

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

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WK2XOG

(Call Sign)

0718-EX-CN-2019

(File Number)

NAME Dynetics, 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(c) of the Commission's Rules

Station Locations

- (1) MOBILE: Mobile Airborne, within 5 km, centered around NL 34-36-17; WL 86-37-43
- (2) MOBILE: Mobile Airborne, within 2 km, centered around NL 34-44-12; WL 86-41-23
- (3) MOBILE: Mobile Airborne, within 3 km, centered around NL 34-53-14; WL 87-20-29
- (4) MOBILE: Mobile Airborne, within 3 km, centered around NL 34-40-02; WL 87-21-38
- (5) MOBILE: Mobile Airborne, within 5 km, centered around NL 34-59-32; WL 86-38-57
- (6) MOBILE: Mobile Airborne, within 16 km, centered around NL 32-13-17; WL 85-28-18
- (7) MOBILE: Airborne 1000 ft. AGL, within 15 km, centered around NL 32-55-33; WL 113-45-27
- (8) MOBILE: Airborne 1000 ft. AGL, within 15 km, centered around NL 38-34-49; WL 77-26-08
- (9) MOBILE: Airborne 1000 ft. AGL, within 15 km, centered around NL 30-38-19; WL 86-18-28
- (10) MOBILE: Airborne 1000 ft. AGL, within 15 km, centered around NL 32-57-35; WL 106-32-32

Frequency Information

MOBILE: Mobile Airborne, within 5 km, centered around NL 34-36-17; WL 86-37-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

This authorization effective November 14, 2019 and
will expire 3:00 A.M. EST November 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Mobile Airborne, within 2 km, centered around NL 34-44-12; WL 86-41-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Mobile Airborne, within 3 km, centered around NL 34-53-14; WL 87-20-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Mobile Airborne, within 3 km, centered around NL 34-40-02; WL 87-21-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Mobile Airborne, within 5 km, centered around NL 34-59-32; WL 86-38-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

Frequency Information

MOBILE: Mobile Airborne, within 16 km, centered around NL 32-13-17; WL 85-28-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Airborne 1000 ft. AGL, within 15 km, centered around NL 32-55-33; WL 113-45-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Airborne 1000 ft. AGL, within 15 km, centered around NL 38-34-49; WL 77-26-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

MOBILE: Airborne 1000 ft. AGL, within 15 km, centered around NL 30-38-19; WL 86-18-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

Frequency Information

MOBILE: Airborne 1000 ft. AGL, within 15 km, centered around NL 32-57-35; WL 106-32-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-16.5 GHz	MO	150MQXN	20 W (ERP)	0.000028 %

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) 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) The experimental application shall not be used for Detect and Avoid (DAA) or other aeronautical radionavigation functions.
- (4) Stop buzzers in case interference occurs during testing:
Primary: Baron Johnson; Mobile: (352) 339-5272
Secondary: Steve Norris; Mobile: (256) 585-7885
- (5) License is for demonstration and testing only.
- (6) Operations will not be simultaneous at all locations specified on the subject licenses.
- (7) A single team will deploy to and set up operations at only one location at a time.
- (8) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by DARPA Mobile Force Protection (MFP) Contract Number HR0011-17-9-0017. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.