             | 176 W (ERP)      |                           |

## Frequency Information

MOBILE: Up to 1200 feet above ground level, Silex, MO, within 41 km, centered around NL 39-06-48; WL 91-02-31

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 902-928 MHz   | MO            | 230KF1D             | 3.85 W (ERP)     |                           |
| 1370-1390 MHz | MO            | 230KF1D             | 176 W (ERP)      |                           |
| 1370-1390 MHz | MO            | 230KF1D             | 61 W (ERP)       |                           |
| 1370-1390 MHz | MO            | 230KF1D             | 3.85 W (ERP)     |                           |
| 2205 MHz      | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2216.5 MHz    | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2239.5 MHz    | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2268.5 MHz    | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2282.5 MHz    | MO            | 4M00F7D             | 1.22 W (ERP)     |                           |
| 2410.75 MHz   | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Frequency Information

MOBILE: Up to 1200 feet above ground level, Silex, MO, within 41 km, centered around NL 39-06-48; WL 91-02-31

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 2433.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2452.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2462.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2472.75 MHz | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2486 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2490 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |
| 2495 MHz    | MO            | 16M0F3F             | 1.22 W (ERP)     |                           |

## Special Conditions:

- (1) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) Operation is subject to prior coordination with Fixed Microwave licensees in the immediate area.
- (5) The designated point-of-contacts to terminate transmissions if interference should occur are: Peter A. Drain (314) 705-9332; Thomas Rice (314) 323-7394; (or) Bobby Cartmill (314) 705-0171.

**Special Conditions:**

- (6) Operation at Eglin AFB, Florida is subject to prior coordination with Gulf Area Frequency Coordinator at (850) 883-7535.
- (7) Operation at China Lake, CA is subject to prior coordination with Western Area Frequency Coordinator at (760) 939-6948.
- (8) During transmission, aircraft shall not exceed 10000 ft AGL.
- (9) Operation is NOT permitted on the frequency band 2200 - 2309 MHz in Eglin AFB, FL; Berkeley, MO; St. Charles, MO, Huntington Beach, CA; Seal Beach, CA; Anaheim, CA; Philadelphia, PA and Dersert Rock, NV due to potential harmful interference with Federal operations.
- (10) Operation the frequency band 2203.5-2284.5 MHz in China Lake, CA is permitted using the radius of operation up to 42 km only.
- (11) Operation is subject to coordination with the Area Frequency Coordinator located at White Sands Missile Range (WSMR), New Mexico, prior to use in the state of New Mexico or other U.S. territory within a 240 km radius of WSMR plus the area of Utah and Colorado that lies south of 41 North and between 108 and 111 West.
- (12) Operation is NOT PERMITTED using any frequencies in the band 2203.5-2284.5 MHz in Las Cruces, NM.
- (13) Use of the frequencies 5685 MHz and 5750 MHz in Berkeley, MO is for ground testing only.
  
- (14) Operation is NOT PERMITTED using the frequency 5680-5690 MHz in Eglin AFB, FL and St. Charles, MO.
- (15) Use of frequencies 5750 MHz in St. Charles, Missouri is for ground testing only.
- (16) This frequency assignment in one of the bands 1435-1525, 2310-2320, and 2345-2395 MHz was coordinated prior to authorization with the Area Frequency Coordinator (AFC), 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, as necessary to ensure compatibility with existing uses.
- (17) Operation is subject to prior coordination with FAA Headquarters, 800 Independence Ave, S.W., Washington, D.C. 20591. Phone: 202-267-8699.
  
- (18) Flight level is not exceed 1200 FT in Silex, MO.
- (19) Pre-scheduling with Eglin AFB for using the AFTRCC frequency band is required a minimum of 72 duty hours prior to planned use. Point-of contact for scheduling is Barbara Snyder 850-885-9908 or Barbara.snyder@us.af.mil.