

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

EXPERIMENTAL

(Nature of Service)

WB9XYX

(Call Sign)

XD MO

(Class of Station)

0454-EX-ST-2004

(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.

Station Locations

- (1) MOBILE: Phoenix-Litchfield Airport, Goodyear (MARICOPA), AZ, at temporarily fixed locations, within 5 km, centered around NL 33-25-48; WL 112-21-49
- (2) MOBILE: Marana Air Park, Marana (PINAL), AZ, at temporarily fixed locations, within 5 km, centered around NL 32-30-42; WL 111-19-11
- (3) MOBILE: Mojave Airport, Mojave (KERN), CA, at temporarily fixed locations, within 5 km, centered around NL 35-03-24; WL 118-09-26
- (4) MOBILE: George Air Force Base, Victorville (SAN BERNARDINO), CA, at temporarily fixed locations, within 5 km, centered around NL 34-35-16; WL 117-22-31
- (5) MOBILE: Roswell Industrial Air Center Airport, Roswell (CHAVES), NM, at temporarily fixed locations, within 5 km, centered around NL 33-24-24; WL 104-32-36
- (6) MOBILE: Boeing Field, Seattle (KING), WA, at temporarily fixed locations, within 5 km, centered around NL 47-32-20; WL 122-18-46
- (7) MOBILE: Paine Field, Everett (SNOHOMISH), WA, at temporarily fixed locations, within 5 km, centered around NL 47-54-43; WL 112-16-20

Frequency Information

MOBILE: Phoenix-Litchfield Airport, Goodyear (MARICOPA), AZ, at temporarily fixed locations, within 5 km, centered around NL 33-25-48; WL 112-21-49

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 200-222 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

This authorization effective August 13, 2004 and  
will expire 3:00 A.M. EST February 03, 2005

**FEDERAL  
COMMUNICATIONS  
COMMISSION**

## Frequency Information

MOBILE: Phoenix-Litchfield Airport, Goodyear (MARICOPA), AZ, at temporarily fixed locations, within 5 km, centered around NL 33-25-48; WL 112-21-49

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 400-406 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 450-932 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 944-960 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1390-1435 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1535-1545 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1610-1646.5 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1660.5-1710 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1850-2300 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: Phoenix-Litchfield Airport, Goodyear (MARICOPA), AZ, at temporarily fixed locations, within 5 km, centered around NL 33-25-48; WL 112-21-49

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2310-2390 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 2500-2700 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 3000-4200 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 4400-5000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5250-5600 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5650-6000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

MOBILE: Marana Air Park, Marana (PINAL), AZ, at temporarily fixed locations, within 5 km, centered around NL 32-30-42; WL 111-19-11

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 200-222 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: Marana Air Park, Marana (PINAL), AZ, at temporarily fixed locations, within 5 km, centered around NL 32-30-42;  
WL 111-19-11

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 400-406 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 450-932 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 944-960 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1390-1435 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1535-1545 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1610-1646.5 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1660.5-1710 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1850-2300 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: Marana Air Park, Marana (PINAL), AZ, at temporarily fixed locations, within 5 km, centered around NL 32-30-42; WL 111-19-11

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2310-2390 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 2450-2700 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 3000-4200 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 4400-5000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5250-5600 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5650-6000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

MOBILE: Mojave Airport, Mojave (KERN), CA, at temporarily fixed locations, within 5 km, centered around NL 35-03-24; WL 118-09-26

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 200-222 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: Mojave Airport, Mojave (KERN), CA, at temporarily fixed locations, within 5 km, centered around NL 35-03-24; WL 118-09-26

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 400-406 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 450-932 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 944-960 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1390-1435 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1535-1545 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1610-1646.5 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1660.5-1710 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1850-2300 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: Mojave Airport, Mojave (KERN), CA, at temporarily fixed locations, within 5 km, centered around NL 35-03-24; WL 118-09-26

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2310-2390 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 2450-2700 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 3000-4200 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 4400-5000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5250-5600 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5650-6000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

MOBILE: George Air Force Base, Victorville (SAN BERNARDINO), CA, at temporarily fixed locations, within 5 km, centered around NL 34-35-16; WL 117-22-31

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 200-222 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: George Air Force Base, Victorville (SAN BERNARDINO), CA, at temporarily fixed locations, within 5 km, centered around NL 34-35-16; WL 117-22-31

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 400-406 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 450-932 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 944-960 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1390-1435 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1535-1545 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1610-1646.5 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1660.5-1710 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1850-2300 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: George Air Force Base, Victorville (SAN BERNARDINO), CA, at temporarily fixed locations, within 5 km, centered around NL 34-35-16; WL 117-22-31

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2310-2390 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 2450-2700 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 3000-4200 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 4400-5000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5250-5600 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5650-6000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

MOBILE: Roswell Industrial Air Center Airport, Roswell (CHAVES), NM, at temporarily fixed locations, within 5 km, centered around NL 33-24-24; WL 104-32-36

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 200-222 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: Roswell Industrial Air Center Airport, Roswell (CHAVES), NM, at temporarily fixed locations, within 5 km, centered around NL 33-24-24; WL 104-32-36

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 400-406 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 450-932 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 944-960 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1390-1435 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1535-1545 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1610-1646.5 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1660.5-1710 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1850-2300 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: Roswell Industrial Air Center Airport, Roswell (CHAVES), NM, at temporarily fixed locations, within 5 km, centered around NL 33-24-24; WL 104-32-36

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2310-2390 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 2450-2700 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 3000-4200 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 4400-5000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5250-5600 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5650-6000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

MOBILE: Boeing Field, Seattle (KING), WA, at temporarily fixed locations, within 5 km, centered around NL 47-32-20; WL 122-18-46

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 200-222 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: Boeing Field, Seattle (KING), WA, at temporarily fixed locations, within 5 km, centered around NL 47-32-20; WL 122-18-46

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 400-406 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 450-932 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 944-960 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1390-1435 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1535-1545 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1610-1646.5 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1660.5-1710 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1850-2300 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: Boeing Field, Seattle (KING), WA, at temporarily fixed locations, within 5 km, centered around NL 47-32-20; WL 122-18-46

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2310-2390 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 2450-2700 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 3000-4200 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 4400-5000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5250-5600 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5650-6000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

MOBILE: Paine Field, Everett (SNOHOMISH), WA, at temporarily fixed locations, within 5 km, centered around NL 47-54-43; WL 112-16-20

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 200-222 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: Paine Field, Everett (SNOHOMISH), WA, at temporarily fixed locations, within 5 km, centered around NL 47-54-43; WL 112-16-20

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 400-406 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 450-932 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 944-960 MHz     | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1390-1435 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1535-1545 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1610-1646.5 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1660.5-1710 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 1850-2300 MHz   | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |

## Frequency Information

MOBILE: Paine Field, Everett (SNOHOMISH), WA, at temporarily fixed locations, within 5 km, centered around NL 47-54-43; WL 112-16-20

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2310-2390 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 2450-2700 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 3000-4200 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 4400-5000 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5250-5600 MHz | FX            | N0N<br>50M0A3N      | 2 W (ERP)        |                           |
| 5650-6000 MHz | FX            | N0N<br>50M0A3N      | 2 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) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (3) The frequencies listed in the Public Safety Frequency Pool Table under 47 CFR, Part 90.20(c)(3) are not permitted for use.
- (4) Operation is subject to prior coordination with MDS/ITFS licensees to avoid interference.

**Special Conditions:**

- (5) Operation is subject to prior coordination with affected Part 101 licensees to avoid interference.
- (6) Licensee should avoid frequencies used by TV or DTV stations in the same area or alternatively, transmit at hours when viewers are not likely to be watching those stations.
- (7) Transmissions in the 2400-2500 MHz band are not permitted at the Phoenix-Litchfield Airport, Goodyear (MARICOPA), AZ location due to potential interference to CARS facility KA-80628.