

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

EXPERIMENTAL
(Nature of Service)

WF2XON
(Call Sign)

XT FX MO
(Class of Station)

0446-EX-PL-2010
(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) ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, centered around NL 38-45-07; WL 90-20-59
- (2) ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 km, centered around NL 38-48-46; WL 90-28-18
- (3) Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, centered around NL 38-56-02; WL 90-25-25
- (4) Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-29; WL 89-09-58

Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, cē

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-73 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
30-73 MHz	FX	25K0F3W 3M50G7D	9.66 W (ERP)	

This authorization effective November 16, 2011 and
will expire 3:00 A.M. EST October 15, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-73 MHz	FX	30M0G7D	9.66 W (ERP)	
75.4-108 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
75.4-108 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
450-470 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	38.54 W (ERP)	
450-470 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	12.19 W (ERP)	
450-608 MHz	FX	25K0F3W 3M50G7D	9.66 W (ERP)	

Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450-608 MHz	FX	30M0G7D	9.66 W (ERP)	
450-608 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
614-960 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
614-960 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
902-928 MHz	FX	1M50G7D 230KG7D	2.89 W (ERP)	
902-928 MHz	MO	1M50G7D 230KG7D	91 mW (ERP)	
1427-1525.42 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
1427-1525.42 MHz	MO	25K0F3W 3M50G7D	3.05 W (ERP)	

Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1427-1525.42 MHz	MO	30M0G7D	3.05 W (ERP)	
1625-1660.5 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	1.93 W (ERP)	
1625-1660.5 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	61 mW (ERP)	
1625.42-1660.5 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
1625.42-1660.5 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
1668.4-1850 MHz	FX	25K0F3W 455KG7D 466KG7D	1.93 W (ERP)	

Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1668.4-1850 MHz	FX	1M60G7D 3M20G7D 5M00G7D 6M40G7D	1.93 W (ERP)	
1668.4-2500 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
1668.4-2500 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
1668.4-1850 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	61 mW (ERP)	
2200-2310 MHz	FX	5M00G7D 20M0G7D	38.54 W (ERP)	
2200-2310 MHz	MO	5M00G7D 20M0G7D	12.19 W (ERP)	

Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2280-2310 MHz	FX	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	3.85 W (ERP)	
2280-2310 MHz	MO	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	1.21 W (ERP)	
2390-2500 MHz	FX	5M00G7D 20M0G7D	38.54 W (ERP)	
2390-2500 MHz	MO	5M00G7D 20M0G7D	12.19 W (ERP)	
2390-2550 MHz	FX	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	3.85 W (ERP)	
2390-2550 MHz	MO	1M25G7D 2M50G7D 6M00G7D 7M00G7D	1.21 W (ERP)	

Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2390-2550 MHz	MO	8M00G7D	1.21 W (ERP)	
4400-4940 MHz	MO	455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	15.28 W (ERP)	
4400-4940 MHz	FX	455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	48.3 W (ERP)	
5250-5850 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	48.3 W (ERP)	
5250-5900 MHz	FX	5M00G7D 10M0G7D 20M0G7D	38.54 W (ERP)	
5250-5900 MHz	MO	5M00G7D	12.19 W (ERP)	

Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5250-5900 MHz	MO	10M0G7D 20M0G7D	12.19 W (ERP)	
5250-5850 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	15.28 W (ERP)	
14400-14830 MHz	MO	200KG7D 400KG7D 2M00G7D 10M0G7D 21M4G7D 44M7G7D	9.16 W (ERP)	
15150-15350 MHz	FX	200KG7D 400KG7D 2M00G7D 10M0G7D 21M4G7D 44M7G7D	28.97 W (ERP)	

Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-73 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
30-73 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
75.4-108 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
75.4-108 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
450-608 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
450-470 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	38.54 W (ERP)	

Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450-608 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
450-470 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	12.19 W (ERP)	
614-960 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
614-960 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
902-928 MHz	FX	1M50G7D 230KG7D	2.89 W (ERP)	
902-928 MHz	MO	1M50G7D 230KG7D	91 mW (ERP)	
1427-1525.42 MHz	FX	25K0F3W	9.66 W (ERP)	

Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1427-1525.42 MHz	FX	3M50G7D 30M0G7D	9.66 W (ERP)	
1427-1525.42 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
1625-1660.5 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	1.93 W (ERP)	
1625-1660.5 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	61 mW (ERP)	
1625.42-1660.5 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
1625.42-1660.5 MHz	MO	25K0F3W 3M50G7D	3.05 W (ERP)	

Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1625.42-1660.5 MHz	MO	30M0G7D	3.05 W (ERP)	
1668.4-2500 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
1668.4-2500 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
1668.4-1850 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	1.93 W (ERP)	
1668.4-1850 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	61 mW (ERP)	
2200-2310 MHz	FX	5M00G7D	38.54 W (ERP)	

Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2200-2310 MHz	FX	20M0G7D	38.54 W (ERP)	
2200-2310 MHz	MO	5M00G7D 20M0G7D	12.19 W (ERP)	
2280-2310 MHz	FX	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	3.85 W (ERP)	
2280-2310 MHz	MO	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	1.21 W (ERP)	
2390-2500 MHz	FX	5M00G7D 20M0G7D	38.54 W (ERP)	
2390-2500 MHz	MO	5M00G7D 20M0G7D	12.19 W (ERP)	
2390-2550 MHz	FX	1M25G7D 2M50G7D 6M00G7D 7M00G7D	3.85 W (ERP)	

Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2390-2550 MHz	FX	8M00G7D	3.85 W (ERP)	
2390-2550 MHz	MO	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	1.21 W (ERP)	
4400-4940 MHz	FX	455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	48.3 W (ERP)	
4400-4940 MHz	MO	455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	15.28 W (ERP)	
5250-5850 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	15.28 W (ERP)	

Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5250-5900 MHz	FX	5M00G7D 10M0G7D 20M0G7D	38.54 W (ERP)	
5250-5850 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	48.3 W (ERP)	
5250-5900 MHz	MO	5M00G7D 10M0G7D 20M0G7D	12.19 W (ERP)	
14400-14830 MHz	MO	200KG7D 400KG7D 2M00G7D 10M0G7D 21M4G7D 44M7G7D	9.16 W (ERP)	
15150-15350 MHz	FX	200KG7D 400KG7D 2M00G7D 10M0G7D 21M4G7D 44M7G7D	28.97 W (ERP)	

Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-73 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
30-73 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
75.4-108 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
75.4-108 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
450-470 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	38.54 W (ERP)	
450-470 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D	12.19 W (ERP)	

Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450-470 MHz	MO	5M00G7D 6M40G7D	12.19 W (ERP)	
450-608 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
450-608 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
614-960 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
614-960 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
902-928 MHz	FX	1M50G7D 230KG7D	2.89 W (ERP)	
902-928 MHz	MO	1M50G7D 230KG7D	91 mW (ERP)	
1427-1525.42 MHz	FX	25K0F3W	9.66 W (ERP)	

Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1427-1525.42 MHz	FX	3M50G7D 30M0G7D	9.66 W (ERP)	
1427-1525.42 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
1625-1660.5 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	1.93 W (ERP)	
1625-1660.5 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	61 mW (ERP)	
1625.42-1660.5 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
1625.42-1660.5 MHz	MO	25K0F3W 3M50G7D	3.05 W (ERP)	

Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1625.42-1660.5 MHz	MO	30M0G7D	3.05 W (ERP)	
1668.4-1850 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	1.93 W (ERP)	
1668.4-2500 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
1668.4-2500 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
1668.4-1850 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	61 mW (ERP)	
2200-2310 MHz	FX	5M00G7D	38.54 W (ERP)	

Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2200-2310 MHz	FX	20M0G7D	38.54 W (ERP)	
2200-2310 MHz	MO	5M00G7D 20M0G7D	12.19 W (ERP)	
2280-2310 MHz	FX	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	3.85 W (ERP)	
2280-2310 MHz	MO	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	1.21 W (ERP)	
2390-2550 MHz	MO	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	1.21 W (ERP)	
2390-2500 MHz	FX	5M00G7D 20M0G7D	38.54 W (ERP)	
2390-2550 MHz	FX	1M25G7D	3.85 W (ERP)	

Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2390-2550 MHz	FX	2M50G7D 6M00G7D 7M00G7D 8M00G7D	3.85 W (ERP)	
2390-2500 MHz	MO	5M00G7D 20M0G7D	12.19 W (ERP)	
4400-4940 MHz	FX	455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	48.3 W (ERP)	
4400-4940 MHz	MO	455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	15.28 W (ERP)	
5250-5900 MHz	FX	5M00G7D 10M0G7D 20M0G7D	38.54 W (ERP)	
5250-5900 MHz	MO	5M00G7D 10M0G7D	12.19 W (ERP)	

Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5250-5900 MHz	MO	20M0G7D	12.19 W (ERP)	
5250-5850 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	48.3 W (ERP)	
5250-5850 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	15.28 W (ERP)	
14400-14830 MHz	MO	200KG7D 400KG7D 2M00G7D 10M0G7D 21M4G7D 44M7G7D	9.16 W (ERP)	
15150-15350 MHz	FX	200KG7D 400KG7D 2M00G7D 10M0G7D 21M4G7D	28.97 W (ERP)	

Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15150-15350 MHz	FX	44M7G7D	28.97 W (ERP)	

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-73 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
30-73 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
75.4-108 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
75.4-108 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
450-608 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	

Frequency Information

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450-608 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
450-470 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	38.54 W (ERP)	
450-470 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	12.19 W (ERP)	
614-960 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
614-960 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
902-928 MHz	FX	1M50G7D	2.89 W (ERP)	

Frequency Information

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	FX	230KG7D	2.89 W (ERP)	
902-928 MHz	MO	1M50G7D 230KG7D	91 mW (ERP)	
1427-1525.42 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
1427-1525.42 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
1625-1660.5 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	1.93 W (ERP)	
1625-1660.5 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D	61 mW (ERP)	

Frequency Information

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1625-1660.5 MHz	MO	6M40G7D	61 mW (ERP)	
1625.42-1660.5 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
1625.42-1660.5 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
1668.4-2500 MHz	FX	25K0F3W 3M50G7D 30M0G7D	9.66 W (ERP)	
1668.4-2500 MHz	MO	25K0F3W 3M50G7D 30M0G7D	3.05 W (ERP)	
1668.4-1850 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	1.93 W (ERP)	
1668.4-1850 MHz	MO	25K0F3W	61 mW (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1668.4-1850 MHz	MO	455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	61 mW (ERP)	
2200-2310 MHz	FX	5M00G7D 20M0G7D	38.54 W (ERP)	
2200-2310 MHz	MO	5M00G7D 20M0G7D	12.19 W (ERP)	
2280-2310 MHz	FX	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	3.85 W (ERP)	
2280-2310 MHz	MO	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	1.21 W (ERP)	
2390-2500 MHz	FX	5M00G7D 20M0G7D	38.54 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2390-2500 MHz	MO	5M00G7D 20M0G7D	12.19 W (ERP)	
2390-2550 MHz	FX	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	3.85 W (ERP)	
2390-2550 MHz	MO	1M25G7D 2M50G7D 6M00G7D 7M00G7D 8M00G7D	1.21 W (ERP)	
4400-4940 MHz	FX	455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	48.3 W (ERP)	
4400-4940 MHz	MO	455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	15.28 W (ERP)	

Frequency Information

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5250-5900 MHz	FX	5M00G7D 10M0G7D 20M0G7D	38.54 W (ERP)	
5250-5900 MHz	MO	5M00G7D 10M0G7D 20M0G7D	12.19 W (ERP)	
5250-5850 MHz	FX	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	48.3 W (ERP)	
5250-5850 MHz	MO	25K0F3W 455KG7D 466KG7D 1M60G7D 3M20G7D 5M00G7D 6M40G7D	15.28 W (ERP)	
14400-14830 MHz	MO	200KG7D 400KG7D 2M00G7D 10M0G7D 21M4G7D	9.16 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14400-14830 MHz	MO	44M7G7D	9.16 W (ERP)	
15150-15350 MHz	FX	200KG7D	28.97 W (ERP)	
		400KG7D		
		2M00G7D		
		10M0G7D		
		21M4G7D		
		44M7G7D		

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) 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) Licensee must get consent from the existing and future Advanced Wireless Service licensees.
- (5) Licensee must get consent from Educational Broadband Services/Broadband Radio Services.
- (6) Operation is subject to prior coordinate with the existing and future Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d).
- (7) Operation on this assignment is subject to immediate cessation, if it causes harmful interference to Air Force and Federal Aviation Administration operations.
- (8) Operation is NOT permitted using the frequency bands 75.2-75.4 MHz, 400- 450 MHz and 5600-5650 MHz.
- (9) The use of public safety frequencies listed under rule 90.20 is prohibited.
- (10) Operation is subject to prior coordination with FAA Regional Office.
- (11) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with Area Frequency Coordination (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 AFC, as necessary to ensure compatibility with existing uses.

Special Conditions:

- (12) The designated point-of-contact to terminate transmissions if interference occurs is Thomas H. Rogge at (314) 232-6019.
- (13) Operation is subject to prior coordination with Aerospace and Flight Test Radio Coordinating Council before submitted for renewal.