

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WM2XBS

(Call Sign)

0726-EX-CN-2021

(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(j) of the Commission's Rules

Station Locations

- (1) MOBILE: Sea Locations in Santa Barbara Channel, Santa Barbara, CA, within 9 km, centered around NL 34-21-05; WL 119-39-14
- (2) MOBILE: Airborne UAS, 9km Center, Max Flight Altitude 121.9m AGL, Santa Barbara, CA, within 9 km, centered around NL 34-21-05; WL 119-39-14

Frequency Information

MOBILE: Sea Locations in Santa Barbara Channel, Santa Barbara, CA, within 9 km, centered around NL 34-21-05; WL 119-39-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2362 MHz	MO	4M70G7W	9.687 W (ERP)	0.00012 %
2366 MHz	MO	4M70G7W	9.687 W (ERP)	0.00012 %
2389 MHz	MO	4M70G7W	9.687 W (ERP)	0.00012 %

This authorization effective September 30, 2021 and
will expire 3:00 A.M. EST September 14, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Sea Locations in Santa Barbara Channel, Santa Barbara, CA, within 9 km, centered around NL 34-21-05; WL 119-39-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2390 MHz	MO	4M70G7W	9.687 W (ERP)	0.00012 %

MOBILE: Airborne UAS, 9km Center, Max Flight Altitude 121.9m AGL, Santa Barbara, CA, within 9 km, centered around NL 34-21-05; WL 119-39-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2362 MHz	MO	1M60G7W	3.063 W (ERP)	0.00012 %
2366 MHz	MO	1M60G7W	3.063 W (ERP)	0.00012 %
2389 MHz	MO	1M60G7W	3.063 W (ERP)	0.00012 %
2390 MHz	MO	1M60G7W	3.063 W (ERP)	0.00012 %

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) 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) AeroVironment, Inc. must coordinate prior to transmitting and authorization with the DoD Western AFC (Area Frequency Coordinator) who also coordinates, as appropriate, with Aerospace and Flight Test Radio Coordinating Council. Use of these frequencies under the authority is subject to such further coordination with the AFC to ensure compatibility with existing users.

Special Conditions:

- (5) Mobile ground station will be located on ship/boat in Santa Barbara channel. Purpose of test flights will be to determine how meteorological and physical elements in an ocean environment affect radio wave propagation depending on the spectrum segment.

AFTRCC additionally recommends that IFDS scheduling via DoD Western AFC be required prior to ground/ship and/or airborne operations prior to missions.

- (6) Operations are on a non-interference basis to Flight Test telemetry and Air Force Spectrum Dependent System.