

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

EXPERIMENTAL

(Nature of Service)

XD      FX

(Class of Station)

WD2XNA

(Call Sign)

0066-EX-RR-2013

(File Number)

NAME BOEING COMPANY, THE

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(d i) of the Commission's Rules

Station Locations

(1) Long beach (LOS ANGELES), CA - NL 33-49-38; WL 118-09-03

Frequency Information

Long beach (LOS ANGELES), CA - NL 33-49-38; WL 118-09-03

| Frequency | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|-------------------------------|------------------|---------------------------|
| 2.878 MHz | FX            | 2K50H3E<br>2K15J3E<br>100HA1A | 400 W (ERP)      | 0.001 %                   |
| 2.947 MHz | FX            | 2K50H3E<br>2K15J3E<br>100HA1A | 400 W (ERP)      | 0.001 %                   |
| 3.001 MHz | FX            | 100HA1A<br>2K15J3E            | 400 W (ERP)      | 0.001 %                   |

This authorization effective May 01, 2013 and  
will expire 3:00 A.M. EST May 01, 2015

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

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|-----------|---------------|-------------------------------|------------------|---------------------------|
| 3.001 MHz | FX            | 2K50H3E                       | 400 W (ERP)      | 0.001 %                   |
| 3.019 MHz | FX            | 2K50H3E<br>2K15J3E<br>100HA1A | 400 W (ERP)      | 0.001 %                   |
| 3.434 MHz | FX            | 100HA1A<br>2K15J3E<br>2K50H3E | 400 W (ERP)      | 0.001 %                   |
| 4.672 MHz | FX            | 2K50H3E<br>2K15J3E<br>100HA1A | 400 W (ERP)      | 0.001 %                   |
| 5.463 MHz | FX            | 100HA1A<br>2K15J3E<br>2K50H3E | 400 W (ERP)      | 0.001 %                   |
| 5.508 MHz | FX            | 2K50H3E<br>2K15J3E<br>100HA1A | 400 W (ERP)      | 0.001 %                   |
| 5.529 MHz | FX            | 7K00A3E<br>7K00A9W<br>14K0G1D | 400 W (ERP)      | 0.001 %                   |

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|------------|---------------|-------------------------------|------------------|---------------------------|
| 5.538 MHz  | FX            | 14K0G1D<br>7K00A9W<br>7K00A3E | 400 W (ERP)      | 0.001 %                   |
| 6.559 MHz  | FX            | 14K0G1D<br>7K00A9W<br>7K00A3E | 400 W (ERP)      | 0.001 %                   |
| 8.912 MHz  | FX            | 14K0G1D<br>7K00A9W<br>7K00A3E | 400 W (ERP)      | 0.001 %                   |
| 8.927 MHz  | FX            | 14K0G1D<br>7K00A9W<br>7K00A3E | 400 W (ERP)      | 0.001 %                   |
| 8.936 MHz  | FX            | 14K0G1D<br>7K00A9W<br>7K00A3E | 400 W (ERP)      | 0.001 %                   |
| 10.081 MHz | FX            | 14K0G1D<br>7K00A9W<br>7K00A3E | 400 W (ERP)      | 0.001 %                   |
| 11.312 MHz | FX            | 14K0G1D<br>7K00A9W            | 400 W (ERP)      | 0.001 %                   |

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|------------|---------------|-------------------------------|------------------|---------------------------|
| 11.312 MHz | FX            | 7K00A3E                       | 400 W (ERP)      | 0.001 %                   |
| 11.327 MHz | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 400 W (ERP)      | 0.001 %                   |
| 11.348 MHz | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 400 W (ERP)      | 0.001 %                   |
| 13.276 MHz | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 400 W (ERP)      | 0.001 %                   |
| 17.919 MHz | FX            | 14K0G1D<br>7K00A3W<br>7K00A9W | 400 W (ERP)      | 0.001 %                   |
| 17.934 MHz | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 400 W (ERP)      | 0.001 %                   |
| 21.928 MHz | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 400 W (ERP)      | 0.001 %                   |

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|-------------|---------------|-------------------------------|------------------|---------------------------|
| 21.934 MHz  | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 400 W (ERP)      | 0.001 %                   |
| 21.937 MHz  | FX            | 7K00A9W<br>7K00A3E<br>14K0G1D | 400 W (ERP)      | 0.001 %                   |
| 131.45 MHz  | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 25 W (ERP)       | 0.001 %                   |
| 131.55 MHz  | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 25 W (ERP)       | 0.001 %                   |
| 131.725 MHz | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 25 W (ERP)       | 0.001 %                   |
| 131.825 MHz | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 25 W (ERP)       | 0.001 %                   |
| 136.85 MHz  | FX            | 14K0G1D<br>7K00A3E            | 25 W (ERP)       | 0.001 %                   |

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|-------------|---------------|-------------------------------|------------------|---------------------------|
| 136.85 MHz  | FX            | 7K00A9W                       | 25 W (ERP)       | 0.001 %                   |
| 136.925 MHz | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 25 W (ERP)       | 0.001 %                   |
| 136.975 MHz | FX            | 14K0G1D<br>7K00A3E<br>7K00A9W | 25 W (ERP)       | 0.001 %                   |

## Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) 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.
- (3) Licensee is authorized to operate using the designated frequencies and emissions as agreed upon during prior coordination.
- (4) Operation is subject to prior coordination with Aviation Spectrum Resources Inc (ASRI).