

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WD9XVE

(Call Sign)

XT MO

(Class of Station)

0178-EX-ST-2009

(File Number)

NAME The Boeing Company

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

This STA will provide frequency support for a government demonstration.

Station Locations

- (1) MOBILE: Ground checks on Boeing site within vicinity of King, WA, within 2 km, centered around NL 47-31-00; WL 122-18-00
- (2) MOBILE: Flights up to 10000 feet around vicinity of Boardman, OR, within 160 km, centered around NL 45-44-54; WL 119-47-38
- (3) MOBILE: Ground checks on Boeing site within vicinity of St Charles, MO, within 2 km, centered around NL 38-48-41; WL 90-28-18
- (4) MOBILE: Flights up to 10000 feet around vicinity of Fort Leonard Wood, MO, within 160 km, centered around NL 37-38-54; WL 92-12-56

Frequency Information

MOBILE: Ground checks on Boeing site within vicinity of King, WA, within 2 km, centered around NL 47-31-00; WL 122-18-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433-434.5 MHz	MO	12K5F9W	0.76 W (ERP)	

This authorization effective April 27, 2009 and
will expire 3:00 A.M. EST October 28, 2009

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Ground checks on Boeing site within vicinity of King, WA, within 2 km, centered around NL 47-31-00; WL 122-18-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1712.5 MHz	MO	18M0F9W	4.85 W (ERP)	
1745 MHz	MO	18M0F9W	4.85 W (ERP)	
4490 MHz	MO	15M0F9W	8.5 W (ERP)	
4560 MHz	MO	15M0F9W	8.5 W (ERP)	
4942 MHz	MO	700KF9W	2140 W (ERP)	
4970 MHz	MO	700KF9W	2140 W (ERP)	

MOBILE: Flights up to 10000 feet around vicinity of Boardman, OR, within 160 km, centered around NL 45-44-54; WL 119-47-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433-434.5 MHz	MO	12K5F9W	0.76 W (ERP)	
1787.5 MHz	MO	18M0F9W	4.85 W (ERP)	
1807.5 MHz	MO	18M0F9W	4.85 W (ERP)	

Frequency Information

MOBILE: Flights up to 10000 feet around vicinity of Boardman, OR, within 160 km, centered around NL 45-44-54; WL 119-47-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4490 MHz	MO	15M0F9W	8.5 W (ERP)	
4560 MHz	MO	15M0F9W	8.5 W (ERP)	
4942 MHz	MO	700KF9W	2140 W (ERP)	
4970 MHz	MO	700KF9W	2140 W (ERP)	

MOBILE: Ground checks on Boeing site within vicinity of St Charles, MO, within 2 km, centered around NL 38-48-41; WL 90-28-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433-434.5 MHz	MO	12K5F9W	0.76 W (ERP)	
1712.5 MHz	MO	18M0F9W	4.85 W (ERP)	
1745 MHz	MO	18M0F9W	4.85 W (ERP)	
4490 MHz	MO	15M0F9W	8.5 W (ERP)	
4560 MHz	MO	15M0F9W	8.5 W (ERP)	

Frequency Information

MOBILE: Ground checks on Boeing site within vicinity of St Charles, MO, within 2 km, centered around NL 38-48-41; WL 90-28-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4942 MHz	MO	700KF9W	2140 W (ERP)	
4970 MHz	MO	700KF9W	2140 W (ERP)	

MOBILE: Flights up to 10000 feet around vicinity of Fort Leonard Wood, MO, within 160 km, centered around NL 37-38-54; WL 92-12-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433-434.5 MHz	MO	12K5F9W	0.76 W (ERP)	
1802.5 MHz	MO	18M0F9W	4.85 W (ERP)	
1835 MHz	MO	18M0F9W	4.85 W (ERP)	
4490 MHz	MO	15M0F9W	8.5 W (ERP)	
4560 MHz	MO	15M0F9W	8.5 W (ERP)	
4942 MHz	MO	700KF9W	2140 W (ERP)	
4970 MHz	MO	700KF9W	2140 W (ERP)	

Special Conditions:

- (1) Operation in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Operation is only permitted using the following frequencies:
 - Frequencies to be used in King, WA: 433-434.5 MHz, 1712.5 MHz, 1745 MHz, 4560 MHz, 4490 MHz, 4942 MHz and 4970 MHz
 - Frequencies to be used in Boardman, OR: 433-434.5 MHz, 1787.5 MHz, 1807.5 MHz, 4560 MHz, 4490 MHz, 4942 MHz and 4970 MHz
 - Frequencies to be used in St. Charles, MO: 433-434.5 MHz, 1712.5 MHz, 1745 MHz, 4560 MHz, 4490 MHz, 4942 MHz and 4970 MHz
 - Frequencies to be used in Ft. Leonard Wood, MO: 433-434.5 MHz, 1802.5 MHz, 1835 MHz, 4560 MHz, 4490 MHz, 4942 MHz and 4970 MHz.
- (5) The designated point-of-contact to terminate transmissions if interference occurs is Steven McMichael (314) 341-2134 and Paul Buhse (314) 662-3039.