

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

EXPERIMENTAL

(Nature of Service)

WG2XHQ

(Call Sign)

XD FX MO

(Class of Station)

0392-EX-PL-2012

(File Number)

NAME Metric Systems Corporation

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) Vista (SAN DIEGO), CA - NL 38-44-22; WL 117-14-20; MOBILE: Vista, CA, within 80.47 km, centered around NL 38-44-22; WL 117-14-20
- (2) Pittsburgh, PA - NL 40-30-37; WL 80-06-40; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-30-37; WL 80-06-40
- (3) Pittsburgh, PA - NL 40-30-16; WL 80-05-20; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-30-16; WL 80-05-20
- (4) Pittsburgh, PA - NL 40-26-29; WL 79-59-48; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-26-29; WL 79-59-48
- (5) Pittsburgh, PA - NL 40-26-45; WL 79-56-42
- (6) Pittsburgh, PA - NL 40-29-07; WL 79-54-33; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-29-07; WL 79-54-33
- (7) Braddock, PA - NL 40-23-18; WL 79-51-31; MOBILE: Braddock, PA, within 80.47 km, centered around NL 40-23-18; WL 79-51-31
- (8) Pittsburgh, PA - NL 40-24-42; WL 79-55-52; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-24-42; WL 79-55-52
- (9) Braddock, PA - NL 40-24-18; WL 79-51-21; MOBILE: Braddock, PA, within 80.47 km, centered around NL 40-24-18; WL 79-51-21
- (10) Pittsburgh, PA - NL 40-29-48; WL 79-56-54; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-29-48; WL 79-56-54
- (11) Coraopolis, PA - NL 40-32-59; WL 80-12-29; MOBILE: Coraopolis, PA, within 80.47 km, centered around NL 40-32-59; WL 80-12-29
- (12) Monaca, PA - NL 40-38-54; WL 80-22-43; MOBILE: Monaca, PA, within 80.47 km, centered around NL 40-38-54; WL 80-22-43
- (13) Elizabeth, PA - NL 40-15-54; WL 79-53-53; MOBILE: Elizabeth, PA, within 80.47 km, centered around NL 40-15-54; WL 79-53-53

This authorization effective September 17, 2012 and
will expire 3:00 A.M. EST October 01, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (14) Belle Vernon, PA - NL 40-07-43; WL 79-52-32; MOBILE: Belle Vernon, PA, within 80.47 km, centered around NL 40-07-43; WL 79-52-32
- (15) E. Millsboro, PA - NL 40-00-15; WL 79-57-46; MOBILE: E. Millsboro, PA, within 80.47 km, centered around NL 40-00-15; WL 79-57-46
- (16) Masontown, PA - NL 39-49-34; WL 79-55-14; MOBILE: Masontown, PA, within 80.47 km, centered around NL 39-49-34; WL 79-55-14
- (17) Dilliner, PA - NL 39-43-38; WL 79-54-39; MOBILE: Dilliner, PA, within 80.47 km, centered around NL 39-43-38; WL 79-54-39
- (18) New Kensington, PA - NL 40-32-18; WL 79-48-52; MOBILE: New Kensington, PA, within 80.47 km, centered around NL 40-32-18; WL 79-48-52
- (19) Natrona, PA - NL 40-36-54; WL 79-43-05; MOBILE: Natrona, PA, within 80.47 km, centered around NL 40-36-54; WL 79-43-05
- (20) Freeport, PA - NL 40-41-00; WL 79-39-59; MOBILE: Freeport, PA, within 80.47 km, centered around NL 40-41-00; WL 79-39-59
- (21) Midland, PA - NL 40-38-32; WL 80-27-40
- (22) Beaver, PA - NL 40-40-28; WL 80-18-11
- (23) Ambridge, PA - NL 40-35-24; WL 80-13-45
- (24) Orange, TX - NL 27-57-24; WL 97-56-30
- (25) Yorktown, TX - NL 28-59-14; WL 97-30-14
- (26) Asherton, TX - NL 28-25-08; WL 99-42-51
- (27) Charlotte, TX - NL 28-51-39; WL 98-42-21
- (28) Pawnee, TX - NL 28-38-58; WL 98-06-00
- (29) Karnes, TX - NL 28-52-45; WL 97-59-43
- (30) Eagle Pass, TX - NL 32-47-02; WL 96-54-05
- (31) HOUSTON, TX - NL 29-42-50; WL 95-26-01; MOBILE: HOUSTON, TX, within 80.47 km, centered around NL 29-42-50; WL 95-26-01
- (32) Alice, TX - NL 27-45-00; WL 98-04-19
- (33) Beeville, TX - NL 28-24-17; WL 97-45-02
- (34) George West, TX - NL 28-19-51; WL 98-08-57
- (35) Sinton, TX - NL 28-02-16; WL 97-30-28
- (36) Corpus Christi, TX - NL 27-47-44; WL 97-24-18
- (37) Crosby, TX - NL 29-52-46; WL 95-03-49
- (38) Haynesville, TX - NL 34-05-13; WL 98-55-21
- (39) Ardmore, OK - NL 34-10-13; WL 97-07-43
- (40) Bellaire, MI - NL 44-58-49; WL 85-11-44
- (41) Johannesburg, MI - NL 44-59-08; WL 84-27-19
- (42) Paoli, IN - NL 38-32-07; WL 80-20-04
- (43) Midland, TX - NL 31-59-50; WL 102-04-45
- (44) Redmond, WA - NL 47-50-37; WL 122-13-00
- (45) Mountain View, CA - NL 37-41-13; WL 122-07-15
- (46) MOBILE: Quero, TX, within 80.47 km, centered around NL 29-09-04; WL 97-29-00
- (47) MOBILE: Fontennelle, WY, within 80.47 km, centered around NL 41-50-00; WL 110-06-12

Frequency Information

Vista (SAN DIEGO), CA - NL 38-44-22; WL 117-14-20; MOBILE: Vista, CA, within 80.47 km, centered around NL 38-44-22; v

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Pittsburgh, PA - NL 40-30-37; WL 80-06-40; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-30-37; WL 80

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Pittsburgh, PA - NL 40-30-16; WL 80-05-20; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-30-16; WL 80

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Frequency Information

Pittsburgh, PA - NL 40-26-29; WL 79-59-48; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-26-29; WL 79-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Pittsburgh, PA - NL 40-26-45; WL 79-56-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 MW (ERP)	

Pittsburgh, PA - NL 40-29-07; WL 79-54-33; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-29-07; WL 79-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Braddock, PA - NL 40-23-18; WL 79-51-31; MOBILE: Braddock, PA, within 80.47 km, centered around NL 40-23-18; WL 79-5

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Frequency Information

Braddock, PA - NL 40-23-18; WL 79-51-31; MOBILE: Braddock, PA, within 80.47 km, centered around NL 40-23-18; WL 79-5

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Pittsburgh, PA - NL 40-24-42; WL 79-55-52; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-24-42; WL 79-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Braddock, PA - NL 40-24-18; WL 79-51-21; MOBILE: Braddock, PA, within 80.47 km, centered around NL 40-24-18; WL 79-5

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Pittsburgh, PA - NL 40-29-48; WL 79-56-54; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-29-48; WL 79-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Frequency Information

Pittsburgh, PA - NL 40-29-48; WL 79-56-54; MOBILE: Pittsburgh, PA, within 80.47 km, centered around NL 40-29-48; WL 79-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Coraopolis, PA - NL 40-32-59; WL 80-12-29; MOBILE: Coraopolis, PA, within 80.47 km, centered around NL 40-32-59; WL 80-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Monaca, PA - NL 40-38-54; WL 80-22-43; MOBILE: Monaca, PA, within 80.47 km, centered around NL 40-38-54; WL 80-22-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Elizabeth, PA - NL 40-15-54; WL 79-53-53; MOBILE: Elizabeth, PA, within 80.47 km, centered around NL 40-15-54; WL 79-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 mW (ERP)	

Frequency Information

Elizabeth, PA - NL 40-15-54; WL 79-53-53; MOBILE: Elizabeth, PA, within 80.47 km, centered around NL 40-15-54; WL 79-5

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Belle Vernon, PA - NL 40-07-43; WL 79-52-32; MOBILE: Belle Vernon, PA, within 80.47 km, centered around NL 40-07-43; V

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 mW (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

E. Millsboro, PA - NL 40-00-15; WL 79-57-46; MOBILE: E. Millsboro, PA, within 80.47 km, centered around NL 40-00-15; WL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Masontown, PA - NL 39-49-34; WL 79-55-14; MOBILE: Masontown, PA, within 80.47 km, centered around NL 39-49-34; WL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Frequency Information

Masontown, PA - NL 39-49-34; WL 79-55-14; MOBILE: Masontown, PA, within 80.47 km, centered around NL 39-49-34; WL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Dilliner, PA - NL 39-43-38; WL 79-54-39; MOBILE: Dilliner, PA, within 80.47 km, centered around NL 39-43-38; WL 79-54-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

New Kensington, PA - NL 40-32-18; WL 79-48-52; MOBILE: New Kensington, PA, within 80.47 km, centered around NL 40-3

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Natrona, PA - NL 40-36-54; WL 79-43-05; MOBILE: Natrona, PA, within 80.47 km, centered around NL 40-36-54; WL 79-43-(

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Frequency Information

Natrona, PA - NL 40-36-54; WL 79-43-05; MOBILE: Natrona, PA, within 80.47 km, centered around NL 40-36-54; WL 79-43-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Freeport, PA - NL 40-41-00; WL 79-39-59; MOBILE: Freeport, PA, within 80.47 km, centered around NL 40-41-00; WL 79-39-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7N	60 mW (ERP)	

Midland, PA - NL 40-38-32; WL 80-27-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Beaver, PA - NL 40-40-28; WL 80-18-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Frequency Information

Ambridge, PA - NL 40-35-24; WL 80-13-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Orange, TX - NL 27-57-24; WL 97-56-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Yorktown, TX - NL 28-59-14; WL 97-30-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Asherton, TX - NL 28-25-08; WL 99-42-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Frequency Information

Charlotte, TX - NL 28-51-39; WL 98-42-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Pawnee, TX - NL 28-38-58; WL 98-06-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Karnes, TX - NL 28-52-45; WL 97-59-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Eagle Pass, TX - NL 32-47-02; WL 96-54-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Frequency Information

HOUSTON, TX - NL 29-42-50; WL 95-26-01; MOBILE: HOUSTON, TX, within 80.47 km, centered around NL 29-42-50; WL 9

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Alice, TX - NL 27-45-00; WL 98-04-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Beeville, TX - NL 28-24-17; WL 97-45-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

George West, TX - NL 28-19-51; WL 98-08-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Frequency Information

Sinton, TX - NL 28-02-16; WL 97-30-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Corpus Christi, TX - NL 27-47-44; WL 97-24-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Crosby, TX - NL 29-52-46; WL 95-03-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Haynesville, TX - NL 34-05-13; WL 98-55-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Frequency Information

Ardmore, OK - NL 34-10-13; WL 97-07-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Bellaire, MI - NL 44-58-49; WL 85-11-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Johannesburg, MI - NL 44-59-08; WL 84-27-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Paoli, IN - NL 38-32-07; WL 80-20-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Frequency Information

Midland, TX - NL 31-59-50; WL 102-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Redmond, WA - NL 47-50-37; WL 122-13-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

Mountain View, CA - NL 37-41-13; WL 122-07-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-698 MHz	FX	4M75V7W	1.5316 W (ERP)	

MOBILE: Quero, TX, within 80.47 km, centered around NL 29-09-04; WL 97-29-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Frequency Information

MOBILE: Fontennelle, WY, within 80.47 km, centered around NL 41-50-00; WL 110-06-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
512-698 MHz	MO	4M75V7W	60 mW (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) No operation is permitted in channels 3 (60-66 MHz)FX, 4 (66-72 MHz)FX, and 37 (608-614 MHz)FX/MO.
- (5) All operations must be in accordance with the FCC CFR 47 Part 15, Subpart H.
- (6) All the experimental equipments will be retrieved at the end of completion of this experiment.