

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

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WK2XCW

(Call Sign)

0259-EX-CM-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 & J) of the Commission's Rules

Station Locations

- (1) MOBILE: Ground Temporary Fixed and Mobile Huntsville AL, within 35 km, centered around NL 34-44-10; WL 86-40-54
- (2) MOBILE: Ground Temporary Fixed and Mobile Eglin AFB FL, within 15 km, centered around NL 30-38-19; WL 86-18-28
- (3) MOBILE: Ground Temporary Fixed and Mobile YPG, within 50 km, centered around NL 32-55-36; WL 113-45-14
- (4) MOBILE: Ground Temporary Fixed and Mobile Rogersville AL, within 2 km, centered around NL 34-53-14; WL 87-20-29
- (5) MOBILE: Ground Temporary Fixed and Mobile Quantico VA, within 15 km, centered around NL 38-34-49; WL 77-26-07
- (6) MOBILE: Ground Temporary Fixed and Mobile Courtland AL, within 5 km, centered around NL 34-39-19; WL 87-20-59
- (7) MOBILE: Ground Temporary Fixed and Mobile Hurtsboro AL, within 5 km, centered around NL 32-13-17; WL 85-28-19
- (8) MOBILE: Ground Temporary Fixed Yuma Proving Grounds, within 30 km, centered around NL 33-25-22; WL 114-17-46
- (9) MOBILE: Ground Temporary Fixed WSMR, within 30 km, centered around NL 33-43-27; WL 106-28-12
- (10) MOBILE: Ground Temporary Fixed Dugway Proving Grounds, within 15 km, centered around NL 40-11-43; WL 112-56-24
- (11) MOBILE: Ground Temporary Fixed MCAGCC, within 15 km, centered around NL 34-17-44; WL 116-09-02
- (12) MOBILE: Ground Temporary Fixed Butlerville, IN, within 10 km, centered around NL 39-02-59; WL 85-31-44
- (13) MOBILE: Ground Temporary Fixed Dahlgren VA, within 10 km, centered around NL 38-19-40; WL 77-02-01

This authorization effective October 28, 2019 and
will expire 3:00 A.M. EST May 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (14) MOBILE: Ground Temporary Fixed Pax River NAS, within 10 km, centered around NL 38-08-24; WL 76-25-02
- (15) MOBILE: Ground Temporary Fixed Camp Roberts, CA, within 15 km, centered around NL 35-47-11; WL 120-47-09
- (16) MOBILE: Ground Temporary Fixed Avon Park AF Range, within 10 km, centered around NL 27-39-04; WL 81-20-46
- (17) MOBILE: Ground Temporary Fixed Camp Shelby, MS, within 15 km, centered around NL 31-10-23; WL 89-09-41
- (18) MOBILE: Ground Temporary Fixed Eileson AFB, within 40 km, centered around NL 64-39-49; WL 147-05-58
- (19) MOBILE: Ground Temporary Fixed Fort AP Hill, within 15 km, centered around NL 38-04-11; WL 77-19-07
- (20) MOBILE: Ground Temporary Fixed Fort Bragg, NC, within 30 km, centered around NL 35-10-13; WL 79-00-55
- (21) MOBILE: Ground Temporary Fixed Arnold AFB, within 10 km, centered around NL 35-23-32; WL 86-05-09
- (22) MOBILE: Ground Temporary Fixed Eglin AFB, within 15 km, centered around NL 30-31-08; WL 86-46-55

Frequency Information

MOBILE: Ground Temporary Fixed and Mobile Huntsville AL, within 35 km, centered around NL 34-44-10; WL 86-40-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed and Mobile Eglin AFB FL, within 15 km, centered around NL 30-38-19; WL 86-18-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

Frequency Information

MOBILE: Ground Temporary Fixed and Mobile YPG, within 50 km, centered around NL 32-55-36; WL 113-45-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed and Mobile Rogersville AL, within 2 km, centered around NL 34-53-14; WL 87-20-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed and Mobile Quantico VA, within 15 km, centered around NL 38-34-49; WL 77-26-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed and Mobile Courtland AL, within 5 km, centered around NL 34-39-19; WL 87-20-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

Frequency Information

MOBILE: Ground Temporary Fixed and Mobile Hurtsboro AL, within 5 km, centered around NL 32-13-17; WL 85-28-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed Yuma Proving Grounds, within 30 km, centered around NL 33-25-22; WL 114-17-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed WSMR, within 30 km, centered around NL 33-43-27; WL 106-28-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed Dugway Proving Grounds, within 15 km, centered around NL 40-11-43; WL 112-56-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

Frequency Information

MOBILE: Ground Temporary Fixed MCAGCC, within 15 km, centered around NL 34-17-44; WL 116-09-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed Butlerville, IN, within 10 km, centered around NL 39-02-59; WL 85-31-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed Dahlgren VA, within 10 km, centered around NL 38-19-40; WL 77-02-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed Pax River NAS, within 10 km, centered around NL 38-08-24; WL 76-25-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

Frequency Information

MOBILE: Ground Temporary Fixed Camp Roberts, CA, within 15 km, centered around NL 35-47-11; WL 120-47-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed Avon Park AF Range, within 10 km, centered around NL 27-39-04; WL 81-20-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed Camp Shelby, MS, within 15 km, centered around NL 31-10-23; WL 89-09-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed Eileson AFB, within 40 km, centered around NL 64-39-49; WL 147-05-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

Frequency Information

MOBILE: Ground Temporary Fixed Fort AP Hill, within 15 km, centered around NL 38-04-11; WL 77-19-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed Fort Bragg, NC, within 30 km, centered around NL 35-10-13; WL 79-00-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed Arnold AFB, within 10 km, centered around NL 35-23-32; WL 86-05-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

MOBILE: Ground Temporary Fixed Eglin AFB, within 15 km, centered around NL 30-31-08; WL 86-46-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-9.9 GHz	MO	100MQ3N	7.6 kW (ERP)	0.015 %

Special Conditions:

- (1) 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.

Special Conditions:

- (3) The following will be available and will act as "stop buzzers" if any issues regarding interference arise during testing:
Primary: Luke Zimmerman - 828.736.5227
Secondary: Adam Wathen - 256.924.5915
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government 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.
- (5) COORDINATION WITH THE YPG SPECTRUM MANAGEMENT OFFICE (SMO) IS MANDATORY AT LEAST 14 CALENDAR DAYS PRIOR TO ANY INTENDED USE OF THIS FREQUENCY ON YUMA PROVING GROUND OR WITHIN ITS RESTRICTED AIRSPACE BY CONTACTING THE YPG SMO AT 928-328-7144.
- (6) License is for demonstration and testing only.
- (7) Operations will not be simultaneous at all locations specified on the subject license.
- (8) A single team will deploy to and set up operations at only one location at a time.