

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

EXPERIMENTAL

(Nature of Service)

WG2XVN

(Call Sign)

XT FX MO

(Class of Station)

0230-EX-ML-2014

(File Number)

NAME AeroVironment, Inc.

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) MOBILE: Ground Based Locations within 12 Km of Center, within 12 km, centered around NL 34-19-23; WL 118-51-35
- (2) MOBILE: Airborne UAV operations, 12Km of center, 152m AGL, within 12 km, centered around NL 34-19-23; WL 118-51-35
- (3) MOBILE: Airborne UAV operations within 40 Km of center, within 40 km, centered around NL 35-50-51; WL 121-05-22
- (4) MOBILE: Ground/water operations 50Km of center, within 50 km, centered around NL 71-15-00; WL 149-00-00
- (5) MOBILE: Ground base locations within 30 Km of Center, within 30 km, centered around NL 34-54-29; WL 117-53-07
- (6) MOBILE: Airborne UAV operations, 30Km of center, 1524m AGL, within 30 km, centered around NL 34-54-29; WL 117-53-07
- (7) MOBILE: Ground Based Locations within 5 Km of Center, within 5 km, centered around NL 34-07-09; WL 119-07-10
- (8) MOBILE: Airborne UAV operations, 5Km of center, 1524m AGL, within 5 km, centered around NL 34-07-09; WL 119-07-10
- (9) MOBILE: Ground base locations within 30 Km of Center, within 30 km, centered around NL 40-11-24; WL 112-48-44
- (10) MOBILE: Airborne UAV operations, 30 Km of center, 1524 AGL, within 30 km, centered around NL 40-11-24; WL 112-48-44
- (11) MOBILE: Airborne UAV operations, 50Km of center, 1524m AGL, within 50 km, centered around NL 71-15-00; WL 149-00-00
- (12) MOBILE: Ground base locations within 30 Km of Center, within 30 km, centered around NL 35-41-37; WL 117-41-21
- (13) MOBILE: Airborne UAV operations within 30 Km of center, within 30 km, centered around NL 35-41-37; WL 117-41-21

This authorization effective February 03, 2015 and
will expire 3:00 A.M. EST December 01, 2015

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (14) MOBILE: Ground base locations within 40 Km of Center, within 40 km, centered around NL 35-50-51; WL 121-05-22
- (15) MOBILE: Ground Based Locations within 10 Km of Center, within 10 km, centered around NL 35-07-10; WL 79-18-35
- (16) Fayetteville (CUMBERLAND), NC - NL 35-07-10; WL 79-18-35; MOBILE: Airborne UAV operations 10 Km of center, 762m AGL, within 10 km
- (17) MOBILE: Ground Based Locations within 50 km of center, within 50 km, centered around NL 70-25-00; WL 148-50-00
- (18) MOBILE: Airborne UAV operations 50 km of center 1524m AGL, within 50 km, centered around NL 70-25-00; WL 148-50-00
- (19) MOBILE: Ground Based Locations within 4 km of center, within 4 km, centered around NL 32-30-58; WL 114-41-54
- (20) MOBILE: Airborne UAV operations 4 km of center 609.6m AGL, within 4 km, centered around NL 32-30-58; WL 114-41-54
- (21) MOBILE: Ground Based Locations within 5 km of center, within 5 km, centered around NL 34-25-56; WL 119-11-58
- (22) MOBILE: Airborne UAV operations 5 km of center 121.92m AGL, within 5 km, centered around NL 34-25-56; WL 119-11-58
- (23) MOBILE: Ground Based Locations within 5km of center, centered around NL 34-18-21; WL 119-18-08
- (24) MOBILE: Airborne UAV operations 5 km of center 121.92m AGL, within 5 km, centered around NL 34-18-21; WL 119-18-08
- (25) MOBILE: Ground Based Locations within 18.52 km of center, within 18.52 km, centered around NL 36-10-23; WL 120-23-08
- (26) MOBILE: Airborne operations 18.52km of center 121.92m AGL, within 18.52 km, centered around NL 36-10-23; WL 120-23-08
- (27) MOBILE: 18.52km excepting Camp Roberts MOA, within 18.52 km, centered around NL 35-57-19; WL 120-51-51
- (28) MOBILE: Airborne 18.52 km cent 121.92m AGL ex Roberts MOA, within 18.52 km, centered around NL 35-57-19; WL 120-51-51
- (29) MOBILE: Ground Locations within 37.04km Cent, Exc Kern NWR, within 37.04 km, centered around NL 35-36-20; WL 119-42-20
- (30) MOBILE: Airborne, 37.04km center, 121.92mAGL, ex Kern NWR, within 37.04 km, centered around NL 35-36-20; WL 119-42-20
- (31) MOBILE: Ground Based Locations within 18.52km of Center, within 18.52 km, centered around NL 35-16-35; WL 119-36-08
- (32) MOBILE: Airborne operations, 18.52km of center 121.92m AGL, within 18.52 km, centered around NL 35-16-35; WL 119-36-08
- (33) MOBILE: Ground Based Locations within 9.26km of Center, within 9.26 km, centered around NL 35-26-56; WL 118-59-21
- (34) MOBILE: Airborne operations, 9.26km of center, 121.92AGL, within 9.26 km, centered around NL 35-26-56; WL 118-59-21
- (35) MOBILE: Ground Based Locations within 37.04km of center, within 37.04 km, centered around NL 35-39-38; WL 108-30-17
- (36) MOBILE: Airborne operations 37.04km of center, 121.92m AGL, within 37.04 km, centered around NL 35-39-38; WL 108-30-17
- (37) MOBILE: Ground Locations, 98.16km Center, 75.9km E/W, within 98.16 km, centered around NL 35-40-57; WL 112-44-21

Station Locations

- (38) MOBILE: Airborne, 98.16km center, 75.9km E/W, 121.92AGL, within 98.16 km, centered around NL 35-40-57; WL 112-44-21
- (39) MOBILE: Ground Based Locations within 46.3 km of center, within 46.3 km, centered around NL 36-28-14; WL 110-23-38
- (40) MOBILE: Airborne operations, 46.3km of center, 121.92mAGL, within 46.3 km, centered around NL 36-28-14; WL 110-23-38

Frequency Information

MOBILE: Ground Based Locations within 12 Km of Center, within 12 km, centered around NL 34-19-23; WL 118-51-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne UAV operations, 12Km of center, 152m AGL, within 12 km, centered around NL 34-19-23; WL 118-51-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne UAV operations within 40 Km of center, within 40 km, centered around NL 35-50-51; WL 121-05-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: Ground/water operations 50Km of center, within 50 km, centered around NL 71-15-00; WL 149-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

Frequency Information

MOBILE: Ground base locations within 30 Km of Center, within 30 km, centered around NL 34-54-29; WL 117-53-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne UAV operations, 30Km of center,1524m AGL, within 30 km, centered around NL 34-54-29; WL 117-53-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: Ground Based Locations within 5 Km of Center, within 5 km, centered around NL 34-07-09; WL 119-07-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne UAV operations, 5Km of center,1524m AGL, within 5 km, centered around NL 34-07-09; WL 119-07-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G3W	10 W (ERP)	0.00012 %

Frequency Information

MOBILE: Ground base locations within 30 Km of Center, within 30 km, centered around NL 40-11-24; WL 112-48-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne UAV operations, 30 Km of center, 1524 AGL, within 30 km, centered around NL 40-11-24; WL 112-48-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne UAV operations, 50Km of center,1524m AGL, within 50 km, centered around NL 71-15-00; WL 149-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: Ground base locations within 30 Km of Center, within 30 km, centered around NL 35-41-37; WL 117-41-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G3W	10 W (ERP)	0.00012 %

Frequency Information

MOBILE: Airborne UAV operations within 30 Km of center, within 30 km, centered around NL 35-41-37; WL 117-41-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: Ground base locations within 40 Km of Center, within 40 km, centered around NL 35-50-51; WL 121-05-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Ground Based Locations within 10 Km of Center, within 10 km, centered around NL 35-07-10; WL 79-18-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

Fayetteville (CUMBERLAND), NC - NL 35-07-10; WL 79-18-35; MOBILE: Airborne UAV operations 10 Km of center, 762m AC

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

Frequency Information

MOBILE: Ground Based Locations within 50 km of center, within 50 km, centered around NL 70-25-00; WL 148-50-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne UAV operations 50 km of center 1524m AGL, within 50 km, centered around NL 70-25-00; WL 148-50-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: Ground Based Locations within 4 km of center, within 4 km, centered around NL 32-30-58; WL 114-41-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne UAV operations 4 km of center 609.6m AGL, within 4 km, centered around NL 32-30-58; WL 114-41-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

Frequency Information

MOBILE: Ground Based Locations within 5 km of center, within 5 km, centered around NL 34-25-56; WL 119-11-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne UAV operations 5 km of center 121.92m AGL, within 5 km, centered around NL 34-25-56; WL 119-11-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: Ground Based Locations within 5km of center, centered around NL 34-18-21; WL 119-18-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne UAV operations 5 km of center 121.92m AGL, within 5 km, centered around NL 34-18-21; WL 119-18-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

Frequency Information

MOBILE: Ground Based Locations within 18.52 km of center, within 18.52 km, centered around NL 36-10-23; WL 120-23-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne operations 18.52km of center 121.92m AGL, within 18.52 km, centered around NL 36-10-23; WL 120-23-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: 18.52km excepting Camp Roberts MOA, within 18.52 km, centered around NL 35-57-19; WL 120-51-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne 18.52 km cent 121.92m AGL ex Roberts MOA, within 18.52 km, centered around NL 35-57-19; WL 120-51-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

Frequency Information

MOBILE: Ground Locations within 37.04km Cent, Exc Kern NWR, within 37.04 km, centered around NL 35-36-20; WL 119-42-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne, 37.04km center, 121.92mAGL, ex Kern NWR, within 37.04 km, centered around NL 35-36-20; WL 119-42-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: Ground Based Locations within 18.52km of Center, within 18.52 km, centered around NL 35-16-35; WL 119-36-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne operations, 18.52km of center 121.92m AGL, within 18.52 km, centered around NL 35-16-35; WL 119-36-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %
		1M56G7W		

Frequency Information

MOBILE: Ground Based Locations within 9.26km of Center, within 9.26 km, centered around NL 35-26-56; WL 118-59-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne operations, 9.26km of center, 121.92AGL, within 9.26 km, centered around NL 35-26-56; WL 118-59-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: Ground Based Locations within 37.04km of center, within 37.04 km, centered around NL 35-39-38; WL 108-30-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne operations 37.04km of center, 121.92m AGL, within 37.04 km, centered around NL 35-39-38; WL 108-30-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

Frequency Information

MOBILE: Ground Locations, 98.16km Center, 75.9km E/W, within 98.16 km, centered around NL 35-40-57; WL 112-44-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne, 98.16km center, 75.9km E/W, 121.92AGL, within 98.16 km, centered around NL 35-40-57; WL 112-44-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G7W	10 W (ERP)	0.00012 %

MOBILE: Ground Based Locations within 46.3 km of center, within 46.3 km, centered around NL 36-28-14; WL 110-23-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	4M68G7W	10 W (ERP)	0.00012 %

MOBILE: Airborne operations, 46.3km of center, 121.92mAGL, within 46.3 km, centered around NL 36-28-14; WL 110-23-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1675 MHz	MO	1M56G3W 1M56G7W	10 W (ERP)	0.00012 %

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.