

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

KC2XAT

(Call Sign)

0110-EX-RR-2003

(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(g) of the Commission's Rules

Station Locations

(1) EL SEGUNDO (LOS ANGELES), CA - NL 33-55-42; WL 118-23-41

Frequency Information

EL SEGUNDO (LOS ANGELES), CA - NL 33-55-42; WL 118-23-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1535-1560 MHz	FX	N0N	700 W (ERP)	
1610-1660 MHz	FX	N0N	700 W (ERP)	
1670-1700 MHz	FX	N0N	700 W (ERP)	
1850-1910 MHz	FX	N0N	700 W (ERP)	
1930-2000 MHz	FX	N0N	700 W (ERP)	
2000-2290 MHz	FX	N0N	1400 W (ERP)	
2500-2690 MHz	FX	N0N	2000 W (ERP)	
3700-4200 MHz	FX	N0N	20 W (ERP)	
4190 MHz	FX	N0N	4400 W (ERP)	
5900-5925 MHz	FX	N0N	2800 W (ERP)	
5900-6500 MHz	FX	N0N	8 W (ERP)	
5930.4 MHz	FX	N0N	2800 W (ERP)	
5960 MHz	FX	N0N	2800 W (ERP)	
5989.7 MHz	FX	N0N	2800 W (ERP)	
6019.3 MHz	FX	N0N	2800 W (ERP)	
6049 MHz	FX	N0N	2800 W (ERP)	

This authorization effective August 01, 2003 and
will expire 3:00 A.M. EST August 01, 2005

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

EL SEGUNDO (LOS ANGELES), CA - NL 33-55-42; WL 118-23-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6078.6 MHz	FX	N0N	2800 W (ERP)	
6108.3 MHz	FX	N0N	2800 W (ERP)	
6137.9 MHz	FX	N0N	2800 W (ERP)	
6167.6 MHz	FX	N0N	2800 W (ERP)	
6182.4 MHz	FX	N0N	2800 W (ERP)	
6212.1 MHz	FX	N0N	2800 W (ERP)	
6241.7 MHz	FX	N0N	2800 W (ERP)	
6271.4 MHz	FX	N0N	2800 W (ERP)	
6301 MHz	FX	N0N	2800 W (ERP)	
6330.7 MHz	FX	N0N	2800 W (ERP)	
6360.3 MHz	FX	N0N	2800 W (ERP)	
6390 MHz	FX	N0N	2800 W (ERP)	
6419.6 MHz	FX	N0N	2800 W (ERP)	
6425-6500 MHz	FX	N0N	2800 W (ERP)	
6600-7125 MHz	FX	N0N	2800 W (ERP)	
10900-10915 MHz	FX	N0N	2800 W (ERP)	
10955-11700 MHz	FX	N0N	2800 W (ERP)	
11700-12200 MHz	FX	N0N	2800 W (ERP)	
14000-14400 MHz	FX	N0N	2800 W (ERP)	
17700-19700 MHz	FX	N0N	630000 W (ERP)	
19700-23600 MHz	FX	N0N	630000 W (ERP)	
24000-27500 MHz	FX	N0N	630000 W (ERP)	
28350-31200 MHz	FX	N0N	630000 W (ERP)	
31800-36000 MHz	FX	N0N	630000 W (ERP)	
36000-38600 MHz	FX	N0N	630000 W (ERP)	
38600-51400 MHz	FX	N0N	630000 W (ERP)	
54250-58200 MHz	FX	N0N	630000 W (ERP)	
59000-64000 MHz	FX	N0N	630000 W (ERP)	
65000-86000 MHz	FX	N0N	630000 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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.

Special Conditions:

- (4) To avoid harmful interference to receiving space stations in the Mobile-Satellite Service (MSS) using Non-Geostationary Satellite Orbits (NGSO) in the frequency range 29.1-29.5 GHz, sufficient angular separation shall be maintained between the experimental transmitting station and NGSO MSS space stations.
- (5) To avoid harmful interference to Gateway receive Earth stations in the Mobile-Satellite Service (MSS) using Non-Geostationary Satellite Orbits (NGSO) in the frequency range 19.3-19.7 GHz sufficient distance shall be maintained between the experimental transmitting station and NGSO MSS Gateway Earth Stations.